

# Phase One ESA - 5868 County Road 65, Port Hope, Ontario



September 28, 2022

Prepared for:  
Hillstreet Developments Ltd.

Cambium Reference: 15091-001

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## List of Acronyms

APEC	-	area of potential environmental concern
AST	-	aboveground storage tank
bgs	-	below ground surface
BH	-	borehole
BTEX	-	benzene, toluene, ethylbenzene, xylenes
COPC	-	contaminants of potential concern
EC	-	electrical conductivity
ESA	-	Environmental Site Assessment
FIP	-	fire insurance plan
LNAPL	-	Light non-aqueous phase liquids
Ministry	-	Ministry of the Environment, Conservation and Parks
MNRF	-	Ministry of Natural Resources and Forestry
MW	-	monitoring well
O.Reg.	-	Ontario Regulation
PAHs	-	polycyclic aromatic hydrocarbons
PCA	-	potentially contaminating activity
PCBs	-	Polychlorinated biphenyls
PHCs	-	petroleum hydrocarbons
ppm	-	parts per million
RSC	-	Record of Site Condition
SAR	-	sodium adsorption ratio
SCS	-	Site Condition Standards
UST	-	underground storage tank
VC	-	vinyl chloride
VOCs	-	volatile organic compounds



## 1.0 Executive Summary

Hillstreet Developments Ltd. (Client) retained Cambium Inc. (Cambium) to complete a Phase One Environmental Site Assessment (ESA) at 5868 County Road 65, Port Hope, Ontario (Site or Phase One Property). The Phase One ESA will be used to support a re-zoning application for the Site and was completed to meet the requirements of Ontario Regulation (O.Reg.) 153/04.

The roughly 30.9 ha Site is located east of the intersection between County Road 65 and Mastwood Road. Based on the historical and regulatory review, it is Cambium's understanding that the Site was initially developed prior to 1928 with orchards on the east and southeast portions. The residential dwelling on the east portion was developed in approximately 1932 and remains present to this day.

The Phase One ESA identified one potentially contaminating activity (PCA) on-site:

**PCA 1** – On-site: Former orchards on the east, southeast and central portions of the Site from at least 1928 until 1988; #40 Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

This on-site PCA contributes to an area of potential environmental concern (APEC).

The Phase One ESA identified two off-site PCAs that represent APECs for the Site:

**PCA 3** – Off-site: Inferred towing operation and/or automotive repair/servicing garage at 5992 County Road 65, and recurring reported spills at this property (adjacent north of the Site); #27 Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles

Three additional PCAs (one on-site and two off-site) were identified; however, based on the observations made during the site visit, lack of reported spills, and/or distance from the Site, these PCAs do not represent APECs for the Site.

Based on the observations and information obtained for the Site during the Phase One ESA, Cambium has concluded that there are two APECs at the Site that require investigation prior to the development of the Site. As such, a Phase Two ESA will be required.



## 2.0 Introduction

The Client requires the completion of a Phase One ESA for the Site consistent with O.Reg. 153/04 to support a re-zoning application for the Site. As the Site currently consists of a residential dwelling, barn and farmland, and the Client intends to redevelop the Site with a residential subdivision, the proposed land use does not constitute a change to a more sensitive land use. As such, a Record of Site Condition (RSC) is not required for the Site.

### 2.1 Phase One Property Information

The Site is located east of the intersection between County Road 65 and Mastwood Road. Site information and property owner information are summarized below. The Phase One Property location is shown on Figure 1. A plan of survey is provided in Appendix A.

Property use surrounding the Site is as follows.

- North – Residential (Potential towing and/or automotive repair/servicing garage at 5992 County Road 65)
- South – Vacant/Agricultural/Exterior Storage
- East – County Road 65/Mastwood Road/Residential/Agricultural
- West – Vacant

A potential towing and/or automotive repair/servicing garage is located at the rear of 5992 County Road 65 (adjacent to the Site). Based on the nature of operations and close proximity to the Site, this PCA represents an APEC for the Site.





### Site Identification Information

<b>Municipal Address</b>	5868 County Road 65, Port Hope, Ontario
<b>Historical Land Use</b>	Agricultural, Residential
<b>Current Land Use</b>	Agricultural, Residential
<b>Future Land Use</b>	Residential
<b>PIN</b>	51057-0110 (LT)
<b>Universal Transverse Mercator Coordinates*</b>	Zone 17T 705624 m E, 4875884 m N
<b>Legal Description</b>	Part Lot 27, Concession 5, Hope Part 1, 39R8831, Port Hope
<b>Site Area</b>	≈30.9 ha (76.0 acres)

\* The Universal Transverse Mercator measurements were obtained from Google Earth Pro.

### Property Owner Information

<b>Property Owner</b>	<b>Contact Information</b>
Hillstreet Developments Ltd. 2015 Altona Road Pickering, ON L1V 2P9	Larry Macdonell Managing Director Phone: (647) 535-7783 Email: Lmacdonell@rogers.com

## 2.2 Current and Proposed Future Use

The Site is currently developed with a residential dwelling and associated barn, located on the east-central portion. The remaining portions of the Site consist of agricultural land or vacant forested land. It is Cambium's understanding that the Client intends to divide the Site into 64 individual lots for single-family homes.



### 3.0 Scope of Investigation

This Phase One ESA was completed as specified in Schedule D of O.Reg. 153/04 and follows the mandatory reporting requirements stipulated in Table 1 of the schedule. This Phase One ESA included the following:

- A review of pertinent background and historical information including documents such as aerial photographs and topographic maps (as available)
- Review and summary of available environmental records obtained for the Site from the client and/or public and private sources
- Interviews with persons knowledgeable of the Site and adjacent properties and freedom of information requests
- A site reconnaissance including visual observation of properties within the phase one study area from publicly accessible areas
- Preparation of this report documenting the findings of the Phase One ESA and recommendations for further work, if required, to assess the environmental condition of the Site

This Phase One ESA report describes the methods used to document and identify PCAs associated with the Site and neighbouring properties within the phase one study area. While this report considers said environmental concerns, both past and present, it is limited by the availability of information obtained at the time of the assessment. No subsurface investigation or sampling was completed as part of the Phase One ESA.

## 4.0 Records Review

This assessment was based on a review of the following records. A detailed list of sources referenced in this Phase One ESA is presented in Section 9.0.

- Aerial photographs
- Business directories (if available)
- Fire insurance plans (FIPs) and property underwriters' reports
- An ERIS search of numerous provincial, federal, and private databases
- Ministry of the Environment, Conservation and Parks (Ministry) records
- Technical Standards and Safety Authority (TSSA) records
- Available reports, maps, and other information

### 4.1 General

#### 4.1.1 Phase One Study Area Determination

O.Reg. 153/04 defines the phase one study area as the area that includes the Phase One Property, any other property that is located, wholly or partly, within 250 m from the nearest point on the phase one property boundary, and any property that the Qualified Person (QP<sub>ESA</sub>) determines should be included as a part of the phase one study area.

Based on a review of current and historical land uses at the Site and surrounding properties, topography, and groundwater flow direction, the QP<sub>ESA</sub> considered the area within 250 m from the property boundary sufficient to identify PCAs and APECs.

#### 4.1.2 First Developed Use Determination

The first developed use of the Phase One Property is defined by O.Reg.153/04 to be the earlier of (a) the first use of a Phase One Property in or after 1875 that resulted in the development of a building or structure on the property, and (b) the first potentially contaminating use or activity on the Phase One Property.



A review of aerial photographs, business directories, and additional historical information was completed to determine the first developed land use for the Site. Based on the review, it is Cambium's understanding that the Site was utilized agricultural purposes since prior to 1928, as the 1928 aerial photograph depicted orchards on the east and southeast portions of the Site.

#### **4.1.3 Fire Insurance Plans**

Cambium requested available FIPs from Opta Information Intelligence (Opta). However, no FIPs were available for the Phase One Property or Phase One Study Area. A copy of the Opta report is provided in Appendix B.

#### **4.1.4 Parcel Register**

A Parcel Register dating back to 1976 was reviewed to support the determination of first developed land use for the Site and identify PCAs. A copy of the Parcel Register document is provided in Appendix C. Property ownership and use details are presented in Table 1.

The parcel register review identified the following:

- The owner of the Phase One Property was not specified between 1976 and 2005;
- The Phase One Property (PIN 51057-0110) is described as Part Lot 27, Concession 5, Hope Part 1 39R8831, Port Hope.
- From April 2005 to January 2020, the Site was owned by various individuals, with various financial institutions also listed on title. No operations/entities of potential environmental concern were identified.

#### **4.1.5 Environmental Reports**

Cambium made appropriate inquiries to obtain copies of the following reports prepared in respect of all or part of the Site by or on behalf of a current or former owner respecting environmental conditions at the Site as listed in Schedule D, paragraph 4, subsection 3 (2) of O.Reg. 153/04:



- ESA reports
- Remediation reports
- Reports prepared in response to an order or request from the Ministry
- Reports relating to the presence of a contaminant on, in, or under the Site, or the existence of an APEC

No previous environmental reports were provided for Cambium to review.

## 4.2 Environmental Source Information

Cambium made inquiries appropriate to obtain reasonably accessible records pertaining to the Site, including the following, as listed in Schedule D, paragraph 7, subsection 3 (2), of O.Reg. 153/04:

- National Pollutant Release Inventory information maintained by Environment Canada
- Polychlorinated biphenyl (PCB) information maintained by the Ministry
- Certificates of approval, permits to take water, certificates of property use or similar instruments related to the environmental condition of the phase one property and any property on, under or adjacent to the phase one property and issued pursuant to an Act administered by the Ministry, whether in force or not
- The *Inventory of Coal Gasification Plant Waste Sites in Ontario* (MOE, 1988b) and the *Inventory of Industrial Facilities Producing or Using Coal Tar or Related Tars in Ontario* (MOE, 1988a)
- Records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the Ministry where the incident, order, offence, spill, discharge or inspection affects the phase one property and any property on, under or adjacent to the phase one property
- Waste management records, including current and historical waste storage locations and waste generator and waste receiver information maintained pursuant to Regulation 347 of

the Revised Regulations of Ontario, 1990 (General — Waste Management) made under the Act, or its predecessors with respect to the Phase One Property and any property on, under or adjacent to the Phase One Property

- Reports submitted to the Ministry related to the environmental conditions of the Phase One Property and any property on, under or adjacent to the Phase One Property
- Retail fuel storage tanks information maintained by the Technical Standards and Safety Authority
- Notices and instruments, including Records of Site Condition (RSCs), posted in the Environmental Registry
- Identification of areas of natural significance maintained by the Ministry of Natural Resources and Forestry
- Landfill information maintained by the Ministry - *Waste Disposal Site Inventory* (MOE, 1991)

#### **4.2.1 City Directories**

ERIS conducted a review of city directories for the Phase One property and neighbouring properties. Directories dated 1975 to 1999 were available. The Site and surrounding area was not listed within any of the above-noted city directories.

The city directories search is included in Appendix D.

#### **4.2.2 ERIS Data**

Environmental Risk Information Services Ltd. (ERIS) is a private environmental database and information service company. Cambium contracted ERIS to provide a database report for the phase one study area (ERIS, 2022). The ERIS report summarizes the findings of a search of various federal, provincial, and private source databases for all properties within 250 m from the site boundary. The ERIS report is presented in Appendix E.



## On-Site Records

The following environmentally significant record was identified for the Site:

- The Water Well Information System database indicated that a domestic water supply well was installed on the northeast portion of the Site in January 1963. The well was installed to provide domestic water for a residential dwelling.

## Off-Site Records

The following environmentally significant records were identified for properties within the phase one study area.

### 5992 and 5996 County Road 65 (adjacent north)

The following spill was listed in the Ontario Spills database for these properties:

- On March 14, 2019, approximately 1 L of an oily runoff was noted to have crossed property lines between these two properties. As a towing and/or automotive repair/servicing garage may be present at the rear of 5992, this may have been the source of the runoff. The ERIS report also noted that this has been a repeat issue.

Given the nature of operations, the note that spills had occurred regularly at the property, and close proximity to the Site, this PCA represents an APEC for the Site.

### 4.2.3 Coal Gasification Plants

The *Inventory of Industrial Facilities Producing or Using Coal Tar or Related Tars in Ontario* (MOE, 1988a) was reviewed. No industrial facilities producing or using coal or related tars were identified within 1,000 m of the Site.

The *Inventory of Coal Gasification Plant Waste Sites in Ontario* (MOE, 1988b) was reviewed. No coal gasification plant wastes sites were identified within 1,000 m of the Site.

### 4.2.4 Waste Disposal Site Inventory

The *Waste Disposal Site Inventory* (MOE, 1991) was reviewed. No waste disposal sites were identified within 1,000 m of the Site.

#### **4.2.5 Freedom of Information**

A Freedom of information (FOI) request was submitted to the Ministry. A copy of the FOI request is included in Appendix F.

##### Ministry of the Environment, Conservation and Parks FOI Results

An FOI request was submitted to the Ministry on September 22, 2022. A response to the FOI request submitted to the Ministry was not received prior to completion of this draft report. If the results of the FOI search would change the results of this Phase One ESA, an addendum letter will be provided to the Client.

#### **4.2.6 Brownfields Environmental Site Registry**

Cambium searched for RSCs and transition notices filed in the Brownfields Environmental Site Registry. No RSCs or Transition Notices were found for the Site or for properties within 250 m of the Site.

### **4.3 Physical Setting Sources**

The following documents were available for review and were used to supplement the information database for this report.

- Historical aerial photographs
- Topography, hydrology, and geology maps (stratigraphic maps, topographic maps, Ontario base mapping (OBM), etc.)
- Areas of Natural or Scientific Interests (ANSI) maps
- Well records

#### **4.3.1 Aerial Photographs**

Aerial photographs dated 1928, 1959, 1965, 1974, 1988, 2008, 2013 and 2018 were reviewed to identify the first developed use of the Site and subsequent on-site activities, buildings,



structures, PCAs, and APECs, as per Schedule D, paragraph 9, of O.Reg. 153/04. Detailed observations are provided in Appendix G.

Review of the aerial photographs indicated that in 1928, the Site appears to consist primarily of vacant undeveloped/agricultural land, with orchards evident on the east and southeast portions. The present-day on-site building was first evident in the 1959 aerial photograph, and the orchards were present on the east, southeast and central portions of the Site until 1988. The former on-site orchards are a PCA representing an APEC for the Site. The surrounding area has consisted of vacant undeveloped land, agricultural land, and residential dwellings in all aerial photographs reviewed. However, in the 1988-2018 aerial photographs, the property located at 5992 County Road 65 appears to have a vehicle storage/parking area, potentially for towing or automotive repair/servicing activities. Based on this information, this property is a PCA representing an APEC for the Site.

#### **4.3.2 Topography, Hydrology, and Geology**

The Ministry of Natural Resources and Forestry's Make a Topographic Map web site (MNR, 2022b) was consulted for the phase one study area. Review of the web site indicated that the Site and surrounding area gradually slopes down to the northeast. A creek running in an east-west direction intersects the north portion of the Site, whereby the surface elevation is about 161 m; a creek running in an east-west direction is located adjacent south of the Site, whereby the surface elevation is about 162 m; and Ganaraska River is located approximately 550 m north of the Site.

The Site is within a drumlins region (Chapman & Putnam, 1984). In the general area, the overburden reportedly consists of modern or older alluvial deposits consisting of clay, silt, sand, gravel and potentially organic remains (OGS, 2010). The soils overlie limestone of the Lindsay/Simcoe Group formation (OGS, 2007). A review of a Ministry water well record (MECP, 2022) for the Site indicated that the stratigraphy consists of brown clay underlain by brown medium sand, and blue clay to approximately 8.66 m below ground surface (m bgs). Bedrock was not encountered.



### **4.3.3 Fill Materials**

The presence of fill was not reported or observed during the site visit.

### **4.3.4 Water Bodies and Areas of Natural Significance & Ground Water Information**

A creek running in an east-west direction intersects the north portion of the Site, and a creek running in an east-west direction is located adjacent south of the Site; therefore, the Site is within 30 m of a water body, as defined in O.Reg. 153/04.

A search for areas of natural & scientific interest (ANSI) was completed by ERIS. No Areas of Natural Significance, as defined in Section 1 of O.Reg. 153/04, were identified in whole or in part within the phase one study area.

Cambium completed a search through the Ministry of Natural Resources and Forestry's Make a Map: Natural Heritage Areas web site (MNR, 2022b) for endangered or threatened species information to determine if an area of natural significance, as defined in Section 1 of O.Reg. 153/04, is located in whole or in part within the phase one study area. The MNR records identified the potential presence on the Site and/or surrounding properties of species at risk habitat for the endangered or threatened species listed below within the 1 km<sup>2</sup> grid space which includes this Site; therefore, an area of natural significance was considered present.

- Osaca – Ganaraska River and Osaca – Wetland (Evaluated Wetlands) located as close as 40 m northeast of the Site)
- Unevaluated wetlands located west and southwest of the Site
- Eastern Meadowlark (threatened)
- Wood Thrush (threatened)
- Red-headed Woodpecker (endangered)

In order to confirm the presence/absence of endangered and threatened species habitats, the Site would need to be assessed by an Ecologist. Otherwise, it must be assumed that the Site is an area of natural significance.

#### **4.3.5 Well Records**

A search of the Ministry Water Well Information System by ERIS identified one record for an on-site water well and six water well records within the phase one study area ranging from about 45 m to 245 m from the Site. The wells were identified as domestic supply wells.

Stratigraphy in the on-site well was brown clay underlain by brown medium sand, and blue clay to approximately 8.66 m bgs. Bedrock was not encountered. Stratigraphy in the off-site wells within 100 m of the Site was generally brown/grey sand with gravel and clay to about 19 m bgs.

#### **4.4 Site Operating Records**

A review of available site operating records is required when the Site is an Enhanced Investigation Property. A property is defined as an Enhanced Investigation Property as per paragraph 32 (1) (b) of O.Reg. 153/04 if it is used, or has ever been used, in whole or in part for an industrial use or for any of the following commercial uses:

- A garage
- A bulk liquid dispensing facility, including a gasoline outlet
- For the operation of dry cleaning equipment



Review of the site history indicated the Site is not an Enhanced Investigation Property. As such, a review of available site operating records was not completed. Review of the site operating records is presented in Section 6.2.19.

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## 5.0 Interviews

As per O.Reg. 153/04, a minimum of two interviews with persons described below, are required in an effort to obtain further information regarding the Site use, occupancy history, and environmental conditions of the Site. This may include the following:

- Persons relevant to meeting the objectives of the Phase One ESA
- Current occupants and/or owners of the Site, or an individual with control of or authority over the owner
- Previous owners and/or occupants
- For industrial/commercial properties, a person that is knowledgeable of the Site activities (to be conducted on-site)
- Where the owner/occupant is not available, at least one owner or occupant of an adjacent property and one provincial or municipal government official, both of whom should be familiar with the Site

As described in Section 4.2.5, an FOI request was submitted to the Ministry for information they may have on file pertaining to the Site. A copy of the request to the Ministry is attached as Appendix G.



## **6.0 Site Reconnaissance**

### **6.1 General Requirements**

Mr. Patrick Garrett, M.Sc., C.Chem. conducted a site reconnaissance on September 7, 2022. At the time of the reconnaissance, the Site was developed with a residential dwelling on the east-northeast portion, with an associated barn and two sheds. The remaining portions of the Site consisted of vacant undeveloped land and agricultural land, with creek running in an east-west direction intersecting the north portion of the Site. Mr. Garrett also conducted a walk-by of the surrounding properties in the phase one study area to identify potential off-site PCAs that may contribute to an APEC on the Phase One Property. Surrounding properties were viewed from publicly accessible areas.

During the Site reconnaissance, the weather was clear and sunny with no precipitation. The majority of the Phase One Property was accessible. It should be noted that dense areas with overgrowth were present on the west and north portions of the Site and as such, these areas were not inspected. Information obtained from the site reconnaissance is presented in Section 6.2. Select photographs taken during the site reconnaissance are included in Appendix H.

### **6.2 Specific Observations at Phase One Property**

Cambium made all reasonable attempts to obtain the following information where applicable, as required by Schedule D, subsection 13 (1) of O.Reg. 153/04:

1. A general description of structures and other improvements, including the number and age of buildings
2. A general description of the number, age and depth of below ground structures
3. Details of all tanks, above and below ground, at the Phase One Property, including the material and method of construction of the tank, tank age, tank contents and tank volume, whether in use or not
4. Any potable and non-potable water sources



5. The type and approximate location of underground utility and service corridors, such as sewer, water, electrical or gas lines, located on, in or under the Phase One Property

With respect to the structures and buildings on the Site, the following information was obtained:

1. Exit and entry points
2. Details of existing and former heating systems, including type and fuel source
3. Details of cooling systems, including type and fuel source, if any
4. Details of any drains, pits and sumps, including their current use, if any, and former use
5. Details of any unidentified substances
6. Details, including locations, of stains or corrosion on floors other than from water, where located near a drain, pit, sump, crack or other potential discharge location.

Inquiries were also made to determine the following

7. Details including locations of current and former wells, including all wells described or defined in or under the *Ontario Water Resources Act and the Oil, Gas and Salt Resources Act*
8. Details of sewage works, including their location
9. Details of ground surface, including type of ground cover, such as grass, gravel, soil or pavement
10. Details of current or former railway lines or spurs and their locations

For the portion of the Phase One Property not covered by structures and buildings, the following observations were made:

1. Areas of stained soil, vegetation or pavement
2. Stressed vegetation
3. Areas where fill and debris materials appear to have been placed or graded
4. Potentially contaminating activity



## 5. Details of any unidentified substances found at the Phase One Property

The following is a description of the various points of investigation noted during the Site reconnaissance conducted for the Phase One ESA. All observations made during the Site reconnaissance are discussed in the following sections in detail regarding any findings that are relevant to identifying PCAs and APECs.

### **6.2.1 Structures and Other Improvements**

The Site is developed with a residential dwelling located on the east-northeast portion of the Site, which was reportedly constructed in approximately 1932. In addition, an associated barn and two associated sheds are located in the vicinity of the residential dwelling.

### **6.2.2 Underground Utility and Service Corridors**

Underground electrical and telecommunication lines appear to run west from County Road 65 to the on-site residential dwelling.

### **6.2.3 Storage Tanks – Above Ground and Underground**

No evidence of ASTs or USTs were observed, and TSSA records identified no ASTs or USTs for the Site. A heating oil AST was reportedly formerly present in the north portion of the basement of the residential dwelling and was removed from the Site in 2021. No evidence of the former AST was observed, and no spills or evidence of historical spills (i.e., staining) was observed in the basement level or in the vicinity of the residential dwelling. In addition, no spill records were reported for the Site. As such, this PCA does not represent an APEC for the Site.

### **6.2.4 Oil/Water Separators**

No oil/water separators were observed or reported at the Site.

### **6.2.5 Potable Water Sources**

A dug domestic supply well is located northwest of the residential dwelling and is the potable water source for the residential dwelling.





### **6.2.6 Entry and Exit Points**

The Site is accessible via an access roadway on the east portion of the Site, in the vicinity of the residential dwelling, barn and sheds.

### **6.2.7 Heating and Cooling Systems**

Heating for the residential dwelling is provided by a propane-fired furnace unit, and cooling is provided by a pad-mounted air conditioning unit. The propane is stored in two ASTs located adjacent to the north elevation of the residential dwelling since 2021. Based on the gaseous nature of the contents, propane ASTs are not considered to be PCAs under the regulation.

### **6.2.8 Drains, Pits, and Sumps**

No sumps, drains, pits, or lagoons were observed or reported at the Site.

### **6.2.9 Unidentified Substances**

No unidentified substances were observed or reported at the Site.

### **6.2.10 Current and Former Wells**

No environmental monitoring wells or additional potable drinking water wells were identified at the Site.

### **6.2.11 Septic Fields**

A septic field is present within a grassed area southwest of the residential dwelling. Signs of seepage from or damage to the septic field were not observed during the site visit.

### **6.2.12 Ground Surface Conditions**

Ground surfaces at the Site consisted primarily of treed/grassed areas and agricultural land, with the exception of a gravel access route for the residential dwelling, barn and sheds on the east portion of the Site.



### **6.2.13 Railway Lines or Spurs**

No current or former railway lines were identified at the Site.

### **6.2.14 Stained Soil, Vegetation, or Pavement**

No areas of stained soil were identified at the Site.

### **6.2.15 Stressed Vegetation**

No areas of stressed vegetation were observed on the Site.

### **6.2.16 Fill and Debris Materials**

No fill or debris materials were observed at the Site.

### **6.2.17 Unidentified and Other Hazardous Substances**

No unidentified substances were observed at the Site.

### **6.2.18 Adjacent Land Uses and Environmental Concerns**

The Site is bound by residential dwellings (and a potential commercial operation at 5992 County Road 65) and County Road 65 to the north; County Road 65 and residential dwellings/agricultural land to the east; a parking/exterior storage area, vacant forested land and agricultural land to the south; and vacant forested land to the west.

A potential automotive towing or repair/servicing facility, was observed to be located at the rear of 5992 County Road 65 (adjacent north of the Site). In addition, the ERIS report indicated repeat issues of historical spills associated with this property. Based on the above-noted information and close proximity to the Site, this PCA represents an APEC for the Site.

### **6.2.19 Enhanced Investigation Property**

The records review did not indicate the current or former presence of any on-site operations that would classify the Site as an Enhanced Investigation Property.



### 6.3 Written Description of Investigation

This Phase One ESA included a review of historical documents, an interview with a person knowledgeable about the historical and current uses of the Site, and a site reconnaissance to observe existing site conditions.

The site reconnaissance was completed by Mr. Patrick Garrett on September 7, 2022. At the time of the site reconnaissance, the Site was developed with a residential dwelling on the east-northeast portion, with an associated barn and two sheds. The remaining portions of the Site consisted of vacant undeveloped land and agricultural land, with creek running in an east-west direction intersecting the north portion of the Site. Underground electrical and telecommunication lines were observed to run west from County Road 65 to the residential dwelling. There was no evidence of pad or pole-mounted transformers observed at the Site. A pole-mounted transformer is located adjacent east of the Site (along the boulevard of County Road 65); however, as no staining or reported spills were identified in this area, this PCA does not represent an APEC for the Site. No evidence of current or historical ASTs or USTs was observed during the site visit. A former heating oil AST was removed from the residential dwelling in 2021, but this PCA does not represent an APEC based on the lack of reported spills and the fact that no spills or evidence of historical spills (i.e., staining) was observed within the basement level of the residential dwelling. In addition, no evidence of staining, stressed vegetation, or fill material was observed at the Site. Finally, there were no hazardous materials or hazardous waste streams observed.

The Site is bound by residential dwellings (and a potential commercial operation at 5992 County Road 65) and County Road 65 to the north; County Road 65 and residential dwellings/agricultural land to the east; a parking/exterior storage area, vacant forested land and agricultural land to the south; and vacant forested land to the west.

Potential occurrences of threatened and/or endangered species were identified by an MNRF search; therefore, an ANSI was considered present on the Site and within the surrounding area.



Further to the description of the investigations outlined above, the findings that are relevant to the existence of an APEC or PCA are described in Section 7.0.

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## **7.0 Review and Evaluation of Information**

### **7.1 Current and Past Uses**

The first identified use of the Site was for residential purposes prior to 1928, based on available aerial photography. An orchard was evident on the east and southeast portions of the Site in the 1928 aerial photograph and remained present until at least 1988.

For information on the current and past uses and ownership refer to Table 1.

### **7.2 Potentially Contaminating Activity**

Cambium reviewed information available for the phase one study area to identify environmental issues normally assessed in a Phase One ESA. The Phase One ESA identified five PCAs (two on-site and three off-site) within the phase one study area. Refer to Table 2 for further description of the identified PCAs and Figure 3 for locations of the identified PCAs.

### **7.3 Areas of Potential Environmental Concern**

The former on-site orchards contribute to an APEC for the Site. The former heating oil AST within the basement of the residential dwelling does not contribute to an APEC for the Site given the lack of reported spills and observations made during the site visit.

The inferred automotive towing and/or repair/servicing operation located at 5992 County Road 65 (adjacent north), as well as the reported 'oily runoff' spill and reported recurring issues of spillage at this property, represent a PCA and APEC for the Site. The former railway located 10 m south of the Site, as well as the pole-mounted oil-cooled transformer located adjacent east of the Site, do not represent APECs for the Site given the lack of reported spills and/or distance from the Site.

Refer to Table 3 for APEC details and Figure 4 for the APEC location.



## **7.4 Phase One Conceptual Site Model**

The following descriptions and discussion supplement Figure 3 and Figure 4, and together comprise the Phase One Conceptual Site Model (CSM). The purpose of the CSM is to assist the QP in illustrating the results of the Phase One ESA and to provide a basis for further work, if required.

### **7.4.1 Site Description**

The Site is located west of the intersection between County Road 65 and Mastwood Road in Port Hope, Ontario. The legal description of the Site is Part Lot 27, Concession 5, Hope Part 1, 39R8831, Port Hope. The Property Identification Number (PIN) is 51057-0110 (LT). The Universal Transverse Mercator (UTM) coordinates for the centroid for the Site are Zone 17 T, 705624 m east and 4875884 m north. The roughly 30.9 ha Site is bound by residential dwellings (and a potential commercial operation at 5992 County Road 65) and County Road 65 to the north; County Road 65 and residential dwellings/agricultural land to the east; a parking/exterior storage area, vacant forested land and agricultural land to the south; and vacant forested land to the west.

### **7.4.2 Existing Buildings and Structures**

The Site is developed with a residential dwelling located on the east-northeast portion of the Site, which was reportedly constructed in approximately 1932. In addition, an associated barn and two associated sheds are located in the vicinity of the residential dwelling.

### **7.4.3 Water Bodies and Areas of Natural Significance**

A creek running in an east-west direction intersects the north portion of the Site and as such, the Site is within 30 m of a water body, as defined in O.Reg. 153/04.

Based on a review of the Ministry of Natural Resources and Forestry's Make a Map: Natural Heritage Areas web site, ANSIs were identified within the phase one study area, including endangered or threatened species and the Osaca – Ganaraska River and Osaca Wetland.



#### 7.4.4 Drinking Water Wells

A dug domestic supply well is located northwest of the residential dwelling and is the potable water source for the residential dwelling.

A search of the Ministry Water Well Information System by ERIS identified one record for an on-site water well (detailed above) and six water well records within the phase one study area ranging from about 45 m to 245 m from the Site. The wells were identified as domestic supply wells.

#### 7.4.5 Potentially Contaminating Activities

Based on the records review, site reconnaissance, and interviews, seven PCAs (three on-site and four off-site) within the phase one study area. Refer to Table 2 for further description of the identified PCAs and Figure 3 for locations of the identified PCAs.

The Phase One ESA identified one PCA on-site:

**PCA 1** – On-site: Former orchards on the east, southeast and central portions of the Site from at least 1928 until 1988; #40 Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

This on-site PCA contributes to an APEC.

The Phase One ESA identified two off-site PCAs that represent APECs for the Site:

**PCA 3** – Off-site: Inferred towing operation and/or automotive repair/servicing garage at 5992 County Road 65, and recurring reported spills at this property (adjacent north of the Site); #27 Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles

Three additional PCAs (one on-site and two off-site) were identified; however, based on the observations made during the site visit, lack of reported spills, and/or distance from the Site, these PCAs do not represent APECs for the Site.

#### 7.4.6 Area of Potential Environmental Concern

As noted above, the following APECs were identified for the Site:



**APEC 1** – East, northeast and central portions of the Site, associated with PCA 1, #40 Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications. COPCs include OCs, Metals, As, Sb, Se.

**APEC 2** – North portion of the Site, associated with PCA 3, #27 Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles. COPCs include OCs, Metals, As, Sb, Se.

Refer to Table 3 for APEC details and Figure 4 for the APEC locations.

#### **7.4.7 Contaminant Distribution and Transport**

Underground utilities were identified on, in, or under the Site (natural gas and telecommunications). Contaminant distribution and transport may be influenced by the presence of utility trenches.

No specific climatic or meteorological conditions were observed that may influence the distribution or migration of contaminants.

#### **7.4.8 Uncertainty or Absence of Information**

All aspects of the Phase One ESA were conducted consistent with O.Reg. 153/04, and as such, the Site was investigated thoroughly. As access to pertinent areas of the Site was possible, and adequate historical information was available through the interviewee's and the records review, uncertainty or absence of information is not expected.





## 8.0 Conclusions

The Phase One ESA conclusions regarding the current environmental conditions at the Site are based solely on the results of the document review, regulatory records review, interviews, and site reconnaissance as described in this report.

### 8.1 Requirement for a Phase Two Environmental Site Assessment

Based on the observations and information obtained for the Site and phase one study area, a Phase Two ESA is required at the Site.

### 8.2 Signatures

This Phase One ESA was completed by Mr. Kurt Frommann, B.A., EMAPG, under the direct supervision of Alex Wood, P.Eng., QP<sub>ESA</sub>, as per O.Reg. 153/04. Information presented in this report is true and accurate to the best of the assessors' knowledge.

Respectfully submitted,

**Cambium Inc.**

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Kurt Frommann, B.A., EMAPG  
Project Manager

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Alex Wood, P.Eng., QP<sub>ESA</sub>  
Project Manager

## 9.0 References

- Chapman, L., & Putnam, D. (1984). *The Physiographic Regions of Southern Ontario, Third Edition*. Ontario Ministry of Natural Resources.
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## 10.0 Standard Limitations

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### Site Assessments

A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Cambium's work or report considers any locations or times other than those from which information, sample results and data was specifically received, the work or report is based on a reasonable extrapolation from such information, sample results and data but the actual conditions encountered may vary from those extrapolations.

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**Appended Figures**

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**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
HILLSTREET DEVELOPMENTS LTD.  
5868 County Road 65,  
Port Hope, Ontario

**LEGEND**

-  Highway
-  Major Road
-  Minor Road
-  Railroad
-  Watercourse
-  Water Area
-  Wooded Area
-  Built Up Area

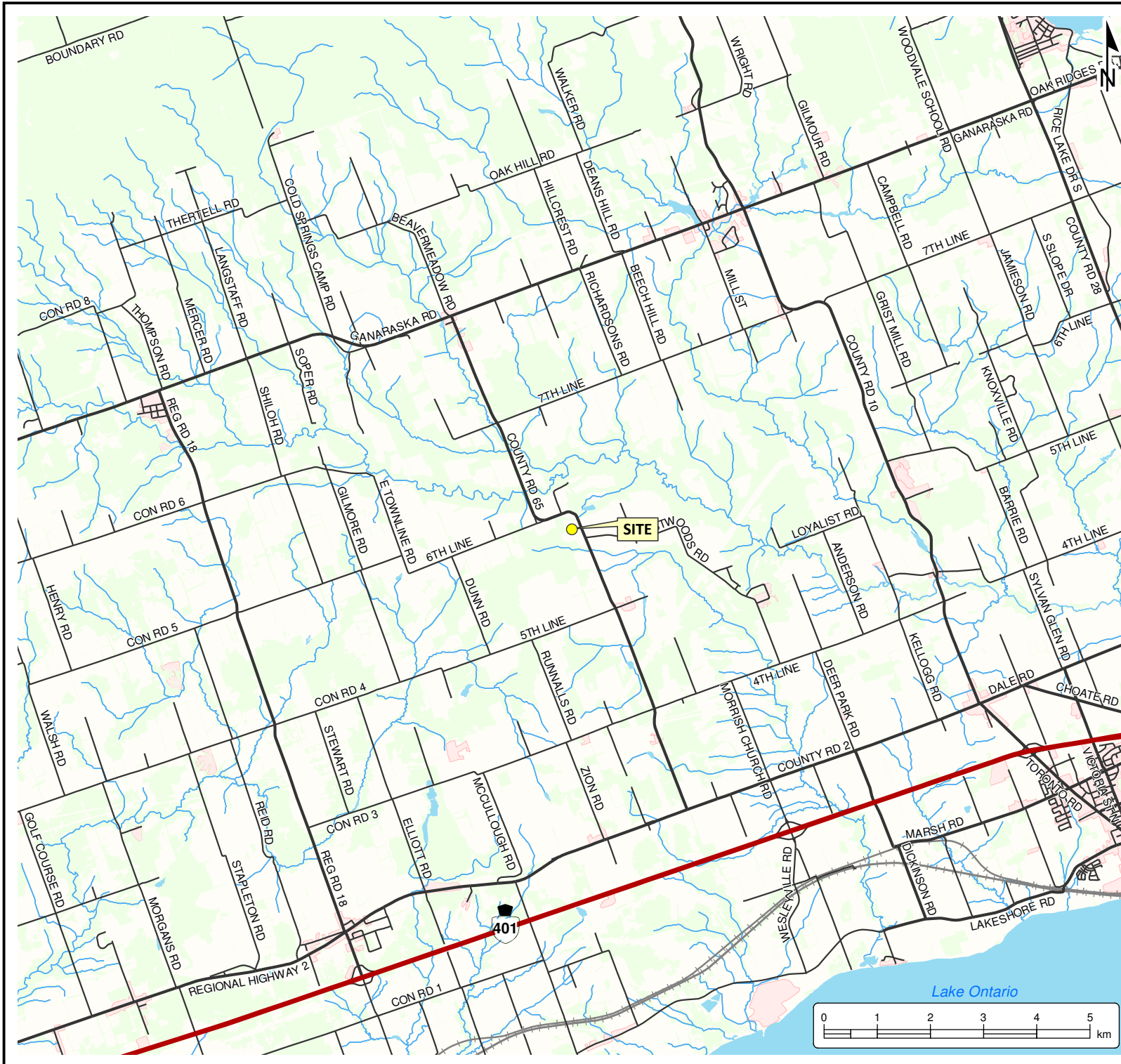
**Notes:**  
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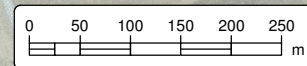
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**SITE LOCATION MAP**

Project No.: 15091-001	Date: September 2022
Scale: 1:100,000	Projection: NAD 1983 UTM Zone 17N
Created by: MAT	Checked by: CW
Figure: <b>1</b>	



O:\GIS\MXD\15000-15099\15091-001 HillstreetDevelopment - PH One ESA - 5868 Cty Rd 65, Port Hope\2022-09-15 FIG 2 - Site Plan and Surrounding Land Use.mxd



**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
HILLSTREET DEVELOPMENTS LTD.  
5868 County Road 65,  
Port Hope, Ontario

**LEGEND**

Site (approximate)

LAND USE

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**SITE PLAN AND  
SURROUNDING LAND USE**

Project No.:	15091-001	Date:	September 2022
Scale:	1:7,500	Rev.:	
Created by:	MAT	Projection:	NAD 1983 UTM Zone 17N
Checked by:	CW	Figure:	<b>2</b>

O:\GIS\XDS\15000-15099\15091-001 Hillstreet Development - PH One ESA - 5868 Cty Rd 65, Port Hope\2022-09-15 FIG 3 - CSM - Phase One Study Area.mxd



**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT**  
 HILLSTREET DEVELOPMENTS LTD.  
 5868 County Road 65,  
 Port Hope, Ontario

**LEGEND**

- 250m Study Area
- Site (approximate)

**Potentially Contaminating Activities:**

- Does Not Contribute to APECs
- Contributes to APECs

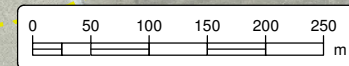
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**CONCEPTUAL SITE MODEL - PHASE ONE STUDY AREA**

Project No.:	15091-001	Date:	September 2022
Scale:	1:6,500	Rev.:	
Created by:	MAT	Checked by:	CW
		Figure:	<b>3</b>





**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
 HILLSTREET DEVELOPMENTS LTD.  
 5868 County Road 65,  
 Port Hope, Ontario

**LEGEND**

- Site (approximate)
- Areas of Potential Environmental Concern:**
- APEC 1
- APEC 2

**Notes:**

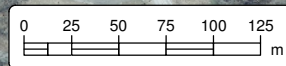
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**CONCEPTUAL SITE MODEL -  
PHASE ONE SITE PLAN**

Project No.:	15091-001	Date:	September 2022
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Created by:	MAT	Checked by:	CW
		Figure:	<b>4</b>







**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
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 Port Hope, Ontario

**LEGEND**

Site (approximate)

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**1928 AERIAL IMAGERY**


Project No.:	15091-001	Date:	September 2022
Scale:	1:7,500	Rev.:	
Created by:	MAT	Checked by:	CW
		Figure:	<b>5</b>

O:\GIS\MXDs\15000-15099\15091-1001 HillstreetDevelopment - PH One ESA - 5868 Cty Rd 65, Port Hope\2022\09-15 FIG 6 - 1959 Aerial Imagery.mxd



**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
HILLSTREET DEVELOPMENTS LTD.  
5868 County Road 65,  
Port Hope, Ontario

**LEGEND**

 Site (approximate)

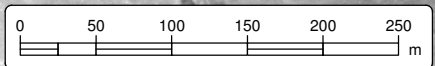
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**1959 AERIAL IMAGERY**

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		Figure:	<b>6</b>





**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
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5868 County Road 65,  
Port Hope, Ontario

**LEGEND**

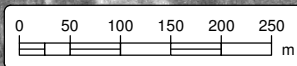
Site (approximate)

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**1965 AERIAL IMAGERY**



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Created by:	MAT	Projection:	NAD 1983 UTM Zone 17N
Checked by:	CW	Figure:	<b>7</b>

O:\GIS\MXDs\15000-15091\15091-001 HillstreetDevelopment - PH One ESA - 5868 Cty Rd 65, Port Hope\2022-09-15 FIG 7 - 1965 Aerial Imagery.mxd



**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
HILLSTREET DEVELOPMENTS LTD.  
5868 County Road 65,  
Port Hope, Ontario

**LEGEND**

Site (approximate)

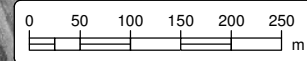
**Notes:**  
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**1974 AERIAL IMAGERY**

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Created by:	MAT	Checked by:	CW
		Figure:	<b>8</b>





**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
HILLSTREET DEVELOPMENTS LTD.  
5868 County Road 65,  
Port Hope, Ontario

**LEGEND**

Site (approximate)

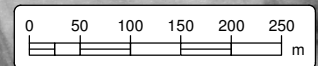
**Notes:**  
 - Imagery was obtained from the National Air Photo Library of Canada.  
 - Base mapping features are © Queen's Printer of Ontario, 2019 (this does not constitute an endorsement by the Ministry of Natural Resources or the Ontario Government).  
 - Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.  
 - Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

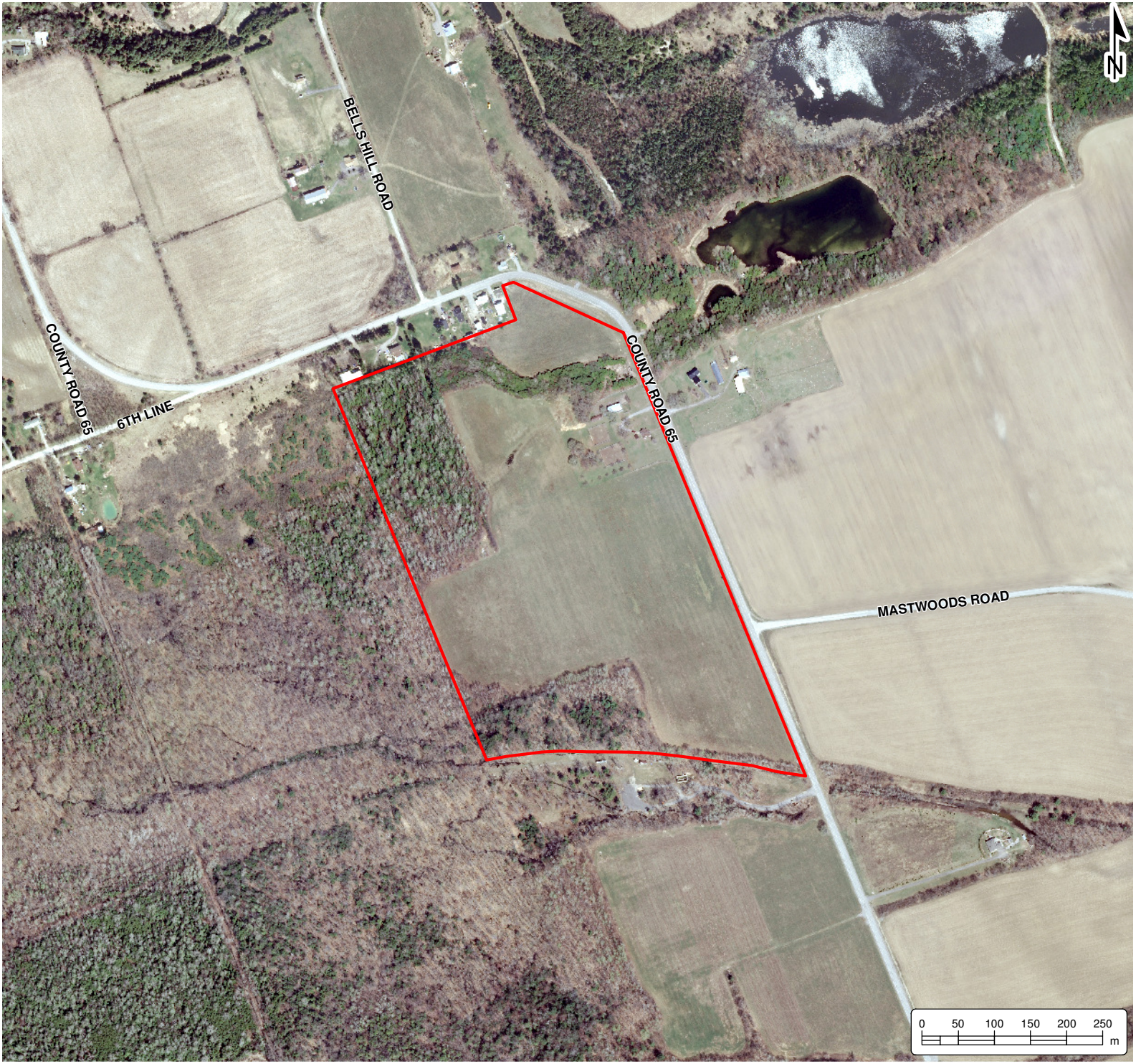


194 Sophia Street  
 Peterborough, Ontario, K9H 1E5  
 Tel: (705) 742.7900 Fax: (705) 742.7907  
 www.cambium-inc.com

**1988 AERIAL IMAGERY**


Project No.:	15091-001	Date:	September 2022
Scale:	1:7,500	Rev.:	
Created by:	MAT	Checked by:	CW
		Figure:	<b>9</b>





**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
 HILLSTREET DEVELOPMENTS LTD.  
 5868 County Road 65,  
 Port Hope, Ontario

**LEGEND**

 Site (approximate)

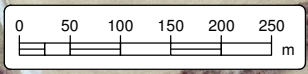
**Notes:**  
 - Imagery was obtained from the County of Northumberland online GIS database.  
 - Base mapping features are © Queen's Printer of Ontario, 2019 (this does not constitute an endorsement by the Ministry of Natural Resources or the Ontario Government).  
 - Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.  
 - Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

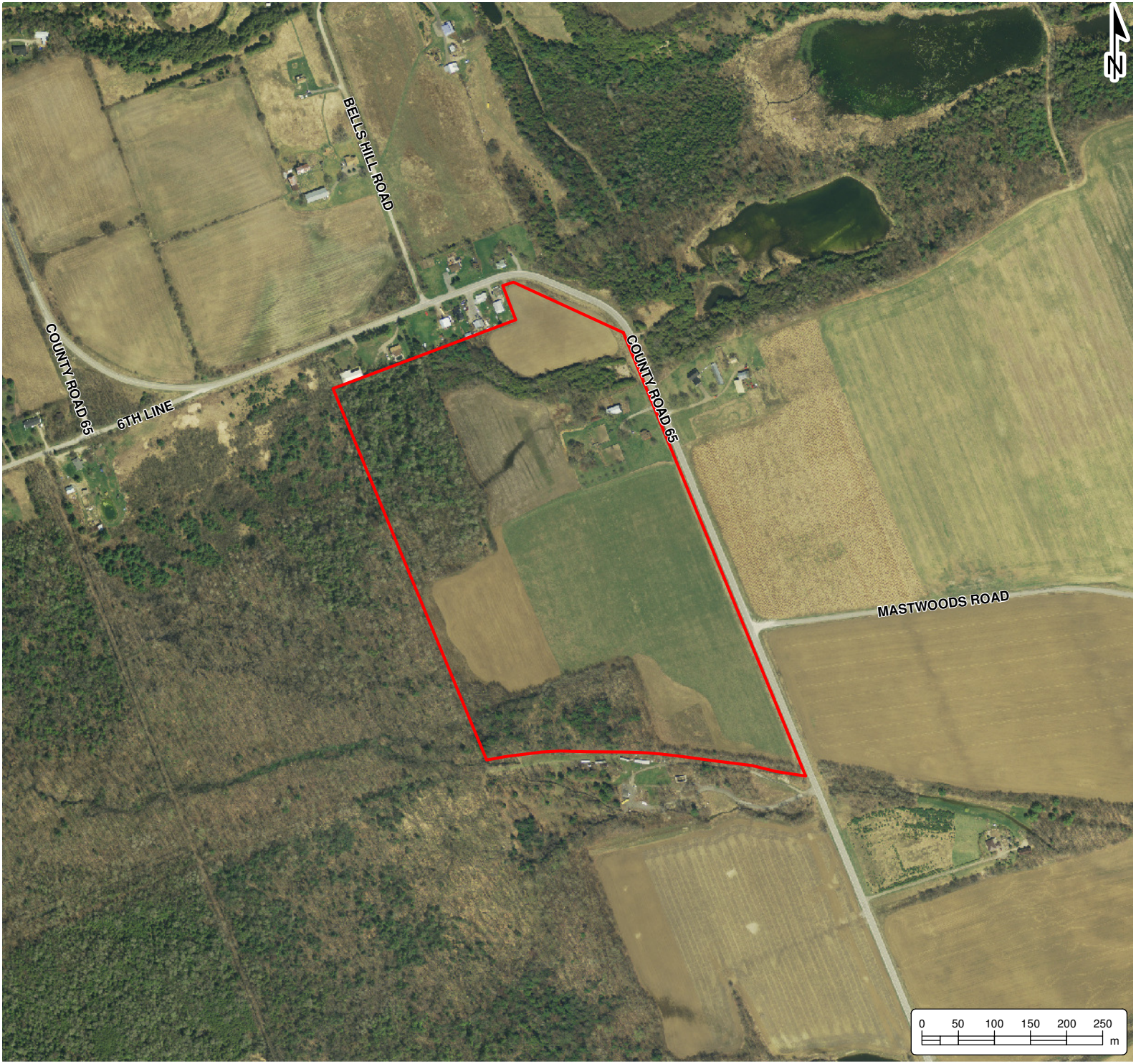


194 Sophia Street  
 Peterborough, Ontario, K9H 1E5  
 Tel: (705) 742.7900 Fax: (705) 742.7907  
 www.cambium-inc.com

**2008 AERIAL IMAGERY**

Project No.:	15091-001	Date:	September 2022
Scale:	1:7,500	Rev.:	
Created by:	MAT	Projection:	NAD 1983 UTM Zone 17N
Checked by:	CW	Figure:	<b>10</b>





**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
HILLSTREET DEVELOPMENTS LTD.  
5868 County Road 65,  
Port Hope, Ontario

**LEGEND**

Site (approximate)

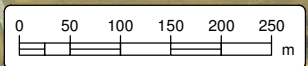
**Notes:**  
 - Imagery was obtained from the County of Northumberland online GIS database.  
 - Base mapping features are © Queen's Printer of Ontario, 2019 (this does not constitute an endorsement by the Ministry of Natural Resources or the Ontario Government).  
 - Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.  
 - Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.



194 Sophia Street  
 Peterborough, Ontario, K9H 1E5  
 Tel: (705) 742.7900 Fax: (705) 742.7907  
 www.cambium-inc.com

**2013 AERIAL IMAGERY**

Project No.:	15091-001	Date:	September 2022
Scale:	1:7,500	Rev.:	
Created by:	MAT	Checked by:	CW
Figure:	<b>11</b>		





**PHASE ONE  
ENVIRONMENTAL  
SITE ASSESSMENT**  
HILLSTREET DEVELOPMENTS LTD.  
5868 County Road 65,  
Port Hope, Ontario

**LEGEND**

Site (approximate)

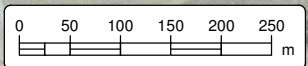
**Notes:**  
 - Imagery was obtained from the County of Northumberland online GIS database.  
 - Base mapping features are © Queen's Printer of Ontario, 2019 (this does not constitute an endorsement by the Ministry of Natural Resources or the Ontario Government).  
 - Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.  
 - Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.



194 Sophia Street  
 Peterborough, Ontario, K9H 1E5  
 Tel: (705) 742.7900 Fax: (705) 742.7907  
 www.cambium-inc.com

**2018 AERIAL IMAGERY**

Project No.:	15091-001	Date:	September 2022
Scale:	1:7,500	Rev.:	
Created by:	MAT	Checked by:	CW
Figure:	<b>12</b>		







**DRAFT**

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**Appended Tables**

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**Table 1 - Current and Past Uses**

Year	Name of Owner	Description of Property Use	Property Use <sup>1</sup>	Other Observations <sup>2</sup>
Pre 2005	Unknown	Vacant/Residential/Agricultural	Vacant/Residential/Agricultural	Based on information provided by the site representatives, as well as aerial photographs dated 1974, 1988 and 2008 showing the property to be developed with a residential dwelling, and orchards present on-site in the 1974 and 1988 aerial photographs.
2005	Glenn Thomas Rankin, and Deborah Ann Smithson	Vacant/Residential/Agricultural	Vacant/Residential/Agricultural	Same as above.
2019	Glenn Thomas Rankin, Deborah Ann Smithson, and Audrey West	Vacant/Residential	Vacant/Residential	Based on information provided by the site representatives, as well as aerial photographs dated 2018 showing the property to be developed with a residential dwelling on otherwise vacant land.

Notes:

1. Specific Types of Property Use as defined by O. Reg. 153/04, as amended
2. Other observations are obtained from aerial photographs, records review, etc.



**Table 2: Potential Contaminating Activities**

Potentially Contaminating Activity (PCA)		Location of PCA	PCA Description	APEC?	Contaminants of Potential Environmental Concern	Media Potentially Impacted (Groundwater or Soil)
1	Former orchards on the east, southeast and central portions of the Site from at least 1928 until 1988	On-site: East, southeast and central portions of the Site	Item 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	YES	OCs, Metals, As, Sb, Se.	Soil
2	Former heating oil AST in the basement level of the residential dwelling	On-site: North portion of the basement level of the on-site residential dwelling	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	NO	PHCs, BTEX, PAHs	Soil
3	Inferred automotive towing and/or automotive repair/servicing operations at 5992 County Road 65, and recurring reported spills at this property	Off-site: Adjacent north property	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	YES	PHCs, BTEX	Soil
4	Former railway line running in an east-west direction south of the Site from at least 1928 until 1974	Off-site: Approximately 10 m south	Item 46 - Rail Yards, Tracks and Spurs	NO	PAHs, PHCs, BTEX, Metals, Cr(IV), Hg, B-HWS, pH, CN-, EC, SAR	Soil
5	Pole-mounted oil-cooled transformer located east of the Site	Off-site: Adjacent east of the Site (on boulevard).	Item 55 - Transformer Manufacturing, Processing and Use	NO	PHCs, PAHs and PCBs	Groundwater

Notes:

1. Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in the phase one study area.



**Table 3: Areas of Potential Environmental Concern**

Area of Potential Environmental Concern (APEC) <sup>1</sup>	Location of APEC on the Phase One Property	Potentially Contaminating Activity <sup>2</sup>	Location of PCA (on-site or off-site)	Contaminants of Potential Concern <sup>3</sup>	Media Potentially Impacted (Groundwater, soil, and/or sediment)
Former on-site orchards	East, southeast and central portions of the Site	1 Item 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-site	OCs, Metals, As, Sb, Se	Soil
Inferred automotive towing and/or repair/servicing operations at 5992 County Road 65, and recurring reported spills at this property	North portion of the Site	3 Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-site	PHCs (F1-F4) and BTEX	Soil

Notes:

1. Area of Potential Environmental Concern means the area on, in, or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment.
2. Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area.
3. Method groups as defined in Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011.

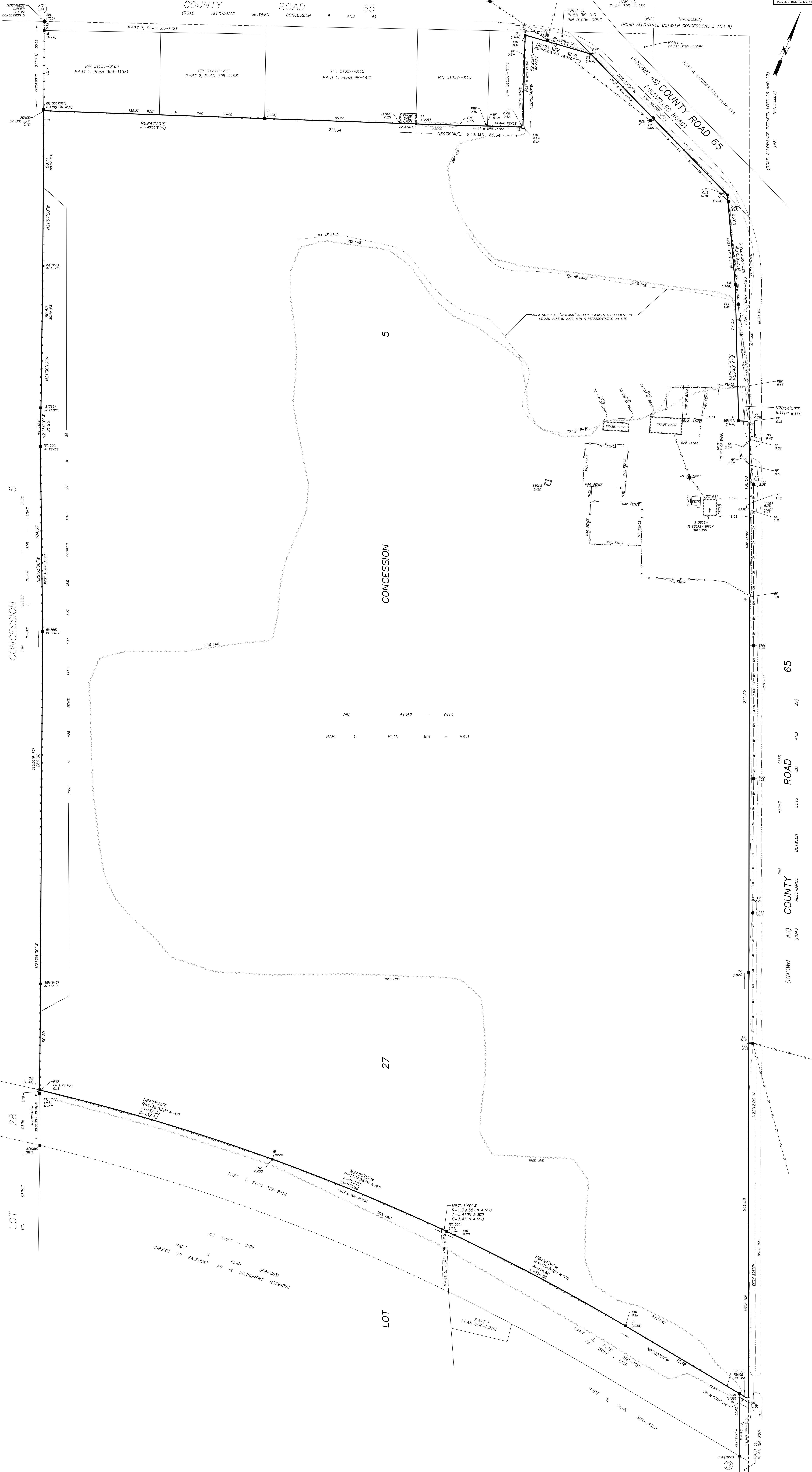
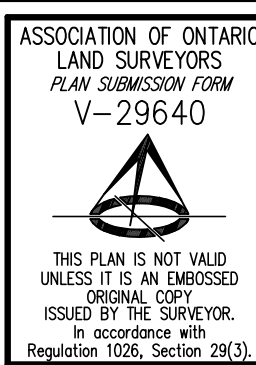


**DRAFT**

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**Appendix A**  
**Plan of Survey**

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**BEARING NOTES**  
 BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A AND B, BY REAL TIME NETWORK OBSERVATIONS, UTM ZONE 17 (81° WEST LONGITUDE), NAD83(CSRS)(2011).  
 FOR BEARING COMPARISONS, THE FOLLOWING ROTATIONS WERE APPLIED:  
 P1 - 1°46'40" COUNTER-CLOCKWISE

**DISTANCE NOTES - METRIC**  
 DISTANCES AND COORDINATES ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.  
 DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 1.000099.

**CAUTION**  
 THE WORK AND DRAWINGS HEREIN WERE COMPLETED FOR THE EXCLUSIVE USE OF OUR CLIENT AND NO LIABILITY IS ASSUMED TO ANY THIRD PARTIES OR SUBSEQUENT OWNERS.

- LEGEND**
- DENOTES SURVEY MONUMENT FOUND
  - DENOTES SURVEY MONUMENT SET
  - SSIB DENOTES SHORT STANDARD IRON BAR
  - SIB DENOTES STANDARD IRON BAR
  - IB DENOTES IRON BAR
  - WIT DENOTES WITNESS
  - W DENOTES MEASURED
  - P1 DENOTES PLAN 39R-8831
  - P2 DENOTES PLAN 39R-11581
  - P3 DENOTES PLAN 39R-14367
  - P4 DENOTES PLAN 39R-8612
  - P5 DENOTES PLAN 9R-1421
  - P6 DENOTES PLAN 39R-13373
  - P7 DENOTES PLAN 9R-190
  - 765 DENOTES HORTON, WALLACE & DAVES LTD., O.L.S.
  - 1006 DENOTES H. FLEM, O.L.S.
  - 1056 DENOTES IVAN B. WALLACE O.L.S. LTD.
  - 1156 DENOTES M. D. BROWN LTD., O.L.S.
  - 1943 DENOTES KAD LANKA SURVING INC., O.L.S.
- ← AN DENOTES ANCHOR POINT  
 BF DENOTES BOARD FENCE  
 PWF DENOTES POST & WIRE FENCE  
 RF DENOTES RAIL FENCE  
 ○ POMB DENOTES POST MAILBOX  
 ● POUV DENOTES UTILITY POLE  
 ■ TB DENOTES TERMINAL BOX  
 -OH- DENOTES OVERHEAD UTILITY WIRES

BUILDING TIES SHOWN HEREON ARE TO THE FOUNDATION UNLESS OTHERWISE NOTED.  
 ALL BEARINGS AND DISTANCES AGREE WITH CITED PLANS UNLESS OTHERWISE NOTED.

**SURVEYOR'S CERTIFICATE**  
 I CERTIFY THAT:  
 1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT AND THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.  
 2. THE SURVEY WAS COMPLETED ON JULY 13, 2022.

JULY 19, 2022  
 DATE ALYON ROBINSON, O.L.S.

**INTEGRATION DATA**

OBSERVED REFERENCE POINTS DERIVED FROM GPS OBSERVATIONS USING A REAL TIME NETWORK AND ARE REFERRED TO UTM ZONE 17 (81° WEST LONGITUDE) NAD83(CSRS)(2011).

URBAN ACCURACY PER SEC. 14(2), OREG. 216/10

POINT ID	NORTHING	EASTING
A	4875600.92	70557.86
B	4875411.34	70530.14

OTHER COORDINATE SYSTEMS, IF APPLICABLE, ARE LISTED IN THE PLAN OR OTHERWISE SHOWN ON THE PLAN





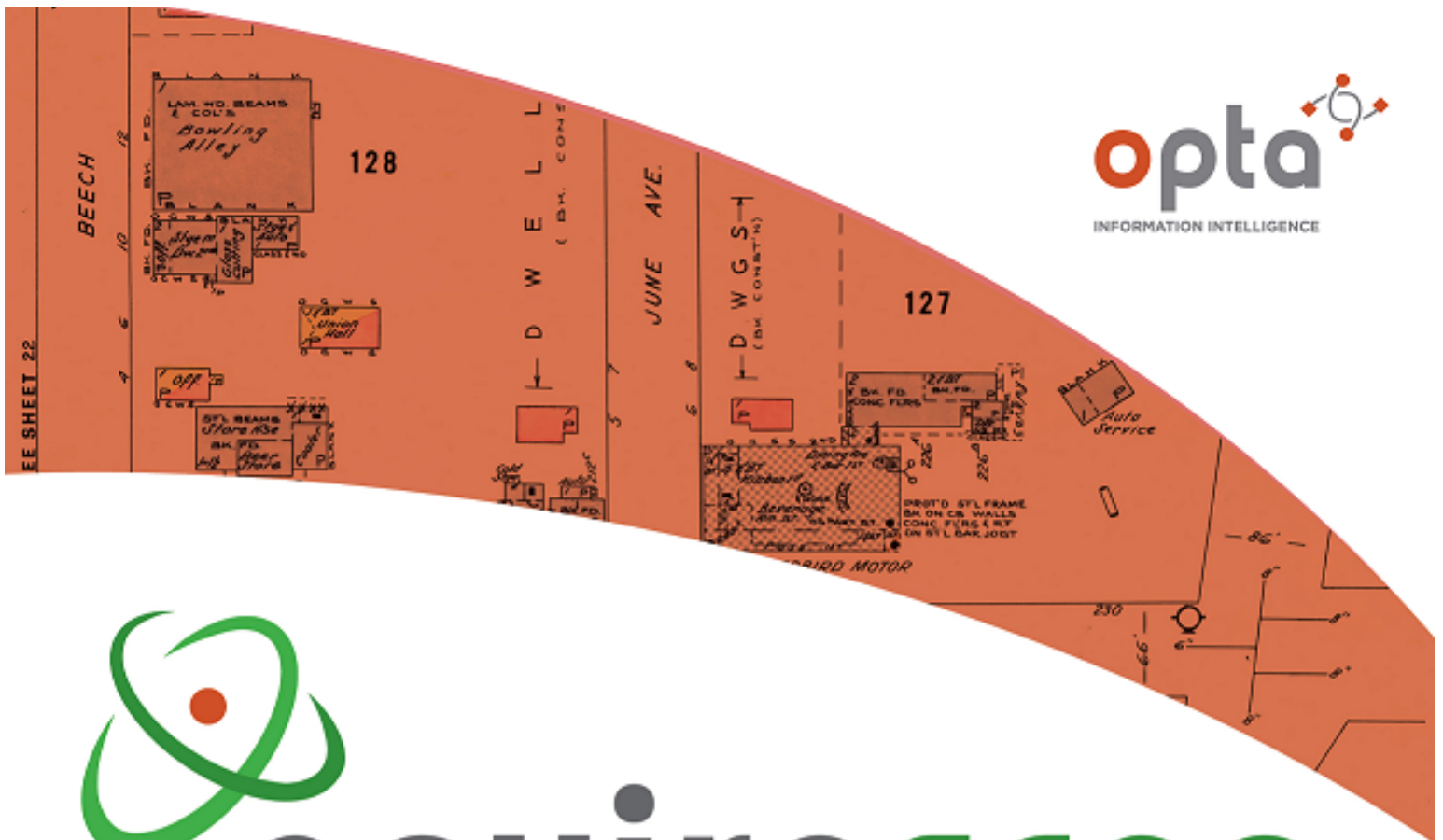
**DRAFT**

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**Appendix B**

**Opta**

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enviroscan



An SCM Company

175 Commerce Valley Drive W  
Markham, Ontario L3T 7Z3

T: 905-882-6300  
W: [www.optaintel.ca](http://www.optaintel.ca)

Report Completed By:

Midori

Site Address:

5868 County Road 65, Port Hope, ON

Project No:

22083104955

Opta Order ID:

113810

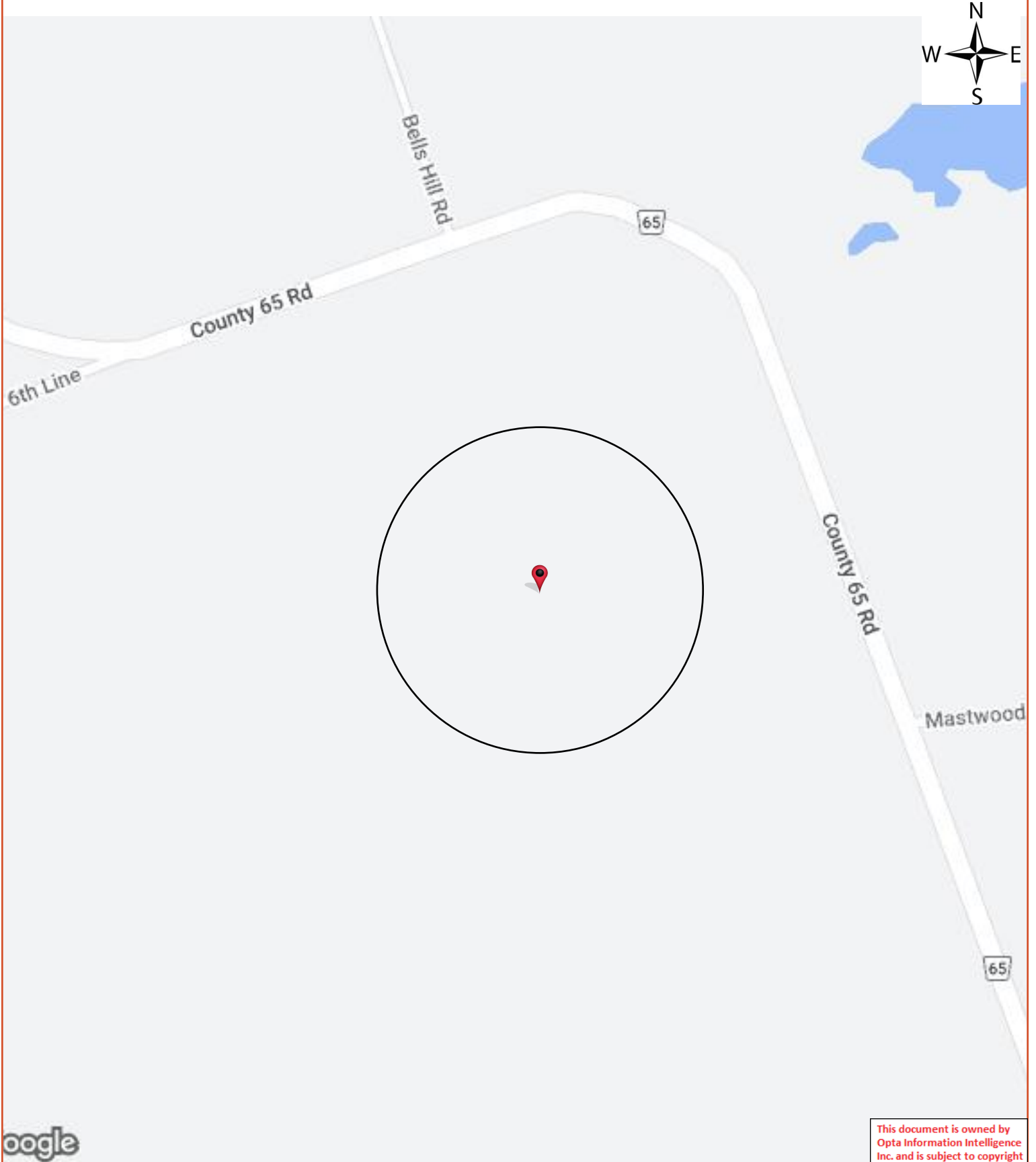
Requested by:

Eleanor Goolab  
ERIS

Date Completed:

9/7/2022 6:59:03 AM





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# Opta Historical Environmental Services Enviroscan<sup>TM</sup> Terms and Conditions

## Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

## 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.

No Records Found

Requested by:  
Eleanor Goolab

Date Completed: 09/07/2022 06:59:03



OPTA INFORMATION INTELLIGENCE

No Records Found





**DRAFT**

---

**Appendix C**  
**Parcel Registry**

---

PROPERTY DESCRIPTION: PT LT 27 CON 5 HOPE PT 1 39R8831; PORT HOPE

PROPERTY REMARKS:

ESTATE/QUALIFIER:  
FEE SIMPLE  
LT CONVERSION QUALIFIED

RECENTLY:  
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:  
2008/05/26

OWNERS' NAMES  
RANKIN, GLENN THOMAS  
SMITHSON, DEBORAH ANN  
WEST, AUDREY

CAPACITY SHARE  
JTEN  
JTEN  
JTEN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2008/05/23 **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES * AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 2008/05/26 **						
9R820	1976/11/24	PLAN REFERENCE				C
39R8831	1999/08/05	PLAN REFERENCE				C
NC359362	2005/04/29	TRANSFER		*** COMPLETELY DELETED ***	RANKIN, GLENN THOMAS SMITHSON, DEBORAH ANN	
NC359363	2005/04/29	CHARGE		*** COMPLETELY DELETED ***	THE TORONTO-DOMINION BANK	
NC384559	2007/05/31	CHARGE		*** COMPLETELY DELETED ***	THE TORONTO-DOMINION BANK	
ND48074	2010/06/24	CHARGE		*** COMPLETELY DELETED *** RANKIN, GLENN THOMAS SMITHSON, DEBORAH ANN	WYANT, ALLEN WYANT, MARY	

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.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
ND48076	2010/06/24	DISCH OF CHARGE		*** COMPLETELY DELETED *** THE TORONTO-DOMINION BANK		
	<i>REMARKS: NC359363.</i>					
ND58825	2011/03/21	CHARGE		*** COMPLETELY DELETED *** RANKIN, GLENN THOMAS SMITHSON, DEBORAH ANN	CIBC MORTGAGES INC., TRADING AS FIRSTLINE MORTGAGES	
ND58842	2011/03/21	DISCH OF CHARGE		*** COMPLETELY DELETED *** WYANT, ALLEN WYANT, MARY		
	<i>REMARKS: ND48074.</i>					
ND64903	2011/08/10	DISCH OF CHARGE		*** COMPLETELY DELETED *** THE TORONTO-DOMINION BANK		
	<i>REMARKS: NC384559.</i>					
ND99762	2014/01/24	CHARGE		*** COMPLETELY DELETED *** RANKIN, GLENN THOMAS SMITHSON, DEBORAH ANN	606950 ONTARIO INC.	
ND173967	2018/10/30	CHARGE		*** COMPLETELY DELETED *** RANKIN, GLENN THOMAS SMITHSON, DEBORAH ANN	WARD, DAVID	
ND173998	2018/10/31	DISCH OF CHARGE		*** COMPLETELY DELETED *** 606950 ONTARIO INC.		
	<i>REMARKS: ND99762.</i>					
ND192249	2019/12/20	TRANSFER	\$2	RANKIN, GLENN THOMAS SMITHSON, DEBORAH ANN	RANKIN, GLENN THOMAS SMITHSON, DEBORAH ANN WEST, AUDREY	C
ND192250	2019/12/20	CHARGE	\$405,000	RANKIN, GLENN THOMAS SMITHSON, DEBORAH ANN WEST, AUDREY	CANADIAN IMPERIAL BANK OF COMMERCE	C
ND192291	2019/12/20	DISCH OF CHARGE		*** COMPLETELY DELETED *** WARD, DAVID		
	<i>REMARKS: ND173967.</i>					
ND193006	2020/01/14	DISCH OF CHARGE		*** COMPLETELY DELETED ***		

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.

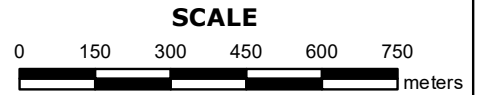
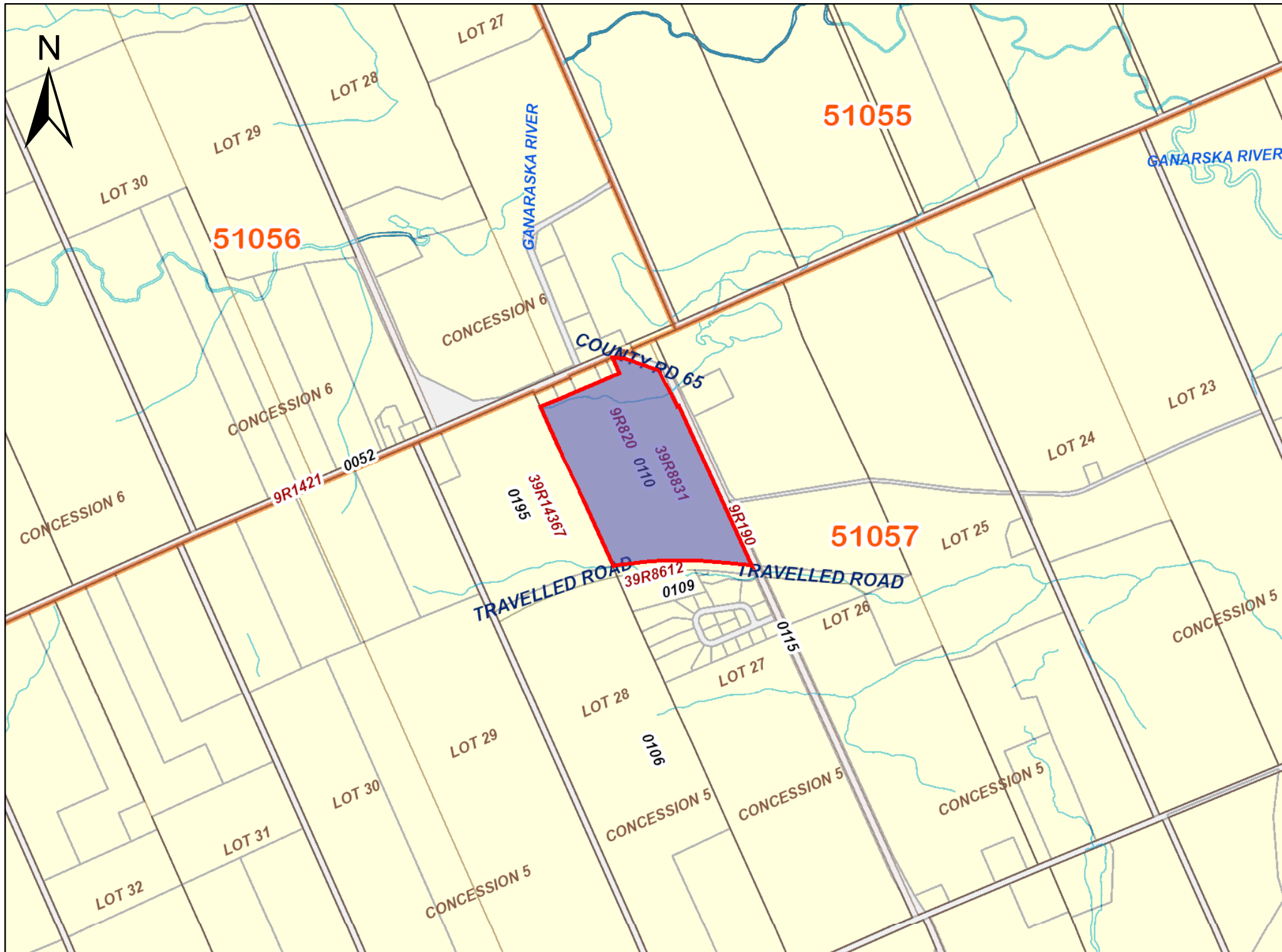
LAND  
 REGISTRY  
 OFFICE #39

51057-0110 (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
REMARKS: ND58825.				CIBC MORTGAGES INC., TRADING AS FIRSTLINE MORTGAGES		

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.



**PROPERTY INDEX MAP**  
NORTHUMBERLAND(No. 39)

**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







**DRAFT**

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**Appendix D**  
**City Directories**

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**ERIS**  
ENVIRONMENTAL RISK INFORMATION SERVICES



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CITY  
**DIRECTORY**

**Project Property:** *5868 County Road 65, Port Hope, ON*  
**Report Type:** *City Directory*  
**Order No:** *22083104955*  
**Information Source:** *Polk's Durham Region ON CC*  
**Date Completed:** *September 14, 2022*

**Environmental Risk Information Services**

A division of Glacier Media Inc.

1.866.517.5204 | [info@erisinfo.com](mailto:info@erisinfo.com) | [erisinfo.com](http://erisinfo.com)

<b>City Directory Information Source</b>
Polk's Durham Region ON CC

<b>PROJECT NUMBER:</b> 22083104955	
<b>Site Address:</b>	5868 County Road 65, Port Hope, ON
<b>Year:</b> 1999	
<b>Site Listing:</b>	-Address Not Listed
<b>Adjacent Properties:</b>	
<b>County Road 65 (5420-6000)</b>	-Street Not Listed
<b>Bells Hill Road (6000-6100)</b>	-Street Not Listed
<b>6<sup>th</sup> Line Road (1290-1400)</b>	-Street Not Listed

<b>PROJECT NUMBER:</b> 22083104955	
<b>Site Address:</b>	5868 County Road 65, Port Hope, ON
<b>Year:</b> 1995	
<b>Site Listing:</b>	-Address Not Listed

<b>Adjacent Properties:</b>	
<b>County Road 65 (5420-6000)</b>	-Street Not Listed
<b>Bells Hill Road (6000-6100)</b>	-Street Not Listed
<b>6<sup>th</sup> Line Road (1290-1400)</b>	-Street Not Listed

<b>PROJECT NUMBER: 22083104955</b>	
<b>Site Address:</b>	5868 County Road 65, Port Hope, ON
<b>Year: 1975</b>	
<b>Site Listing:</b>	-Address Not Listed
<b>Adjacent Properties:</b>	
<b>County Road 65 (5420-6000)</b>	-Street Not Listed
<b>Bells Hill Road (6000-6100)</b>	-Street Not Listed
<b>6<sup>th</sup> Line Road (1290-1400)</b>	-Street Not Listed

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory.



DRAFT

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**Appendix E**  
**ERIS Report**

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# DATABASE REPORT

**Project Property:** *Phase One Environmental Site Assessment  
5868 County Road 65  
Port Hope ON L1A 3V5*

**Project No:** *15091-001*

**Report Type:** *Quote - Custom-Build Your Own Report*

**Order No:** *22083104955*

**Requested by:** *Cambium Inc.*

**Date Completed:** *September 6, 2022*

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# Executive Summary

## **Property Information:**

**Project Property:** *Phase One Environmental Site Assessment  
5868 County Road 65 Port Hope ON L1A 3V5*

**Project No:** 15091-001

## **Order Information:**

**Order No:** 22083104955  
**Date Requested:** August 31, 2022  
**Requested by:** Cambium Inc.  
**Report Type:** Quote - Custom-Build Your Own Report

## **Historical/Products:**

**City Directory Search** *CD - Subject Site plus 250m Radius*  
**ERIS Xplorer** [ERIS Xplorer](#)  
**Insurance Products** *Fire Insurance Maps/Inspection Reports/Site Plans*  
**Land Title Search** *Historical Land Title Search*  
**Topographic Map** *ANSI Map & Ontario Base Map (OBM)*



## Executive Summary: Report Summary

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.25km</b>	<b>Total</b>
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 &amp; Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	0	0	0
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	0	0	0
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 &amp; 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

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.25km</b>	<b>Total</b>
IAFT	<i>Indian &amp; 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 &amp; Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense &amp; Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence &amp; 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	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
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	1	6	7
<b>Total:</b>			<b>1</b>	<b>8</b>	<b>9</b>

## Executive Summary: Site Report Summary - Project Property

<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>
<a href="#">1</a>	WWIS		lot 27 con 5 ON  <i>Well ID:</i> 1902083	NNE/0.0	-2.70	<a href="#">13</a>

## 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>
<a href="#">2</a>	SPL	s.21; s.21	5992 County Road 65; 5996 County Road 65 Port Hope; Port Hope ON	N/31.1	0.62	<a href="#">16</a>
<a href="#">2</a>	SPL	s.21	5992 County 65 Rd; 5996 County 65 Rd Port Hope; Port Hope ON	N/31.1	0.62	<a href="#">16</a>
<a href="#">3</a>	WWIS		lot 27 con 5 ON <b>Well ID:</b> 4511022	NNW/46.8	0.81	<a href="#">17</a>
<a href="#">4</a>	WWIS		lot 26 con 5 ON <b>Well ID:</b> 4511834	ESE/100.7	-2.02	<a href="#">20</a>
<a href="#">5</a>	WWIS		5280 COUNTY RD 65 lot 27 con 5 Port Hope ON <b>Well ID:</b> 7314568	SE/113.1	-1.04	<a href="#">23</a>
<a href="#">6</a>	WWIS		lot 27 con 5 ON <b>Well ID:</b> 7295687	SSE/128.7	-0.07	<a href="#">29</a>
<a href="#">7</a>	WWIS		5280 COUNTY RD 65 lot 27 con 5 Port Hope ON <b>Well ID:</b> 7314569	SE/224.1	-0.66	<a href="#">30</a>
<a href="#">8</a>	WWIS		5280 COUNTY RD 65 lot 27 con 5 Port Hope ON <b>Well ID:</b> 7314570	SSE/244.3	-0.19	<a href="#">36</a>

# Executive Summary: Summary By Data Source

## **SPL - Ontario Spills**

A search of the SPL database, dated 1988-Sep 2020; Dec 2020-Mar 2021 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

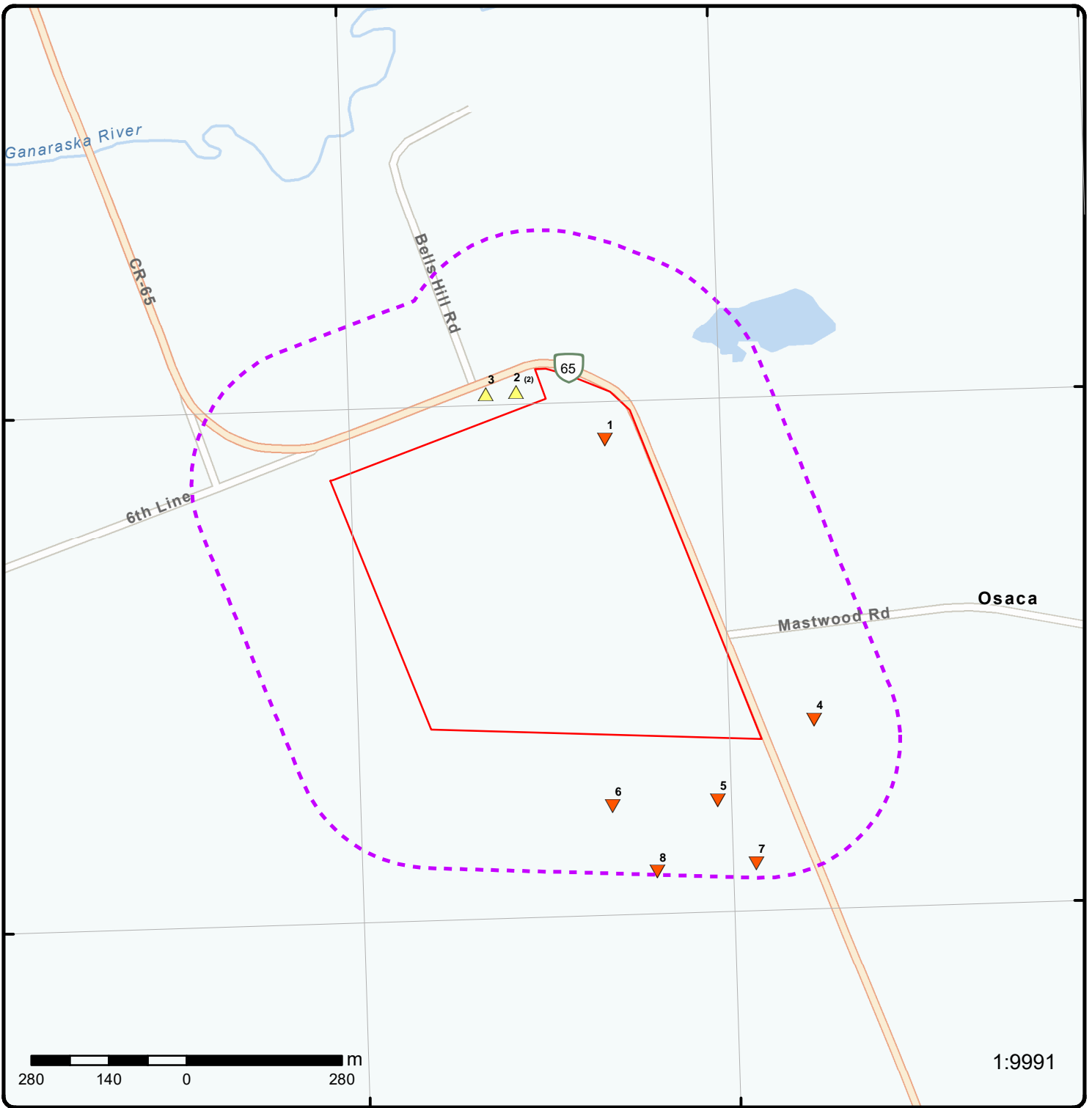
<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
s.21	5992 County 65 Rd; 5996 County 65 Rd Port Hope; Port Hope ON	31.1	<a href="#"><u>2</u></a>
s.21; s.21	5992 County Road 65; 5996 County Road 65 Port Hope; Port Hope ON	31.1	<a href="#"><u>2</u></a>

## **WWIS - Water Well Information System**

A search of the WWIS database, dated Jan 31, 2022 has found that there are 7 WWIS site(s) within approximately 0.25 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	lot 27 con 5 ON  <i>Well ID:</i> 1902083	0.0	<a href="#"><u>1</u></a>
	lot 27 con 5 ON  <i>Well ID:</i> 4511022	46.8	<a href="#"><u>3</u></a>
	lot 26 con 5 ON  <i>Well ID:</i> 4511834	100.7	<a href="#"><u>4</u></a>
	5280 COUNTY RD 65 lot 27 con 5 Port Hope ON  <i>Well ID:</i> 7314568	113.1	<a href="#"><u>5</u></a>
	lot 27 con 5 ON  <i>Well ID:</i> 7295687	128.7	<a href="#"><u>6</u></a>
	5280 COUNTY RD 65 lot 27 con 5 Port Hope ON	224.1	<a href="#"><u>7</u></a>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 7314569		
	5280 COUNTY RD 65 lot 27 con 5 Port Hope ON	244.3	<u>8</u>
	<i>Well ID:</i> 7314570		



### Map: 0.25 Kilometer Radius

Order Number: 22083104955  
Address: 5868 County Road 65, Port Hope, ON



Project Property	Freeways; Highways	Beach	Shopping & Sports Area
Buffer Outline	Traffic Circle; Ramp	Airport	University/College
Eris Sites with Higher Elevation	Major Arterial; Minor Arterial	Industrial Area	Cemetery; Golf Course
Eris Sites with Same Elevation	Local Road	Military Base	Parkt (National)
Eris Sites with Lower Elevation	Service Road; Traffic Circle; Ramp	Aircraft Roads	Park (City/County)
Eris Sites with Unknown Elevation	Rail	Native Reservation	Hospital



44°0'N

44°0'N

250 125 0 250 m

1:10000

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

**Aerial** Year: 2017

Order Number: 22083104955

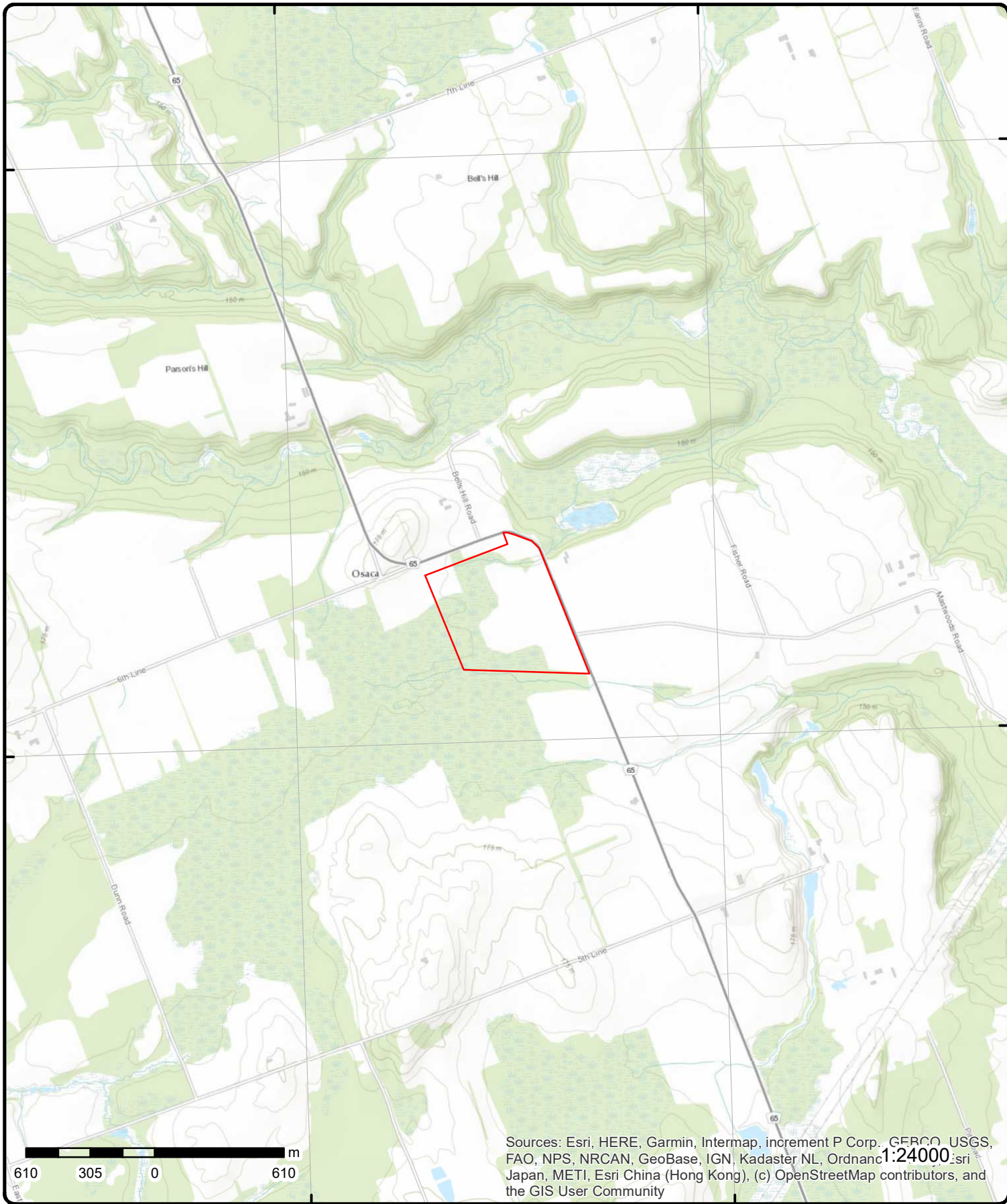
**Address: 5868 County Road 65, Port Hope, ON**



Source: ESRI World Imagery

© ERIS Information Limited Partnership





# Topographic Map

Order Number: 22083104955

Address: 5868 County Road 65, ON



Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

# Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<a href="#">1</a>	1 of 1	NNE/0.0	158.2 / -2.70	lot 27 con 5 ON	WWIS

<p><b>Well ID:</b> 1902083</p> <p><b>Construction Date:</b></p> <p><b>Use 1st:</b> Domestic</p> <p><b>Use 2nd:</b> 0</p> <p><b>Final Well Status:</b> Water Supply</p> <p><b>Water Type:</b></p> <p><b>Casing Material:</b></p> <p><b>Audit No:</b></p> <p><b>Tag:</b></p> <p><b>Constructn Method:</b></p> <p><b>Elevation (m):</b></p> <p><b>Elevatn Reliabilty:</b></p> <p><b>Depth to Bedrock:</b></p> <p><b>Well Depth:</b></p> <p><b>Overburden/Bedrock:</b></p> <p><b>Pump Rate:</b></p> <p><b>Static Water Level:</b></p> <p><b>Clear/Cloudy:</b></p> <p><b>Municipality:</b> HOPE TOWNSHIP</p> <p><b>Site Info:</b></p>	<p><b>Flowing (Y/N):</b></p> <p><b>Flow Rate:</b></p> <p><b>Data Entry Status:</b></p> <p><b>Data Src:</b> 1</p> <p><b>Date Received:</b> 22-Jan-1963 00:00:00</p> <p><b>Selected Flag:</b> TRUE</p> <p><b>Abandonment Rec:</b></p> <p><b>Contractor:</b> 5412</p> <p><b>Form Version:</b> 1</p> <p><b>Owner:</b></p> <p><b>County:</b> NORTHUMBERLAND</p> <p><b>Lot:</b> 027</p> <p><b>Concession:</b> 05</p> <p><b>Concession Name:</b> CON</p> <p><b>Easting NAD83:</b></p> <p><b>Northing NAD83:</b></p> <p><b>Zone:</b></p> <p><b>UTM Reliability:</b></p>
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**PDF URL (Map):** [https://d2khazk8e83rdv.cloudfront.net/moe\\_mapping/downloads/2Water/Wells\\_pdfs/190\1902083.pdf](https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1902083.pdf)

**Additional Detail(s) (Map)**

**Well Completed Date:** 1962/11/15

**Year Completed:** 1962

**Depth (m):** 7.9248

**Latitude:** 44.007714832537

**Longitude:** -78.4360019957061

**Path:** 190\1902083.pdf

**Bore Hole Information**

<p><b>Bore Hole ID:</b> 10071146</p> <p><b>DP2BR:</b></p> <p><b>Spatial Status:</b></p> <p><b>Code OB:</b></p> <p><b>Code OB Desc:</b></p> <p><b>Open Hole:</b></p> <p><b>Cluster Kind:</b></p> <p><b>Date Completed:</b> 15-Nov-1962 00:00:00</p> <p><b>Remarks:</b></p> <p><b>Elevrc Desc:</b></p> <p><b>Location Source Date:</b></p> <p><b>Improvement Location Source:</b></p> <p><b>Improvement Location Method:</b></p> <p><b>Source Revision Comment:</b></p> <p><b>Supplier Comment:</b></p>	<p><b>Elevation:</b></p> <p><b>Elevrc:</b></p> <p><b>Zone:</b> 17</p> <p><b>East83:</b> 705542.10</p> <p><b>North83:</b> 4875926.00</p> <p><b>Org CS:</b></p> <p><b>UTMRC:</b> 5</p> <p><b>UTMRC Desc:</b> margin of error : 100 m - 300 m</p> <p><b>Location Method:</b> p5</p>
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<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			931143984		
<b>Layer:</b>			2		
<b>Color:</b>			6		
<b>General Color:</b>			BROWN		
<b>Mat1:</b>			09		
<b>Most Common Material:</b>			MEDIUM SAND		
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>			3.0		
<b>Formation End Depth:</b>			9.0		
<b>Formation End Depth UOM:</b>			ft		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			931143986		
<b>Layer:</b>			4		
<b>Color:</b>					
<b>General Color:</b>					
<b>Mat1:</b>			09		
<b>Most Common Material:</b>			MEDIUM SAND		
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>			10.0		
<b>Formation End Depth:</b>			25.0		
<b>Formation End Depth UOM:</b>			ft		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			931143987		
<b>Layer:</b>			5		
<b>Color:</b>			3		
<b>General Color:</b>			BLUE		
<b>Mat1:</b>			05		
<b>Most Common Material:</b>			CLAY		
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>			25.0		
<b>Formation End Depth:</b>			26.0		
<b>Formation End Depth UOM:</b>			ft		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			931143985		
<b>Layer:</b>			3		
<b>Color:</b>			6		
<b>General Color:</b>			BROWN		
<b>Mat1:</b>			05		
<b>Most Common Material:</b>			CLAY		
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		9.0			
<b>Formation End Depth:</b>		10.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931143983			
<b>Layer:</b>		1			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		05			
<b>Most Common Material:</b>		CLAY			
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		0.0			
<b>Formation End Depth:</b>		3.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		961902083			
<b>Method Construction Code:</b>		6			
<b>Method Construction:</b>		Boring			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10619716			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930128607			
<b>Layer:</b>		1			
<b>Material:</b>		3			
<b>Open Hole or Material:</b>		CONCRETE			
<b>Depth From:</b>					
<b>Depth To:</b>		25.0			
<b>Casing Diameter:</b>		30.0			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		991902083			
<b>Pump Set At:</b>					
<b>Static Level:</b>		18.0			
<b>Final Level After Pumping:</b>					
<b>Recommended Pump Depth:</b>		22.0			
<b>Pumping Rate:</b>		4.0			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		2.0			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Water State After Test:</b> <b>Pumping Test Method:</b> <b>Pumping Duration HR:</b> <b>Pumping Duration MIN:</b> <b>Flowing:</b>		CLEAR 1  No			
<b>Water Details</b>					
<b>Water ID:</b> <b>Layer:</b> <b>Kind Code:</b> <b>Kind:</b> <b>Water Found Depth:</b> <b>Water Found Depth UOM:</b>		933512636 1 1 FRESH 17.0 ft			
<b>Links</b>					
<b>Bore Hole ID:</b> <b>Depth M:</b> <b>Year Completed:</b> <b>Well Completed Dt:</b> <b>Audit No:</b>		10071146 7.9248 1962 1962/11/15		<b>Tag No:</b> <b>Contractor:</b> <b>Path:</b> <b>Latitude:</b> <b>Longitude:</b>	5412 190\1902083.pdf 44.007714832537 -78.4360019957061
<a href="#">2</a>	1 of 2	N/31.1	161.6 / 0.62	s.21; s.21 5992 County Road 65; 5996 County Road 65 Port Hope; Port Hope ON	SPL
<b>Ref No:</b> <b>Site No:</b> <b>Incident Dt:</b> <b>Year:</b> <b>Incident Cause:</b> <b>Incident Event:</b> <b>Contaminant Code:</b> <b>Contaminant Name:</b> <b>Contaminant Limit 1:</b> <b>Contam Limit Freq 1:</b> <b>Contaminant UN No 1:</b> <b>Environment Impact:</b> <b>Nature of Impact:</b> <b>Receiving Medium:</b> <b>Receiving Env:</b> <b>MOE Response:</b> <b>Dt MOE Arvl on Scn:</b> <b>MOE Reported Dt:</b> <b>Dt Document Closed:</b> <b>Incident Reason:</b> <b>Site Name:</b> <b>Site County/District:</b> <b>Site Geo Ref Meth:</b> <b>Incident Summary:</b> <b>Contaminant Qty:</b>		3612-BAHGWX 7151-AWKQMM; 0536-BAHH5K 3/18/2019  No  3/22/2019  s.21; s.21 County of Northumberland; County of Northumberland NA; NA PIR - Oil running onto private property from adjacent neighbour		<b>Discharger Report:</b> <b>Material Group:</b> <b>Health/Env Conseq:</b> <b>Client Type:</b> <b>Sector Type:</b> <b>Agency Involved:</b> <b>Nearest Watercourse:</b> <b>Site Address:</b> <b>Site District Office:</b> <b>Site Postal Code:</b> <b>Site Region:</b> <b>Site Municipality:</b> <b>Site Lot:</b> <b>Site Conc:</b> <b>Northing:</b> <b>Easting:</b> <b>Site Geo Ref Accu:</b> <b>Site Map Datum:</b> <b>SAC Action Class:</b> <b>Source Type:</b>	2 - Minor Environment Individual; Individual  5992 County Road 65; 5996 County Road 65 Peterborough; Peterborough L1A 3V5; NA Eastern Port Hope; Port Hope  NA; NA NA; NA NA; NA NA; NA NA; NA
<a href="#">2</a>	2 of 2	N/31.1	161.6 / 0.62	s.21 5992 County 65 Rd; 5996 County 65 Rd Port Hope; Port Hope ON	SPL
<b>Ref No:</b> <b>Site No:</b> <b>Incident Dt:</b> <b>Year:</b>		7504-BAAGR8 7151-AWKQMM; 8729-AWKQNS 3/14/2019		<b>Discharger Report:</b> <b>Material Group:</b> <b>Health/Env Conseq:</b> <b>Client Type:</b>	2 - Minor Environment Individual

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Incident Cause:</b>				<b>Sector Type:</b>	
<b>Incident Event:</b>				<b>Agency Involved:</b>	
<b>Contaminant Code:</b>	41			<b>Nearest Watercourse:</b>	
<b>Contaminant Name:</b>	DIESEL FUEL AND WATER MIXTURE			<b>Site Address:</b>	5992 County 65 Rd; 5996 County 65 Rd
<b>Contaminant Limit 1:</b>				<b>Site District Office:</b>	Peterborough; Peterborough
<b>Contam Limit Freq 1:</b>				<b>Site Postal Code:</b>	L1A 3V5; L1A 3V5
<b>Contaminant UN No 1:</b>	n/a			<b>Site Region:</b>	Eastern
<b>Environment Impact:</b>				<b>Site Municipality:</b>	Port Hope; Port Hope
<b>Nature of Impact:</b>				<b>Site Lot:</b>	
<b>Receiving Medium:</b>				<b>Site Conc:</b>	NA; NA
<b>Receiving Env:</b>				<b>Northing:</b>	NA; NA
<b>MOE Response:</b>	No			<b>Easting:</b>	NA; NA
<b>Dt MOE Arvl on Scn:</b>				<b>Site Geo Ref Accu:</b>	NA; NA
<b>MOE Reported Dt:</b>	3/15/2019			<b>Site Map Datum:</b>	NA; NA
<b>Dt Document Closed:</b>				<b>SAC Action Class:</b>	Pollution Incident Reports (PIRs) and "Other" calls
<b>Incident Reason:</b>				<b>Source Type:</b>	
<b>Site Name:</b>	s.21; s.21				
<b>Site County/District:</b>	County of Northumberland; County of Northumberland				
<b>Site Geo Ref Meth:</b>	NA; NA				
<b>Incident Summary:</b>	MOTIPS: oily runoff from neighbour, repeat problem				
<b>Contaminant Qty:</b>	1 L				

<u>3</u>	1 of 1	<b>NNW/46.8</b>	<b>161.7 / 0.81</b>	<b>lot 27 con 5 ON</b>	<b>WWIS</b>
<b>Well ID:</b>	4511022			<b>Flowing (Y/N):</b>	
<b>Construction Date:</b>				<b>Flow Rate:</b>	
<b>Use 1st:</b>	Domestic			<b>Data Entry Status:</b>	
<b>Use 2nd:</b>				<b>Data Src:</b>	1
<b>Final Well Status:</b>	Water Supply			<b>Date Received:</b>	21-Oct-1996 00:00:00
<b>Water Type:</b>				<b>Selected Flag:</b>	TRUE
<b>Casing Material:</b>				<b>Abandonment Rec:</b>	
<b>Audit No:</b>	174443			<b>Contractor:</b>	6874
<b>Tag:</b>				<b>Form Version:</b>	1
<b>Constructn Method:</b>				<b>Owner:</b>	
<b>Elevation (m):</b>				<b>County:</b>	NORTHUMBERLAND
<b>Elevatn Reliabilty:</b>				<b>Lot:</b>	027
<b>Depth to Bedrock:</b>				<b>Concession:</b>	05
<b>Well Depth:</b>				<b>Concession Name:</b>	CON
<b>Overburden/Bedrock:</b>				<b>Easting NAD83:</b>	
<b>Pump Rate:</b>				<b>Northing NAD83:</b>	
<b>Static Water Level:</b>				<b>Zone:</b>	
<b>Clear/Cloudy:</b>				<b>UTM Reliability:</b>	
<b>Municipality:</b>	HOPE TOWNSHIP				
<b>Site Info:</b>					
<b>PDF URL (Map):</b>	<a href="https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/451\4511022.pdf">https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/451\4511022.pdf</a>				

**Additional Detail(s) (Map)**

<b>Well Completed Date:</b>	1996/10/16
<b>Year Completed:</b>	1996
<b>Depth (m):</b>	3.9624
<b>Latitude:</b>	44.0085125403512
<b>Longitude:</b>	-78.4386508079227
<b>Path:</b>	451\4511022.pdf

**Bore Hole Information**

<b>Bore Hole ID:</b>	10289740	<b>Elevation:</b>	
<b>DP2BR:</b>		<b>Elevrc:</b>	

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Spatial Status:</b>				<b>Zone:</b>	17
<b>Code OB:</b>				<b>East83:</b>	705327.00
<b>Code OB Desc:</b>				<b>North83:</b>	4876008.00
<b>Open Hole:</b>				<b>Org CS:</b>	N83
<b>Cluster Kind:</b>				<b>UTMRC:</b>	3
<b>Date Completed:</b>		16-Oct-1996 00:00:00	<b>UTMRC Desc:</b>		margin of error : 10 - 30 m
<b>Remarks:</b>				<b>Location Method:</b>	
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		931932826			
<b>Layer:</b>		1			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		11			
<b>Mat2 Desc:</b>		GRAVEL			
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		0.0			
<b>Formation End Depth:</b>		13.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		964511022			
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10838310			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930479713			
<b>Layer:</b>		1			
<b>Material:</b>		3			
<b>Open Hole or Material:</b>		CONCRETE			
<b>Depth From:</b>					
<b>Depth To:</b>		13.0			
<b>Casing Diameter:</b>		36.0			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		994511022			
<b>Pump Set At:</b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Static Level:</b>		8.0			
<b>Final Level After Pumping:</b>		13.0			
<b>Recommended Pump Depth:</b>		12.0			
<b>Pumping Rate:</b>		25.0			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		10.0			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		1			
<b>Water State After Test:</b>		CLEAR			
<b>Pumping Test Method:</b>		1			
<b>Pumping Duration HR:</b>		1			
<b>Pumping Duration MIN:</b>		30			
<b>Flowing:</b>		No			
 <b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		935038339			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		8.0			
<b>Test Level UOM:</b>		ft			
 <b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934241098			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		15			
<b>Test Level:</b>		9.0			
<b>Test Level UOM:</b>		ft			
 <b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934523553			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		8.0			
<b>Test Level UOM:</b>		ft			
 <b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934778519			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		45			
<b>Test Level:</b>		8.0			
<b>Test Level UOM:</b>		ft			
 <b><u>Water Details</u></b>					
<b>Water ID:</b>		933760573			
<b>Layer:</b>		1			
<b>Kind Code:</b>		1			
<b>Kind:</b>		FRESH			
<b>Water Found Depth:</b>		0.0			
<b>Water Found Depth UOM:</b>		ft			
 <b><u>Links</u></b>					
<b>Bore Hole ID:</b>		10289740		<b>Tag No:</b>	
<b>Depth M:</b>		3.9624		<b>Contractor:</b>	6874
<b>Year Completed:</b>		1996		<b>Path:</b>	451\4511022.pdf



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Completed Dt: Audit No:	1996/10/16 174443			Latitude: Longitude:	44.0085125403512 -78.4386508079227

<u>4</u>	1 of 1	ESE/100.7	158.9 / -2.02	lot 26 con 5 ON	WWIS
Well ID:	4511834			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:				Data Src:	1
Final Well Status:	Water Supply			Date Received:	29-Jul-1999 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	201408			Contractor:	4635
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	NORTHUMBERLAND
Elevatn Reliability:				Lot:	026
Depth to Bedrock:				Concession:	05
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	HOPE TOWNSHIP				
Site Info:					

PDF URL (Map): [https://d2khazk8e83rdv.cloudfront.net/moe\\_mapping/downloads/2Water/Wells\\_pdfs/451\4511834.pdf](https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/451\4511834.pdf)

#### Additional Detail(s) (Map)

Well Completed Date: 1999/06/03  
Year Completed: 1999  
Depth (m): 17.6784  
Latitude: 44.0030670765201  
Longitude: -78.4315012230989  
Path: 451\4511834.pdf

#### Bore Hole Information

Bore Hole ID:	10290551	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	705919.00
Code OB Desc:		North83:	4875421.00
Open Hole:		Org CS:	N83
Cluster Kind:		UTMRC:	3
Date Completed:	03-Jun-1999 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

#### Overburden and Bedrock Materials Interval

Formation ID: 931936377  
Layer: 2  
Color: 2

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>General Color:</b>			GREY		
<b>Mat1:</b>			11		
<b>Most Common Material:</b>			GRAVEL		
<b>Mat2:</b>			28		
<b>Mat2 Desc:</b>			SAND		
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		8.0			
<b>Formation End Depth:</b>		48.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931936379			
<b>Layer:</b>		4			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		49.0			
<b>Formation End Depth:</b>		58.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931936376			
<b>Layer:</b>		1			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		05			
<b>Mat2 Desc:</b>		CLAY			
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		0.0			
<b>Formation End Depth:</b>		8.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		931936378			
<b>Layer:</b>		3			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		05			
<b>Most Common Material:</b>		CLAY			
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		48.0			
<b>Formation End Depth:</b>		49.0			
<b>Formation End Depth UOM:</b>		ft			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		933167342			
<b>Layer:</b>		1			
<b>Plug From:</b>		0.0			
<b>Plug To:</b>		18.0			
<b>Plug Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		964511834			
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		10839121			
<b>Casing No:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		930480760			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		58.0			
<b>Casing Diameter:</b>		6.0			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		933354941			
<b>Layer:</b>		1			
<b>Slot:</b>		012			
<b>Screen Top Depth:</b>		50.0			
<b>Screen End Depth:</b>		128.0			
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		ft			
<b>Screen Diameter UOM:</b>		inch			
<b>Screen Diameter:</b>		6.0			
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		994511834			
<b>Pump Set At:</b>					
<b>Static Level:</b>		30.0			
<b>Final Level After Pumping:</b>		51.0			
<b>Recommended Pump Depth:</b>		56.0			
<b>Pumping Rate:</b>		7.0			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		4.0			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		1			
<b>Water State After Test:</b>		CLEAR			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Pumping Test Method:</b>		2			
<b>Pumping Duration HR:</b>		2			
<b>Pumping Duration MIN:</b>		0			
<b>Flowing:</b>		No			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934244313			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		15			
<b>Test Level:</b>		30.0			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		935041669			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		30.0			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934516460			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		30.0			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		934772534			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		45			
<b>Test Level:</b>		30.0			
<b>Test Level UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		933761533			
<b>Layer:</b>		1			
<b>Kind Code:</b>		5			
<b>Kind:</b>		Not stated			
<b>Water Found Depth:</b>		58.0			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Links</u></b>					
<b>Bore Hole ID:</b>		10290551		<b>Tag No:</b>	
<b>Depth M:</b>		17.6784		<b>Contractor:</b>	4635
<b>Year Completed:</b>		1999		<b>Path:</b>	451\4511834.pdf
<b>Well Completed Dt:</b>		1999/06/03		<b>Latitude:</b>	44.0030670765201
<b>Audit No:</b>		201408		<b>Longitude:</b>	-78.4315012230989
<a href="#">5</a>	1 of 1	SE/113.1	159.9 / -1.04	5280 COUNTY RD 65 lot 27 con 5 Port Hope ON	WWIS
<b>Well ID:</b>		7314568		<b>Flowing (Y/N):</b>	
<b>Construction Date:</b>				<b>Flow Rate:</b>	
<b>Use 1st:</b>		Domestic		<b>Data Entry Status:</b>	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Use 2nd:</b>				<b>Data Src:</b>	
<b>Final Well Status:</b>	Water Supply			<b>Date Received:</b>	13-Jul-2018 00:00:00
<b>Water Type:</b>				<b>Selected Flag:</b>	TRUE
<b>Casing Material:</b>				<b>Abandonment Rec:</b>	
<b>Audit No:</b>	Z288370			<b>Contractor:</b>	7647
<b>Tag:</b>	A248945			<b>Form Version:</b>	7
<b>Constructn Method:</b>				<b>Owner:</b>	
<b>Elevation (m):</b>				<b>County:</b>	NORTHUMBERLAND
<b>Elevatn Reliabilty:</b>				<b>Lot:</b>	027
<b>Depth to Bedrock:</b>				<b>Concession:</b>	05
<b>Well Depth:</b>				<b>Concession Name:</b>	CON
<b>Overburden/Bedrock:</b>				<b>Easting NAD83:</b>	
<b>Pump Rate:</b>				<b>Northing NAD83:</b>	
<b>Static Water Level:</b>				<b>Zone:</b>	
<b>Clear/Cloudy:</b>				<b>UTM Reliability:</b>	
<b>Municipality:</b>	HOPE TOWNSHIP				
<b>Site Info:</b>					
<b>PDF URL (Map):</b>	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/731\7314568.pdf				
<b><u>Additional Detail(s) (Map)</u></b>					
<b>Well Completed Date:</b>	2018/07/04				
<b>Year Completed:</b>	2018				
<b>Depth (m):</b>	30.7848				
<b>Latitude:</b>	44.0018023565308				
<b>Longitude:</b>	-78.4337136150341				
<b>Path:</b>	731\7314568.pdf				
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>	1007159061			<b>Elevation:</b>	
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	17
<b>Code OB:</b>				<b>East83:</b>	705746.00
<b>Code OB Desc:</b>				<b>North83:</b>	4875275.00
<b>Open Hole:</b>				<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>	04-Jul-2018 00:00:00			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>	1007392716				
<b>Layer:</b>	6				
<b>Color:</b>	6				
<b>General Color:</b>	BROWN				
<b>Mat1:</b>	31				
<b>Most Common Material:</b>	COARSE GRAVEL				
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>	99.0				
<b>Formation End Depth:</b>	101.0				
<b>Formation End Depth UOM:</b>	ft				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			1007392713		
<b>Layer:</b>			3		
<b>Color:</b>			2		
<b>General Color:</b>			GREY		
<b>Mat1:</b>			28		
<b>Most Common Material:</b>			SAND		
<b>Mat2:</b>			11		
<b>Mat2 Desc:</b>			GRAVEL		
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>			49.0		
<b>Formation End Depth:</b>			88.0		
<b>Formation End Depth UOM:</b>			ft		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			1007392712		
<b>Layer:</b>			2		
<b>Color:</b>			2		
<b>General Color:</b>			GREY		
<b>Mat1:</b>			28		
<b>Most Common Material:</b>			SAND		
<b>Mat2:</b>			06		
<b>Mat2 Desc:</b>			SILT		
<b>Mat3:</b>			05		
<b>Mat3 Desc:</b>			CLAY		
<b>Formation Top Depth:</b>			18.0		
<b>Formation End Depth:</b>			49.0		
<b>Formation End Depth UOM:</b>			ft		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			1007392715		
<b>Layer:</b>			5		
<b>Color:</b>			6		
<b>General Color:</b>			BROWN		
<b>Mat1:</b>			28		
<b>Most Common Material:</b>			SAND		
<b>Mat2:</b>			06		
<b>Mat2 Desc:</b>			SILT		
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>			97.0		
<b>Formation End Depth:</b>			99.0		
<b>Formation End Depth UOM:</b>			ft		
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>			1007392711		
<b>Layer:</b>			1		
<b>Color:</b>			6		
<b>General Color:</b>			BROWN		
<b>Mat1:</b>			10		
<b>Most Common Material:</b>			COARSE SAND		
<b>Mat2:</b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		0.0			
<b>Formation End Depth:</b>		18.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1007392714			
<b>Layer:</b>		4			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		06			
<b>Mat2 Desc:</b>		SILT			
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		88.0			
<b>Formation End Depth:</b>		97.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Annular Space/Abandonment</u></b>					
<b><u>Sealing Record</u></b>					
<b>Plug ID:</b>		1007392737			
<b>Layer:</b>		1			
<b>Plug From:</b>		0.0			
<b>Plug To:</b>		21.0			
<b>Plug Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well</u></b>					
<b><u>Use</u></b>					
<b>Method Construction ID:</b>		1007392736			
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1007392709			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1007392720			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		0.0			
<b>Depth To:</b>		101.0			
<b>Casing Diameter:</b>		6.25			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Screen</u></b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Screen ID:</b>		1007392721			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		ft			
<b>Screen Diameter UOM:</b>		inch			
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		1007392710			
<b>Pump Set At:</b>		90.0			
<b>Static Level:</b>		21.0			
<b>Final Level After Pumping:</b>		27.66699981689453			
<b>Recommended Pump Depth:</b>		90.0			
<b>Pumping Rate:</b>		8.0			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		8.0			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		1			
<b>Water State After Test:</b>		CLEAR			
<b>Pumping Test Method:</b>		0			
<b>Pumping Duration HR:</b>		1			
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>					
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392732			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		40			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392724			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		3			
<b>Test Level:</b>		28.33300018310547			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392723			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		2			
<b>Test Level:</b>		28.33300018310547			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392734			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			



<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>
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392722			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		1			
<b>Test Level:</b>		28.16699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392730			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		25			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392729			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		20			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392733			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		50			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392731			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392725			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		4			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392726			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392727			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		10			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392728			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		15			
<b>Test Level:</b>		28.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1007392718			
<b>Layer:</b>		1			
<b>Kind Code:</b>		9			
<b>Kind:</b>		Other			
<b>Water Found Depth:</b>		40.0			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1007392719			
<b>Layer:</b>		2			
<b>Kind Code:</b>		9			
<b>Kind:</b>		Other			
<b>Water Found Depth:</b>		99.0			
<b>Water Found Depth UOM:</b>		ft			
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>		1007392717			
<b>Diameter:</b>		6.25			
<b>Depth From:</b>		0.0			
<b>Depth To:</b>		101.0			
<b>Hole Depth UOM:</b>		ft			
<b>Hole Diameter UOM:</b>		inch			
<b><u>Links</u></b>					
<b>Bore Hole ID:</b>		1007159061	<b>Tag No:</b>		A248945
<b>Depth M:</b>		30.7848	<b>Contractor:</b>		7647
<b>Year Completed:</b>		2018	<b>Path:</b>		7317314568.pdf
<b>Well Completed Dt:</b>		2018/07/04	<b>Latitude:</b>		44.0018023565308
<b>Audit No:</b>		Z288370	<b>Longitude:</b>		-78.4337136150341

<u>6</u>	1 of 1	SSE/128.7	160.9 / -0.07	lot 27 con 5 ON	WWIS
<b>Well ID:</b>		7295687		<b>Flowing (Y/N):</b>	
<b>Construction Date:</b>				<b>Flow Rate:</b>	
<b>Use 1st:</b>				<b>Data Entry Status:</b>	
<b>Use 2nd:</b>				Yes	
<b>Final Well Status:</b>				<b>Data Src:</b>	
<b>Water Type:</b>				<b>Date Received:</b>	
<b>Casing Material:</b>				29-Sep-2017 00:00:00	
<b>Audit No:</b>		C38738	<b>Selected Flag:</b>		TRUE
<b>Tag:</b>		A231689	<b>Abandonment Rec:</b>		
<b>Constructn Method:</b>				<b>Contractor:</b>	
				7464	
				<b>Form Version:</b>	
				8	
				<b>Owner:</b>	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Elevation (m):</b> <b>Elevatn Reliabilty:</b> <b>Depth to Bedrock:</b> <b>Well Depth:</b> <b>Overburden/Bedrock:</b> <b>Pump Rate:</b> <b>Static Water Level:</b> <b>Clear/Cloudy:</b> <b>Municipality:</b> <b>Site Info:</b>		HOPE TOWNSHIP		<b>County:</b> <b>Lot:</b> <b>Concession:</b> <b>Concession Name:</b> <b>Easting NAD83:</b> <b>Northing NAD83:</b> <b>Zone:</b> <b>UTM Reliability:</b>	NORTHUMBERLAND 027 05 CON

PDF URL (Map):

**Additional Detail(s) (Map)**

**Well Completed Date:** 2017/08/25  
**Year Completed:** 2017  
**Depth (m):**  
**Latitude:** 44.0017655967035  
**Longitude:** -78.4360850274165  
**Path:**

**Bore Hole Information**

<b>Bore Hole ID:</b> 1006745723 <b>DP2BR:</b> <b>Spatial Status:</b> <b>Code OB:</b> <b>Code OB Desc:</b> <b>Open Hole:</b> <b>Cluster Kind:</b> <b>Date Completed:</b> 25-Aug-2017 00:00:00 <b>Remarks:</b> <b>Elevrc Desc:</b> <b>Location Source Date:</b> <b>Improvement Location Source:</b> <b>Improvement Location Method:</b> <b>Source Revision Comment:</b> <b>Supplier Comment:</b>	<b>Elevation:</b> <b>Elevrc:</b> <b>Zone:</b> 17 <b>East83:</b> 705556.00 <b>North83:</b> 4875265.00 <b>Org CS:</b> UTM83 <b>UTMRC:</b> 4 <b>UTMRC Desc:</b> margin of error : 30 m - 100 m <b>Location Method:</b> wwr
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**Links**

<b>Bore Hole ID:</b> 1006745723 <b>Depth M:</b> <b>Year Completed:</b> 2017 <b>Well Completed Dt:</b> 2017/08/25 <b>Audit No:</b> C38738	<b>Tag No:</b> A231689 <b>Contractor:</b> 7464 <b>Path:</b> <b>Latitude:</b> 44.0017655967035 <b>Longitude:</b> -78.4360850274165
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<a href="#">7</a>	1 of 1	SE/224.1	160.3 / -0.66	5280 COUNTY RD 65 lot 27 con 5 Port Hope ON	WWIS
<b>Well ID:</b> 7314569 <b>Construction Date:</b> <b>Use 1st:</b> Domestic <b>Use 2nd:</b> <b>Final Well Status:</b> Water Supply <b>Water Type:</b> <b>Casing Material:</b> <b>Audit No:</b> Z288372 <b>Tag:</b> A248943 <b>Constructn Method:</b> <b>Elevation (m):</b>		<b>Flowing (Y/N):</b> <b>Flow Rate:</b> <b>Data Entry Status:</b> <b>Data Src:</b> <b>Date Received:</b> 13-Jul-2018 00:00:00 <b>Selected Flag:</b> TRUE <b>Abandonment Rec:</b> <b>Contractor:</b> 7647 <b>Form Version:</b> 7 <b>Owner:</b> <b>County:</b> NORTHUMBERLAND			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Elevatn Reliabilty:</b>				<b>Lot:</b>	027
<b>Depth to Bedrock:</b>				<b>Concession:</b>	05
<b>Well Depth:</b>				<b>Concession Name:</b>	CON
<b>Overburden/Bedrock:</b>				<b>Easting NAD83:</b>	
<b>Pump Rate:</b>				<b>Northing NAD83:</b>	
<b>Static Water Level:</b>				<b>Zone:</b>	
<b>Clear/Cloudy:</b>				<b>UTM Reliability:</b>	
<b>Municipality:</b>		HOPE TOWNSHIP			
<b>Site Info:</b>					

**PDF URL (Map):** [https://d2khazk8e83rdv.cloudfront.net/moe\\_mapping/downloads/2Water/Wells\\_pdfs/731\7314569.pdf](https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/731\7314569.pdf)

**Additional Detail(s) (Map)**

**Well Completed Date:** 2018/07/04  
**Year Completed:** 2018  
**Depth (m):** 46.0248  
**Latitude:** 44.0007666563532  
**Longitude:** -78.4328976817191  
**Path:** 731\7314569.pdf

**Bore Hole Information**

<b>Bore Hole ID:</b>	1007159720	<b>Elevation:</b>	
<b>DP2BR:</b>		<b>Elevrc:</b>	
<b>Spatial Status:</b>		<b>Zone:</b>	17
<b>Code OB:</b>		<b>East83:</b>	705815.00
<b>Code OB Desc:</b>		<b>North83:</b>	4875162.00
<b>Open Hole:</b>		<b>Org CS:</b>	UTM83
<b>Cluster Kind:</b>		<b>UTMRC:</b>	4
<b>Date Completed:</b>	04-Jul-2018 00:00:00	<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>		<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>			
<b>Location Source Date:</b>			
<b>Improvement Location Source:</b>			
<b>Improvement Location Method:</b>			
<b>Source Revision Comment:</b>			
<b>Supplier Comment:</b>			

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 1007392742  
**Layer:** 3  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:** 06  
**Mat2 Desc:** SILT  
**Mat3:** 05  
**Mat3 Desc:** CLAY  
**Formation Top Depth:** 34.0  
**Formation End Depth:** 88.0  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 1007392744  
**Layer:** 5  
**Color:** 2

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>General Color:</b>		GREY			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		06			
<b>Mat2 Desc:</b>		SILT			
<b>Mat3:</b>		12			
<b>Mat3 Desc:</b>		STONES			
<b>Formation Top Depth:</b>		121.0			
<b>Formation End Depth:</b>		142.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1007392745			
<b>Layer:</b>		6			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		11			
<b>Mat2 Desc:</b>		GRAVEL			
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		142.0			
<b>Formation End Depth:</b>		151.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1007392740			
<b>Layer:</b>		1			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		10			
<b>Most Common Material:</b>		COARSE SAND			
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		0.0			
<b>Formation End Depth:</b>		21.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1007392743			
<b>Layer:</b>		4			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		11			
<b>Mat2 Desc:</b>		GRAVEL			
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		88.0			
<b>Formation End Depth:</b>		121.0			
<b>Formation End Depth UOM:</b>		ft			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1007392741			
<b>Layer:</b>		2			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		08			
<b>Most Common Material:</b>		FINE SAND			
<b>Mat2:</b>		06			
<b>Mat2 Desc:</b>		SILT			
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		21.0			
<b>Formation End Depth:</b>		34.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1007392767			
<b>Layer:</b>		1			
<b>Plug From:</b>		2.0			
<b>Plug To:</b>		21.0			
<b>Plug Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		1007392766			
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1007392738			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1007392750			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		0.0			
<b>Depth To:</b>		151.0			
<b>Casing Diameter:</b>		6.25			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1007392751			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		ft			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Screen Diameter UOM:</b>		inch			
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>		1007392739			
<b>Pump Set At:</b>		145.0			
<b>Static Level:</b>		21.5			
<b>Final Level After Pumping:</b>		110.16699981689453			
<b>Recommended Pump Depth:</b>		140.0			
<b>Pumping Rate:</b>		7.0			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		7.0			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		3			
<b>Water State After Test:</b>		OTHER			
<b>Pumping Test Method:</b>		0			
<b>Pumping Duration HR:</b>		1			
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>					
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392752			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		1			
<b>Test Level:</b>		21.5			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392757			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		10			
<b>Test Level:</b>		44.75			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392761			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		85.25			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392756			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		5			
<b>Test Level:</b>		41.5			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392762			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		40			
<b>Test Level:</b>		91.16699981689453			
<b>Test Level UOM:</b>		ft			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1007392755		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			4		
<b>Test Level:</b>			28.33300018310547		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1007392760		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			25		
<b>Test Level:</b>			78.08300018310547		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1007392763		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			50		
<b>Test Level:</b>			100.33300018310547		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1007392759		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			20		
<b>Test Level:</b>			69.16699981689453		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1007392754		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			3		
<b>Test Level:</b>			36.5		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1007392764		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			60		
<b>Test Level:</b>			106.75		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>			1007392753		
<b>Test Type:</b>			Draw Down		
<b>Test Duration:</b>			2		
<b>Test Level:</b>			30.08300018310547		
<b>Test Level UOM:</b>			ft		
<b><u>Draw Down &amp; Recovery</u></b>					



<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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**Pump Test Detail ID:** 1007392758  
**Test Type:** Draw Down  
**Test Duration:** 15  
**Test Level:** 58.33300018310547  
**Test Level UOM:** ft

**Water Details**

**Water ID:** 1007392747  
**Layer:** 1  
**Kind Code:** 9  
**Kind:** Other  
**Water Found Depth:** 32.0  
**Water Found Depth UOM:** ft

**Water Details**

**Water ID:** 1007392749  
**Layer:** 3  
**Kind Code:** 9  
**Kind:** Other  
**Water Found Depth:** 151.0  
**Water Found Depth UOM:** ft

**Water Details**

**Water ID:** 1007392748  
**Layer:** 2  
**Kind Code:** 9  
**Kind:** Other  
**Water Found Depth:** 89.0  
**Water Found Depth UOM:** ft

**Hole Diameter**

**Hole ID:** 1007392746  
**Diameter:** 6.25  
**Depth From:** 0.0  
**Depth To:** 151.0  
**Hole Depth UOM:** ft  
**Hole Diameter UOM:** inch

**Links**

<b>Bore Hole ID:</b> 1007159720	<b>Tag No:</b> A248943
<b>Depth M:</b> 46.0248	<b>Contractor:</b> 7647
<b>Year Completed:</b> 2018	<b>Path:</b> 731\7314569.pdf
<b>Well Completed Dt:</b> 2018/07/04	<b>Latitude:</b> 44.0007666563532
<b>Audit No:</b> Z288372	<b>Longitude:</b> -78.4328976817191

<a href="#">8</a>	1 of 1	SSE/244.3	160.7 / -0.19	5280 COUNTY RD 65 lot 27 con 5 Port Hope ON	WWIS
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<b>Well ID:</b> 7314570	<b>Flowing (Y/N):</b>
<b>Construction Date:</b>	<b>Flow Rate:</b>
<b>Use 1st:</b> Domestic	<b>Data Entry Status:</b>
<b>Use 2nd:</b>	<b>Data Src:</b>
<b>Final Well Status:</b> Water Supply	<b>Date Received:</b> 13-Jul-2018 00:00:00
<b>Water Type:</b>	<b>Selected Flag:</b> TRUE
<b>Casing Material:</b>	<b>Abandonment Rec:</b>
<b>Audit No:</b> Z288371	<b>Contractor:</b> 7647

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Tag:	A248942			Form Version:	7
Constructn Method:				Owner:	
Elevation (m):				County:	NORTHUMBERLAND
Elevatn Reliabilty:				Lot:	027
Depth to Bedrock:				Concession:	05
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		HOPE TOWNSHIP			
Site Info:					

PDF URL (Map): [https://d2khazk8e83rdv.cloudfront.net/moe\\_mapping/downloads/2Water/Wells\\_pdfs/731\7314570.pdf](https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/731\7314570.pdf)

**Additional Detail(s) (Map)**

Well Completed Date: 2018/07/04  
Year Completed: 2018  
Depth (m): 47.8536  
Latitude: 44.00068158153  
Longitude: -78.4351214653534  
Path: 731\7314570.pdf

**Bore Hole Information**

Bore Hole ID:	1007159723	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	705637.00
Code OB Desc:		North83:	4875147.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	04-Jul-2018 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock**

**Materials Interval**

Formation ID: 1007392773  
Layer: 4  
Color: 2  
General Color: GREY  
Mat1: 28  
Most Common Material: SAND  
Mat2: 05  
Mat2 Desc: CLAY  
Mat3: 11  
Mat3 Desc: GRAVEL  
Formation Top Depth: 142.0  
Formation End Depth: 147.0  
Formation End Depth UOM: ft

**Overburden and Bedrock**

**Materials Interval**

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Formation ID:</b>		1007392771			
<b>Layer:</b>		2			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		28			
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		05			
<b>Mat2 Desc:</b>		CLAY			
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		28.0			
<b>Formation End Depth:</b>		101.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1007392774			
<b>Layer:</b>		5			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		17			
<b>Most Common Material:</b>		SHALE			
<b>Mat2:</b>		15			
<b>Mat2 Desc:</b>		LIMESTONE			
<b>Mat3:</b>		06			
<b>Mat3 Desc:</b>		SILT			
<b>Formation Top Depth:</b>		147.0			
<b>Formation End Depth:</b>		157.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1007392772			
<b>Layer:</b>		3			
<b>Color:</b>		2			
<b>General Color:</b>		GREY			
<b>Mat1:</b>		05			
<b>Most Common Material:</b>		CLAY			
<b>Mat2:</b>		11			
<b>Mat2 Desc:</b>		GRAVEL			
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		101.0			
<b>Formation End Depth:</b>		142.0			
<b>Formation End Depth UOM:</b>		ft			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
<b>Formation ID:</b>		1007392770			
<b>Layer:</b>		1			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		10			
<b>Most Common Material:</b>		COARSE SAND			
<b>Mat2:</b>					
<b>Mat2 Desc:</b>					
<b>Mat3:</b>					
<b>Mat3 Desc:</b>					
<b>Formation Top Depth:</b>		0.0			
<b>Formation End Depth:</b>		28.0			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Formation End Depth UOM:</b>		ft			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1007392797			
<b>Layer:</b>		1			
<b>Plug From:</b>		0.0			
<b>Plug To:</b>		24.0			
<b>Plug Depth UOM:</b>		ft			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		1007392796			
<b>Method Construction Code:</b>		1			
<b>Method Construction:</b>		Cable Tool			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1007392768			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1007392780			
<b>Layer:</b>		2			
<b>Material:</b>		4			
<b>Open Hole or Material:</b>		OPEN HOLE			
<b>Depth From:</b>		146.25			
<b>Depth To:</b>		157.0			
<b>Casing Diameter:</b>		6.139999866485596			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1007392779			
<b>Layer:</b>		1			
<b>Material:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>		0.0			
<b>Depth To:</b>		146.25			
<b>Casing Diameter:</b>		6.25			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1007392781			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		ft			
<b>Screen Diameter UOM:</b>		inch			
<b>Screen Diameter:</b>					

<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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**Results of Well Yield Testing**

**Pump Test ID:** 1007392769  
**Pump Set At:** 145.0  
**Static Level:** 27.75  
**Final Level After Pumping:** 67.0  
**Recommended Pump Depth:** 140.0  
**Pumping Rate:** 10.0  
**Flowing Rate:** 10.0  
**Recommended Pump Rate:** 10.0  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:** 3  
**Water State After Test:** OTHER  
**Pumping Test Method:** 0  
**Pumping Duration HR:** 1  
**Pumping Duration MIN:**  
**Flowing:**

**Draw Down & Recovery**

**Pump Test Detail ID:** 1007392785  
**Test Type:** Draw Down  
**Test Duration:** 4  
**Test Level:** 33.08300018310547  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1007392789  
**Test Type:** Draw Down  
**Test Duration:** 20  
**Test Level:** 37.75  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1007392791  
**Test Type:** Draw Down  
**Test Duration:** 30  
**Test Level:** 52.0  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1007392782  
**Test Type:** Draw Down  
**Test Duration:** 1  
**Test Level:** 31.41699981689453  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1007392794  
**Test Type:** Draw Down  
**Test Duration:** 60  
**Test Level:** 67.33300018310547  
**Test Level UOM:** ft

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392784			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		3			
<b>Test Level:</b>		31.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392792			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		40			
<b>Test Level:</b>		62.08300018310547			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392783			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		2			
<b>Test Level:</b>		29.66699981689453			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392787			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		10			
<b>Test Level:</b>		35.08300018310547			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392788			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		15			
<b>Test Level:</b>		36.75			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392790			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		25			
<b>Test Level:</b>		39.5			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392793			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		50			
<b>Test Level:</b>		63.5			
<b>Test Level UOM:</b>		ft			
<b><u>Draw Down &amp; Recovery</u></b>					
<b>Pump Test Detail ID:</b>		1007392786			
<b>Test Type:</b>		Draw Down			

<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>
<i>Test Duration:</i>		5			
<i>Test Level:</i>		33.41699981689453			
<i>Test Level UOM:</i>		ft			

**Water Details**

*Water ID:* 1007392777  
*Layer:* 1  
*Kind Code:* 9  
*Kind:* Other  
*Water Found Depth:* 32.0  
*Water Found Depth UOM:* ft

**Water Details**

*Water ID:* 1007392778  
*Layer:* 2  
*Kind Code:* 9  
*Kind:* Other  
*Water Found Depth:* 154.0  
*Water Found Depth UOM:* ft

**Hole Diameter**

*Hole ID:* 1007392775  
*Diameter:* 6.25  
*Depth From:* 0.0  
*Depth To:* 146.25  
*Hole Depth UOM:* ft  
*Hole Diameter UOM:* inch

**Hole Diameter**

*Hole ID:* 1007392776  
*Diameter:* 6.139999866485596  
*Depth From:* 146.25  
*Depth To:* 157.0  
*Hole Depth UOM:* ft  
*Hole Diameter UOM:* inch

**Links**

<i>Bore Hole ID:</i>	1007159723	<i>Tag No:</i>	A248942
<i>Depth M:</i>	47.8536	<i>Contractor:</i>	7647
<i>Year Completed:</i>	2018	<i>Path:</i>	731\7314570.pdf
<i>Well Completed Dt:</i>	2018/07/04	<i>Latitude:</i>	44.00068158153
<i>Audit No:</i>	Z288371	<i>Longitude:</i>	-78.4351214653534

# Unplottable Summary

Total: 2 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
<a href="#">SPL</a>	s.21	Port Hope	Port Hope ON	NA
<a href="#">WWIS</a>		BELLS HILL ROAD	PORT HOPE ON	



# Unplottable Report

**Site:** s.21  
Port Hope Port Hope ON NA

**Database:**  
SPL

**Ref No:** 3747-BDGLTT  
**Site No:** 5472-75LMUV  
**Incident Dt:** 6/13/2019  
**Year:**  
**Incident Cause:**  
**Incident Event:**  
**Contaminant Code:**  
**Contaminant Name:**  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Environment Impact:**  
**Nature of Impact:**  
**Receiving Medium:**  
**Receiving Env:**  
**MOE Response:** Yes  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 6/25/2019  
**Dt Document Closed:** 6/25/2019  
**Incident Reason:**  
**Site Name:** VEEU Port Hope  
**Site County/District:** County of Northumberland  
**Site Geo Ref Meth:** NA  
**Incident Summary:** PON  
**Contaminant Qty:**

**Discharger Report:**  
**Material Group:**  
**Health/Env Conseq:**  
**Client Type:** Individual  
**Sector Type:**  
**Agency Involved:**  
**Nearest Watercourse:**  
**Site Address:** Port Hope  
**Site District Office:** Peterborough  
**Site Postal Code:** NA  
**Site Region:** Eastern  
**Site Municipality:** Port Hope  
**Site Lot:**  
**Site Conc:** NA  
**Northing:** NA  
**Easting:** NA  
**Site Geo Ref Accu:** NA  
**Site Map Datum:** NA  
**SAC Action Class:**  
**Source Type:**

**Site:** BELLS HILL ROAD PORT HOPE ON

**Database:**  
WWIS

**Well ID:** 7273945  
**Construction Date:**  
**Use 1st:** Domestic  
**Use 2nd:**  
**Final Well Status:** Water Supply  
**Water Type:**  
**Casing Material:**  
**Audit No:** Z246033  
**Tag:** A208195  
**Constructn Method:**  
**Elevation (m):**  
**Elevatn Reliability:**  
**Depth to Bedrock:**  
**Well Depth:**  
**Overburden/Bedrock:**  
**Pump Rate:**  
**Static Water Level:**  
**Clear/Cloudy:**  
**Municipality:**  
**Site Info:**

**Flowing (Y/N):**  
**Flow Rate:**  
**Data Entry Status:**  
**Data Src:**  
**Date Received:** 26-Oct-2016 00:00:00  
**Selected Flag:** TRUE  
**Abandonment Rec:**  
**Contractor:** 9999  
**Form Version:** 7  
**Owner:**  
**County:**  
**Lot:**  
**Concession:**  
**Concession Name:**  
**Easting NAD83:**  
**Northing NAD83:**  
**Zone:**  
**UTM Reliability:**

## Bore Hole Information

**Bore Hole ID:** 1006278283  
**DP2BR:**

**Elevation:**  
**Elevrc:**

**Spatial Status:**  
**Code OB:**  
**Code OB Desc:**  
**Open Hole:**  
**Cluster Kind:**  
**Date Completed:** 16-Oct-2016 00:00:00  
**Remarks:**  
**Elevrc Desc:**  
**Location Source Date:**  
**Improvement Location Source:**  
**Improvement Location Method:**  
**Source Revision Comment:**  
**Supplier Comment:**

**Zone:**  
**East83:**  
**North83:**  
**Org CS:** UTM83  
**UTMRC:** 9  
**UTMRC Desc:** unknown UTM  
**Location Method:** wwr

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 1006452040  
**Layer:** 4  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:**  
**Mat2 Desc:**  
**Mat3:** 68  
**Mat3 Desc:** DRY  
**Formation Top Depth:** 7.0  
**Formation End Depth:** 10.0  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 1006452042  
**Layer:** 6  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 05  
**Most Common Material:** CLAY  
**Mat2:**  
**Mat2 Desc:**  
**Mat3:** 91  
**Mat3 Desc:** WATER-BEARING  
**Formation Top Depth:** 12.0  
**Formation End Depth:** 22.0  
**Formation End Depth UOM:** ft

**Overburden and Bedrock**

**Materials Interval**

**Formation ID:** 1006452038  
**Layer:** 2  
**Color:** 7  
**General Color:** RED  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:**  
**Mat2 Desc:**  
**Mat3:** 68  
**Mat3 Desc:** DRY  
**Formation Top Depth:** 1.0  
**Formation End Depth:** 3.0  
**Formation End Depth UOM:** ft

**Overburden and Bedrock  
Materials Interval**

**Formation ID:** 1006452037  
**Layer:** 1  
**Color:** 6  
**General Color:** BROWN  
**Mat1:** 02  
**Most Common Material:** TOPSOIL  
**Mat2:**  
**Mat2 Desc:**  
**Mat3:** 68  
**Mat3 Desc:** DRY  
**Formation Top Depth:** 0.0  
**Formation End Depth:** 1.0  
**Formation End Depth UOM:** ft

**Overburden and Bedrock  
Materials Interval**

**Formation ID:** 1006452041  
**Layer:** 5  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:**  
**Mat2 Desc:**  
**Mat3:** 91  
**Mat3 Desc:** WATER-BEARING  
**Formation Top Depth:** 10.0  
**Formation End Depth:** 12.0  
**Formation End Depth UOM:** ft

**Overburden and Bedrock  
Materials Interval**

**Formation ID:** 1006452039  
**Layer:** 3  
**Color:** 2  
**General Color:** GREY  
**Mat1:** 28  
**Most Common Material:** SAND  
**Mat2:** 84  
**Mat2 Desc:** SILTY  
**Mat3:** 68  
**Mat3 Desc:** DRY  
**Formation Top Depth:** 3.0  
**Formation End Depth:** 7.0  
**Formation End Depth UOM:** ft

**Annular Space/Abandonment  
Sealing Record**

**Plug ID:** 1006452075  
**Layer:** 1  
**Plug From:** 0.0  
**Plug To:** 8.5  
**Plug Depth UOM:** ft

**Method of Construction & Well  
Use**

**Method Construction ID:** 1006452074  
**Method Construction Code:** A

**Method Construction:** Digging  
**Other Method Construction:**

**Pipe Information**

**Pipe ID:** 1006452035  
**Casing No:** 0  
**Comment:**  
**Alt Name:**

**Construction Record - Casing**

**Casing ID:** 1006452045  
**Layer:** 1  
**Material:** 3  
**Open Hole or Material:** CONCRETE  
**Depth From:** 21.0  
**Depth To:**  
**Casing Diameter:** 36.0  
**Casing Diameter UOM:** inch  
**Casing Depth UOM:** ft

**Results of Well Yield Testing**

**Pump Test ID:** 1006452036  
**Pump Set At:** 17.5  
**Static Level:** 11.670000076293945  
**Final Level After Pumping:** 12.420000076293945  
**Recommended Pump Depth:** 17.5  
**Pumping Rate:** 5.0  
**Flowing Rate:**  
**Recommended Pump Rate:** 5.0  
**Levels UOM:** ft  
**Rate UOM:** GPM  
**Water State After Test Code:** 1  
**Water State After Test:** CLEAR  
**Pumping Test Method:** 0  
**Pumping Duration HR:** 1  
**Pumping Duration MIN:**  
**Flowing:** No

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452055  
**Test Type:** Draw Down  
**Test Duration:** 5  
**Test Level:** 11.9399995803833  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452058  
**Test Type:** Recovery  
**Test Duration:** 10  
**Test Level:** 13.329999923706055  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452061  
**Test Type:** Draw Down  
**Test Duration:** 20  
**Test Level:** 12.579999923706055  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452059  
**Test Type:** Draw Down  
**Test Duration:** 15  
**Test Level:** 12.460000038146973  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452060  
**Test Type:** Recovery  
**Test Duration:** 15  
**Test Level:** 13.130000114440918  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452052  
**Test Type:** Recovery  
**Test Duration:** 3  
**Test Level:** 13.829999923706055  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452054  
**Test Type:** Recovery  
**Test Duration:** 4  
**Test Level:** 13.75  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452057  
**Test Type:** Draw Down  
**Test Duration:** 10  
**Test Level:** 12.170000076293945  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452065  
**Test Type:** Draw Down  
**Test Duration:** 30  
**Test Level:** 13.079999923706055  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452067  
**Test Type:** Draw Down  
**Test Duration:** 40  
**Test Level:** 13.5  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452069  
**Test Type:** Draw Down  
**Test Duration:** 50

**Test Level:** 13.829999923706055  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452071  
**Test Type:** Draw Down  
**Test Duration:** 60  
**Test Level:** 14.210000038146973  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452053  
**Test Type:** Draw Down  
**Test Duration:** 4  
**Test Level:** 11.899999618530273  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452056  
**Test Type:** Recovery  
**Test Duration:** 5  
**Test Level:** 13.670000076293945  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452063  
**Test Type:** Draw Down  
**Test Duration:** 25  
**Test Level:** 12.880000114440918  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452048  
**Test Type:** Recovery  
**Test Duration:** 1  
**Test Level:** 14.039999961853027  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452050  
**Test Type:** Recovery  
**Test Duration:** 2  
**Test Level:** 13.960000038146973  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452051  
**Test Type:** Draw Down  
**Test Duration:** 3  
**Test Level:** 11.850000381469727  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452062

**Test Type:** Recovery  
**Test Duration:** 20  
**Test Level:** 13.0  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452064  
**Test Type:** Recovery  
**Test Duration:** 25  
**Test Level:** 12.920000076293945  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452072  
**Test Type:** Recovery  
**Test Duration:** 60  
**Test Level:** 12.5  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452047  
**Test Type:** Draw Down  
**Test Duration:** 1  
**Test Level:** 11.770000457763672  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452049  
**Test Type:** Draw Down  
**Test Duration:** 2  
**Test Level:** 11.829999923706055  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452068  
**Test Type:** Recovery  
**Test Duration:** 40  
**Test Level:** 12.630000114440918  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452066  
**Test Type:** Recovery  
**Test Duration:** 30  
**Test Level:** 12.789999961853027  
**Test Level UOM:** ft

**Draw Down & Recovery**

**Pump Test Detail ID:** 1006452070  
**Test Type:** Recovery  
**Test Duration:** 50  
**Test Level:** 15.539999961853027  
**Test Level UOM:** ft

**Water Details**

**Water ID:** 1006452044  
**Layer:** 1  
**Kind Code:** 1  
**Kind:** FRESH  
**Water Found Depth:** 10.0  
**Water Found Depth UOM:** ft

**Hole Diameter**

**Hole ID:** 1006452043  
**Diameter:** 8.0  
**Depth From:** 21.0  
**Depth To:** 22.0  
**Hole Depth UOM:** ft  
**Hole Diameter UOM:** inch



# 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 Nov 2021**

## **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-Mar 2022**

## **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-May 31, 2022**

## **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 2020**

**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: Feb 28, 2022**

**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-May 31, 2022**

**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 -Apr 2022**

**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-Jun 2022**

**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 - Jul 31, 2022**

**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: Feb 28, 2022**

**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- Jun 30, 2022**

**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 - Jul 31, 2022**

**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- Jun 30, 2022**

**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-Mar 31, 2022**

**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: Apr 30, 2022**

**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, 2021**

**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: Feb 28, 2022**

**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-Jun 2022**

**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: Feb 28, 2022**

**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-Apr 30, 2022**

**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 2019**

**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: Feb 28, 2022**

**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: Mar 21, 2022**

**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-Feb 2022**

**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, 2020**

**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-Jun 30, 2021**

**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](http://www.nickles.com).

**Government Publication Date: 1988-May 31, 2022**

**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-Jan 2021**

**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 - Jul 31, 2022**

**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- Jun 30, 2022**

**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: Feb 28, 2021**

**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 - Jul 31, 2022**

**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: 1986-1990, 1992-2019**

**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-Jul 2022**

**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-May 31, 2022**

**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. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

**Government Publication Date: 1988-Sep 2020; Dec 2020-Mar 2021**



**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, 2020**

**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: Feb 28, 2022**

**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- Jun 30, 2022**

**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: Jan 31, 2022**

# 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.

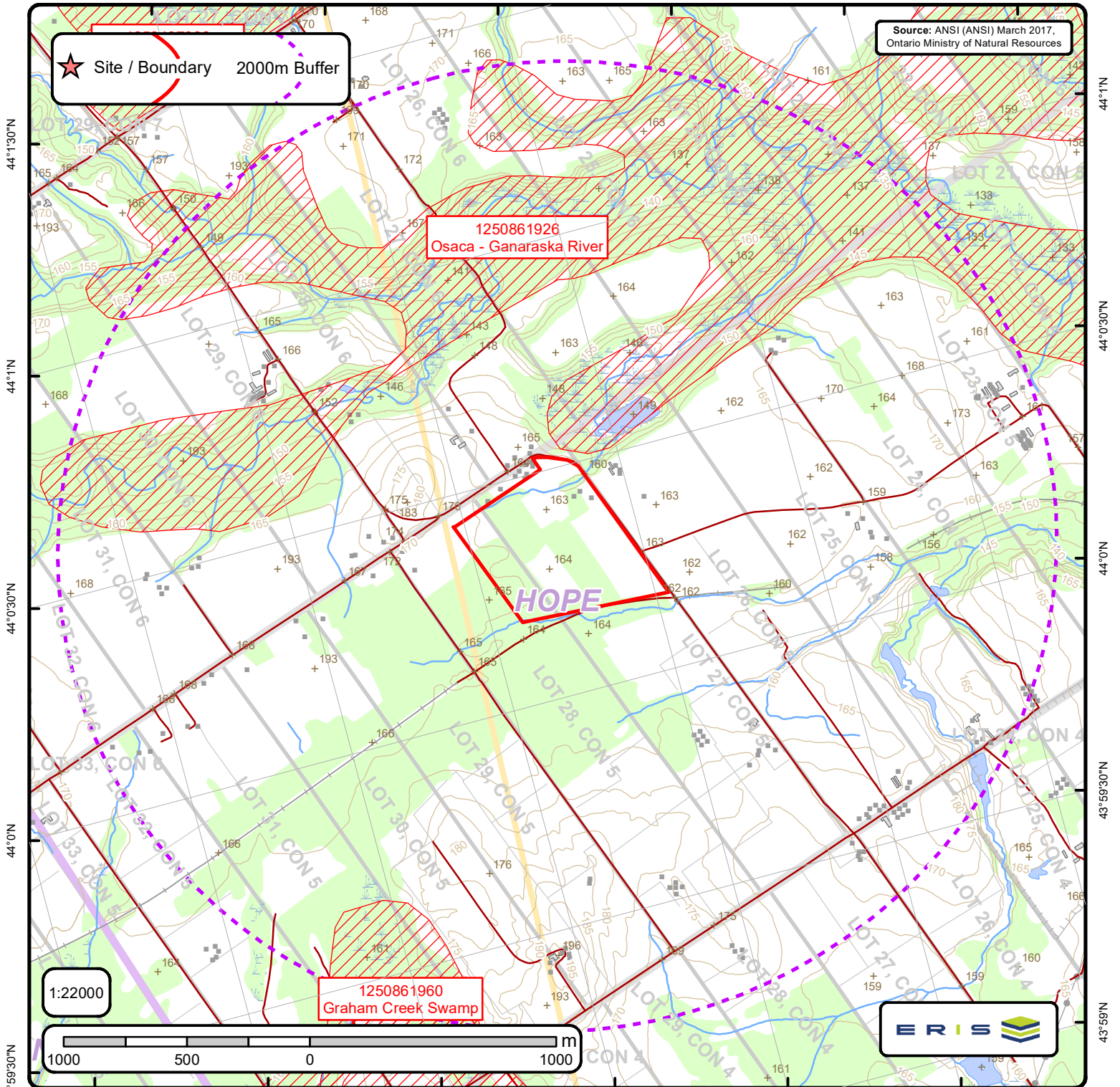
'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

**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.

78°27'W 78°26'30"W 78°26'W 78°25'30"W 78°25'W 78°24'30"W



## Area of Natural & Scientific Interest (ANSI) Order No. 22083104955

+	Spot Height	—	Transportation Structure	—	Contour Line	■	Wooded Area
■	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⚙	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
- - -	Trail	■	Building to Scale	■	Land Ownership	■	ANSI Area



# ANSI Report

ANSI Units Found within 2000 m of  
5868 County Road 65

Page 1  
Order No.  
22083104955



**ANSI Name:** Graham Creek Swamp

**ID:** 1250861960 | **Type:** ANSI, Life Science | **Significance:** Regional | **Management Plan:** | **Area (sqm):** 1789632.786 | **Comments:**

**ANSI Name:** Lake Iroquois Archipelago

**ID:** 67882721 | **Type:** Candidate ANSI, Earth Science | **Significance:** Provincial | **Management Plan:** | **Area (sqm):** 5511928.464 |  
**Comments:**

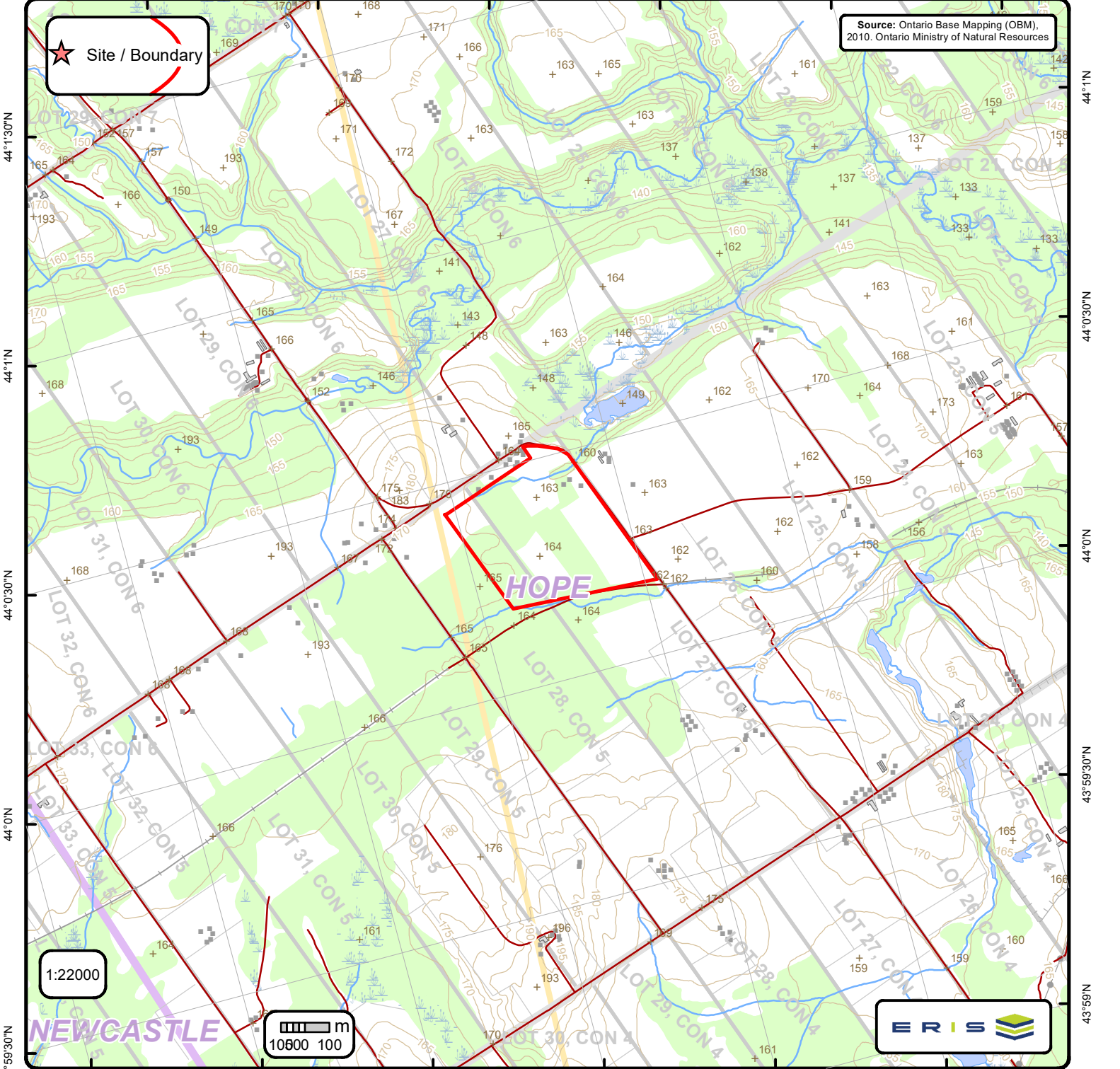
**ANSI Name:** Osaca - Ganaraska River

**ID:** 1250861926 | **Type:** ANSI, Life Science | **Significance:** Regional | **Management Plan:** | **Area (sqm):** 3959836.987 | **Comments:**

78°27'W 78°26'30"W 78°26'W 78°25'30"W 78°25'W 78°24'30"W

Source: Ontario Base Mapping (OBM), 2010. Ontario Ministry of Natural Resources

★ Site / Boundary



# Ontario Base Mapping (OBM) Data

Order No. 22083104955

+ Spot Height (metre)	— Transportation Structure	— Contour Line	Wooded Area
■ Building Point	— Utility Line	▭ Pit or Quarry	▭ Conservation Authority
⊗ Towers	— Water Structure	▭ Waterbody	▭ Conservation Area
● Utility Site Point	— Drainage Line Feature	▭ Wetlands	▭ Municipal Park
— Misc. Line	— River or Stream	▭ Concession	▭ Provincial Park
— Railroads	▭ Airports	▭ Lots	▭ National Park
— Roads	■ Tanks	▭ Municipality	▭ Nature Reserve
- - - Trail	▭ Building to Scale	▭ Land Ownership	



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**Appendix F**  
**Freedom of Information**

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## Ministry of the Environment, Conservation and Parks

### Freedom of Information Request for Property Information

#### Instructions

Use this form to:

- submit and pay for a new FOI request for access to records/information about a property
- pay for a deposit or a final fee on an existing FOI request

Fields marked with an asterisk (\*) are mandatory.

**Are you: \***

- Submitting a new FOI Request for Property Information
- Paying a deposit or final fee for an existing FOI Request for Property Information

#### Section 1 – Description of Records Requested

##### Time Period for Records Requested

From (yyyy/mm/dd) \*

1900/01/01

To (yyyy/mm/dd) \*

2022/09/21

##### Type of Record(s) \*

- All environmental records relating to the identified property/site exclusive of Environmental Approvals and Registrations
- Environmental Approvals and Registrations (e.g. Environmental Compliance Approvals; Certificate of Approval; Renewable Energy Approvals; Environmental Activity and Sector Registry Registrations)

Select only if you are seeking access to an Approval or Registration that is not publicly available or if you are also seeking supporting documents relating to the Approval or Registration.

Operator and vendor Pesticide Licenses from September 4, 2018, final Approvals and Registrations are publicly available on the Access Environment website at:

<https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en>.

Records of Site Condition (RSC) records are publicly available on the Brownfields Environmental Site Registry (BSER).

- RSC records between 2004 to June 30, 2011 are available at:  
<https://www.lrcsde.lrc.gov.on.ca/besrWebPublic/generalSearch>
- RSC records filed after July 2011 are available at:  
[https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/earchFiledRsc\\_search?request\\_locale=en](https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/earchFiledRsc_search?request_locale=en)

Other Specific Document(s)

##### Type of Approval/Registration \*

- Drinking Water Licenses
- No Supporting Documents  All Supporting Documents  Some Supporting Documents
- Pesticide Licenses

Only pesticide licenses post September 2018 are available. Prior to September 2018, only Pesticide license applications and supporting documentation is available

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Permits to Take Water

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Water Source \*

Groundwater  Surface Water

Noise Vibrations Approvals/Registrations

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Air Emissions Approvals/Registrations

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Water Approvals/Registrations - Ontario Water Resources Commission, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster), mains

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Sewage – Treatment, Stormwater, Storm, Leachate & Lieachate Treatment & Sewage pump stations, Sanitary

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Waste Water - Industrial discharge

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Waste Sites - Disposal, Landfill sites, Transfer stations, Processing sites, Incinerator sites

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Waste Management Systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, Polychlorinated Biphenyls (PCBs) storage, transfer or destruction, Waste Generator Systems)

No Supporting Documents  All Supporting Documents  Some Supporting Documents

Company Name

Waste Generator Registration - number/class

List any record(s) that should be excluded from the scope of your request (e.g. email correspondences; records originating from your organization/business; records already in your possession, prior year(s) annual reports for approvals)

Please provide any additional relevant information relating to your request. For example, does your request relate to any other ministry business? Please note that this information is being requested only in order to provide contextual information to the Access and Privacy Office and will not in any way affect or expedite the status of any related ministry business identified.



## Section 2 – Requester Information

Last Name \*  First Name \*  Middle Initial

Business/Organization Name (if applicable or indicate "N/A") \*

Project/Reference Number (if applicable)

Are you submitting this request on behalf of a client? \*

Yes  No

### Mailing Address

Unit Number  Street Number \*  Street Name \*

PO Box  City/Town \*  Province \*  Postal Code \*

Telephone Number \*  ext.  Email Address \*

Is there an alternate contact (e.g. office admin)? \*

Yes  No

### Alternate Contact

Last Name \*  First Name \*

Telephone Number \*  ext.  Email Address \*

## Section 3 – Current Property Address Information

Is the property a:

Park  Lake  First Nation Band  Wind Farm  Federal Land  Island  Unsurveyed Land

Are you requesting information about multiple addresses? \*

Yes  No

### Property Address

Unit Number  Street Number  Street Name

Full Lot Number  Concession  Geographic Township

City/Town/Village \*

Closest Intersection

## Section 4 – Previous Property Address Information

Do you want the ministry to search all prior historical addresses for this property/site for the time period of the records requested? \*

Yes  No

## Section 5 – Owner Information

Please provide all present and previous property owner and/or tenant names for the search years requested.

### Current Property Owner/Tenant

5868 County Road 65

Port Hope

Owner Name

N/A

Date of Ownership (yyyy/mm/dd)

Tenant Name

## Section 6 – Supporting Documents

Please upload any documents (e.g. Maps) that are relevant to your FOI request.

The total size of all attachments must not be more than 8 MB.

1. File Name

Total File Size

Payment confirmation number: 24376046



**DRAFT**

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**Appendix G**  
**Aerial Photo Summary**

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Year	Source	Notes
1928	NAPL	<p>The Site appears to consist primarily of vacant undeveloped/agricultural land, with orchards evident on the east and southeast portions.</p> <p>The surrounding area appears to consist primarily of vacant undeveloped/agricultural land with sporadic residential dwellings evident. In addition, the roadways in the vicinity of the Site appeared similar to their present-day configuration, and a railway line was evident approximately 10 m south of the Site.</p>
1959	NAPL	<p>No significant changes to the Site or surrounding area; however, a residential dwelling of similar size and configuration to the current Site Building is evident on the east-northeast portion of the Site, and the on-site orchard appeared to have expanded onto the central portion of the Site. Additional residential dwellings are visible within the phase one study area.</p>
1965	NAPL	<p>No significant changes to the Site or surrounding area.</p>
1974	NAPL	<p>No significant changes to the Site or surrounding area.</p>
1988	NAPL	<p>No significant changes to the Site or surrounding area; however, the railway line south of the Site is no longer evident. In addition, the property located at 5992 County Road 65 appears to have a vehicle storage/parking area, potentially for towing or automotive repair/servicing activities.</p>
2008	Northumberland	<p>The previously-observed on-site orchards are no longer evident, and these areas consist of agricultural land or vacant undeveloped land.</p> <p>No significant changes to the surrounding area.</p>
2013	Northumberland	<p>No significant changes to the Site or surrounding area.</p>
2028	Northumberland	<p>No significant changes to the Site or surrounding area.</p>

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 Northumberland – County of Northumberland online GIS



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**Appendix H**  
**Photographs**

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***Photo 1 North side of the on-site residential dwelling, September 7, 2022.***



***Photo 2 South side of the on-site residential dwelling, September 7, 2022.***



***Photo 3 East side of the on-site residential dwelling, September 7, 2022.***



***Photo 4 West side of the on-site residential dwelling, September 7, 2022.***





***Photo 5 View of the on-site barn, September 7, 2022.***



***Photo 6 View of the on-site shed, September 7, 2022.***



**Photo 7 Dug well northwest of the on-site residential dwelling, September 7, 2022.**



**Photo 8 Propane ASTs north of the on-site residential dwelling (PCA), September 7, 2022.**



***Photo 9 Properties south of the Site, September 7, 2022.***



***Photo 10 Properties east of the Site, September 7, 2022.***



***Photo 11 Properties west of the Site, September 7, 2022.***



***Photo 12 Pole-mounted oil-cooled transformer east of the Site (PCA), September 7, 2022.***