



April 2010

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STAGE 3 ARCHAEOLOGICAL ASSESSMENT

**Kent Breeze Wind Farm
Part of Lots 8 and 9, Concession A
Part of Lots 4 to 11, Concession 1
And Part of Lots 5 and 6, Concession 2
Geographic Township of Camden
Municipality of Chatham-Kent, Ontario**

Submitted to:

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REPORT

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Acknowledgements

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Executive Summary

A Stage 1 archaeological assessment (Archaeologix Inc. 2008) and Stage 2 archaeological assessment (Golder Associates Ltd. 2010) have previously been conducted on behalf of IBI Group for the Kent Breeze Wind Farm project located on part of Lots 8 and 9, Concession A, part of Lots 4 to 11, Concession 1 and part of Lots 5 and 6, Concession 2, in the Geographic Township of Camden, Municipality of Chatham-Kent, Ontario. The Stage 2 archaeological assessment resulted in the identification of two Euro-Canadian domestic occupation sites with artifacts dating from the mid to late 19th century. In order to determine the potential heritage value of these sites a Stage 3 archaeological assessment was recommended. This report provides the results of the required Staged 3 assessment of these sites.

The Stage 3 archaeological assessment of both Location 1 (AdHm-65) and Location 2 (AdHm-66) resulted in the recovery of primarily late 19th and 20th century cultural material. Due to the limited cultural heritage value of these sites no further archaeological assessment is recommended.

The Ontario Ministry of Culture is asked to review the results presented and accept this report into the Provincial Register of archaeological reports. The Ministry is also asked to inform the proponent and the Municipality of Chatham-Kent that the provincial concerns for cultural heritage resources for this project have been met.

The Executive Summary highlights key points from the report only; for complete information and findings, as well as the limitations, the reader should examine the complete report.



Table of Contents

1.0 INTRODUCTION.....	1
2.0 STUDY METHODS	3
2.1 Stage 3 Assessment of Significance and Information Potential.....	3
3.0 RESULTS	5
3.1 Location 1 (AdHm-65).....	5
3.1.1 Artifacts	5
3.1.2 Land Registry Information	15
3.1.3 Summary.....	16
3.2 Location 2 (AdHm-66).....	17
3.2.1 Artifacts	17
3.2.2 Land Registry Information	23
3.2.3 Summary.....	25
4.0 SUMMARY AND RECOMMENDATIONS.....	26
5.0 IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT	27
6.0 REFERENCES CITED	28

TABLES

Table 1: Stage 3 Artifact Summary for Location 1 (AdHm-65)	7
Table 2: Ceramic Wares Recovered from Location 1 (AdHm-65)	10
Table 3: Ceramic Wares by Decorative Style.....	11
Table 4: Abstract Index for Lot 9, Concession 1, Township of Camden, Municipality of Chatham-Kent	15
Table 5: Stage 3 Artifact Summary for Location 2 (AdHm-66)	17
Table 6: Ceramic Wares Recovered from Location 2 (AdHm-66)	21
Table 7: Ceramic Wares by Decorative Style.....	21
Table 8: Abstract Index for Lot 6, Concession 1, Township of Camden, Municipality of Chatham-Kent	23

FIGURES

Figure 1: Location of Study Area & Archaeological Site Locations.....	2
Figure 2: Excavation Unit Identification Key	3



STAGE 3 ARCHAEOLOGICAL ASSESSMENT KENT BREEZE WIND FARM

Figure 3: Stage 3 Excavation and Surface Artifact Collection at Location 1 (AdHm-65)	6
Figure 4: Stage 3 Excavation and Surface Artifact Collection at Location 2 (AdHm-66).....	19
PLATES	
Plate 1: Stage 3 Excavations at Location 1 (AdHm-65)	4
Plate 2: Stage 3 Excavations at Location 2 (Adhm-66)	4
Plate 3: Sample of Bottle Glass Recovered from Location 1 (actual size).....	8
Plate 4: Metal File, Hook and Screw Recovered from Location 1 (actual size)	8
Plate 5: Imprinted Pipe Stem Recovered from Location 1 (actual size)	9
Plate 6: Biface Tip Recovered from Location 1 (actual size).....	9
Plate 7: Examples of Decorated Ironstone from Location 1 (actual size)	12
Plate 8: Examples of Decorated Whiteware from Location 1 (actual size)	12
Plate 9: Example of Transfer Printed Porcelain from Location 1 (actual size).....	13
Plate 10: Wire Drawn Nail and Cut Nail from Location 2 (actual size).....	18
Plate 11: Transfer Printed Ironstone from Location 2 (actual size).....	21
Plate 12: Transfer Printed Porcelain Recovered from Location 2 (actual size)	22
Plate 13: Example of Rockingham Wares Recovered from Location 2 (actual size).....	22
Plate 14: Transfer Printed Whiteware recovered from Location 2 (actual size).....	23

APPENDICES

APPENDIX A

Artifact Catalogue



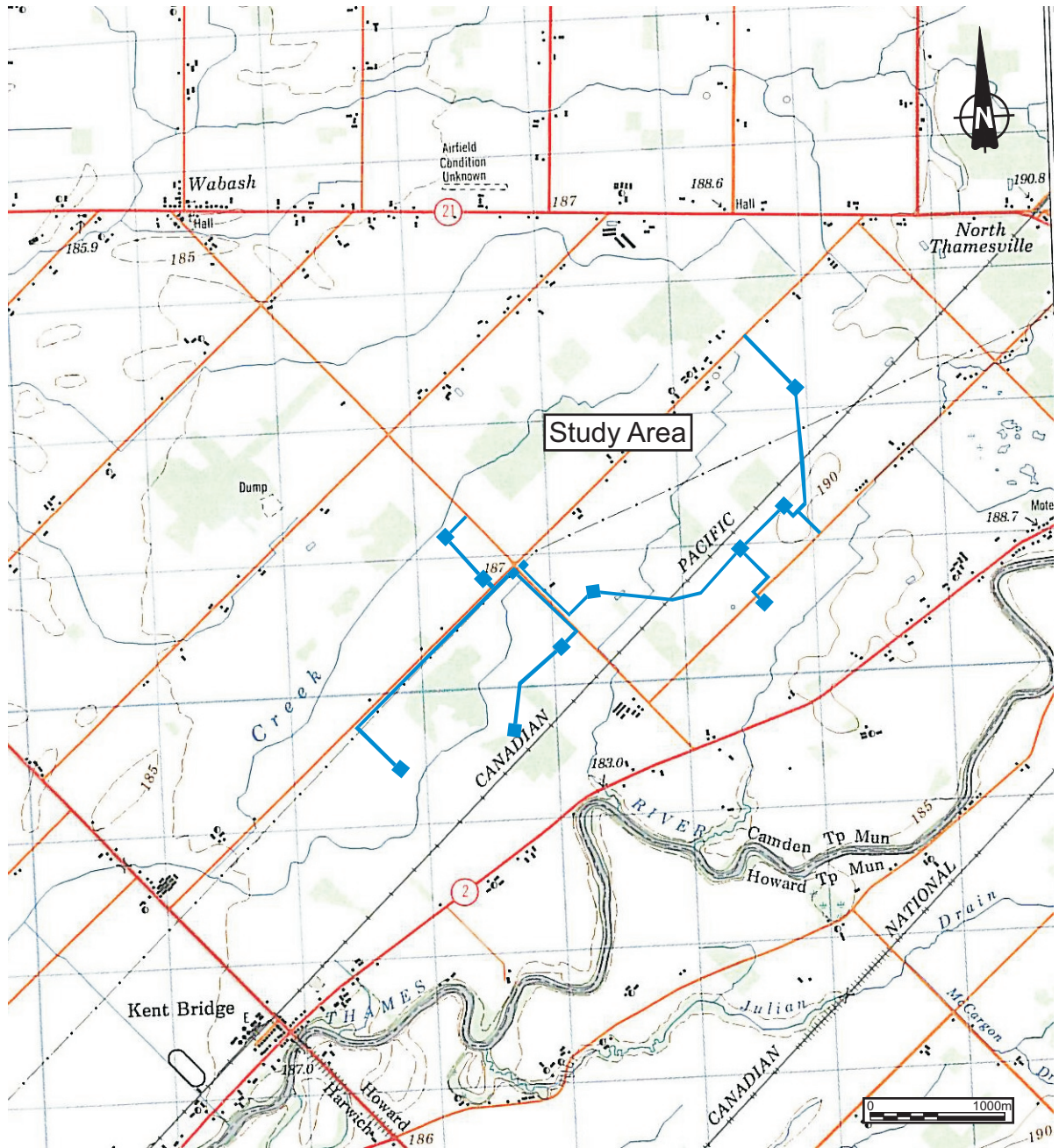
1.0 INTRODUCTION

A Stage 1 archaeological assessment (Archaeologix Inc. 2008) and Stage 2 archaeological assessment (Golder Associates Ltd. 2010) have previously been conducted on behalf of IBI Group for the Kent Breeze Wind Farm project located on part of Lots 8 and 9, Concession A, part of Lots 4 to 11, Concession 1 and part of Lots 5 and 6, Concession 2, in the Geographic Township of Camden, Municipality of Chatham-Kent, Ontario (Figure 1). The Stage 2 archaeological assessment resulted in the identification of two Euro-Canadian domestic occupation sites with artifacts dating from the mid to late 19th century. In order to determine the potential heritage value of these sites a Stage 3 archaeological assessment was recommended. This report provides the results of the required Staged 3 assessment.

The Stage 3 archaeological assessment was undertaken on behalf of IBI Group on December 14th and 15th 2009 by Golder Associates Ltd. (Golder) under archaeological consulting licence P001, issued to Jim Wilson, M.A. by the Ontario Ministry of Culture.

The Stage 3 archaeological assessment of both Location 1 (AdHm-65) and Location 2 (AdHm-66) resulted in the recovery of primarily late 19th and 20th century cultural material. Due to the limited cultural heritage value of these sites no further archaeological assessment is recommended.

The Ontario Ministry of Culture is asked to review the results presented and accept this report into the Provincial Register of archaeological reports. The Ministry is also asked to inform the proponent and the Municipality of Chatham-Kent that the provincial concerns for cultural heritage resources for this project have been met.



REFERENCE

DRAWING BASED ON NTS MAP SHEET 40 J/9,
NATURAL RESOURCES CANADA, 1996

NOTES

THIS DRAWING IS SCHEMATIC ONLY AND IS TO BE READ
IN CONJUNCTION WITH ACCOMPANYING TEXT.

ALL LOCATIONS ARE APPROXIMATE.

PROJECT		Stage 3 Archaeological Assessment Kent Breeze Wind Farm Facility Municipality of Chatham-Kent, Ontario	
TITLE		Location of Study Area	
PROJECT No.	09-1136-1035	FILE No.	0911361035-R01001
CADD	JLD	SCALE	1:50,000 REV.
CHECK		Figure 1	



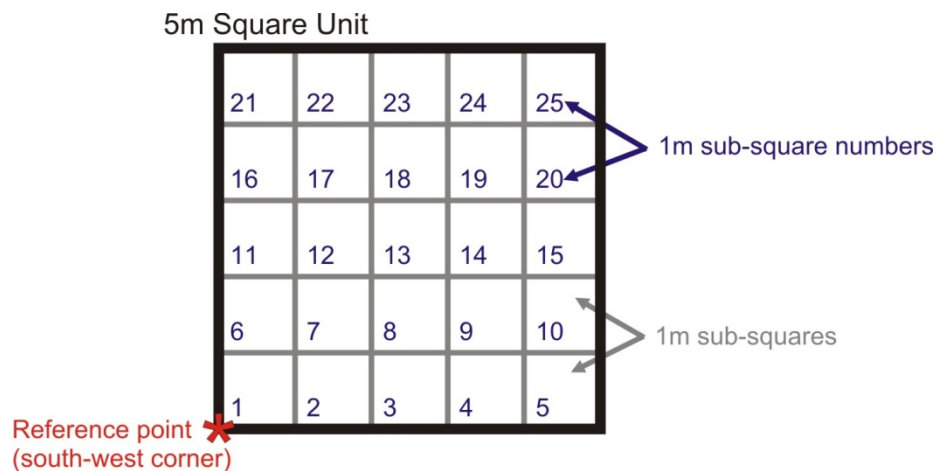


2.0 STUDY METHODS

2.1 Stage 3 Assessment of Significance and Information Potential

The Stage 3 assessment involved the controlled collection and mapping of surface artifact distribution as well as the hand excavation of a series of one metre units strategically located to test the nature and density of the artifact distribution at each site (Plates 1 and 2). Datum stakes from the Stage 2 assessment were relocated and a permanent datum was placed on the site, oriented on magnetic north. The five metre units in the grid are referred to by the intersection coordinates of their southwest corner. Each five metre square was divided into 25 one metre units, with sub-square number one located in the southwest corner of the five metre unit, number five in the southeast corner, number six located immediately north of number one, and so on (Figure 2).

Figure 2: Excavation Unit Identification Key



Each one metre test unit was excavated to subsoil, with all soil screened through six millimetre hardware cloth to facilitate the recovery of small artifacts. The subsoil surface of each unit was shovel shined and examined for any evidence of subsoil cultural features prior to backfilling. All recovered artifacts were retained for laboratory analysis and description.

The weather during the assessment was cold and overcast. Visibility was excellent and at no time were conditions detrimental to the recovery of archaeological material. Permission to enter the property and remove artifacts was granted by Derek Dudek of IBI Group. All recovered artifacts will be temporarily housed at the London office of Golder Associates Ltd. until formal arrangements can be made for their transfer to the Ministry of Culture collections facility at 900 Highbury Ave. London, Ontario.



STAGE 3 ARCHAEOLOGICAL ASSESSMENT KENT BREEZE WIND FARM



Plate 1: Stage 3 Excavations at Location 1 (AdHm-65)



Plate 2: Stage 3 Excavations at Location 2 (Adhm-66)



3.0 RESULTS

Stage 3 excavations were conducted using the methods outlined in Section 2.1 of this report. Figure 1 illustrates the location of each archaeological site subject to Stage 3 excavation and excavation maps for each site are included below. When artifacts are illustrated they are shown at actual size. Appendix A provides the complete catalogue listing of all Stage 3 artifacts recovered.

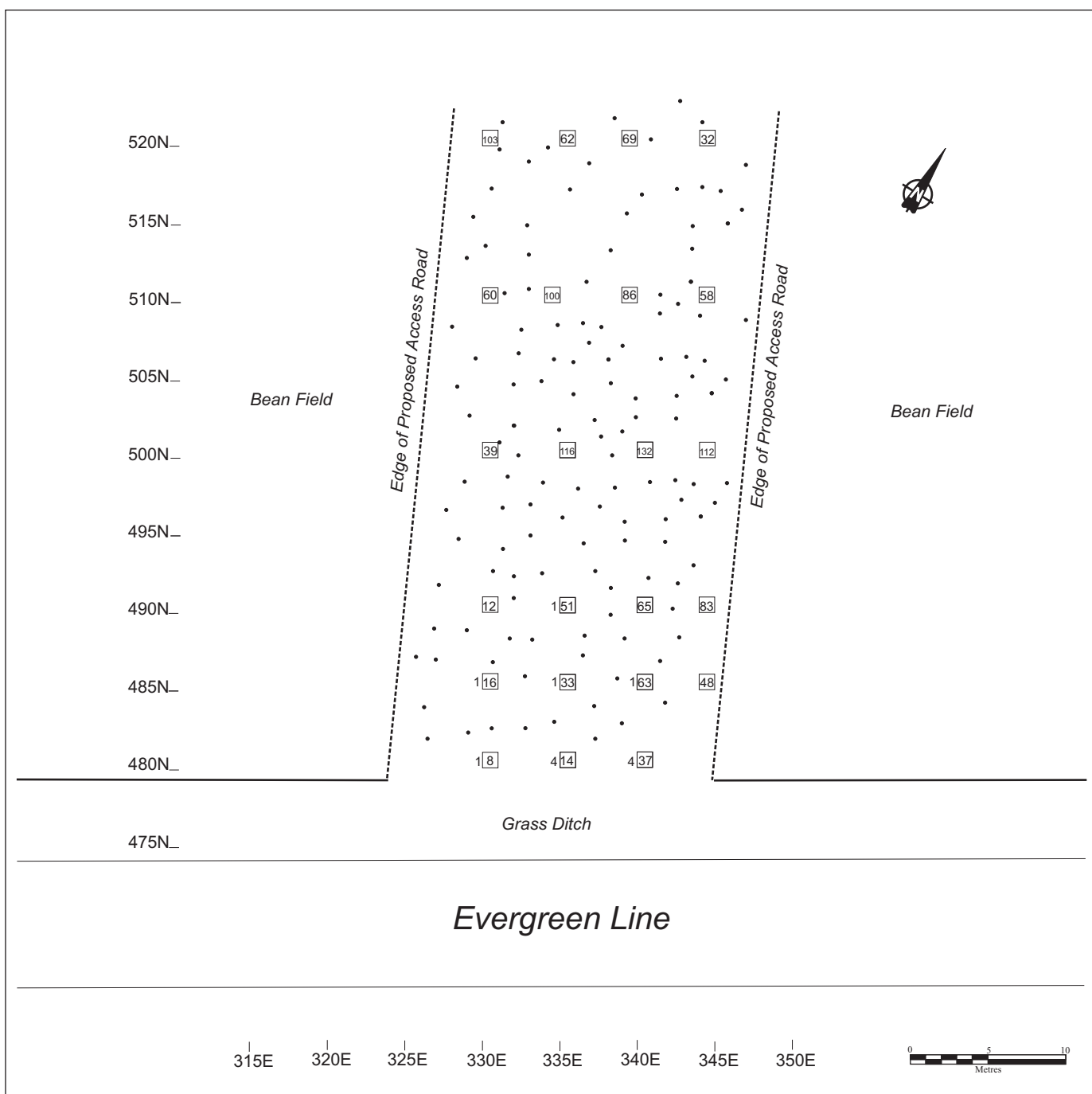
3.1 Location 1 (AdHm-65)

During the Stage 2 assessment, Location 1 (AdHm-65) was found to consist of a 20 metre by 45 metre scatter of Euro-Canadian historic artifacts located at GPS coordinates 17T 0416006/4711029. In total, a representative sample of 219 Euro-Canadian artifacts was collected from the ploughed field surface. A Stage 3 archaeological assessment was recommended to better evaluate the cultural heritage value of this Euro-Canadian domestic occupation site.

The Stage 3 assessment of Location 1 (AdHm-65) included the hand excavation of 23 one metre square test units in the area of greatest surface artifact distribution (Figure 3). Test unit depths ranged between 12 centimetres and 35 centimetres and artifact yields per unit ranged between 12 and 132. The surface artifact scatter extends for approximately 45 metres from the grass ditch at Evergreen Line into the field and is bounded to the east and west by the edge of the study area. The development in this area consists of a planned access road; both the proposed area of impact and an additional buffer area were subject to assessment. Surface artifact distribution and artifact recovery rates from the Stage 3 units excavated indicate that a core portion of this site has been investigated as part of this study, including all areas that could potentially be impacted by construction activities.

3.1.1 Artifacts

A total of 1460 artifacts were recovered during the Stage 3 excavation and surface collections. Each artifact class is discussed in greater detail below. Table 1 provides a summary of the Stage 3 artifact assemblage and a complete catalogue listing of each artifact recovered is included as Appendix A.



LEGEND

- STAGE 3 UNIT EXCAVATED
- NUMBER OF EURO-CANADIAN ARTIFACTS RECOVERED
- NUMBER OF ABORIGINAL ARTIFACTS RECOVERED
- LOCATION OF SURFACE ARTIFACT

NOTES

THIS DRAWING IS SCHEMATIC ONLY AND IS TO BE READ IN CONJUNCTION WITH ACCOMPANYING TEXT.

ALL LOCATIONS ARE APPROXIMATE.

PROJECT				Stage 3 Archaeological Assessment Kent Breeze Wind Farm Municipality of Chatham-Kent			
TITLE				Stage 3 Excavations at Location 1 (AdHm-65)			
PROJECT No.		09-1136-1035-3000		FILE No.		0911361035-3000-R01003	
CADD		AEG		Feb. 18/10		SCALE AS SHOWN REV.	
CHECK						Figure 3	





Table 1: Stage 3 Artifact Summary for Location 1 (AdHm-65)

Artifact	Freq.	%
Non-Ceramic Artifacts:		
Structural	495	33.9
Glass	336	23.0
Metal	32	2.3
Personal	15	1.0
Aboriginal	15	1.0
Faunal	7	0.5
Recent	6	0.4
Total Non-ceramic Artifacts	906	62.1
Ceramic Artifacts:		
Ironstone	204	14.0
Whiteware	186	12.7
Porcelain	75	5.1
Undetermined	53	3.6
Utilitarian	27	1.8
Yellowware	8	0.5
Redware	1	0.1
Total Ceramic Artifacts	554	37.9
Total Stage 3 Artifacts	1460	100

Non-Ceramic Artifacts

Non-ceramic artifacts comprise 62% of the Stage 3 artifact assemblage recovered from Location 1 (AdHm-65) and include 495 structural, 336 glass, 33 metal, 14 personal, 15 Aboriginal, seven faunal and six recent material.

Structural

The structural artifact category is comprised of nails (n=256), window glass (n=180), brick (n=58) and mortar (n=1) fragments. Cut nails were most often recovered, with 225 pieces, followed by 26 wire drawn nails and five nails of an undetermined type.



STAGE 3 ARCHAEOLOGICAL ASSESSMENT KENT BREEZE WIND FARM

Cut nails were machine cut and have a flat head. They were invented as early as 1790, but did not become common in Ontario until 1830. Wire drawn nails became popular in the 1890's and are identical to the type of nails in current use today, with a flat, round head and a wire shaft. Two of the 58 brick fragments recovered were yellow and the remainder were red.

Glass

The glass assemblage is dominated by bottle glass, with 274 fragments, followed by miscellaneous glass (n=33), glass dish pieces (n=24), chimney or lamp glass (n=3) and white glass (n=2). The colours of bottle glass in this collection include aqua, clear, amber, green, blue and olive or 'black' glass (Plate 3). Many fragments were recognisable as pieces of modern glass bottles. The majority of miscellaneous glass (82%) is heat altered.

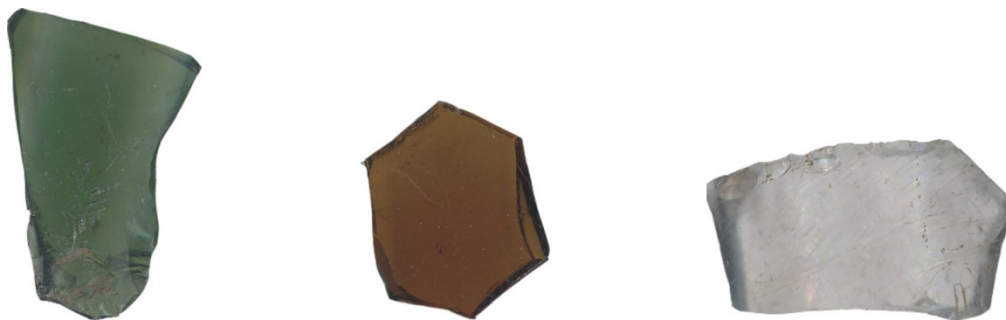


Plate 3: Sample of Bottle Glass Recovered from Location 1 (actual size)

Metal

The metal artifacts recovered from Location 1 (AdHm-65) include 24 miscellaneous metal fragments, two screws, one file, one hook, one hinge, one horseshoe tack, one decorative piece that was judged to be a door knocker and an axe head (Plate 4).



Plate 4: Metal File, Hook and Screw Recovered from Location 1 (actual size)



Personal

Personal items recovered include six buttons, six white clay pipe stem fragments, two white clay pipe bowl fragments and one clay marble. Five of the buttons are white agate and one is black glass with a shank attachment. One of the pipe stem pieces has "R. BANNERMAN" imprinted on one side with "MONTREAL" on the other (Plate 5). Most white clay pipes found in Upper Canada were manufactured in either Quebec or Scotland, with only occasional examples from English, Dutch, French and American makers. The practice of imprinting the maker's name and/or city of manufacture on the side of the pipe stem did not become popular until the 1840s. Bannerman pipes were manufactured in Montreal from 1857 to 1907 (Thomas Kenyon, 1984).



Plate 5: Imprinted Pipe Stem Recovered from Location 1 (actual size)

Pre-Contact Aboriginal

In addition to the Euro-Canadian domestic material identified, 15 Aboriginal artifacts were recovered including 14 pieces of chipped stone debitage and one biface fragment (Plate 6). Chipping detritus is the waste material created during the production of chipped stone tools and is the most frequently encountered type of pre-contact Aboriginal cultural material. The biface tip fragment recovered has been manufactured on Onondaga chert which is a high quality raw material that outcrops along the north shore of Lake Erie east of the embouchure of the Grand River. This material can also be recovered from secondary, glacial deposits across much of southwestern Ontario, east of Chatham. The tip is roughly triangular with irregular margins and measures 31 millimetres in length to the break, with a maximum width of 26 millimetres and maximum thickness of 7 millimetres. In addition to fine flake removal, the edges have been ground smooth and on one margin there is evidence of battering similar to that seen on *piece esquille* tools.



Plate 6: Biface Tip Recovered from Location 1 (actual size)



Bifacial tools were used by Aboriginal peoples from the first occupations of Ontario until they were eventually phased out by European manufactured metal goods. This artifact type is commonly found during archaeological investigations but unfortunately cannot provide a temporal designation. While these tools were used prior to European settlement in the area they were also common during the historic period.

The Aboriginal artifacts are all found within a 15 by 15 metre area. The concentration of these pieces within a small area suggests that these artifacts were recovered *in situ* and represent a small Aboriginal occupation area, a small camp where lithic tools were worked on. There is no evidence to suggest the occupation was for an extended period of time and the small amount of cultural material recovered supports this. It is most likely that the Aboriginal artifacts recovered from this site were from an earlier deposit rather than associated with the Euro-Canadian occupation.

Faunal

An in-depth examination of faunal material was outside the scope of the current study, however, it was noted that of the seven pieces of faunal material recovered two were burnt and one had butcher saw marks.

Recent

Six weeping tile fragments were recovered during the excavation of Location 1 (AdHm-65) and have been classified here as recent material.

Ceramic Artifacts

Ceramic artifacts comprise 38% of the Stage 3 artifact assemblage recovered from Location 1 (AdHm-65) and include fragments of a variety of fine tablewares and utilitarian vessel types. Included in this total is ironstone (n=204), whiteware (n=186), porcelain (n=75), ceramics of an undetermined type (n=53), utilitarian pieces (n=27), yellowware (n=8) and redware (n=1). Table 2 provides a breakdown of the ceramic assemblage by ware type, while Table 3 provides a more detailed breakdown of the ceramic assemblage by decorative style.

Table 2: Ceramic Wares Recovered from Location 1 (AdHm-65)

Ceramic Types:	Freq.	%
Ironstone	204	36.8
Whiteware	186	33.6



STAGE 3 ARCHAEOLOGICAL ASSESSMENT KENT BREEZE WIND FARM

Ceramic Types:	Freq.	%
Porcelain	75	13.5
Undetermined	53	9.6
Utilitarian	27	4.9
Yellowware	8	1.4
Redware	1	0.2
Total Ceramic Artifacts	554	100

Table 3: Ceramic Wares by Decorative Style

Ceramics:	Freq.	%
Ironstone, plain	179	32.3
Whiteware, plain	158	28.5
Undetermined	53	9.6
Porcelain, plain	52	9.4
Whiteware, transfer print	14	2.5
Ironstone, moulded	13	2.3
Porcelain, semi	13	2.3
Earthenware, yellow	12	2.2
Ironstone, transfer print	9	1.6
Porcelain, transfer print	9	1.6
Stoneware	8	1.4
Yellowware	8	1.4
Earthenware, red	5	0.9
Whiteware, painted	4	0.7
Whiteware, banded	4	0.7
Ironstone, painted	3	0.5
Whiteware, stamped	3	0.5
Rockinghamware	2	0.4
Whiteware, moulded	1	0.2
Whiteware, flow transfer print	1	0.2
Whiteware, edged	1	0.2
Porcelain, painted	1	0.2
Redware	1	0.2
Total Ceramic Artifacts	554	100



Ironstone

Ironstone, or graniteware, is a variety of refined white earthenware introduced in the 1840's that became extremely popular in Upper Canada by the 1860's (I. Kenyon 1985). It is usually much thicker than other whiteware and often decorated with raised moulded designs of wheat or fruit. From the current assemblage 179 plain, 13 moulded, nine transfer printed and three painted ironstone pieces were recovered. The decorated ironstone assemblage includes a variety of different moulded designs, including grapes, floral patterns and the wheat or Ceres decorative pattern; black, green and blue transfer printed pieces; and two brown and one green hand painted piece (Plate 7).



Moulded Ironstone

Transfer Printed Ironstone

Plate 7: Examples of Decorated Ironstone from Location 1 (actual size)

White Earthenware

Whiteware is a variety of earthenware with a near colourless glaze that replaced earlier near-white ceramics such as pearlware and creamware by the early 1830's. Early whiteware tends to have a porous paste, with more vitrified, harder, ceramics becoming increasingly common later in the 19th century. A total of 85% of the 186 pieces of whiteware recovered are plain (n=158), 14 are transfer printed, four are painted, four are banded, three are stamped, one is moulded, one is flow transfer printed and one is edged.



Transfer Printed Whiteware

Stamped Whiteware

Banded Whiteware

Plate 8: Examples of Decorated Whiteware from Location 1 (actual size)



Transfer printed whiteware involved the transfer of an intricate pattern from a sheet of treated paper to the underglaze surface of the clay. Before 1830, almost all transfer printed wares were blue. After 1830, colours such as light blue, black, brown, green, purple and red became more common. Transfer printed whiteware ceramics were less densely decorated than the earlier pearlware types, with more of the white background showing through the designs. The 14 pieces of transfer printed whiteware that were collected include five blue, five green and four red (Plate 8).

Four pieces each of hand painted and banded whiteware were recovered from this location, each constituting 0.7% of the ceramic assemblage. The hand painted whiteware from this location is exclusively polychrome, floral pattern tea ware. Painted wares of this type were popular from as early as 1830 through to the 1870's. The prominent colours from this collection are orange, pink, brown, red and green. The banded wares recovered include three with blue bands (Plate 8) and one with black.

Three pieces of stamped whiteware were recovered from Location 1. Stamping involved the transfer of paint to the bisque surface through the use of a stamp most frequently made of sponge. This decorative technique usually dates to the second half of the 19th century. All of the stamped pieces were decorated using black (Plate 8).

The remaining pieces of decorated whiteware include one moulded, one black flow transfer printed and one fragmentary blue edged piece. Flow transfer printing, in which the pigment is allowed to flow into the glaze, became popular in the 1840's and 50's, with a later revival in the 1890's.

Porcelain

Porcelain is a type of earthenware fired at such a high temperature that the clay has begun to vitrify; consequently the ceramic is translucent when held up to a light. Because of its high cost, porcelain is extremely rare on 19th century sites in Ontario. However, by the turn of the century it becomes relatively common as production techniques were developed in Europe which greatly reduced costs.



Plate 9: Example of Transfer Printed Porcelain from Location 1 (actual size)



The majority of porcelain is plain, with 52 pieces comprising 69% of the porcelain assemblage. In addition to the plain porcelain recovered there are 13 plain semi-porcelain pieces, nine transfer printed pieces with green, purple, pink and yellow colours noted (Plate 9), and one hand painted with gold lines.

Undetermined Ceramic Type

Unfortunately, 53 of the ceramic pieces recovered from Location 1 could not be catalogued into specific ceramic-ware classifications. These pieces are so heavily damaged and fragmentary that it is impossible to accurately identify them by ceramic type. In order to avoid altering the separate ceramic totals, percentages and ultimately the temporal data for the site the damaged pieces were simply classified as miscellaneous unidentified ceramics.

Utilitarian Earthenware

The utilitarian vessel assemblage consists of 12 yellow earthenware, eight stoneware, five red earthenware and two Rockingham glazed fragments. Red and yellow earthenware vessels were manufactured throughout the late 18th and 19th centuries and were the most common utilitarian ware in the first half of the 19th century, eventually being replaced by more durable stoneware vessels. Rockingham ware is similar to yellow earthenware with a yellow paste, but the addition of a second brown coloured manganese glaze results in the body of the ceramic having a mottled appearance. Rockingham wares were used as utilitarian vessels often in the form of crocks, jars, pitchers and tea pots.

Yellowware

Yellowware ceramics were first manufactured in the 1840's, and continue to be manufactured in limited quantities today. A total of eight pieces of yellowware ceramic fragments were recovered from Location 1. None of the yellowware recovered display any decoration.

Redware

Redware is a thin bodied earthenware covered on both the interior and exterior by a dark reddish-brown, dark brown or black glaze. This type of ceramic type was commonly used in the early 19th century for tea pots and mugs. One redware sherd was recovered during the Stage 3 excavations at Location 1.



STAGE 3 ARCHAEOLOGICAL ASSESSMENT KENT BREEZE WIND FARM

3.1.2 Land Registry Information

Location 1 (AdHm-65) is situated in the southern portion of Lot 9, Concession 1, Geographic Township of Camden, Municipality of Chatham-Kent, Ontario. The following summarizes the land registry records concerning the 19th century occupation of this site.

Table 4: Abstract Index for Lot 9, Concession 1, Township of Camden, Municipality of Chatham-Kent

INSTR.	REG. DATE	GRANTOR	GRANTEE	CONS.	LAND & REMARKS
Patent	01/12/1815	Crown	George Ward		200 Acres
B&S	24/03/1821	George Ward	George Thompson	25.0.0	Front Pt.
B&S	26/12/1827	George Ward	George Thompson		Front Pt.
B&S	26/12/1827	George Thompson	Joshua Cornwall	37.10.0	Front Pt.
Tax Deed	03/10/1832	William Hands	Samuel Street		Pt.
B&S	21/04/1834	George Ward	Richard Pattinson	50.0.0	All
B&S	16/08/1839	George Meldrum	Sheldon McKnight	\$2,000.00	All
B&S	19/08/1839	Sheldon McKnight	Josh Cowan	500.0.0	All
Sheff. Deed	15/01/1851	George W. Foott	William D. Baby	161.5.4	All
Life L & Oony	14/12/1860	Thomas C. Street, et al	Thomas Gladstone, etux		Pt.
B&S	27/09/1866	William H. Cornwall	Joshua S. Cornwall	\$1,000.00	Pt.
B&S	25/02/1867	Joshua S. Cornwall, etux	Frederick J. Mayhew, etal		Pt.
B&S	03/02/1868	Fred J. Mayhew, etal	John Turk	\$400.00	Pt.
B&S	30/07/1870	John Turk	Frederick J. Mayhew	\$650.00	Pt.
Apptg.Trustees	08/11/1870	Arthur J. Robertson	John Nix, etal		All
Conveyance	07/08/1879	Charles F. Mackintosh, etal	Arthur J. Robertson		All
Tax Deed	30/05/1882	Warden & Treasurer	S.C. Duncan Clark	\$81.39	Pt.
Authority to Sell	25/04/1883	F. J. Mayhew	W.J.Fenton & Co.		Pt.
Q. C.	21/11/1884	Samuel C. D. Clark, etux	Elizabeth F. Gladstone	\$1.00	Pt.
Tax Deed	08/05/1885	Warden & Treasurer	John E. Brooke		Pt.
Will	23/07/1885	Joshua Cornwall	Wheeler Brush, etal		Pt. inter alia
Release	11/08/1885	W.J. Fenton	F. J. Mayhew		Pt.
Q. C.	25/04/1889	Elizabeth F. Gladstone, et??	Frederick J. Mayhew	\$200.00	Pt.
Q. C.	25/04/1889	Samuel C. D. Clark, etux	Frederick J. Mayhew	\$1.00	Pt.
B&S	25/04/1889	Samuel C. D. Clark, etux	Frederick J. Mayhew	\$1.00	Pt.
B&S	01/05/1889	Frederick J. Mayhew, etux	Ontario & Que. Ry. Co.	\$212.50	Pt.



STAGE 3 ARCHAEOLOGICAL ASSESSMENT KENT BREEZE WIND FARM

INSTR.	REG. DATE	GRANTOR	GRANTEE	CONS.	LAND & REMARKS
B&S	23/05/1889	John E. Brooke, etal	Ontario & Que. Ry. Co.	\$36.00	Pt.
B&S	26/03/1900	Frederick J. Mayhew, etux	William Taylor	\$75.00	Pt.
B&S	31/03/1900	John E. Brooke	Frederick J. Mayhew	\$50.00	Pt.
Q. C.	4/9/1909	Walter F. Mayhew, etux, etal	Agnes Mayhew	\$1.00etc	Pt.
B&S	17/04/1915	Agnes Mayhew	William A. Mayhew	\$1,500.00	Pt.
G	28/03/1919	William A. Mayhew, etux	Wilbert E. Pickard	\$3,000.00	Pt.
G	27/01/1923	William H. Taylor, etux	Ernest Burchett, etux	\$2,400.00	Pt.

The original Crown deed for this property was granted to George Ward in December of 1815. Ward began selling portions of the lot in 1821 and eventually sold it in its entirety to Richard Pattison in 1834. Ownership of Lot 9 changed relatively frequently as various portions of the lot were bought and sold. In May of 1889 both Frederick J. Mayhew and John E. Brooke sold a portion of their land to the Ontario and Quebec Railway Company. The rail line established is still in use today and is located to the north west of Location 1. As noted in the Built Heritage and Cultural Landscape study the current road grid was in existence by 1881 (Golder Associates Ltd. 2010). Location 1 is situated along what is currently called Evergreen Line and the close association of the homestead to the road suggests that the homestead was built after the roadway was in use.

3.1.3 Summary

The Stage 3 archaeological assessment of Location 1 (AdHm-65) resulted in the recovery of primarily late 19th and 20th century cultural material. Late 19th and 20th century ceramics such as ironstone and porcelain are prevalent, and no early ceramic types such as creamware or pearlware were recovered. Many examples of modern bottle glass were recovered as well.

Considering the association of this site to the road, the presence of recent material and lack of early 19th century material the significance and information potential of this site was judged to be low. Due to the limited cultural heritage value of this site no further archaeological assessment is recommended. The cultural heritage value or interest of Location 1 (AdHm-65) has been sufficiently documented and additional archaeological assessment in the form of Stage 4 mitigation or protection is not recommended.



3.2 Location 2 (AdHm-66)

During the Stage 2 assessment, Location 2 (AdHm-66) was found to consist of a 65 metre by 20 metre scatter of Euro-Canadian historic artifacts located at GPS coordinates 17T 0414056/4710510 along the edge of Huff's Side Road. In total, a representative sample of 122 Euro-Canadian artifacts was collected from the ploughed field surface. A Stage 3 archaeological assessment was recommended to better evaluate the cultural heritage value of this Euro-Canadian domestic occupation site.

The Stage 3 assessment of Location 2 (AdHm-66) included the hand excavation of 13 one metre square test units in the area of greatest surface artifact distribution within the limits of the proposed cable route (Figure 4). Test unit depths ranged between 27 centimetres and 42 centimetres deep and artifact yields ranged between 4 and 30. The surface artifact scatter is diffuse and extends for approximately 60 metres along the grass ditch at Huff's Side Road. The ground disturbance in this area consists of a planned cable route; both the proposed area of impact and an additional buffer area were subject to assessment. All areas that could potentially be impacted by construction activities have been investigated as part of this study.

3.2.1 Artifacts

A total of 202 artifacts were recovered during the Stage 3 excavation and surface collection. Each artifact class is discussed in greater detail below. Table 5 provides a summary of the Stage 3 artifact assemblage and a complete catalogue listing of each artifact recovered is included as Appendix A.

Table 5: Stage 3 Artifact Summary for Location 2 (AdHm-66)

Artifact	Freq.	%
Non-Ceramic Artifacts:		
Structural	70	34.7
Glass	50	24.8
Metal	6	3.0
Personal	1	0.5
Recent	1	0.5
Total Non-ceramic Artifacts	128	63.4
Ceramic Artifacts:		
Ironstone	37	18.3
Porcelain	20	9.9



STAGE 3 ARCHAEOLOGICAL ASSESSMENT KENT BREEZE WIND FARM

Artifact	Freq.	%
Utilitarian	11	5.4
Whiteware	6	3.0
Total Ceramic Artifacts	74	36.6
Total Stage 3 Artifacts	202	100

Non-Ceramic Artifacts

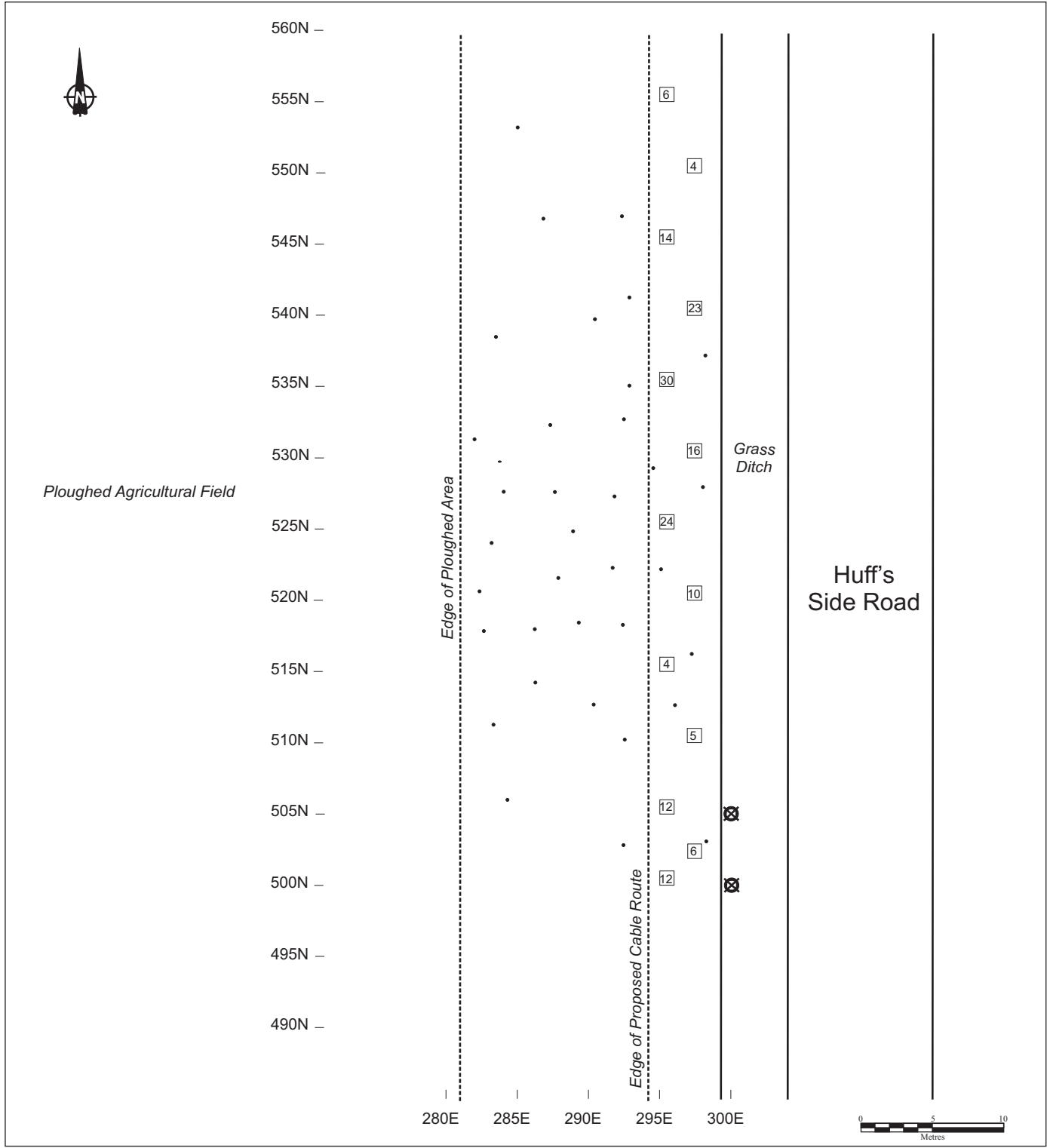
Non-ceramic artifacts comprise 63% of the Stage 3 artifact assemblage recovered from Location 2 (AdHm-66) and includes 70 structural, 50 glass, six metal, one personal and one recent material.

Structural

The structural artifact category is comprised of window glass (n=39) nails (n=16) and brick (n=15) fragments. Fifteen of the 16 nails recovered are wire drawn and one is cut (Plate 10). Wire drawn nails became popular in the 1890's and are identical to the type of nails in current use today, with a flat, round head and a wire shaft. Cut nails were machine cut and have a flat head. They were invented as early as 1790, but did not become common in Ontario until 1830. All of the brick fragments recovered were red.



Plate 10: Wire Drawn Nail and Cut Nail from Location 2 (actual size)



LEGEND

- STAGE 3 UNIT EXCAVATED
- NUMBER OF ARTIFACTS RECOVERED
- LOCATION OF SURFACE ARTIFACT
- DATUM STAKE

NOTES

THIS DRAWING IS SCHEMATIC ONLY AND IS TO BE READ IN CONJUNCTION WITH ACCOMPANYING TEXT.

ALL LOCATIONS ARE APPROXIMATE.

PROJECT		Stage 3 Archaeological Assessment		FILE No.	0911361035-3000-R01004		
		Kent Breeze Wind Farm		SCALE	AS SHOWN REV.		
		Municipality of Chatham-Kent		<p style="text-align: center;">Figure 4</p>			
TITLE		Stage 3 Excavations at Location 2 (AdHm-66)					
		PROJECT No.	09-1136-1035-3000				
		CADD	AEG	Feb. 18/10			
		CHECK					





Glass

The glass assemblage is dominated by bottle glass, with 49 pieces, plus one white glass fragment. The colours of bottle glass in this collection include clear, amber, blue and olive or 'black' glass.

Metal

The metal artifacts recovered from Location 2 (AdHm-66) include two miscellaneous metal fragments, two screws one metal clamp and one metal hook fragment.

Personal

The single personal item recovered during the Stage 3 excavation is a fragment of a white clay pipe stem. No makers marks or decoration are present. Most white clay pipes found in Upper Canada were manufactured in either Quebec or Scotland, with only occasional examples from English, Dutch, French and American makers.

Recent

One weeping tile fragment was recovered during the excavation of Location 2 (AdHm-66) which has been classified here as recent material.

Ceramic Artifacts

Ceramic artifacts comprise 37% of the Stage 3 artifact assemblage recovered from Location 2 (AdHm-66) and include fragments of a variety of fine tablewares and utilitarian vessel types. Included in this total is 37 pieces of ironstone, 20 pieces of porcelain, 11 utilitarian pieces and six whiteware. Table 6 provides a breakdown of the ceramic assemblage by ware type, while Table 7 provides a more detailed breakdown of the ceramic assemblage by decorative style.



Table 6: Ceramic Wares Recovered from Location 2 (AdHm-66)

Ceramic Artifacts:	Freq.	%
Ironstone	37	50.0
Porcelain	20	27.0
Utilitarian	11	14.9
Whiteware	6	8.1
Total Ceramic Artifacts	74	100

Table 7: Ceramic Wares by Decorative Style

Ceramic Artifacts:	Freq.	%
Ironstone, plain	36	48.6
Porcelain, plain	17	23.0
Stoneware	6	8.1
Whiteware, plain	5	6.8
Rockinghamware	3	4.1
Earthenware, yellow	2	2.7
Porcelain, transfer print	2	2.7
Whiteware, transfer print	1	1.4
Ironstone, transfer print	1	1.4
Porcelain, painted	1	1.4
Total Ceramic Artifacts	74	100

Ironstone

Ironstone, or graniteware, is a variety of refined white earthenware introduced in the 1840's that became extremely popular in Upper Canada by the 1860's (I. Kenyon 1985). It is usually much thicker than other whiteware and often decorated with raised moulded designs of wheat or fruit. From the current assemblage 36 pieces are plain and one is transfer printed. The transfer printed piece has a green design (Plate 11).



Plate 11: Transfer Printed Ironstone from Location 2 (actual size)



Porcelain

Porcelain is a type of earthenware fired at such a high temperature that the clay has begun to vitrify; consequently the ceramic is translucent when held up to a light. Because of its high cost, porcelain is extremely rare on 19th century sites in Ontario. However, by the turn of the century it becomes relatively common as production techniques were developed in Europe which greatly reduced costs.



Plate 12: Transfer Printed Porcelain Recovered from Location 2 (actual size)

The majority of porcelain recovered is plain, with 17 pieces comprising 85% of the porcelain assemblage. In addition to the plain porcelain recovered there are two transfer printed pieces, both with floral designs (Plate 12), and one painted brown piece.

Utilitarian Earthenware

The utilitarian vessel assemblage consists of six stoneware, three Rockingham glazed (Plate 13) and two yellow earthenware fragments. Red and yellow earthenware vessels were manufactured throughout the late 18th and 19th centuries and were the most common utilitarian ware in the first half of the 19th century, eventually being replaced by more durable stoneware vessels. Rockingham ware is similar to yellow earthenware with a yellow paste, but the addition of a second brown coloured manganese glaze results in the body of the ceramic having a mottled appearance. Rockingham wares were used as utilitarian vessels often in the form of crocks, jars, pitchers and tea pots.



Plate 13: Example of Rockingham Wares Recovered from Location 2 (actual size)



White Earthenware

Whiteware is a variety of earthenware with a near colourless glaze that replaced earlier near white ceramics such as pearlware and creamware by the early 1830's. Early whiteware tends to have a porous paste, with more vitrified, harder, ceramics becoming increasingly common later in the 19th century. Five of the six pieces of whiteware recovered are plain and one is transfer printed with a green design (Plate 14).



Plate 14: Transfer Printed Whiteware recovered from Location 2 (actual size)

Transfer printed whiteware involved the transfer of an intricate pattern from a sheet of treated paper to the underglaze surface of the clay. Before 1830, almost all transfer printed wares were blue. After 1830, colours such as light blue, black, brown, green, purple and red became more common. Transfer printed whiteware ceramics were less densely decorated than the earlier pearlware types, with more of the white background showing through the designs.

3.2.2 Land Registry Information

Location 2 (AdHm-66) is situated in the northern portion of Lot 6, Concession 1, Geographic Township of Camden, Municipality of Chatham-Kent, Ontario. The following summarizes the existing archival records concerning the 19th century occupation of this site.

Table 8: Abstract Index for Lot 6, Concession 1, Township of Camden, Municipality of Chatham-Kent

INSTR.	REG. DATE	GRANTOR	GRANTEE	CONS.	LAND & REMARKS
Copy of Patent	20/10/1883	Crown	James Henderson		All
Copy of Patent	20/10/1883	Crown	James Henderson		All
Deed Poll	11/08/1838	John Mercer	Samuel S. McDonald	200.0.0	All
B&S	09/11/1883	James Henderson, etal, exor.	James C. Langford	\$1,400.00	Pt.



STAGE 3 ARCHAEOLOGICAL ASSESSMENT KENT BREEZE WIND FARM

INSTR.	REG. DATE	GRANTOR	GRANTEE	CONS.	LAND & REMARKS
B&S	06/05/1889	James C. Langford, etux	Ontario & Que. Ry. Co.	\$113.00	Pt.
B&S	02/08/1889	James Henderson, etal	William W. Huff	\$1,300.00	Pt.
B&S	12/08/1889	William W. Huff, etux	Ontario & Que. Ry. Co.	\$114.50	Pt.
Release	24/08/1889	William W. Huff, etux	Ontario & Que. Ry. Co.	\$25.00	Rt. Of Crossing
B&S	04/06/1890	James Henderson, etal	William W. Huff	\$2,200.00	Pt.
M	03/11/1891	William W. Huff, etux	Huron & Erie L&S Coy.	\$3,300.00	Pt.
Lease	14/11/1891	William W. Huff	William Elgie		Pt.
M	28/05/1892	William W. Huff, etux	John A. Campbell	\$2,200.00	Pt. inter alia
Lien	28/08/1893	William W. Huff, etux	Sawyer & Massey Co.	\$800.00	Pt. inter alia
Lien	19/10/1893	William W. Huff, etux	Sawyer & Massey Co.	\$475.00	Pt. inter alia
Agmt.	16/07/1894	William W. Huff	Douglas Glass	\$1,000.00	Pt. inter alia
M	12/11/1894	William W. Huff, etux	Bank of Montreal	\$2,775.00	Pt. inter alia
Deed	20/06/1898	William W. Huff, etux	Douglas Glass	\$300.00	Pt.
A M	09/11/1898	John A. Campbell	Bank of Montreal	\$2,400.00	Pt. inter alia
B&S	27/10/1900	Douglas Glass, etux	Public S. Board. No.12,Sec.	\$50.00	Pt.
B&S	1/12/1904	Douglas Glass, etux	Bank of Montreal	\$1.00	Pt. inter alia
A Lien	8/12/1908	Sawyer & Massey Coy. Ltd.	Douglas Glass	\$50.00	Pt. inter alia Lien 5871 & 5888
A M	8/12/1908	Huron & Erie Loan & S. Co.	Bank of Montreal	\$3,498.00	Pt. inter alia M 5508

The Abstract Index for this lot begins in 1883 with a 'Copy of Patent' from the Crown to James Henderson. The original date of Crown patent is not recorded. It is possible that the original index was damaged or lost and a new one was created in 1883 to enable James Henderson to sell the entire lot, which he did one month later. The only entry dated earlier than 1883 is the Deed Poll in 1838 of the entire lot from John Mercer to Samuel S. McDonald. Unfortunately, records from the early 1800's which would be directly pertinent to this study are not available. It is not likely that Samuel McDonald held onto the lot as a sole owner until the recordkeeping picks up again. In fact his name, or any McDonald, is not listed again in the Abstract index for this lot. It is also possible that the date is a typo as the date of 1838 is listed between other entries from 1883.

William W. Huff bought a portion of Lot 6 in 1889 and in 1890 and the Huff family remained owners of some portions of the property for at least the next 60 years. The long occupation of the Huff family in this area is also made evident by Huff's Side Road which is the name of the road that borders the site to the east.



As noted in the Built Heritage and Cultural Landscape study, the current road grid was in existence by 1881 (Golder Associates Ltd. 2010). Location 2 is situated along Huff's Side Road and the close association of the homestead to the road suggests that the homestead was built after the roadway was in use.

3.2.3 Summary

The Stage 3 archaeological assessment of Location 2 (AdHm-66) resulted in the recovery of a relatively small amount of mainly late 19th and 20th century cultural material. Late 19th and 20th century ceramics such as ironstone and porcelain are dominant and no early ceramics such as creamware or pearlware were identified. In addition, modern wire drawn nails were frequently recovered.

Due to the association of the site to the road, the lack of a significant amount of early 19th century material and the presence of a considerable amount of recent material the significance and information potential of this site was judged to be low. Due to the limited cultural heritage value of this site no further archaeological assessment is recommended. The cultural heritage value or interest of Location 2 (AdHm-66) has been sufficiently documented and additional archaeological assessment in the form of Stage 4 mitigation or protection is not recommended.



4.0 SUMMARY AND RECOMMENDATIONS

The Stage 3 archaeological assessment of Euro-Canadian archaeological sites Location 1 (AdHm-65) and Location 2 (AdHm-66) was undertaken on behalf of IBI Group in order to fulfil a standard condition of approval as imposed by Part 4, Sections 20, 21 and 22 of Ontario Regulation 359/09 regarding Renewable Energy Approvals. The Stage 3 archaeological assessment of both Location 1 (AdHm-65) and Location 2 (AdHm-66) resulted in the recovery of primarily of late 19th and 20th century cultural material. Due to the limited cultural heritage value of these sites no further archaeological assessment is recommended.

The Ontario Ministry of Culture is asked to review the results presented and accept this report into the Provincial Register of archaeological reports. The Ministry is also asked to inform the proponent and the Municipality of Chatham-Kent that the provincial concerns for cultural heritage resources for this project have been met.

Should deeply buried archaeological material be found during construction activities, the Ministry of Culture should be notified immediately (416) 314-7174. In the event that human remains are encountered during construction, the proponent should immediately contact both the Ministry of Culture and the Registrar or Deputy Registrar of the Cemeteries Regulation Unit of the Ministry of Consumer Services, (416) 326-8404.

GOLDER ASSOCIATES LTD.

ORIGINAL SIGNED

Jim Wilson, M.A.
Senior Archaeologist

AEG/JAW/RJB/sc/sll

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5.0 IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT

Golder Associates Ltd. has prepared this report in a manner consistent with that level of care and skill ordinary exercised by members of the archaeological profession currently practicing under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied is made.

This report has been prepared for the specific site, design objective, developments and purpose described to Golder Associates Ltd., by IBI Group. The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without Golder Associates Ltd.'s express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, Golder Associates Ltd. may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to Golder Associates Ltd. The report, all plans, data, drawings and other documents as well as electronic media prepared by Golder Associates Ltd. are considered its professional work product and shall remain the copyright property of Golder Associates Ltd., who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of Golder Associates Ltd. The Client acknowledges the electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client cannot rely upon the electronic media versions of Golder Associates Ltd.'s report or other work products.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project.

Special risks occur whenever archaeological investigations are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain archaeological resources. The sampling strategies incorporated in this study comply with those identified in the Ministry of Culture's Archaeological Assessment Technical Guidelines (1993) (Stages 1-3 and Reporting Format).



6.0 REFERENCES CITED

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APPENDIX A

Artifact Catalogue



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Location 1 (AdHm-65)

Cat.#	Context	Depth	Artifact	Freq.	Comments
28	surface collected	n/a	porcelain, semi	6	
29	surface collected	n/a	ironstone, moulded	7	
30	surface collected	n/a	ceramic, unidentified	10	
31	surface collected	n/a	glass	3	
32	surface collected	n/a	ironstone, plain	31	
33	surface collected	n/a	whiteware, banded	1	blue
34	surface collected	n/a	whiteware, plain	9	
35	surface collected	n/a	whiteware, moulded	1	
36	surface collected	n/a	nail, cut	1	
37	surface collected	n/a	faunal	1	
38	surface collected	n/a	faunal	1	burnt
39	surface collected	n/a	brick	3	red
40	surface collected	n/a	earthenware, yellow	2	
41	surface collected	n/a	glass, window	4	
42	surface collected	n/a	stoneware	2	
43	surface collected	n/a	glass, dish	5	3 clear, 1 aqua, 1 purple
44	surface collected	n/a	glass, bottle	13	aqua, clear, amber, purple
45	surface collected	n/a	ironstone, transfer print	3	blue, black
46	surface collected	n/a	porcelain, transfer print	4	green, purple, yellow
47	surface collected	n/a	porcelain, plain	9	
48	surface collected	n/a	axe	1	head
49	330E 480N:1	19cm	stoneware	2	
50	330E 480N:1	19cm	ironstone, plain	1	
51	330E 480N:1	19cm	ceramic, unidentified	1	
52	330E 480N:1	19cm	chipping detritus	1	
53	330E 480N:1	19cm	glass, bottle	2	aqua
54	330E 480N:1	19cm	nail, cut	1	
55	330E 480N:1	19cm	glass, window	1	
56	340E 520N:5	25cm	glass, dish	4	3 clear, 1 aqua
57	340E 520N:5	25cm	ironstone, plain	8	
58	340E 520N:5	25cm	porcelain, plain	1	
59	340E 520N:5	25cm	nail, cut	2	
60	340E 520N:5	25cm	whiteware, banded	1	blue



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
61	340E 520N:5	25cm	whiteware, plain	2	
62	340E 520N:5	25cm	ironstone, painted	1	brown
63	340E 520N:5	25cm	ironstone, transfer print	1	black
64	340E 520N:5	25cm	glass, window	12	
65	340E 500N:1	22cm	glass, bottle	26	aqua, clear, amber, green
66	340E 500N:1	22cm	ironstone, plain	20	
67	340E 500N:1	22cm	ceramic, unidentified	7	
68	340E 500N:1	22cm	glass	17	melted
69	340E 500N:1	22cm	glass, dish	4	2 clear, 1 aqua, 1 purple
70	340E 500N:1	22cm	whiteware, plain	8	
71	340E 500N:1	22cm	button, agate	1	white, 4 holes
72	340E 500N:1	22cm	porcelain, semi	2	
73	340E 500N:1	22cm	porcelain, plain	2	
74	340E 500N:1	22cm	yellowware	1	
75	340E 500N:1	22cm	ironstone, transfer print	1	black
76	340E 500N:1	22cm	faunal	1	burnt
77	340E 500N:1	22cm	glass, window	3	
78	340E 500N:1	22cm	earthenware, red	2	
79	340E 500N:1	22cm	brick	1	red
80	340E 500N:1	22cm	nail, horseshoe	1	
81	340E 500N:1	22cm	nail, undetermined	5	
82	340E 500N:1	22cm	nail, wire drawn	1	
83	340E 500N:1	22cm	metal, hook	1	
84	340E 500N:1	22cm	metal, miscellaneous	3	
85	340E 500N:1	22cm	chipping detritus	2	
86	340E 500N:1	22cm	nail, cut	23	
87	340E 485N:5	29cm	brick	3	2 yellow, 1 red
89	340E 485N:5	29cm	nail, wire drawn	2	
90	340E 485N:5	29cm	whiteware, flow transfer print	1	black
91	340E 485N:5	29cm	porcelain, painted	1	gold lines
92	340E 485N:5	29cm	nail, cut	9	
93	340E 485N:5	29cm	porcelain, plain	4	
94	340E 485N:5	29cm	whiteware, transfer print	3	blue
95	340E 485N:5	29cm	white clay pipe bowl	1	incised lines



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
96	340E 485N:5	29cm	whiteware, plain	5	
97	340E 485N:5	29cm	whiteware, painted	1	green
98	340E 485N:5	29cm	metal, miscellaneous	1	
99	340E 485N:5	29cm	glass, window	8	
100	340E 485N:5	29cm	glass, white	1	
101	340E 485N:5	29cm	glass, bottle	5	3 clear, 1 green, 1 purple
102	340E 485N:5	29cm	porcelain, semi	1	
103	340E 485N:5	29cm	glass, dish	1	purple
104	340E 485N:5	29cm	rockinghamware	1	
105	330E 510N:5	24cm	porcelain, plain	4	
106	330E 510N:5	24cm	porcelain, transfer print	1	pink
107a	330E 510N:5	24cm	metal, file	1	
107b	330E 510N:5	24cm	yellowware	1	
108a	330E 510N:5	24cm	glass, window	11	
108b	330E 510N:5	24cm	earthenware, yellow	1	
109	330E 510N:5	24cm	stoneware	1	
110	330E 510N:5	24cm	button, agate	1	
111	330E 510N:5	24cm	ironstone, moulded	2	
112	330E 510N:5	24cm	ironstone, plain	10	
113	330E 510N:5	24cm	porcelain, semi	3	
114	330E 510N:5	24cm	ceramic, unidentified	10	
115	330E 510N:5	24cm	whiteware, plain	17	
116	330E 510N:5	24cm	glass, bottle	23	clear, amber, green, purple, blue
117	330E 510N:5	24cm	metal, miscellaneous	1	
118	330E 510N:5	24cm	recent	4	drainage tile
119	330E 510N:5	24cm	brick	2	red
120	330E 510N:5	24cm	nail, cut	4	
121	330E 510N:5	24cm	nail, wire drawn	2	
122	330E 510N:5	24cm	metal, decoration	1	possible door knocker
123	340E 510N:5	28cm	glass, window	4	
124	340E 510N:5	28cm	glass, bottle	6	5 clear, 1 purple
125	340E 510N:5	28cm	metal, miscellaneous	1	
126	340E 510N:5	28cm	button, agate	1	
127	340E 510N:5	28cm	glass, dish	1	clear
128	340E 510N:5	28cm	whiteware, painted	1	orange and pink



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
129	340E 510N:5	28cm	whiteware, transfer print	2	green
130	340E 510N:5	28cm	whiteware, plain	11	
131	340E 510N:5	28cm	white clay pipe stem	2	1-"R. BANNERMAN"/"MONTREAL"
132	340E 510N:5	28cm	earthenware, yellow	1	
133	340E 510N:5	28cm	nail, wire drawn	3	
134	340E 510N:5	28cm	nail, cut	14	
135	340E 510N:5	28cm	brick	3	red
136	340E 510N:5	28cm	ironstone, plain	3	
137	340E 510N:5	28cm	ironstone, moulded	2	
138	340E 510N:5	28cm	porcelain, plain	3	
139	335E 500N:1	16cm	glass, bottle	18	clear, amber, green
140	335E 500N:1	16cm	yellowware	1	
141	335E 500N:1	16cm	ironstone, plain	3	
142	335E 500N:1	16cm	ironstone, moulded	1	wheat pattern
143	335E 500N:1	16cm	whiteware, plain	20	
144	335E 500N:1	16cm	whiteware, edged	1	blue, fragmentary
145	335E 500N:1	16cm	glass, dish	2	clear
146	335E 500N:1	16cm	glass, window	6	
147	335E 500N:1	16cm	ceramic, unidentified	2	
148	335E 500N:1	16cm	white clay pipe stem	1	
149	335E 500N:1	16cm	button, glass	1	black, shank attachment
150	335E 500N:1	16cm	metal, miscellaneous	2	
151	335E 500N:1	16cm	glass	10	melted
152	335E 500N:1	16cm	porcelain, plain	4	
153	335E 500N:1	16cm	porcelain, transfer print	1	green and pink
154	335E 500N:1	16cm	nail, cut	30	
155	335E 500N:1	16cm	nail, wire drawn	6	
156	335E 500N:1	16cm	faunal	3	
157	335E 500N:1	16cm	metal, miscellaneous	4	
158	335E 490N:1	28cm	whiteware, banded	1	black
159	335E 490N:1	28cm	glass, window	1	
160	335E 490N:1	28cm	nail, wire drawn	3	
161	335E 490N:1	28cm	white clay pipe stem	1	
162	335E 490N:1	28cm	glass	1	



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
163	335E 490N:1	28cm	nail, cut	27	
164	335E 490N:1	28cm	metal, miscellaneous	1	
165	335E 490N:1	28cm	ironstone, plain	3	
166	335E 490N:1	28cm	glass, dish	1	clear
167	335E 490N:1	28cm	chipping detritus	1	
168	335E 490N:1	28cm	whiteware, plain	5	
169	335E 490N:1	28cm	glass, bottle	7	clear, amber green, aqua lip with applied finish
170	330E 500N:1	20cm	brick	1	red
171	330E 500N:1	20cm	glass, window	3	
172	330E 500N:1	20cm	glass, dish	1	clear
173	330E 500N:1	20cm	glass, bottle	3	2 clear, 1 green
174	330E 500N:1	20cm	whiteware, plain	6	
175	330E 500N:1	20cm	ironstone, plain	7	
176	330E 500N:1	20cm	whiteware, transfer print	1	pink
177	330E 500N:1	20cm	whiteware, painted	1	brown
178	330E 500N:1	20cm	white clay pipe stem	1	
179	330E 500N:1	20cm	metal, hinge	1	
180	330E 500N:1	20cm	metal, miscellaneous	1	
181	330E 500N:1	20cm	ceramic, unidentified	1	
182	330E 500N:1	20cm	screw	1	
183	330E 500N:1	20cm	nail, wire drawn	2	
184	330E 500N:1	20cm	nail, cut	7	
185	330E 500N:1	20cm	porcelain, plain	1	
186	330E 500N:1	20cm	porcelain, transfer print	1	purple and green
187	335E 520N:1	26cm	glass, window	20	
188	335E 520N:1	26cm	glass, bottle	11	8 clear, 3 amber
189	335E 520N:1	26cm	whiteware, plain	7	
190	335E 520N:1	26cm	ironstone, plain	5	
191	335E 520N:1	26cm	glass, dish	2	yellow
192	335E 520N:1	26cm	whiteware, banded	1	blue
193	335E 520N:1	26cm	porcelain, plain	4	
194	335E 520N:1	26cm	ceramic, unidentified	3	
195	335E 520N:1	26cm	nail, cut	5	
196	335E 520N:1	26cm	brick	2	red



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
197	335E 520N:1	26cm	ironstone, transfer print	2	blue, green
198	340E 490N:1	28cm	glass, window	16	
199	340E 490N:1	28cm	whiteware, plain	7	
200	340E 490N:1	28cm	glass, bottle	18	16 clear, 2 green
201	340E 490N:1	28cm	glass, white	1	
202	340E 490N:1	28cm	glass, chimney	1	
203	340E 490N:1	28cm	ceramic, unidentified	1	
204	340E 490N:1	28cm	ironstone, moulded	1	
205	340E 490N:1	28cm	ironstone, plain	4	
206	340E 490N:1	28cm	metal, miscellaneous	3	
207	340E 490N:1	28cm	nail, cut	6	
208	340E 490N:1	28cm	brick	7	red
209	335E 500N:5	17cm	glass, window	12	
210	335E 500N:5	17cm	glass, bottle	17	clear, aqua, purple, green, amber
211	335E 500N:5	17cm	whiteware, plain	2	
212	335E 500N:5	17cm	ceramic, unidentified	4	
213	335E 500N:5	17cm	glass, dish	1	clear
214	335E 500N:5	17cm	ironstone, plain	15	
215	335E 500N:5	17cm	whiteware, transfer print	5	2 red, 2 green, 1 blue
216	335E 500N:5	17cm	porcelain, plain	2	
217	335E 500N:5	17cm	nail, cut	8	
218	335E 500N:5	17cm	brick	8	red
219	335E 500N:5	17cm	faunal	1	butchered
220	335E 500N:5	17cm	button, agate	1	
221	335E 500N:5	17cm	nail, wire drawn	1	
222	335E 500N:5	17cm	stoneware	1	
223	340E 500N:5	20cm	glass, window	9	
224	340E 500N:5	20cm	whiteware, stamped	2	black
225	340E 500N:5	20cm	glass, bottle	25	clear, green, amber
226	340E 500N:5	20cm	brick	9	red
227	340E 500N:5	20cm	whiteware, plain	9	
228	340E 500N:5	20cm	ironstone, plain	20	
229	340E 500N:5	20cm	yellowware	3	
230	340E 500N:5	20cm	ironstone, transfer print	1	green
231	340E 500N:5	20cm	metal, miscellaneous	3	



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
232	340E 500N:5	20cm	stoneware	1	
233	340E 500N:5	20cm	glass	2	
234	340E 500N:5	20cm	earthenware, yellow	3	
235	340E 500N:5	20cm	porcelain, plain	6	
236	340E 500N:5	20cm	ceramic, unidentified	4	
237	340E 500N:5	20cm	nail, wire drawn	1	
238	340E 500N:5	20cm	nail, cut	14	
239	340E 480N:1	20cm	chipping detritus	4	
240	340E 480N:1	20cm	ironstone, plain	5	
241	340E 480N:1	20cm	whiteware, plain	8	
242	340E 480N:1	20cm	glass, bottle	10	clear, olive, blue
243	340E 480N:1	20cm	glass, window	3	
244	340E 480N:1	20cm	nail, cut	3	
245	340E 480N:1	20cm	metal, miscellaneous	2	
246	340E 480N:1	20cm	porcelain, plain	1	
247	340E 480N:1	20cm	ceramic, unidentified	2	
248	340E 480N:1	20cm	whiteware, painted	1	red
249	340E 480N:1	20cm	whiteware, transfer print	1	blue
250	340E 480N:1	20cm	whiteware, stamped	1	black
251	330E 520N:1	35cm	glass, window	9	
252	330E 520N:1	35cm	glass, chimney	1	
253	330E 520N:1	35cm	whiteware, plain	3	
254	330E 520N:1	35cm	whiteware, transfer print	1	red
255	330E 520N:1	35cm	porcelain, plain	1	
256	330E 520N:1	35cm	nail, cut	6	
257	330E 520N:1	35cm	glass, bottle	15	clear, amber, olive
258	330E 520N:1	35cm	metal, miscellaneous	1	
259	330E 520N:1	35cm	toy	1	clay marble
260	330E 520N:1	35cm	brick	6	red
261	340E 485N:1	24cm	glass, bottle	14	clear, green, olive
262	340E 485N:1	24cm	ironstone, painted	1	green
263	340E 485N:1	24cm	whiteware, plain	2	
264	340E 485N:1	24cm	ironstone, plain	10	
265	340E 485N:1	24cm	nail, cut	17	
266	340E 485N:1	24cm	white clay pipe stem	1	



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
267	340E 485N:1	24cm	glass, window	16	
268	340E 485N:1	24cm	rockinghamware	1	
269	340E 485N:1	24cm	redware	1	
270	340E 485N:1	24cm	biface	1	Onondaga, tip and midsection
271	335E 480N:1	12cm	ironstone, plain	2	
272	335E 480N:1	12cm	whiteware, plain		1
273	335E 480N:1	12cm	glass, bottle	6	5 clear, 1 green
274	335E 480N:1	12cm	glass, window	1	
275	335E 480N:1	12cm	nail, cut	2	
276	335E 480N:1	12cm	porcelain	2	
277	335E 480N:1	12cm	chipping detritus	4	
278	330E 485N:1	21cm	glass, window	3	
279	330E 485N:1	21cm	glass, bottle	2	olive, clear
280	330E 485N:1	21cm	chipping detritus	1	
281	330E 485N:1	21cm	whiteware, plain	1	
282	330E 485N:1	21cm	nail, cut	6	
283	330E 485N:1	21cm	ironstone, plain	2	
284	330E 485N:1	21cm	brick	1	red
285	330E 485N:1	21cm	mortar	1	
286	335E 485N:1	21cm	glass, bottle	7	purple, green, clear, blue
287	335E 485N:1	21cm	whiteware, plain	4	
288	335E 485N:1	21cm	glass, window	5	
289	335E 485N:1	21cm	nail, cut	9	
290	335E 485N:1	21cm	stoneware	1	
291	335E 485N:1	21cm	whiteware, transfer print	1	green
292	335E 485N:1	21cm	chipping detritus	1	
293	335E 485N:1	21cm	porcelain, semi	1	
294	335E 485N:1	21cm	ironstone, plain	5	
295	330E 490N:1	20cm	glass, bottle	4	
296	330E 490N:1	20cm	glass, window	1	
297	330E 490N:1	20cm	yellowware	1	
298	330E 490N:1	20cm	whiteware, plain	1	
299	330E 490N:1	20cm	ironstone, plain	1	
300	330E 490N:1	20cm	porcelain, plain	2	
301	330E 490N:1	20cm	brick	2	red



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
302	335E 520N:5	22cm	glass, window	25	
303	335E 520N:5	22cm	glass, bottle	12	clear, amber
304	335E 520N:5	22cm	nail, cut	1	
305	335E 520N:5	22cm	whiteware, plain	7	
306	335E 520N:5	22cm	porcelain, plain	2	
307	335E 520N:5	22cm	ceramic, unidentified	2	
308	335E 520N:5	22cm	earthenware, yellow	2	
309	335E 520N:5	22cm	ironstone, plain	13	
310	335E 520N:5	22cm	brick	3	red
311	335E 520N:5	22cm	ironstone, transfer print	1	green
312	335E 520N:5	22cm	ironstone, painted	1	brown
313	330E 520N:1	30cm	glass, window	3	
314	330E 520N:1	30cm	glass, bottle	16	clear, olive, amber, green
315	330E 520N:1	30cm	earthenware, yellow	1	
316	330E 520N:1	30cm	glass, chimney	1	
317	330E 520N:1	30cm	glass, dish	2	clear
318	330E 520N:1	30cm	ironstone, plain	6	
319	330E 520N:1	30cm	whiteware, plain	10	
320	330E 520N:1	30cm	ceramic, unidentified	3	
321	330E 520N:1	30cm	nail, wire drawn	1	
322	330E 520N:1	30cm	nail, cut	4	
323	330E 520N:1	30cm	brick	6	red
324	330E 520N:1	30cm	porcelain, plain	2	
325	330E 520N:1	30cm	porcelain, transfer print	2	floral
326	330E 520N:1	30cm	recent	2	drainage tile, terra cotta flower pot piece
327	340E 490N:5	26cm	glass, window	4	
328	340E 490N:5	26cm	earthenware, red	3	
329	340E 490N:5	26cm	yellowware	1	
330	340E 490N:5	26cm	glass, bottle	14	clear, aqua, green, amber
331	340E 490N:5	26cm	brick	1	red
332	340E 490N:5	26cm	metal, miscellaneous	1	
333	340E 490N:5	26cm	whiteware, plain	14	
334	340E 490N:5	26cm	ironstone, plain	5	
335	340E 490N:5	26cm	button, agate	1	



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
336	340E 490N:5	26cm	white clay pipe bowl	1	
337	340E 490N:5	26cm	porcelain, plain	2	
338	340E 490N:5	26cm	earthenware, yellow	2	
339	340E 490N:5	26cm	ceramic, unidentified	3	
340	340E 490N:5	26cm	nail, cut	26	
341	340E 490N:5	26cm	screw	1	
342	340E 490N:5	26cm	nail, wire drawn	4	

Location 2 (AdHm-66)

Cat.#	Context	Depth	Artifact	Freq.	Comments
23	surface collected	n/a	glass, window	3	>1.6mm
24	surface collected	n/a	glass, bottle	10	7 clear, 1 blue, 1 aqua, 1 amber
25	surface collected	n/a	brick	2	red
26	surface collected	n/a	stoneware	3	
27	surface collected	n/a	whiteware, plain	2	
28a	surface collected	n/a	ironstone, plain	7	1 with partial maker's mark
28b	surface collected	n/a	porcelain, plain	8	
29	surface collected	n/a	porcelain, transfer print	1	green and orange
30	295E 500N:1	42cm	white clay pipe stem	1	
31	295E 500N:1	42cm	ironstone, plain	7	
32	295E 500N:1	42cm	glass, window	1	>1.6mm
33	295E 500N:1	42cm	glass, bottle	2	clear, olive
34	295E 500N:1	42cm	metal, hook	1	
35	295E 550N:3	27cm	recent	1	terra cotta flower pot piece
36	295E 550N:3	27cm	glass, window	1	>1.6mm
37	295E 550N:3	27cm	glass, bottle	1	amber
38	295E 550N:3	27cm	ironstone, plain	1	
39	295E 520N:3	32cm	glass, window	1	>1.6mm
40	295E 520N:3	32cm	glass, bottle	3	3 clear, 1 purple
41	295E 520N:3	32cm	stoneware	1	
42	295E 520N:3	32cm	ironstone, plain	1	
43	295E 520N:3	32cm	earthenware, yellow	2	
44	295E 520N:3	32cm	porcelain, plain	2	



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
45	295E 510N:3	29cm	glass, window	1	>1.6mm
46	295E 510N:3	29cm	glass, bottle	1	clear
47	295E 510N:3	29cm	ironstone, plain	3	
48	295E 515N:1	30cm	ironstone, plain	1	
49	295E 515N:1	30cm	nail, wire drawn	1	
50	295E 515N:1	30cm	glass, bottle	2	clear
51	295E 525N:1	27cm	glass, window	3	>1.6mm
52	295E 525N:1	27cm	glass, bottle	6	
53	295E 525N:1	27cm	metal, miscellaneous	1	
54	295E 525N:1	27cm	nail, wire drawn	1	
55	295E 525N:1	27cm	brick	5	red
56	295E 525N:1	27cm	stoneware	2	
57	295E 525N:1	27cm	ironstone, plain	4	
58	295E 525N:1	27cm	porcelain, plain	1	
59	295E 525N:1	27cm	porcelain, painted	1	brown
60	295E 505N:1	32cm	brick	1	red
61	295E 505N:1	32cm	nail, cut	1	
62	295E 505N:1	32cm	glass, window	3	>1.6mm
63	295E 505N:1	32cm	glass, bottle	3	clear
64	295E 505N:1	32cm	rockinghamware	2	
65	295E 505N:1	32cm	ironstone, plain	2	1 with partial maker's mark
66	295E 545N:1	27cm	brick	4	red
67	295E 545N:1	27cm	glass, window	4	>1.6mm
68	295E 545N:1	27cm	glass, bottle	5	clear
69	295E 545N:1	27cm	glass, white	1	
70	295E 500N:13	43cm	whiteware, transfer print	1	green
71	295E 500N:13	43cm	ironstone, plain	3	
72	295E 500N:13	43cm	porcelain, plain	2	
73	295E 535N:1	32cm	nail, wire drawn	6	
74	295E 535N:1	32cm	glass, bottle	3	clear
75	295E 535N:1	32cm	porcelain, plain	1	
76	295E 535N:1	32cm	glass, bottle	1	blue
77	295E 535N:1	32cm	porcelain, transfer print	1	pink
78	295E 535N:1	32cm	whiteware, plain	2	
79	295E 535N:1	32cm	glass, window	16	>1.6mm



APPENDIX A STAGE 3 ARTIFACT CATALOGUE

Cat.#	Context	Depth	Artifact	Freq.	Comments
80	295E 540N:3	35cm	porcelain, plain	1	
81	295E 540N:3	35cm	whiteware, plain	1	
82	295E 540N:3	35cm	glass, window	3	>1.6mm
83	295E 540N:3	35cm	glass, bottle	4	clear
84	295E 540N:3	35cm	ironstone, plain	4	
85	295E 540N:3	35cm	brick	2	red
86	295E 540N:3	35cm	nail, wire drawn	6	
87	295E 540N:3	35cm	screw	1	
88	295E 540N:3	35cm	metal, miscellaneous	1	
89	295E 555N:1	27cm	screw	1	
90	295E 555N:1	27cm	glass, window	1	>1.6mm
91	295E 555N:1	27cm	glass, bottle	3	clear
92	295E 555N:1	27cm	metal, clamp	1	
93	295E 530N:3	33cm	porcelain, plain	2	
94	295E 530N:3	33cm	rockinghamware	1	
95	295E 530N:3	33cm	ironstone, transfer print	1	green
96	295E 530N:3	33cm	glass, window	2	>1.6mm
97	295E 530N:3	33cm	ironstone, plain	3	
98	295E 530N:3	33cm	brick	1	red
99	295E 530N:3	33cm	nail, wire drawn	1	
100	295E 530N:3	33cm	glass, bottle	5	4 clear, 1 amber

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