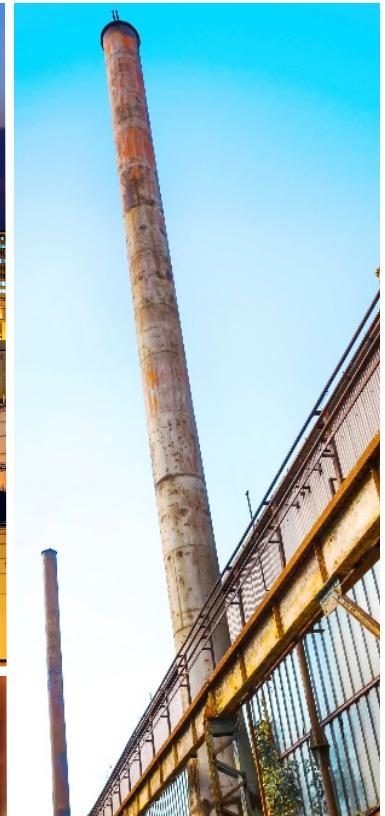




Phase One Environmental Site Assessment

Proposed Commercial Expansion
40 Elgin Park Drive
Uxbridge, Ontario

Prepared For:
Wooden Sticks Golf Club





Executive Summary

A Phase One Environmental Site Assessment (ESA) was completed by GHD Limited (GHD) for Wooden Sticks Golf Club (referred to as “the Client”) for a portion of the lands identified at the municipal address of 40 Elgin Park Drive in Uxbridge, Ontario (referred to as “the Property”). The Property is an approximate 2.0 hectare (4.9 acre) area which is associated with a commercial development expansion for the Wooden Sticks Golf Club. This report includes the area associated with the proposed expansion only and does not include an assessment of the entire golf course parcel. It is GHD’s understanding that the expansion is to include a 5-storey hotel building constructed immediately to the west of the existing clubhouse and the extension of existing parking lot areas to the west. The Property is privately serviced with a drinking water well and septic systems. Based on information compiled, the Property was developed in 1997 for commercial use as a golf course. The clubhouse was constructed by 2000. Prior use was agricultural.

The Phase One ESA has been prepared to provide the Client with a professional opinion of the potential for materially significant environmental liabilities.

The Phase One ESA was prepared under the supervision of a Qualified Person, as defined by the Environmental Protection Act, using Ontario Regulation (O. Reg.) 153/04 (as periodically amended), Schedule D for Phase One Environmental Site Assessments under Part XV.1 of the Act.

Based upon observations made during the site reconnaissance including the surrounding land uses and review of the historical documentation, there were no potentially contaminating activities or areas of potential environmental concern (APECs) identified on the Property or within the Phase One Study Area (i.e. within 250 m).

It is GHD’s opinion that the Property is of relatively low environmental risk and is suitable for the proposed commercial expansion. No further environmental investigation is warranted at this time.



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1. Introduction

1.1 Phase One Property Information

A Phase One Environmental Site Assessment (ESA) was completed by GHD Limited (GHD) for Wooden Sticks Golf Club (referred to as “the Client”) for a portion of the lands identified at the municipal address of 40 Elgin Park Drive in Uxbridge, Ontario (referred to as “the Property”). The Property is an approximate 2.0 hectare (4.9 acre) area which is associated with a commercial development expansion for the Wooden Sticks Golf Club. This report includes the area associated with the proposed expansion only and does not include an assessment of the entire larger parcel. It is GHD’s understanding that the expansion is to include a 5-storey hotel building constructed immediately to the west of the existing clubhouse and the extension of existing parking lot areas to the west. The Property is privately serviced with a drinking water well and septic systems. Based on information compiled, the Property was developed in 1997 for commercial use as a golf course. The clubhouse was constructed by 2000. Prior use was agricultural.

The location is illustrated on the Vicinity Plan, Figure 1. A more detailed depiction of the Property with respect to surrounding roads and watercourses is illustrated on the Property Plan, Figure 2. The Plot Plan is presented on Figure 3 using a recent Ministry of Natural Resources and Forestry (MNR) aerial photograph. The Phase One Conceptual Site Model (CSM) showing the Property and Phase One Study Area (surrounding lands within 250 m) and potentially contaminating activities (PCAs) is provided as Figure 4. A CSM further illustrating Property conditions is provided as Figure 5. The Property, PCAs, and surrounding areas are discussed in detail in the following sections of this report.

The Phase One ESA has been prepared to provide the Client with a professional opinion of the potential for materially significant environmental liabilities.

2. Scope of Investigation

The Phase One ESA was supervised by a Qualified Person, as defined by the Environmental Protection Act, using Ontario Regulation (O. Reg.) 153/04 (as periodically amended), Schedule D for Phase One Environmental Site Assessments under Part XV.1 of the Act.

The purpose of the Phase One ESA was to identify and document the current and historical conditions that indicate if further investigation may be necessary to evaluate the potential environmental liabilities. To achieve the purpose, the scope of work for this ESA included the following elements.

1. Compiled and reviewed available background information relating to past land use. Sources of information included mapping, plans, reports, aerial photography and land registry records.
2. Reviewed information available through the EcoLog Environmental Risk Information Service (ERIS). An ERIS report provides information associated with the Property through a comprehensive search of federal, provincial and private source data.



3. Carried out an inventory request of the Ministry of the Environment, Conservation and Parks (MECP) and Technical Standards and Safety Authority (TSSA) files to search for prior reported issues on the Property including incidents such as spills.
4. Conducted a walkover inspection to evaluate ground surface features and nearby land use.
5. Conducted an interview with the Client / General Manager and Managing Partner of Wooden Sticks Golf Club.
6. Analyzed data obtained from the investigation and presented the findings in this written report with appropriate conclusions and recommendations. The conclusions presented in this report are professional opinions based on the data described herein.

3. Records Review

3.1 General

A historical records review was completed of readily available records which included a request of the following:

- ERIS report;
- Freedom of Information (FOI) request submitted to the MECP;
- TSSA database;
- Fire Insurance Plans (FIPs);
- Historical aerial photography;
- Chain of Title search based on the legal description; and
- Other environmental and historical reports.

The historical records reviewed are provided in Appendix A.

3.1.1 Phase One Study Area Determination

The requirements for the Phase One Study, under O. Reg. 153/04, are to obtain and review records to evaluate potential environmental issues that may exist and to interpret any PCAs that may result in APECs. Lands within 250 m (i.e. the Phase One Study Area), as shown on the CSM, Figure 4, were reviewed and evaluated. In our opinion, no PCAs were identified greater than 250 m that should be included in the CSM or warrant additional environmental evaluation. Downgradient is generally inferred to be to the west towards low-lying wetland areas. The adjacent land use surrounding the Property at the time of the site reconnaissance is described as:

Upgradient: Golf course driving range;

Downgradient: New residential construction and wetland areas; and,

Cross-gradient: Golf course, Elgin Park Drive and residential development.



3.1.2 First Developed Use Determination

Based on information compiled, the Property was developed in 1997 to support the Wooden Sticks Golf Club. The clubhouse was constructed by 2000. Prior use was agricultural.

3.1.3 Chain of Title

The following information was obtained the Ontario Land Registry. The Property is part of a larger parcel, which supports the Wooden Sticks Golf Club. The lands are geographically denoted as PT LT 27 CON 6 (UXBRIDGE), PT 5 ON 40R17204 EXCEPT PTS 11 & 12 ON 40R20447; T/W PT LT 27 CON 6, PT 1 ON 40R16344 AS IN LT753990; T/W PT LTS 27 & 28 CON 6, PTS 2, 3, 4, 5 & 6 ON 40R16344 AS IN D470216; UXBRIDGE, REGIONAL MUNICIPALITY OF DURHAM, with the Property Identification Number (PIN) 26838-0348 (LT). The lands have been owned by Wooden Sticks Golf Inc. since July 1997. Ownership of the land is provided in Table 3.1:

Table 3.1: Chain of Title – (PIN# 26838-0348)

Owner	Years of Ownership
Wooden Sticks Golf Inc.	July 1997 – Present
763725 Ontario Limited	1988 – July 1997
Seaton Development Ltd.	1987 – 1988
Arthur & Nadine Deacon	1983 – 1987
Arthur Deacon	1964 – 1983
John McTavish	1959 – 1964
James Lithgow	1957 – 1959
Bertha & Harley Douglas	1952 – 1957
Hutchinson Armstrong	1918 – 1952
John Berardi	1875 – 1918

3.1.4 Zoning

According to information available from the Township of Uxbridge Zoning By-Law 81-19, the Property is zoned as Open Space (OS-11). Surrounding lots are zoned as Rural (RU), Environmental Protection (EP) and Residential (R1) and Recreational (RE). Zoning should be verified with the Township of Uxbridge.

3.1.5 Environmental Reports

There were no previous environmental reports available to GHD for review.

3.2 Environmental Source Information

Inquiries were made to obtain a number of documents regarding environmental information including information provided by maps, regulatory agencies (MECP, TSSA, etc.), local agencies (municipal data, local library etc.) and environmental search information on file. The review of these documents is discussed in the following subsections.



3.2.1 Mapping

Mapping and figures are presented within the Enclosures of this report. The location is presented on the National Topographic System Mapping from Centre for Topographic Information, Natural Resources Canada Map 31 D/03, Vicinity Plan, Figure 1. The location with respect to adjacent roadways and surrounding land uses is presented on the Ministry of Natural Resources and Forestry (MNR) map and is shown on the Property Plan, Figure 2. The Plot Plan, Figure 3 illustrates the Site and surrounding area using a recent aerial photograph. The surrounding area can be identified as residential and commercial. The Phase One CSM – Study Area, Figure 4 illustrates the Study Area (lands within 250 m) and identifies any PCAs in this general area. The Phase one CSM – Property is presented as Figure 5 and further illustrates conditions at the Property.

3.2.2 Ontario Ministry of Environment, Conservation and Parks

A request was made under the Freedom of Information and Protection of Privacy Act (FOIPPA) in regard to potential environmental concerns. A response letter has not been received at the time of writing this report. Any pertinent information related to the requested documents will be forwarded upon receipt.

3.2.3 Technical Standards and Safety Authority

A search request was made to the TSSA in regards to potential environmental concerns. A response letter has not been received at the time of writing this report. Any pertinent information related to the requested documents will be forwarded upon receipt.

3.2.4 Fire Insurance Plans

There are no Fire Insurance Plans of this area.

3.2.5 EcoLog Environmental Risk Information System

Ecolog ERIS Ltd. was contacted to request an ERIS report for the Property and Phase One Study Area. The ERIS report is based on a number of databases including, but not limited to, the National PCB Inventory, National Pollutant Release Inventory, Occurrence Reporting Information System, Retail Fuel Storage Tanks, Private Fuel Storage Tanks, Waste Disposal Sites Inventory and Certificates of Approval. The ERIS report is included in Appendix A. The ERIS report documents four (4) records for the Property and an additional three (3) records within the Phase One Study Area (250 m). The following is a summary of records listed for the Property:

- One (1) Certificate of Approval record;
- One (1) Environmental Compliance Approval record; and,
- Two (2) Permit to Take Water records.

The following sub-sections provide a brief summary of the records obtained for the Property:



i) Certificates of Approval (1985 – October 30, 2011): This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. The record is listed to the Property for the approval of municipal and private sewage works in 2009. Based on the information, there are no environmental concerns.

ii) Environmental Compliance Approval (October 31, 2011 – December 31, 2020): ECAs came into effect on October 31, 2011 to register companies or applies for a single approval, depending on the types of activities it conducts. Business whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. The database will also include Renewable Energy Approvals. The ECA record is listed to the Property for the approval of municipal and private sewage works in 2009. Based on the information, there are no environmental concerns.

iii) Permit to Take Water (1994 – January 31, 2020): This is a subset taken from Ontario's Environmental Registry (EBR) database. The records list two (2) permits to take water for the Property dated 2006. Based on the information, there are no environmental concerns.

The following is a summary of records listed for the Phase One Study Area:

- One (1) Pipeline Incident record; and,
- Two (2) Ontario Spills records.

The spill records and pipeline incident record are listed to a natural gas release at 64 Joseph Street in 2019. Based on the information, there are no environmental concerns.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Digital aerial photographs were obtained and reviewed from the National Air Photo Library for the years of 1927, 1960, 1981 and 1995. Recent images from Google Earth were obtained for 2005 and 2019. The photographs are included as Appendix B.

The 1927 photograph shows the Property as a vacant, agricultural field. No structures are observed. Surrounding lands are agricultural fields and treed areas. Little significant observable change is observed in the 1960, 1981 and 1995 photographs.

The 2005 and 2019 Google Earth images show the Property and surrounding land as generally observed during the site reconnaissance. Elgin Park Drive has been constructed. The Property supports asphalt parking areas and a clubhouse for the Wooden Sticks golf course. Residential development is observed to the north. There were no PCAs identified from the aerial photographs.



3.3.2 Topography, Hydrogeology, & Geology

Topography: As depicted on the figures provided and observed during the site reconnaissance, the topography in the area slopes towards local low-lying areas. The Property is situated at the crest of a hill. Slopes are observed along Elgin Park Drive both to the east and to the west.

Hydrogeology: Based on regional topographic relief, it is inferred that local groundwater flow direction is towards the low-lying wetland areas.

Hydrology: Surface water will flow in accordance with local topography. Excess surface water from the Property will generally flow towards a storm water catch basin in the parking lot area, which is discharged to drainage ditches along Elgin Park Drive.

Geology: The Property is situated within the physiographic region known as the Oak Ridges Moraine (Chapman and Putnam, 1984). The Oak Ridges Moraine is generally hilly, with a knob-and-basin relief typical of an end moraine. Overburden consists of a calcareous sandy till, with some deposits of gravel.

3.3.3 Fill Materials

There were no signs of deleterious fill materials observed during the site reconnaissance.

3.3.4 Water Bodies and Areas of Natural Significance

Provincially significant wetlands are identified within the Phase One Study Area to the west. The wetlands are identified as an area of natural significance under O.Reg. 153/04. There were no other water bodies or areas of natural significance identified.

3.3.5 Well Records

The Property is privately serviced with a drinking water well. If private water wells or monitoring wells are encountered and are required to be decommissioned, they should be abandoned in accordance with Ontario Regulation 903.

3.4 Site Operations Records

The Property has historically been used for agricultural and commercial purposes. Site operations records were not reviewed.

4. Interview

GHD discussed the Property with Mr. Greg Seemann on March 18, 2021. Mr. Seemann is the General Manager and Managing Partner of Wooden Sticks Golf Club. The golf course was constructed in 1997 and opened in 1999. The clubhouse was constructed by August 2000. The clubhouse was converted from propane heat to natural gas heat in 2005. Mr. Seemann indicated that there were no tanks present on the Property. Natural gas will be used for the 5-storey hotel addition to be constructed immediately west of the existing clubhouse. There is no pesticide use in the development area. He was not aware of any environmental concerns associated with the Property or surrounding lands. Based on the interview, no PCAs are identified.



5. Site Reconnaissance

5.1 General Requirements

In accordance with the Regulation, a site reconnaissance was completed of the Site. Adjacent and surrounding sites were also observed from public access ways. The site reconnaissance was conducted on March 18, 2021 by GHD. Photographs are provided in Appendix C and document the Property and surrounding area. The assessor qualifications are provided in Appendix D.

5.2 Specific Observations at the Phase One Property

The following section provides a summary of the specific observations recorded by GHD. The Property is of irregular shape and is associated with areas of future development at 40 Elgin Park Road. Development is to include the expansion of the existing parking lot to the west, and the addition of a 5-storey hotel building. The Property is bordered by Elgin Park Drive, the larger parcel of Wooden Sticks Golf Club and newer residential construction. Topography from the Property slopes towards the west towards low-lying wetland areas. Access to the Property is from Elgin Park Drive.

The Property supports a clubhouse and outbuilding for the Wooden Sticks golf course. The clubhouse contains offices, a pro shop and restaurant and is heated with natural gas. The building is serviced for drinking water from a well located to the south of the building (shown on Figure 5). The outbuilding is used for events and is not heated. Other areas of the Property support parking lots, treed areas and low-lying grassed areas.

There were no aboveground storage tanks (ASTs) or indications of underground storage tanks (USTs) observed (i.e. vent or fill pipes). There were no signs of deleterious fill material, landfilling, spills or other environmental concerns observed. The surrounding area was observed to support the Wooden Sticks golf course and residential development. There were no environmental concerns identified with surrounding lands.

5.3 Enhanced Investigation Property

A Property is considered to be an Enhanced Investigation if the Property is used, or has ever been used, in whole or in part for an industrial use or for any of the following commercial uses: (i) as a garage; (ii) as a bulk liquid dispensing facility, including a gasoline outlet; or (iii) for the operation of dry cleaning equipment. Based on the historical information obtained for the Phase One ESA, this Property is not considered an enhanced investigation property.

5.4 Written Description of Investigation

The site reconnaissance included an inspection to confirm the current conditions and identify any current land uses which may have or may cause actual and/or potential environmental impacts. Adjoining and neighbouring sites were observed from public access ways.



6. Review and Evaluation of Information

6.1 Current and Past Uses

Based upon the information obtained through the records review and the site reconnaissance, the Property has historically been used for agricultural and commercial purposes. Currently, the Property supports a commercial golf course. In accordance with the Regulation, a table of current and past uses of the Property is required. Based on the information provided and reviewed, the following table is presented:

Table 6.1: Current and Past Uses

Year	Name of Owner	Description of Property Use	Property Use ¹	Other Observations from Aerial Photos, FIPs, etc.
July 1997 – Present	Wooden Sticks Golf Inc.	Wooden Sticks Golf Course	Commercial use	Land registry confirmed the current owner. Site reconnaissance confirmed site layout and surrounding land use. Aerial photographs from 2005 and 2019 confirm development. No on-site PCAs or APECs identified.
1875 – July 1997	Various owners (refer to Tables 3.1 & 3.2)	Agricultural land	Agricultural or other use	Land registry confirmed former owners. Aerial photographs 1927, 1960, 1981 and 1995 confirm Property is undeveloped.

Notes: Dates and uses are estimated based on information obtained and reviewed.

(1) – the following types of property uses were considered: Agriculture or other; Commercial; Community; Industrial; Institutional; Parkland; and, Residential use.

6.2 Potentially Contaminating Activities

The MECP provides a list of PCAs in Schedule D of O. Reg. 153 (as amended by O. Reg. 511/09, O. Reg. 245/10 and O. Reg. 179/11). Based on the site reconnaissance, interview and information reviewed, there were no PCAs identified.

6.3 Areas of Potential Environmental Concern

There are no APECs identified on the Property at this time.

6.4 Phase One Conceptual Site Model

The Phase One Conceptual Site Models are provided as Figures 4 and 5 within the Enclosures section. The CSM provides a basic overview, approximate locations of corridors, basic geological and hydrogeological information and any other pertinent data that may affect the Phase One ESA of Schedule D of the Regulation. The CSM is required to contain figures, narrative descriptions and assessments as per Subsection 16(7) of Table 1 of Schedule D (Sub-Heading (iv) in Report Section 7 of the Regulation). The following table and narrative is provided in accordance with O. Reg. 153 (as amended).



Table 6.2: Phase One Conceptual Site Model

Provide one or more figures of the Phase One Study area that,	i) Show any existing buildings and structures	The existing structures are shown on the CSM-Property, Figure 5.
	ii) Identify and locate water bodies located in whole or in part on the Phase One Study Area	Wetlands within the Phase One Study Area contain small tributaries as shown on the Property Plan, Figure 2.
	iii) Identify and locate any areas of natural significance located in or in part on the Phase One Study Area	Provincially Significant Wetlands within the Phase One Study Area are identified as areas of natural significance and are shown on the Property Plan, Figure 2.
	iv) Locate any drinking water wells at the Phase One Property	The location of the drinking water well is shown on the CSM – Property, Figure 5.
	v) Show roads, including names within the Phase One Study Area	Roads with names are provided on Figure 2.
	vi) Show uses of properties adjacent to the Phase One Property	Adjacent site uses are shown on Figure 3. The surrounding area is generally residential and commercial.
	vii) Identify and locate where any potentially contaminating activity has occurred, and show tanks in such areas, and	There were no PCAs identified on the Property or within the Phase One Study Area.
	viii) Identify and locate any APECs	There were no APECs identified.
Provide a description and assessment of,	i) Any areas where PCA on or potentially affecting the Phase One Property has occurred	It is GHD's opinion that there are no PCAs.
	ii) Any contaminants of potential concern	There were no contaminants of concern identified.
	iii) The potential for underground utilities, if any present, to affect distribution and transport	Underground utilities are not a concern as there are no contaminants of concern.
	iv) Available regional or site specific geological and hydrogeological information, and	The Property is situated within the Oak Ridges Moraine physiographic region and the overburden is comprised of calcareous sandy till with some deposits of gravel. Groundwater is generally expected to conform to local topography and flow towards low-lying wetland areas.
	v) How any uncertainty or absence of information obtained in each of the components of the Phase One ESA could affect the validity of the model.	It is GHD's opinion that the degree of uncertainty is limited and the CSM is valid.

It is GHD's opinion that the Property is of relatively low environmental risk and is suitable for the proposed commercial development. No further environmental investigation is warranted at this time.



7. Conclusions and Recommendations

7.1 Phase Two Environmental Site Assessment Required?

The Phase One ESA represents a "snapshot" in time. GHD cannot guarantee the reliability of information provided by others. However, whenever possible, verification of authenticity was attempted. In conclusion, it is GHD's opinion that a Phase Two ESA is not required.

7.2 Phase One Environmental Site Assessment Alone

It is GHD's opinion that only a Phase One ESA is required to provide our professional opinion.

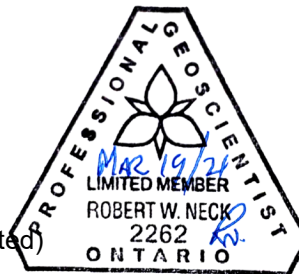
7.3 Signatures

The following signatures are provided of GHD staff that prepared and conducted the Phase One ESA. Mr. Nyle McIlveen, a Qualified Person within the meaning of the Environmental Protection Act and associated Regulation 153/04, has provided his opinion based on the information provided in this report. Following the References section of this report is the Statement of Limitations. These limitations are an integral part of this report. Should questions arise regarding any aspect of our report, please contact the undersigned or our office.

Sincerely,

GHD

Robert Neck, M.Eng., P.Geo. (Limited)



Nyle McIlveen, P.Eng.

EW/bn/nmc/01





8. References

Canadian Standards Association (CSA) Z768-01, "Phase I Environmental Site Assessment", reaffirmed 2012.

Chapman and Putnam, 1966. The Physiography of Southern Ontario, 2nd Edition. University of Toronto Press.

Chapman and Putnam, 1984. The Physiography of Southern Ontario, 3rd Edition. Ministry of Natural Resources.

Environmental Protection Act, R.S.O. 1990, and associated regulations.

Occupational Health and Safety Act, R.S.O. 1990, and associated regulations.

Ontario Ministry of the Environment, 2011. Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act (Environmental Protection Act 153/04, as amended).



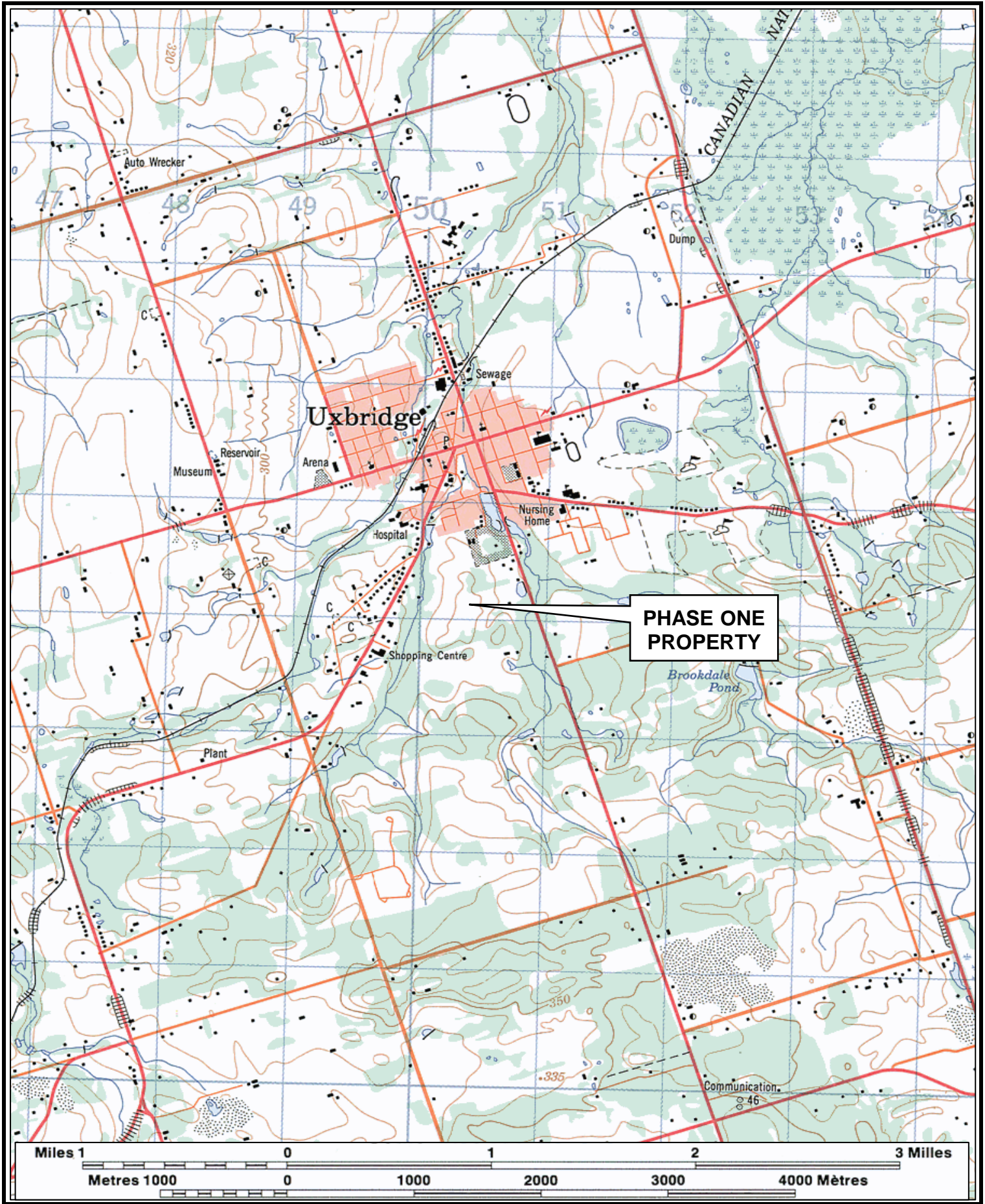
9. Statement of Limitations

This report is intended solely for Wooden Sticks Golf Club in assessing the environmental concerns of lands associated with proposed development at 40 Elgin Park Drive in Uxbridge, Ontario and is prohibited for use by others without GHD's prior written consent. This report is considered GHD's professional work product and shall remain the sole property of GHD. Any unauthorized reuse, redistribution of or reliance on the report shall be at the Client and recipient's sole risk, without liability to GHD. Client shall defend, indemnify and hold GHD harmless from any liability arising from or related to Client's unauthorized distribution of the report. No portion of this report may be used as a separate entity; it is to be read in its entirety and shall include all supporting drawings and appendices.

The conclusions and recommendations made in this report are in accordance with our present understanding of the project, the current site use, surface and subsurface conditions, and are based on available information, a site reconnaissance on the date set out in the report, records review and interviews (as applicable) with appropriate people and the work scope approved by the Client and described in the report and should not be construed as a legal opinion. Therefore, our liability is limited to interpreting accurately the information made available to us and assessing the property information investigated during this Phase One ESA. The services were performed in a manner consistent with that level of care and skill ordinarily exercised by members of environmental engineering professions currently practicing under similar conditions in the same locality. No other representations, and no warranties or representations of any kind, either expressed or implied, are made. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties.

If conditions at the Property change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Enclosures



Base map compiled from Energy, Mines and Resources Canada Map 31 F/14 published 1996. Information current as of 1994.

Scale:
1:50000
Coordinate System
NAD 1983 UTM
Zone 17

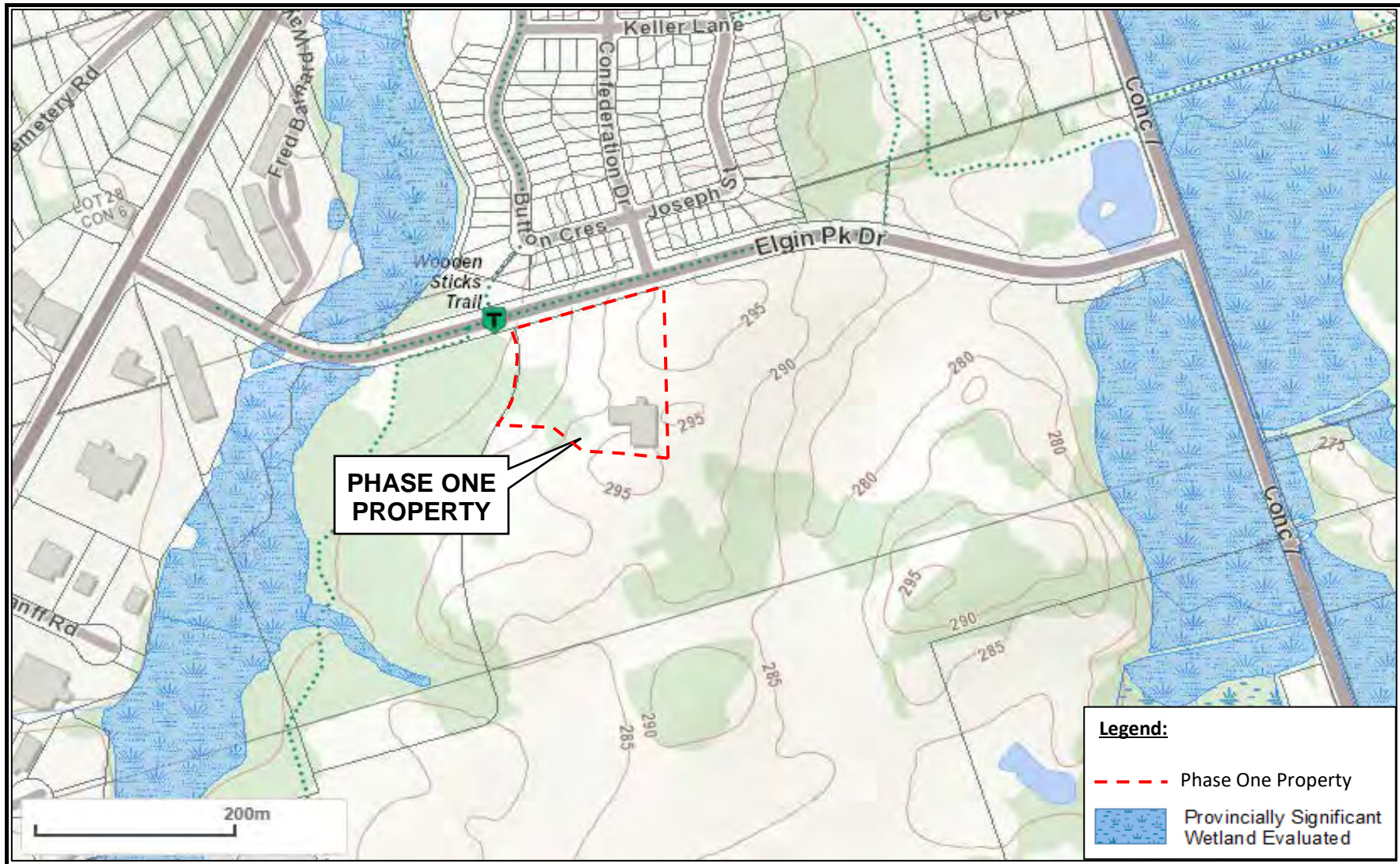


Wooden Sticks Golf Club
40 Elgin Park Drive, Uxbridge, ON
Phase One ESA

11225419-01
March 2021

Vicinity Plan

FIGURE 1



Source: Ministry of Natural Resources and Forestry. © Queen's Printer for Ontario, 2019.

Scale:
Refer to Scale Bar
Coordinate System:
NAD 1983 UTM Zone 17



Wooden Sticks Golf Club
40 Elgin Park Drive, Uxbridge, ON
Phase One ESA

11225419-01
March 2021

Property Plan

FIGURE 2



Source: Ministry of Natural Resources and Forestry. © Queen's Printer for Ontario, 2019.

Scale:
Refer to Scale Bar
Coordinate System:
NAD 1983 UTM Zone 17



Wooden Sticks Golf Club
40 Elgin Park Drive, Uxbridge, ON
Phase One ESA

11225419-01
March 2021

Plot Plan

FIGURE 3



Source: Ministry of Natural Resources and Forestry. © Queen's Printer for Ontario, 2018.

Scale:
Refer to Scale Bar
Coordinate System:
NAD 1983 UTM Zone 17



Wooden Sticks Golf Club
40 Elgin Park Drive, Uxbridge, ON
Phase One ESA

11225419-01
March 2021

CSM - Study Area

FIGURE 4



Source: Google Earth, Imagery Date 5/6/2018

Scale:
 Refer to Scale Bar
 Coordinate System:
 NAD 1983 UTM Zone 17



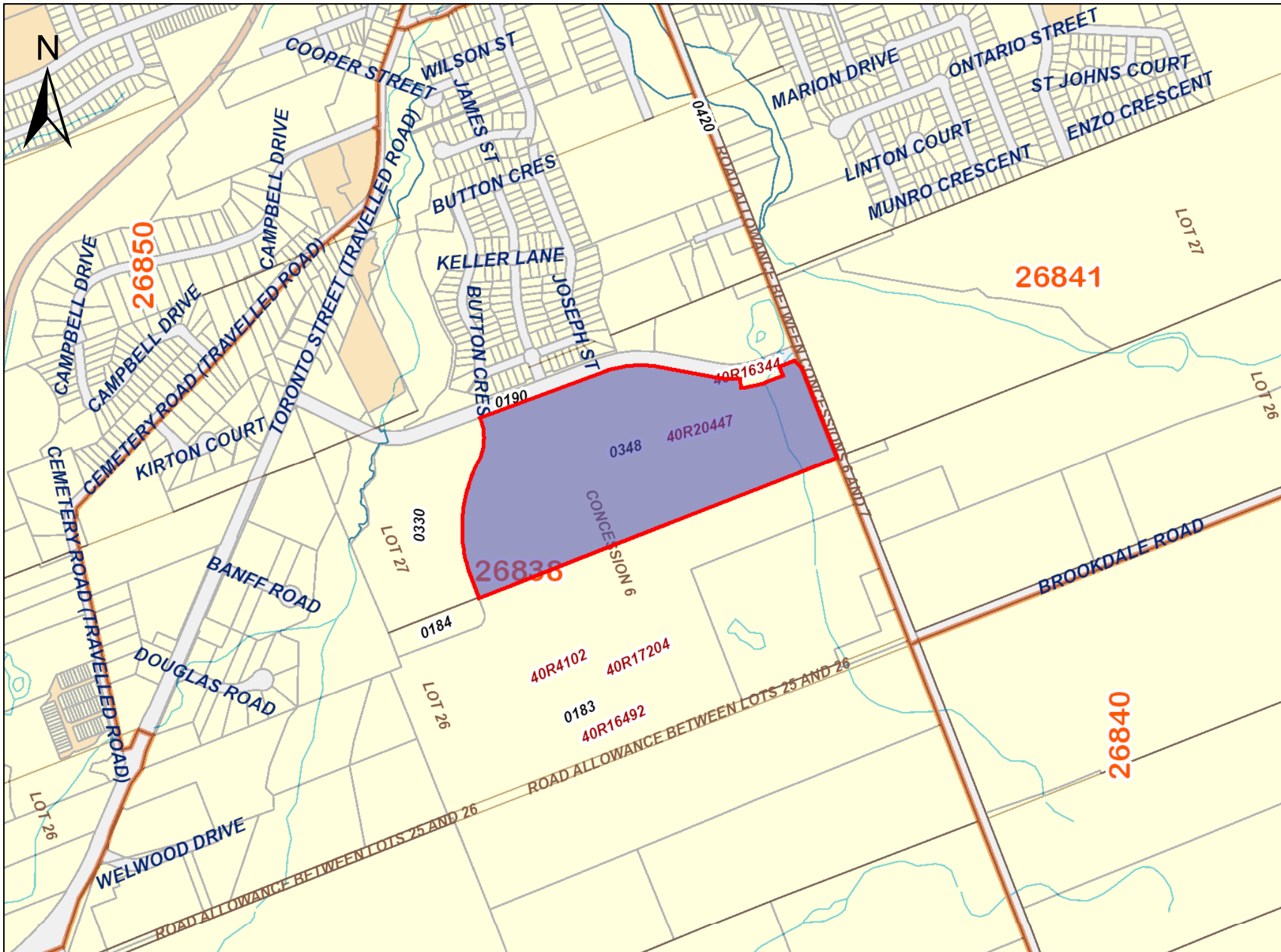
Wooden Sticks Golf Club
 40 Elgin Park Drive, Uxbridge, ON
 Phase One ESA

11225419-01
 March 2021

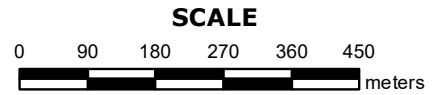
CSM - Property

FIGURE 5

Appendix A Records Review



PRINTED ON 15 MAR, 2021 AT 09:40:39
FOR GHD



PROPERTY INDEX MAP
DURHAM(No. 40)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



LAND
REGISTRY
OFFICE #40

26838-0348 (LT)

PAGE 1 OF 3
PREPARED FOR GHD
ON 2021/03/15 AT 09:45:26

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PT LT 27 CON 6 (UXBRIDGE), PT 5 ON 40R17204 EXCEPT PTS 11 & 12 ON 40R20447; T/W PT LT 27 CON 6, PT 1 ON 40R16344 AS IN LT753990; T/W PT LTS 27 & 28 CON 6, PTS 2, 3, 4, 5 & 6 ON 40R16344 AS IN D470216; UXBRIDGE, REGIONAL MUNICIPALITY OF DURHAM

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
ABSOLUTE

RECENTLY:

DIVISION FROM 26838-0188

PIN CREATION DATE:

2002/12/19

OWNERS' NAMES

WOODEN STICKS GOLF INC.

CAPACITY SHARE

NC

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2002/12/19 **						
LT740078	1995/11/30	NOTICE AGREEMENT			THE CORPORATION OF THE TOWNSHIP OF UXBRIDGE	C
40R17204	1996/11/07	PLAN REFERENCE				C
LT815023	1997/07/30	TRANSFER	\$2,500,000		WOODEN STICKS GOLF INC. 1217097 ONTARIO LTD.	C
LT868486	1998/09/09	CHARGE	\$4,300,000		ROYNAT INC.	C
LT868487	1998/09/09	NOTICE				C
		REMARKS: ASSIGNMENT OF RENTS, LT868486				
LT912982	1999/08/05	CHARGE		*** DELETED AGAINST THIS PROPERTY ***		
		REMARKS: DOCUMENT WAS DELETED ON 13-NOV-2018 BY KAREN DOUCET				
LT928010	1999/10/29	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY ***		
		REMARKS: D538379, LT912982 & D522160, D522161, LT868486, LT868487				
LT936867	1999/12/22	NOTICE AGREEMENT		WOODEN STICKS GOLF INC.	THE CORPORATION OF THE TOWNSHIP OF UXBRIDGE	C
LT936868	1999/12/22	POSTPONEMENT		ROYNAT INC.	WOODEN STICKS GOLF INC. THE CORPORATION OF THE TOWNSHIP OF UXBRIDGE	C
		REMARKS: LT868486 AND D522160 TO LT936867				
LT936869	1999/12/22	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY ***		
		REMARKS: LT912982 AND D538379 TO LT936867				
LT938658	2000/01/11	NOTICE AGREEMENT		WOODEN STICKS GOLF INC.	ROYNAT INC.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
REGISTRY
OFFICE #40

26838-0348 (LT)

PREPARED FOR GHD
ON 2021/03/15 AT 09:45:26

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
				121097 ONTARIO LTD.		
LT938659	2000/01/11	POSTPONEMENT		REMARKS: D522160 AND LT868486 *** DELETED AGAINST THIS PROPERTY *** MAXIUM FINANCIAL SERVICES INC.	ROYNAT INC.	
LT939630	2000/01/19	APL (GENERAL)		REMARKS: LT868486 & LT868487; D522160 & D522161 TO LT912982 & D538379. *** COMPLETELY DELETED *** WOODEN STICKS GOLF INC.	THE CORPORATION OF THE TOWNSHIP OF UXBRIDGE	
40R20447	2001/05/11	PLAN REFERENCE		REMARKS: LT840933 DELETE 2004 06 02 BY S. SMITH		C
DR24102	2001/09/26	CHARGE		*** DELETED AGAINST THIS PROPERTY *** WOODEN STICKS GOLF INC. 1217097 ONTARIO LTD.	MAXIUM FINANCIAL SERVICES INC.	
				REMARKS: DELETED BY DR856048 BY C. CHAPMAN ON 2018/11/08.		
DR308099	2004/08/13	CHARGE	\$700,000	WOODEN STICKS GOLF INC. 1217097 ONTARIO LTD.	ROYNAT INC.	C
DR308107	2004/08/13	NO ASSGN RENT GEN		WOODEN STICKS GOLF INC. 1217097 ONTARIO LTD.	ROYNAT INC.	C
				REMARKS: DR308099		
DR308139	2004/08/13	POSTPONEMENT		*** COMPLETELY DELETED *** MAXIUM FINANCIAL SERVICES INC.	ROYNAT INC.	
				REMARKS: LT912982 TO DR308099 AND DR308107		
DR315422	2004/09/01	NOTICE	\$2	THE CORPORATION OF THE TOWNSHIP OF UXBRIDGE	WOODEN STICKS GOLF INC.	C
DR376755	2005/04/04	CHARGE	\$250,000	WOODEN STICKS GOLF INC. 1217097 ONTARIO LTD.	ROYNAT INC.	C
				REMARKS: DR376755		
DR376771	2005/04/04	NO ASSGN RENT GEN		WOODEN STICKS GOLF INC. 1217097 ONTARIO LTD.	ROYNAT INC.	C
DR377878	2005/04/08	POSTPONEMENT		*** COMPLETELY DELETED *** MAXIUM FINANCIAL SERVICES INC.	ROYNAT INC.	
				REMARKS: LT912982 TO DR376755		
DR845229	2009/10/02	NOTICE		THE CORPORATION OF THE TOWNSHIP OF UXBRIDGE	WOODEN STICKS GOLF INC.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

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LAND
 REGISTRY
 OFFICE #40

26838-0348 (LT)

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

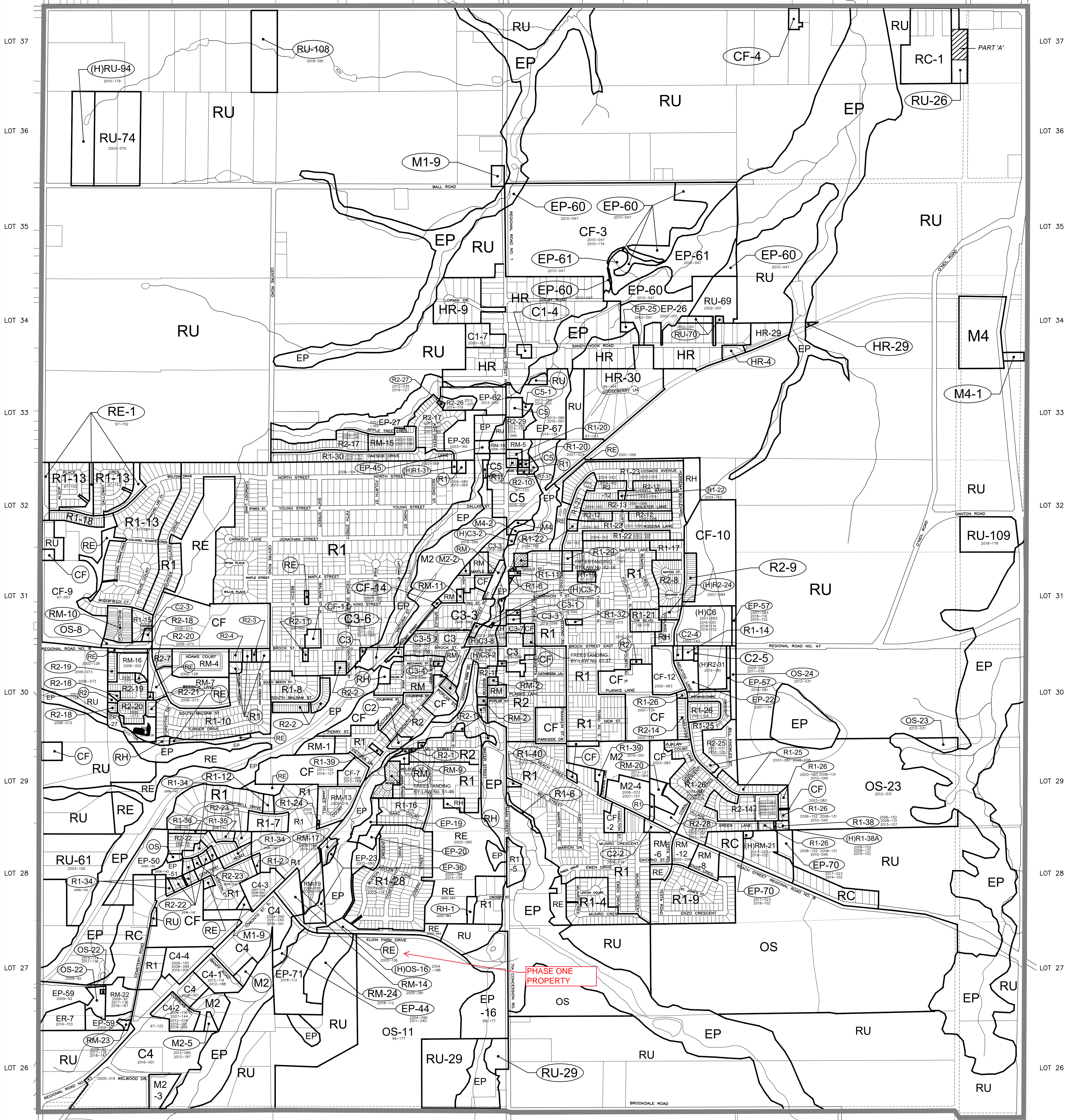
REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
					ROYNAT INC. MAXIUM FINANCIAL SERVICES INC.	
	<i>REMARKS: LT936867</i>					
DR856046	2009/11/17	DISCH OF CHARGE		*** COMPLETELY DELETED *** MAXIUM FINANCIAL SERVICES INC.		
	<i>REMARKS: LT912982.</i>					
DR856048	2009/11/17	DISCH OF CHARGE		*** COMPLETELY DELETED *** MAXIUM FINANCIAL SERVICES INC.		
	<i>REMARKS: DR24102.</i>					
DR858763	2009/11/27	CHARGE	\$1,115,000	WOODEN STICKS GOLF INC. 1217097 ONTARIO LTD.	ROYNAT INC.	C
DR858777	2009/11/27	NO ASSGN RENT GEN		WOODEN STICKS GOLF INC. 1217097 ONTARIO LTD.	ROYNAT INC.	C
	<i>REMARKS: DR858763</i>					
DR1551710	2016/12/21	NO SEC INTEREST	\$1	COINAMATIC COMMERCIAL LAUNDRY INC.		C

SCHEDULE 'A1' and 'A2' ZONE MAP CORPORATION OF THE TOWNSHIP OF UXBRIDGE

CON. 6

CON. 7

CON. 8



CON. 6

CON. 7

CON. 8

GENERAL ZONE CATEGORIES

Lands Affected By A Freestanding By-law

Note:

This Schedule 'A1' and 'A2' has been prepared for consolidation purposes only. It incorporates those amendments to Schedule 'A1' and Schedule 'A2' as of July 2020. For accurate reference, the original of the individual by-law should be consulted.

EP ENVIRONMENTAL PROTECTION ZONE
OS RECREATIONAL OPEN SPACE ZONE
RE RECREATIONAL ZONE
RU RURAL ZONE
RC RESIDENTIAL CLUSTER ZONE
HR HAMLET RESIDENTIAL ZONE

R1 RESIDENTIAL FIRST DENSITY ZONE
R2 RESIDENTIAL SECOND DENSITY ZONE
RM RESIDENTIAL MULTIPLE DENSITY ZONE
RH RESIDENTIAL HOLDING ZONE
CF COMMUNITY FACILITY ZONE
C1 HAMLET COMMERCIAL ZONE

C2 LOCAL COMMERCIAL ZONE
C3 GENERAL COMMERCIAL ZONE
C4 CORRIDOR COMMERCIAL/MIXED USE ZONE
M1 RURAL INDUSTRIAL ZONE
M2 URBAN INDUSTRIAL ZONE
M4 WASTE DISPOSAL ZONE



4: ZONE PROVISIONS**4.3 RECREATIONAL OPEN SPACE (OS) ZONE****4.3.1 PERMITTED USES**

No person shall within the Recreational Open Space (OS) Zone use any land or erect, alter or use any building or structure except for one or more of the following uses:

- a. Residential Uses
 - i. a single-family dwelling house or a dwelling unit in a portion of a non-residential building shall only be permitted where such dwelling is ancillary to a permitted non-residential use and occupied by the owner, caretaker, watchman or other similar person, and his family, engaged in the main non-residential operation on the same lands.
- b. Non-Residential Uses
 - i. conservation, agriculture, forestry, reforestation, bird sanctuaries, wildlife reserves, or other similar passive uses which provide for the preservation and management of the natural environment.
 - ii. a conservation area;
 - iii. a farm;
 - iv. a golf course
 - v. a home occupation in accordance with the provisions of Section 5.10 hereof and a home industry use in accordance with the provisions of Section 5.30 hereof;
 - vi. a private recreational park; and
 - vii. a public use in accordance with the provisions of Section 5.18 hereof.
- c. Accessory Uses

Uses, buildings and structures accessory to any of the foregoing listed permitted uses are permitted provided such are in accordance with the provisions of Section 5.1 hereof.

(B/L Nos.
2010-079
2011-036)

4.3.2 REGULATIONS FOR PERMITTED RESIDENTIAL USES**4.3.2.1 SINGLE-FAMILY DWELLING HOUSE**

- a. Minimum Yard Requirements
 - i. Front Yard Depth 15 metres
 - ii. Exterior Side Yard Width 15 metres
 - iii. Interior Side Yard Width 6 metres
 - iv. Rear Yard Depth 15 metres
- b. Minimum Gross Floor Area Requirements 110 metres
- c. Minimum Setback from Street Centreline
 - i. Provincial Highway 33 metres

4: ZONE PROVISIONS

4.3 RECREATIONAL OPEN SPACE (OS) ZONE

(B/L No. 89-3) Notwithstanding any other provision of the Recreational Open Space (OS) Zone as set forth under Section 4.3.1 hereof to the contrary, within the Recreational Open Space Exception No. 6 (OS-6) Zone, located in part of Lots 5 and 6, Concession VII and VIII, in the former Township of Uxbridge, the uses permitted shall be restricted to that of conservation, forestry, reforestation and landscaped open space and shall exclude any buildings or structures except for public uses in accordance with the provisions of Section 5.1 hereof.

4.3.5.7 RECREATIONAL OPEN SPACE EXCEPTION NO. 7 (OS-7) ZONE

(B/L Nos. 90-107, 99-028, 99-159) Within the Recreational Open Space Exception No. 7 (OS-7) Zone, located in Part of Lots 9 and 10, Concession 1, in the Township of Uxbridge, the applicable provisions of the Recreational Open Space (OS) Zone shall apply save and except as specifically noted below in which case the following provisions shall apply and be complied with:

- i. The provisions of Sections 4.3.1 b.iii, 4.3.1 b.v, and 4.3.1 b.vi of Zoning By-law No. 81-19, as otherwise amended, shall not apply.

4.3.5.8 RECREATIONAL OPEN SPACE EXCEPTION NO. 8 (OS-8) ZONE

(B/L Nos. 90-119, 91-105) Notwithstanding the provisions of Section 4.3.1 of Zoning By-law No.81-19, as otherwise amended, within the Recreational Open Space Exception No. 8 (OS-8) Zone located on the north side of Brock Street immediately west of Quaker Village Drive only the following uses shall be permitted:

- i. a public use in accordance with the provisions of Section 5.18 of Zoning By-law No. 81-19.
- ii. conservation, reforestation or other similar passive uses which provide for the preservation and management of the natural environment.

4.3.5.9 RECREATIONAL OPEN SPACE EXCEPTION NO. 9 (OS-9) ZONE

(B/L Nos. 92-39, 2001-125, 2002-164) a. Within the Recreation Open Space Exception No. 9 (OS-9) Zone, located in Part of Lots 6, 7, and 8 Concession 3, in the Township of Uxbridge, the applicable provisions of the Recreational Open Space (OS) Zone shall apply save and except as specifically noted below in which case the following provisions shall apply and be complied with:

- i. The provisions of Sections 4.3.1 b.v, and 4.3.1 b.vi of Zoning By-law No. 81-19, as otherwise amended, shall not apply.

4.3.5.10 [Empty]

4.3.5.11 RECREATION OPEN SPACE EXCEPTION NO. 11 (OS-11) ZONE

(B/L Nos. 93-100, 99-177, 2000-016) Within the Recreational Open Space Exception No. 11 (OS-11) Zone, located in part of Lots 23, 24, 25, 26 and 27, Concession 6, in the Township of Uxbridge, the applicable provisions of the Recreational Open Space (OS) Zone shall apply save and except as specifically noted below in which case the following provisions shall apply and be complied with:

- a. Delete “agriculture” from the list of Non-residential uses in Section 4.3.1 b.i.
- b. The provisions of Section 4.3.1 b.iii, 4.3.1 b.v and 4.3.1 b.vi of Zoning By-law No. 81-19, as otherwise amended, shall not apply.

4: ZONE PROVISIONS

4.3 RECREATIONAL OPEN SPACE (OS) ZONE

c. The following additional provisions shall apply for a golf course use:

- i. Minimum Setback from the Centre 45 metres
point of a golf green to any road, street
or property boundary
- ii. Minimum perimeter passive use 10 metres on perimeter of
area where uses shall be limited to OS-11 Zone except where it
conservation, forestry, reforestation, abuts the EP-16 Zone or a
bird sanctuaries, wildlife reserves private right-of-way is
or other similar passive uses for the located
preservation and management of the
natural environment and public
uses in accordance with the provisions
of Section 5.18 hereof.

d. Accessory Guest Cabins

Within that portion of the OS-11 Zone located in part of Lot 27, Concession 6 only, a maximum of six (6) guest cabins, accessory to and an integral part of the golf course located within the OS-11 Zone, shall be permitted but only for the overnight accommodation of guests of the golf course, subject to the following provisions:

- i. maximum gross floor area of each cabin 75 square metres
- ii. minimum side yard width
from east limit of OS-11 Zone 200 metres
from west limit of OS-11 Zone 50 metres
- iii. there shall be no cooking facilities in the guest cabins.

4.3.5.12 RECREATIONAL COMMERCIAL EXCEPTION NO. 12 (OS-12) ZONE

(B/L Nos.
2004-192
2007-075)

a. Within the Recreational Open Space Exception No. 12 (OS-12) Zone, located in Part of Lots 16, 17 and 18, Concession 4, in the Township of Uxbridge, and shown on Schedule "A3" of Zoning By-law 81-19, as amended, notwithstanding any other provisions of the Recreational Open Space (OS) Zone to the contrary, no person shall use any land or erect, alter or use any building or structure except in accordance with the following provisions:

- i. Permitted Uses
 - a golf course;
 - buildings, structures and uses accessory to a golf course including a club house and driving range;
 - a public use in accordance with the provisions of Section 5.18 hereof;
 - communal water and wastewater facilities;
 - fish, wildlife and forest management;
 - conservation projects and flood and erosion control projects;
 - agricultural uses; and,
 - stormwater management facilities.
- ii. The following provisions in addition to the provisions of Section 4.3.3:
 - Minimum setback from the centre 45 metres
point of any golf green to any road,
street or property boundary



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Midori

Site Address:

40 Elgin Park Drive Uxbridge ON

Project No:

21031500047

Opta Order ID:

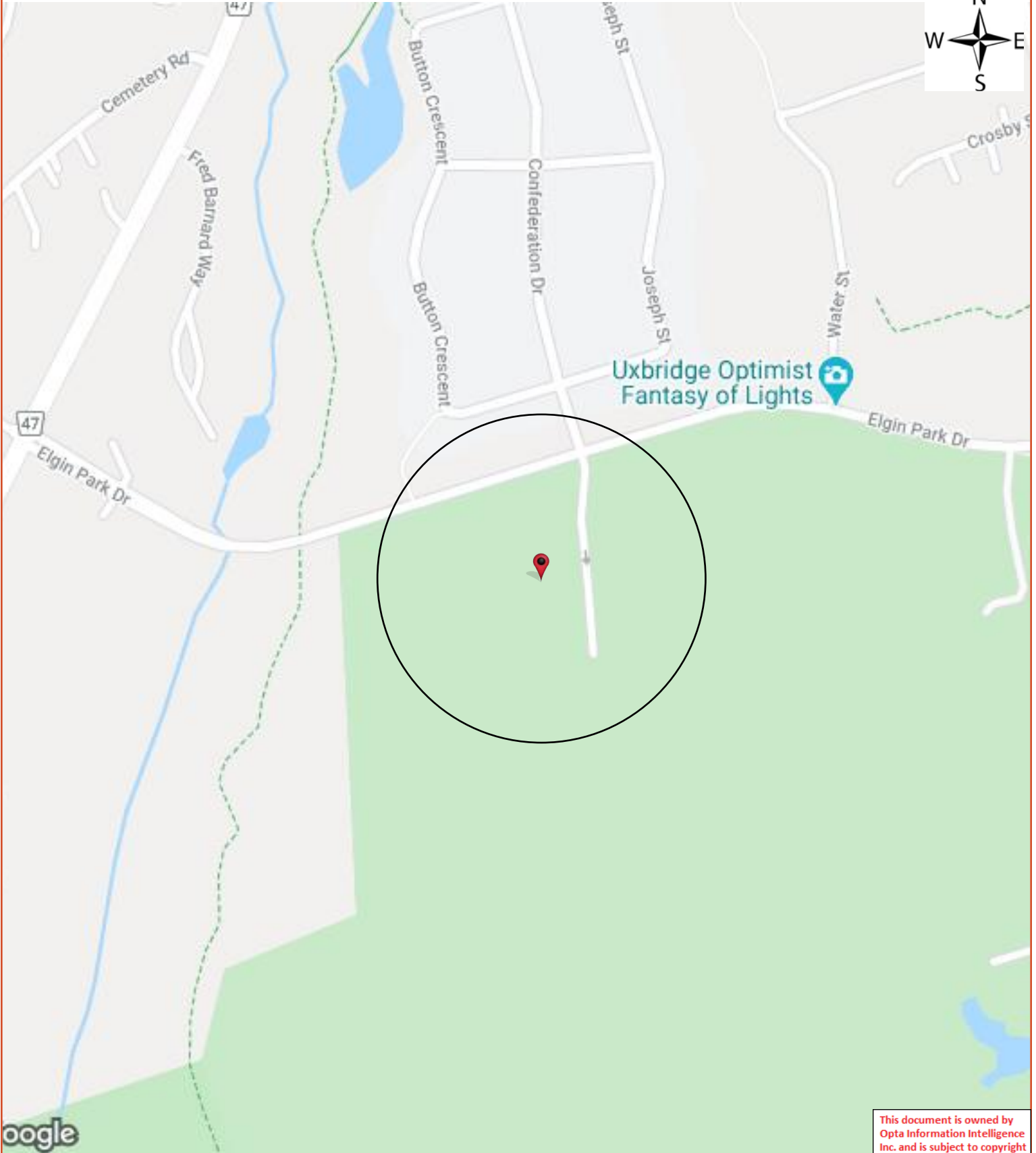
87530

Requested by:

Eleanor Goolab
ERIS

Date Completed:

3/19/2021 6:56:44 AM



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Opta Historical Environmental Services EnviroscanTM Terms and Conditions

Report

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Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

Page: 4

Project Name: 40 Elgin Park
Drive Uxbridge Ontario

Project #: 21031500047
P.O. #: 1122541901

ENVIROSCAN Report

No Records Found

Requested by:
Eleanor Goolab

Date Completed: 03/19/2021 06:56:44



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DATABASE REPORT

Project Property: *40 Elgin Park Drive, Uxbridge, Ontario
40 Elgin Park Drive
Uxbridge ON L9P 1R1*

Project No: *11225419-01*

Report Type: *Standard Report*

Order No: *21031500047*

Requested by: *GHD Limited*

Date Completed: *March 18, 2021*

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Executive Summary

Property Information:

Project Property: 40 Elgin Park Drive, Uxbridge, Ontario
40 Elgin Park Drive Uxbridge ON L9P 1R1

Project No: 11225419-01

Coordinates:

Latitude: 44.0960267
Longitude: -79.1223435
UTM Northing: 4,884,252.43
UTM Easting: 650,297.32
UTM Zone: 17T

Elevation: 967 FT
294.85 M

Order Information:

Order No: 21031500047
Date Requested: March 15, 2021
Requested by: GHD Limited
Report Type: Standard Report

Historical/Products:

Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	1	0	1
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	1	0	1
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	0	0
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	1	1
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	2	0	2
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	2	2
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	0	0
Total:			4	3	7

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	PTTW	Wooden Sticks Golf Inc.	40 Elgin Park Drive (Lots 23-27, Con 6) Uxbridge Ontario Uxbridge ON	-/0.0	0.00	13
1	PTTW	Wooden Sticks Golf Inc.	40 Elgin Park Drive (Lots 23-27, Con 6) Uxbridge Ontario Uxbridge ON	-/0.0	0.00	13
1	CA	Wooden Sticks Golf Inc.	40 Elgin Park Dr Lot 23, Concession 7 Uxbridge ON	-/0.0	0.00	14
1	ECA	Wooden Sticks Golf Inc.	40 Elgin Park Dr Lot 23, Concession 7 Uxbridge ON L9P 1N2	-/0.0	0.00	14

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
2	SPL	Enbridge Gas Distribution Inc.	64 Joseph St Uxbridge ON	NNE/249.8	-5.15	14
2	SPL	Enbridge Energy Distribution Inc.	64 Joseph St Uxbridge ON	NNE/249.8	-5.15	15
2	PINC	ENBRIDGE GAS INC	64 JOSEPH ST,,UXBRIDGE,ON,L9P 1Z3, CA ON	NNE/249.8	-5.15	15

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Wooden Sticks Golf Inc.	40 Elgin Park Dr Lot 23, Concession 7 Uxbridge ON	-	0.00	1

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Dec 31, 2020 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Wooden Sticks Golf Inc.	40 Elgin Park Dr Lot 23, Concession 7 Uxbridge ON L9P 1N2	-	0.00	1

PINC - Pipeline Incidents

A search of the PINC database, dated Oct 31, 2020 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
ENBRIDGE GAS INC	64 JOSEPH ST.,UXBRIDGE,ON,L9P 1Z3,CA ON	NNE	249.75	2

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994-Jan 31, 2020 has found that there are 2 PTTW site(s) within approximately 0.25 kilometers of the project property.

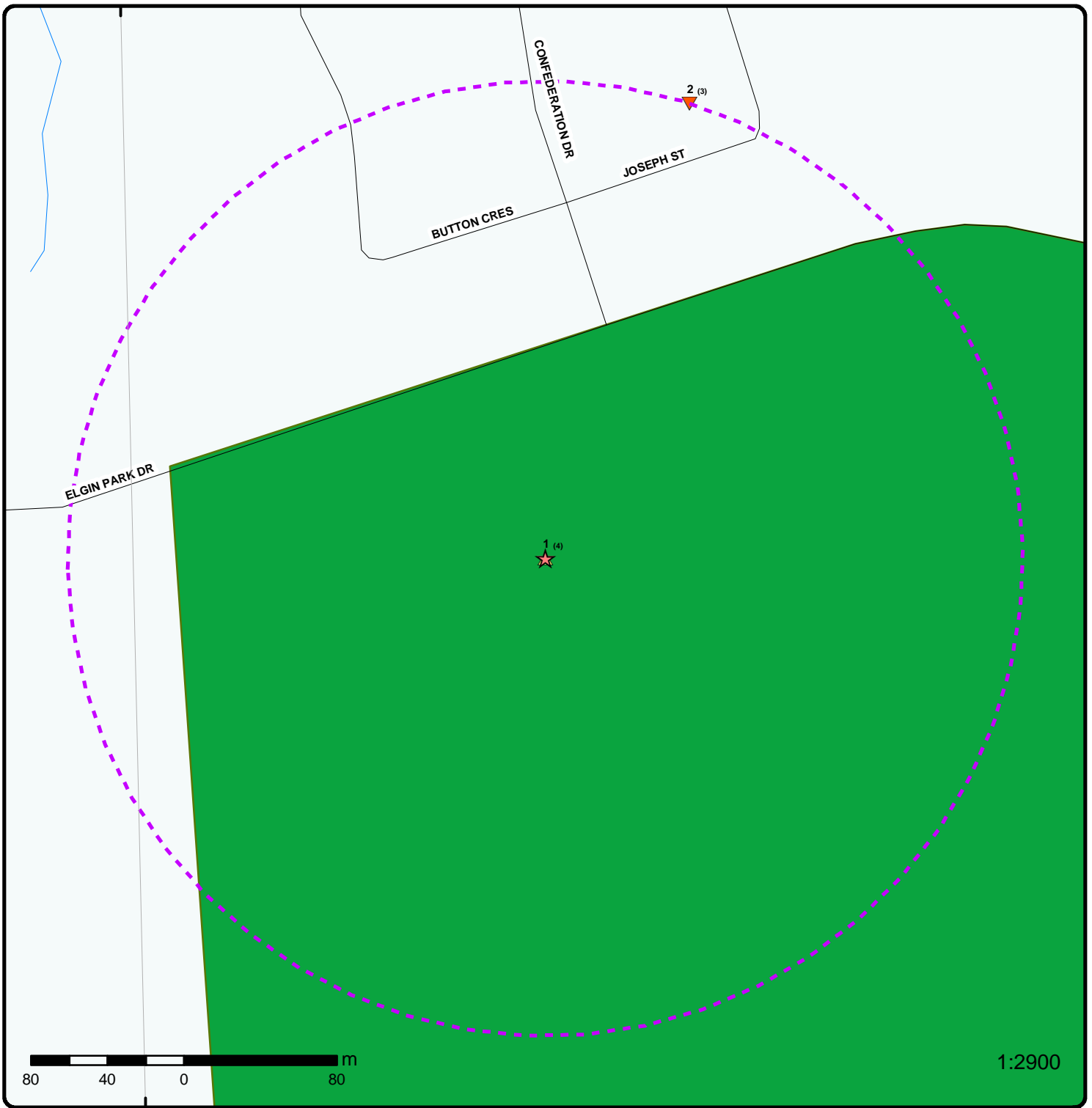
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Wooden Sticks Golf Inc.	40 Elgin Park Drive (Lots 23-27, Con 6) Uxbridge Ontario Uxbridge ON	-	0.00	1
Wooden Sticks Golf Inc.	40 Elgin Park Drive (Lots 23-27, Con 6) Uxbridge Ontario Uxbridge ON	-	0.00	1

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
-------------------------------	----------------	------------------	---------------------	----------------

SPL - Ontario Spills

A search of the SPL database, dated 1988-Mar 2020; Jul 2020 - Aug 2020 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Enbridge Gas Distribution Inc.	64 Joseph St Uxbridge ON	NNE	249.75	<u>2</u>
Enbridge Energy Distribution Inc.	64 Joseph St Uxbridge ON	NNE	249.75	<u>2</u>



Map: 0.25 Kilometer Radius

Order Number: 21031500047

Address: 40 Elgin Park Drive, Uxbridge, ON



Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range
Eris Sites with Lower Elevation	Local road	Abandoned Line	Park or Sports Field
Eris Sites with Unknown Elevation	Trail	Proposed Road	Other Recreation Area
	Proposed Road		
	Ferry Route/Ice Road		



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial Year: 2019

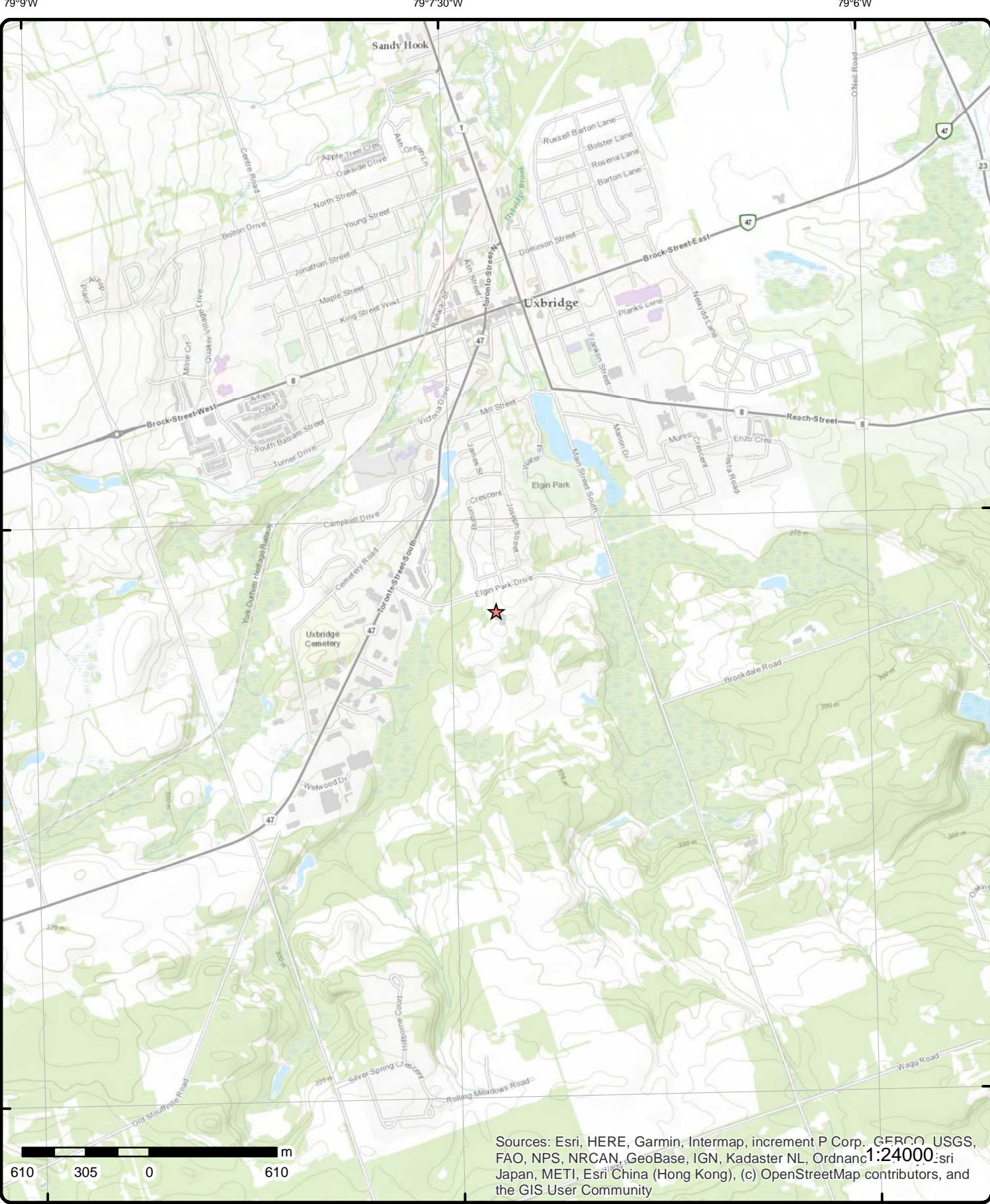
Address: 40 Elgin Park Drive, Uxbridge, ON

Source: ESRI World Imagery

Order Number: 21031500047



© ERIS Information Limited Partnership



Topographic Map

Address: 40 Elgin Park Drive, ON

Source: ESRI World Topographic Map

Order Number: 2103150047



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB		
1	1 of 4	-/0.0	294.8 / 0.00	Wooden Sticks Golf Inc. 40 Elgin Park Drive (Lots 23-27, Con 6) Uxbridge Ontario Uxbridge ON	PTTW		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> EBR Registry No: IA06E0094 Ministry Ref No: 8752-6KXSLF Notice Type: Instrument Decision Notice Stage: Notice Date: March 07, 2006 Proposal Date: January 18, 2006 Year: 2006 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Wooden Sticks Golf Inc. Site Address: Location Other: Proponent Name: Proponent Address: 40 Elgin Park Drive, Uxbridge Ontario, L9P 1N2 Comment Period: URL: </td> <td style="width: 50%; vertical-align: top;"> Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map: </td> </tr> </table> <p>Site Location Details:</p> <p>40 Elgin Park Drive (Lots 23-27, Con 6) Uxbridge Ontario Uxbridge</p>						EBR Registry No: IA06E0094 Ministry Ref No: 8752-6KXSLF Notice Type: Instrument Decision Notice Stage: Notice Date: March 07, 2006 Proposal Date: January 18, 2006 Year: 2006 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Wooden Sticks Golf Inc. Site Address: Location Other: Proponent Name: Proponent Address: 40 Elgin Park Drive, Uxbridge Ontario, L9P 1N2 Comment Period: URL:	Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:
EBR Registry No: IA06E0094 Ministry Ref No: 8752-6KXSLF Notice Type: Instrument Decision Notice Stage: Notice Date: March 07, 2006 Proposal Date: January 18, 2006 Year: 2006 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Wooden Sticks Golf Inc. Site Address: Location Other: Proponent Name: Proponent Address: 40 Elgin Park Drive, Uxbridge Ontario, L9P 1N2 Comment Period: URL:	Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:						

1	2 of 4	-/0.0	294.8 / 0.00	Wooden Sticks Golf Inc. 40 Elgin Park Drive (Lots 23-27, Con 6) Uxbridge Ontario Uxbridge ON	PTTW		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> EBR Registry No: IA06E0587 Ministry Ref No: 7767-6PLQVE Notice Type: Instrument Decision Notice Stage: Notice Date: August 01, 2006 Proposal Date: May 09, 2006 Year: 2006 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Wooden Sticks Golf Inc. Site Address: Location Other: Proponent Name: Proponent Address: 40 Elgin Park Drive, Uxbridge Ontario, L9P 1N2 Comment Period: URL: </td> <td style="width: 50%; vertical-align: top;"> Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map: </td> </tr> </table> <p>Site Location Details:</p> <p>40 Elgin Park Drive (Lots 23-27, Con 6) Uxbridge Ontario Uxbridge</p>						EBR Registry No: IA06E0587 Ministry Ref No: 7767-6PLQVE Notice Type: Instrument Decision Notice Stage: Notice Date: August 01, 2006 Proposal Date: May 09, 2006 Year: 2006 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Wooden Sticks Golf Inc. Site Address: Location Other: Proponent Name: Proponent Address: 40 Elgin Park Drive, Uxbridge Ontario, L9P 1N2 Comment Period: URL:	Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:
EBR Registry No: IA06E0587 Ministry Ref No: 7767-6PLQVE Notice Type: Instrument Decision Notice Stage: Notice Date: August 01, 2006 Proposal Date: May 09, 2006 Year: 2006 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Wooden Sticks Golf Inc. Site Address: Location Other: Proponent Name: Proponent Address: 40 Elgin Park Drive, Uxbridge Ontario, L9P 1N2 Comment Period: URL:	Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:						

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	3 of 4	-/0.0	294.8 / 0.00	Wooden Sticks Golf Inc. 40 Elgin Park Dr Lot 23, Concession 7 Uxbridge ON	CA
Certificate #: 5227-7XNKAW Application Year: 2009 Issue Date: 11/10/2009 Approval Type: Municipal and Private Sewage Works Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
1	4 of 4	-/0.0	294.8 / 0.00	Wooden Sticks Golf Inc. 40 Elgin Park Dr Lot 23, Concession 7 Uxbridge ON L9P 1N2	ECA
Approval No: 5227-7XNKAW Approval Date: 2009-11-10 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Lakes Simcoe and Couchiching/Black River Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Address: 40 Elgin Park Dr Lot 23, Concession 7 Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9343-7TXRF7-14.pdf		MOE District: York-Durham City: Longitude: -79.12340499999999 Latitude: 44.10879 Geometry X: Geometry Y:			
2	1 of 3	NNE/249.8	289.7 / -5.15	Enbridge Gas Distribution Inc. 64 Joseph St Uxbridge ON	SPL
Ref No: 3057-BDPRDR Site No: NA Incident Dt: 7/2/2019 Year: Incident Cause: Incident Event: Leak/Break Contaminant Code: 35 Contaminant Name: NATURAL GAS (METHANE) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: 1075 Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: Air MOE Response: No Dt MOE Arvl on Scn: MOE Reported Dt: 7/2/2019 Dt Document Closed:		Discharger Report: Material Group: Health/Env Conseq: 2 - Minor Environment Client Type: Corporation Sector Type: Miscellaneous Communal Agency Involved: Nearest Watercourse: Site Address: 64 Joseph St Site District Office: York-Durham Site Postal Code: Site Region: Central Site Municipality: Uxbridge Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Incident Reason: Operator/Human Error Site Name: residential<UNOFFICIAL> Site County/District: Regional Municipality of Durham Site Geo Ref Meth: Incident Summary: TSSA – Enbridge, ½" plastic riser IP, damaged, made safe Contaminant Qty: 0 other - see incident description					
2	2 of 3	NNE/249.8	289.7 / -5.15	Enbridge Energy Distribution Inc. 64 Joseph St Uxbridge ON	SPL
Ref No: 4426-BDPRNB Site No: NA Incident Dt: 7/2/2019 Year: Incident Cause: Incident Event: Leak/Break Contaminant Code: 35 Contaminant Name: NATURAL GAS (METHANE) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: 1075 Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: Air MOE Response: No Dt MOE Arvl on Scrn: MOE Reported Dt: 7/2/2019 Dt Document Closed: Discharger Report: Material Group: Health/Env Conseq: 2 - Minor Environment Client Type: Corporation Sector Type: Miscellaneous Communal Agency Involved: Nearest Watercourse: Site Address: 64 Joseph St Site District Office: York-Durham Site Postal Code: Site Region: Central Site Municipality: Uxbridge Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill Source Type: Pipeline/Components					
Incident Reason: Operator/Human Error Site Name: Residential<UNOFFICIAL> Site County/District: Regional Municipality of Durham Site Geo Ref Meth: Incident Summary: TSSA FSB: Steel Riser of Meter Hit, Made safe Contaminant Qty: 0 other - see incident description					
2	3 of 3	NNE/249.8	289.7 / -5.15	ENBRIDGE GAS INC 64 JOSEPH ST,,UXBRIDGE,ON,L9P 1Z3,CA ON	PINC
Incident ID: Incident No: 2622606 Incident Reported Dt: 7/2/2019 Type: FS-Pipeline Incident Status Code: Customer Acct Name: ENBRIDGE GAS INC Incident Address: 64 JOSEPH ST,,UXBRIDGE,ON,L9P 1Z3,CA Tank Status: Pipeline Damage Reason Est Task No: Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Fuel Category: Health Impact: Environment Impact: Property Damage: Service Interupt: Enforce Policy: Public Relation: Pipeline System: Depth: Pipe Material: PSIG: Attribute Category: Regulator Location: Method Details:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Occurrence Desc:
Damage Reason:
Notes:

Unplottable Summary

Total: 7 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 28 Con 6	Uxbridge ON	
CA	THE SOMERSET DEVELOPMENT CORPORATION	ELGIN PARK RES.SUBD.(SWM)	UXBRIDGE TWP. ON	
CA	Heathwood Homes (Uxbridge) Limited	West Half of Lot 28, Concession 6	Uxbridge ON	
CA	Heathwood Homes (Uxbridge) Limited	West Half of Lot 28, Concession 6	Uxbridge ON	
CA		Lot 27, Concession 6	Uxbridge ON	
CA	Heathwood Homes (Uxbridge) Limited	West half lot 28, Concession 6	Uxbridge ON	
PTTW	Wooden Sticks Golf Inc.	Lot: 23 - 27, Concession: 6, Township of Uxbridge, Regional Municipality of Durham TOWNSHIP OF UXBRIDGE	ON	

Unplottable Report

Site: Lot 28 Con 6 Uxbridge ON

Database:
AAGR

Type: Pit
Region/County: Durham
Township: Uxbridge
Concession: 6
Lot: 28
Size (ha): 0.4
Landuse:
Comments:

Site: THE SOMERSET DEVELOPMENT CORPORATION
ELGIN PARK RES.SUBD.(SWM) UXBRIDGE TWP. ON

Database:
CA

Certificate #: 3-0575-95-
Application Year: 95
Issue Date: 6/16/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Heathwood Homes (Uxbridge) Limited
West Half of Lot 28, Concession 6 Uxbridge ON

Database:
CA

Certificate #: 7331-6MUKLC
Application Year: 2006
Issue Date: 3/15/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Heathwood Homes (Uxbridge) Limited
West Half of Lot 28, Concession 6 Uxbridge ON

Database:
CA

Certificate #: 1543-6PGMK6
Application Year: 2006
Issue Date: 5/6/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Lot 27, Concession 6 Uxbridge ON

Database:
CA

Certificate #: 8354-4HVL68
Application Year: 00
Issue Date: 3/31/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Township of Uxbridge
Client Address: 51 Toronto Street South, Box 190
Client City: Uxbridge
Client Postal Code: L9P 1T1
Project Description: Storm sewers to be constructed on the proposed Elgin Park Drive.
Contaminants:
Emission Control:

Site: Heathwood Homes (Uxbridge) Limited
West half lot 28, Concession 6 Uxbridge ON

Database:
CA

Certificate #: 6217-6KVPJL
Application Year: 2006
Issue Date: 2/8/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Wooden Sticks Golf Inc.
Lot: 23 - 27, Concession: 6, Township of Uxbridge, Regional Municipality of Durham TOWNSHIP OF UXBRIDGE
ON

Database:
PTTW

EBR Registry No: 011-4857
Ministry Ref No: 8616-8MCPNB
Notice Type: Instrument Decision
Notice Stage:
Notice Date: December 21, 2011
Proposal Date: November 03, 2011
Year: 2011
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Wooden Sticks Golf Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 40 Elgin Park Drive, Uxbridge Ontario, L9P 1N2
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System:

Provincial

[AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private

[ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

[AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

[AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Dec 31, 2020

Borehole:

Provincial

[BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Dec 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Nov 2020

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Jan 31, 2020

Drill Hole Database:

Provincial [DRL](#)

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial [DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Jul 31, 2020

Environmental Activity and Sector Registry:

Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Dec 31, 2020

Environmental Registry:

Provincial [EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Jan 31, 2020

Environmental Compliance Approval:

Provincial [ECA](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Dec 31, 2020

Environmental Effects Monitoring:

Federal [EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private [EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Oct 31, 2020

Environmental Issues Inventory System:

Federal [EIIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2019

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Federal Convictions:

Federal **FCON**

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Sep 2020

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Jul 31, 2020

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2018

TSSA Historic Incidents:

Provincial

[HINC](#)

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

[MINE](#)

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Jan 2020

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2020

National Energy Board Wells:

Federal [NEBP](#)

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Aug 31, 2020

Ontario Oil and Gas Wells:

Provincial

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites:

Provincial

OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders:

Provincial

ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Jan 31, 2020

Canadian Pulp and Paper:

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Dec 31, 2020

Pipeline Incidents:

Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 31, 2020

Private and Retail Fuel Storage Tanks:

Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Jan 31, 2020

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Jan 2021

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Dec 31, 2020

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Mar 2020; Jul 2020 - Aug 2020

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private [TANK](#)

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Dec 31, 2020

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30th, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2020

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix B

Aerial Photographs



PHASE ONE
PROPERTY



AERIAL PHOTOGRAPHY - 1927

Proposed Development

40 Elgin Park Drive

Uxbridge, Ontario

Scale: Not Available



Source: National Airphoto Library, dated 1927

11225419-01

March 2021

B-1



PHASE ONE
PROPERTY



AERIAL PHOTOGRAPHY - 1960

Proposed Development

40 Elgin Park Drive

Uxbridge, Ontario

Scale: Not Available



Source: National Airphoto Library, dated 1960

11225419-01

March 2021

B-2



PHASE ONE
PROPERTY



AERIAL PHOTOGRAPHY - 1981

Proposed Development

40 Elgin Park Drive

Uxbridge, Ontario

Scale: Not Available



Source: National Airphoto Library, dated 1981

11225419-01

March 2021

B-3



PHASE ONE
PROPERTY



AERIAL PHOTOGRAPHY - 1995

Proposed Development

40 Elgin Park Drive

Uxbridge, Ontario

Scale: Not Available



11225419-01

March 2021



AERIAL PHOTOGRAPHY - 2005

Proposed Development

40 Elgin Park Drive

Uxbridge, Ontario

Scale: Not Available



11225419-01

March 2021



AERIAL PHOTOGRAPHY - 2019

Proposed Development

40 Elgin Park Drive

Uxbridge, Ontario

Scale: Not Available



11225419-01

March 2021

Appendix C

Property Photographs



Photo 1 - View of Property from site entrance on Elgin Park Drive.



Photo 2 - View from parking lot area towards adjacent new residential construction.



Site Photographs



Photo 3 - Additional view of adjacent new residential construction.



Photo 4 - View of back end of clubhouse and outbuilding.



Site Photographs



Photo 5 - View from Property across golf course.



Photo 6 - Clubhouse building is heated with natural gas.



Site Photographs



Photo 7 - View across parking areas to the north.



Photo 8 - View of forested areas on the Property.



Site Photographs



Photo 9 - View across Elgin Park Drive towards residential development.



Photo 10 - View along Elgin Park Drive to the west.



Site Photographs

Appendix D

Qualifications of Site Assessors



Nyle McIlveen, P.Eng.

Principal/Senior Engineer

Qualified (Education): B.Sc. (Life Sciences), 1982; B.Sc. (Civil Engineering), 1985. Queen's University.

Connected (professional affiliations): Professional Engineers of Ontario, Qualified Person for Environmental Site Assessments in accordance with Ontario Regulation 153/04

Professional Summary: Nyle has over 30 years of practical hydrogeologic, geotechnical, environmental, and material testing experience throughout Ontario. He is a Principal / senior engineer / hydrogeologist with GHD (formerly Geo-Logic, an affiliate company of Inspec-Sol, Conestoga-Rovers & Associates and GHD group of companies). Nyle has completed a variety of hydrogeological design reports (all phases including investigation, implementation, and report preparation), environmental projects (Phase 1, 2, 3 site assessments and various remedial works) and construction management for large private corporations as well as hydrogeological (water supply) projects for various municipal governments and private/industrial sector clients.

Nyle has accumulated a broad range of expertise from geotechnical and hydrogeological investigations, environmental site assessments to construction materials testing and inspection services. He has acted as a site representative, project coordinator and project manager on numerous development projects throughout Ontario. His experience includes conventional construction projects such as roads, bridges and buildings. In addition, he has worked on several landfill monitoring projects for municipal and private clientele. He has also been involved in tailings management projects at several mining sites in Northern and Southern Ontario, and Saskatchewan.

Nyle has coordinated, supervised and reported on more than 1,000 environmental site assessments (ESAs). He is a Qualified Person (QP) capable of submitting Records of Site Condition (RSC) to the Ministry of the Environment and Climate Change (MOECC). His experience includes over 100 clean-up projects related to petroleum accidents and spills. He is also experienced with Permits to Take Water (PTTW) and has provided expert witness testimony for the Ontario Municipal Board.

Phase One and Two Environmental Site Assessments

Private Companies and Individuals, Financing Institutions, City of Peterborough, City of Toronto, City of Oshawa, City of Pickering, Town of Whitby, City of Kingston, City of Belleville, City of Quinte West, York Region, City of Kawartha Lakes, Renfrew County, Hastings County, Haliburton County, Peterborough County, Northumberland County, Durham Region (1989 – present)

Experience has included all levels of involvement with ESA projects for property owners, purchasers and financial institutions with field and agency data collection and reporting in order to meet with current legislation and guidelines outlined by the Ministry of the Environment (now O. Reg. 153) including client liaison, project management, and submission of Records of Site Condition.

- Meet requirements of financial institutions for financing of industrial, commercial, residential including properties of environmental sensitivity
- Establishing environmental status of properties for owners and prospective purchasers
- Submitting Record of Site Condition to comply with proposed land use changes

Spill Response and Site Remediation Insurance Agencies, City of Peterborough, City of Toronto, City of Oshawa, CFB Trenton, CFB Petawawa, City of Quinte West, York Region, City of Kawartha Lakes, Renfrew County, Hastings County, Haliburton County, Peterborough County, Northumberland County, Durham Region (1989 – present)

Response to reported spills involving establishing remediation protocol and monitoring, in order to meet with current legislation and guidelines outlined by the Ministry of the Environment and the Technical Standards and Safety Authority Fuels Safety Division.

- Compliance with MOECC or TSSA issued Orders
- Site remediation to meet with MOECC Standards for O. Reg 153 Phase Two ESAs
- Remediation to meet with MOECC Standards related to the removal of underground storage tanks
- Providing interim and final reports to establish environmental status of properties relative to contaminant of concern



Nyle McIlveen, P.Eng.

Principal/Senior Engineer

Hydrogeologic Assessments

Private Companies and Individuals, Peterborough County, Northumberland County, Durham Region, York Region, City of Kawartha Lakes, Simcoe County, Renfrew County, Hastings County, County of Lennox and Addington, Frontenac County, Prince Edward County, Haliburton County, Town of Whitby, City of Quinte West, District of Muskoka, District of Parry Sound, District of Nipissing, Ontario Parks (1989 – present)

Experience has included all levels of involvement with investigations and assessments in areas privately serviced with water wells and septic systems, groundwater monitoring programs, water system design and preparing reports for Regional, Township, MOE and Conservation Authority review.

- Proposed residential developments relative to MOE and Conservation Authority compliance
- Aquifer performance testing and groundwater modeling pertaining to proposed groundwater sources
- Assessment of water treatment systems regulated under the Safe Drinking Water Act
- Septic system assessment and compliance
- Submission of applications for PTTW for large groundwater takings and dewatering activities
- Submission of applications for ECAs pertaining to sewage works and waste disposal sites

Designated Substance Surveys, ACM, Mold and Fungi Inspections

Private Companies, Public Institutions, City of Peterborough, City of Toronto, City of Oshawa, City of Pickering, City of Quinte West, CFB Trenton, York Region, City of Kawartha Lakes, Renfrew County, Haliburton County, Peterborough County, Northumberland County, Durham Region (1989 – present)

Experience has included building inspections and testing including air monitoring and report preparation for industrial, commercial and residential sites.

- Proposed renovation and demolition projects.
- Flood and fire damage assessment.
- Material identification for existing work space conditions.
- Confirmation of remediation or post renovation assessments.

Work history

1989 – 2015	Principal Geo-Logic Inc. Peterborough, ON
2015 – present	Principal GHD Peterborough, ON

Other related areas of interest

Recognized (Certifications/Trainings)

- Registered Engineer in Ontario (PEO)
- Qualified Person for Record of Site Condition
- Member of Canadian Geotechnical Society
- Standard First Aid with CPR Level A, 2013
- WSIB Joint Health and Safety Management Chair and Committee Certified Member, 2006



Robert Neck

Senior Project Manager

Qualified (Education): M.Eng.(Civil Engineering), 2005; B.Sc. (Environmental Science), 1997.

Connected (professional affiliations): Registered Professional Geoscientist (Limited), Association of Professional Geoscientists of Ontario

Professional Summary: Robert undertakes and manages Environmental Site Assessments and Hydrogeological projects including geotechnical assessments, remediation and environmental consultation to facilitate improved outcomes for clients on their projects. Robert utilizes effective and competent communication mechanisms to inform clients regarding project progress, outcomes and manage change management regarding scope and cost. Robert's outputs on projects are invariably well received.

Environmental Site Assessment projects

Project Manager | Various Environmental Site Assessment locations throughout Ontario | 2008 – present

Robert has conducted and managed over 100 ESAs of various properties for due diligence and Record of Site Condition purposes throughout Ontario. His involvement in the projects includes Phase One and Two ESAs conducting site reconnaissance, interviews, records reviews, sampling and analysis planning, coordination of drilling and report preparation.

Robert facilitated liaison with the clients throughout the duration of the projects as well as with various banks, real estate agents, developers and private clients. Also includes interaction with the Ministry of the Environment and Climate Change for Records of Site Condition in the successful completion of these projects.

Hydrogeological and Geotechnical projects

Project Manager | Various locations throughout Ontario | 2008 – present

Robert has been integral in managing hydrogeological and geotechnical projects to assess Permits To Take Water related to construction dewatering, and hydrogeological and geotechnical assessments related to subdivision development (private and municipally serviced) and master environmental servicing plans (MESPs) within the Durham Region.

Robert's involvement includes coordination of team members, and communication of information to City and Conservation Authority staff. He has also coordinated liaison with peer reviewers and other regulatory agencies in the successful completion of these projects.

Remediation projects

Project Manager | Various locations throughout Ontario | 1999 – present

Robert has managed remedial projects that have varied from heating oil spills and gas and service station to large scale industrial site remedial activities. Remediation of contaminants includes metals, petroleum hydrocarbons, chlorinated solvents, and polychlorinated biphenyls including soil, groundwater and sediment media.

Robert's project management duties involve coordination and liaison with numerous regulatory agencies including TSSA, MOECC, MNR, DFO, and Conservation Authorities. Robert has successfully coordinated and managed the clean-up of a number of contaminated sites including those to meet the applicable MOECC Standards for submission of a Record of Site Condition.

Robert's been successful at managing and coordinating numerous teams on projects to meet milestones and goals including the successful management of 40 sub-contractors and over 20,000 hours without a reportable incident to complete the project.

Environmental projects

Project Manager and Staff Scientist | Various locations throughout Ontario | 1998 – 2008

Robert was involved in numerous Phase One and Two ESAs and environmental investigations across Ontario including Moosonee, Sarnia, and Deloro and other provinces and states including Newfoundland and Maine. Has supervised and conducted drilling and test pitting; sampled soil, groundwater, sediment and surface water and was an integral part of consulting teams designed to produce results for various clients.



Robert Neck

Senior Project Manager

Designated Substances Surveys

Project Manager | Various locations throughout Ontario | 2008 – present

Robert has been the project manager of numerous DSS projects in southcentral Ontario. These projects include the inspection and characterization of materials such as asbestos, lead, mercury and PCBs for private and public clients during renovation and demolition projects. Have also completed DSS in response to MOL orders to enable clients to continue meeting their construction schedules.

Nuclear projects

Supervisor and Staff Scientist | Bruce Nuclear, Chalk River and Pickering Nuclear Generating Station | 1999 – 2002

Robert was involved in the supervision of the removal of 22 low level radioactive tile holes at Bruce Nuclear including health and safety inspections on the \$4M project. Collected sediment and soil samples from various lakes and streams at Chalk River Nuclear. Sediment and water samples were collected from the Ottawa River. At Pickering Nuclear provided oversight of a tritium investigation. Groundwater was also collected from approximately 150 wells, 10 sumps and 20 till drains, and rainwater from 12 gauges onsite and from areas with potentially elevated radioactivity. Supervised concrete coring, drilling and installation of monitoring wells inside the Pickering plant.

Work history

2014 – present	Project Manager, GHD, Peterborough, ON
2008 – 2014	Senior Project Manager, Geo-Logic, Peterborough, ON
1998 – 2008	Project Manager and Scientist, CH2M HILL, Kitchener-Waterloo, ON

Other related areas of interest

Recognized (Certifications/Trainings)

- OSHA 40-hour Hazardous Waste Worker, 1998 – Annual Refreshers 1999 – Present
- Standard First Aid with CPR Level A and AED, 2014
- WSIB Joint Health and Safety Management Chair and Committee Certified Member, Office Safety Captain
- Training courses through employee training programs (Construction, Hazardous Waste, Subcontractor Management, WHMIS, fall protection, negotiation training, confined space training etc.)



Eric Wierdsma

Engineering Technician

Qualified: Bachelor of Applied Science (B.A.Sc.), Honours Chemical Engineering, 2014. University of Waterloo

Professional Summary: Eric possesses skills that give clients confidence that their health and safety risks are being carefully managed. Since his graduation in 2014 and return to GHD in 2015, Eric has acquired vast experience conducting Hydrogeological, Environmental and Geotechnical Investigations, Designated Substances Surveys, Air Monitoring and Landfill Monitoring.

Hydrogeology

Environmental Technician

Various Projects | Ontario

- Field experience in support of hydrogeological investigations including subsurface exploration (drilling), water well sampling, aquifer performance testing and hydraulic conductivity testing.
- Desktop calculations in support of hydrogeological investigation including water balance calculations and calculations of hydraulic conductivity coefficients.
- Preparation of hydrogeological to assess hydrogeological conditions for proposed developments.

Environmental

- Conducting air monitoring for emergency response as well as monitoring for OHS/A safe workplace levels as they pertain to construction projects. Specific air monitoring experience:
 - Anhydrous Ammonia Release, Fernie, BC, October 2017
 - Air Monitoring for Mould Spores, Healy Falls, ON
 - Confirmatory Asbestos Air Monitoring, Peterborough, ON
- Conducting designated substance surveys for commercial and residential buildings, for proposed renovation and demolition projects.
- Experienced with Phase One and Two Environmental Site Assessments (ESA) using protocol documented by the MECP and Canadian Standards Association (CSA).
 - The Phase One and Two ESAs have been completed for banks, private individuals, and large corporations and have knowledge of filing these documents on the Environmental Registry as Record of Site Condition submissions.
- Directed and supervising environmental investigations and field exploration programs, including supervision of drilling and excavating activities and remedial programs.

- Landfill monitoring and testing including landfill gas measurement, monitoring well, surface water and residential sampling.
- Overburden and bedrock drilling.
- Preparations of reports including Phase One and Two ESAs, Hydrogeologic Assessments, Designated Substance Surveys, Soil Management Letters, and Spill Management Plans.

Other related areas of interest

Recognized (Certifications/Trainings)

- Nov 2017 – CP and CN Contractor Safety Program as administered through eRailSafe Canada
- 2017 Low Impact Development Technical Training: Design of Infiltration Practices
- 2017 40-hour HAZWOPER Training
- 2016 7-hour Asbestos Sampling and Analysis Training
- 2015 St. John's Ambulance, Standard First Aid with CPR Level A and AED

Work history

2015 – present	GHD (formerly Geo-Logic), Peterborough, ON
2013	Apotex Inc., Toronto, ON
2012	SGS, Lakefield, ON
2012	Towerscan, Sarnia, ON
2010	Health Canada, Ottawa, ON



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

Nyle McIlveen, P.Eng.
nyle.mcilveen@ghd.com
705-875-6106

Robert Neck, P.Geo. (Limited)
Robert.neck@ghd.com
705-761-9694

www.ghd.com