



FINAL

Phase One Environmental Site Assessment

3399 Appleby Line
Burlington, Ontario

Prepared for:

**Summit Industrial Income
REIT**

110 Cochrane Drive, Suite 120
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1.0 EXECUTIVE SUMMARY

Pinchin Ltd. (Pinchin) was retained by Summit Industrial Income REIT (Client) to complete a Phase One Environmental Site Assessment (Phase One ESA) of the property located at 3399 Appleby Line in Burlington, Ontario (hereafter referred to as the Site or Phase One Property). The Phase One Property is presently vacant and undeveloped, consisting of agricultural land.

Pinchin conducted this Phase One ESA in accordance with Part VII and Schedule D of the Province of Ontario's *Environmental Protection Act R.S.O. 1990, c. E.19* and *Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act*, as amended (O. Reg. 153/04). The purpose of the Phase One ESA was to assess the potential presence of environmental impacts at the Phase One Property due to activities at and near the Phase One Property.

This Phase One ESA was conducted at the request of the Client for the future development of the Phase One Property. It is Pinchin's understanding that the Phase One Property will be developed for industrial use. Although the proposed development does not result in a change of land use to a more sensitive land use, it is Pinchin's understanding that the City of Burlington (City) and Region of Halton (Region) require the preparation of a Phase One ESA in accordance with the Ontario Ministry of the Environment, Conservation and Parks (MECP) as per O. Reg. 153/04 before the development can proceed, with reliance to the City / Region required as part of the permitting process.

The scope of work for this Phase One ESA was consistent with O. Reg. 153/04 in support of filing an RSC and was comprised of the following:

- A Records Review: Reviewed available current and historical information sources pertaining to the Phase One Property and Phase One Study Area including the use of, but not limited to, aerial photographs, city directories, Fire Insurance Plans, Property Underwriters' Reports and Property Underwriters' Plans, chain of title search results, historical environmental assessments relevant to the Phase One Property and a regulatory data base search. Regulatory agencies were also contacted to identify if any records of environmental non-compliance or other information associated with the environmental condition of the Phase One Property exists, including searches of MECP and Technical Standards and Safety Authority records.
- Interviews: Conducted interviews with a Site Representative (see Section 5.0) to determine if any current or historical operations have caused a concern with respect to the environmental condition of the Phase One Property and the surrounding properties within the Phase One Study Area.
- Site Reconnaissance: Completed a visual assessment of the Phase One Property and the surrounding properties within the Phase One Study Area (from publicly-accessible



areas) including any associated buildings and/or facilities for the purpose of identifying the presence of potentially contaminating activities (PCAs).

- Evaluation: Evaluated the information gathered from the records review, interviews and Site reconnaissance.
- Reporting: Prepared a Phase One ESA report.
- Submission: Submitted the Phase One ESA report to the Client.

The Phase One Property consists of the civic address 3399 Appleby Line, Burlington, Ontario which is currently owned by Summit (3399 Appleby Line) Ltd. The Phase One Property is located on the northeast side of Appleby Line, southeast of Highway 407 and approximately 180 m northwest of Harrison Court in the City of Burlington. The current and past land uses of the Phase One Property are summarized in Table 1 (all Tables are provided in Appendix A and all appendices are provided in Section 10.0).

The current and past land uses of the Phase One Property are listed in Table 1. A review of the ServiceOntario Parcel Register determined that the Phase One Property was owned by Mikalda Farms Limited from 1968 to 2021.

To the best of Pinchin's knowledge, no building or structure has been constructed on the Phase One Property, based on a review of aerial photographs dated between 1934 and 2021 that showed the Phase One Property to be undeveloped, vacant land. No other historical records were available to Pinchin that provided information for determining the date of first developed use of the Phase One Property.

The review of information obtained from historical records, interviews and a Site reconnaissance completed by Pinchin for the Phase One ESA did not identify any PCAs at the Phase One Property or within the Phase One Study Area outside of the Phase One Property (i.e., off-Site) that are considered to result in APECs at Phase One Property. One off-Site PCA was identified but this PCA is not considered to result in an APEC at the Phase One Property given its distance from the Phase One Property and its downgradient location with respect to the inferred groundwater flow direction at the Phase One Property. Based on these findings, nothing was identified that is likely to have resulted in impacts to the soil and groundwater at the Phase One Property that would require the completion of a Phase Two ESA. As such, it is Pinchin's opinion that the Phase One Property is suitable for the intended future industrial land use.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

This report has been issued without having received a response from a request for information sent to the Ontario Ministry of the Environment, Conservation and Parks. Once a response from this regulatory body is received, the information will be incorporated into a revised version of this report. Our conclusions and recommendations may be amended based on this information.

2.0 INTRODUCTION

A Phase One ESA is defined as a systematic qualitative process to determine whether a particular property is, or may be subject to, actual or potential contamination. Under the Province of Ontario's *Environmental Protection Act R.S.O. 1990, c. E.19* (EPA) and *Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act*, as amended (O. Reg. 153/04), the purpose of a Phase One ESA is two-fold:

- To obtain and review records that relate to the Phase One Property, and to the current and past uses of and activities at or affecting the Phase One Property, in order to determine if an area of potential environmental concern (APEC) exists and to interpret any APEC; and
- To obtain and review records that relate to properties in the Phase One Study Area, other than the Phase One Property, in order to determine if a potentially contaminating activity (PCA) exists and interpret whether any such PCA results in an APEC at the Phase One Property.

This Phase One ESA was conducted at the request of the Client for the future development of the Phase One Property. It is Pinchin's understanding that the Phase One Property will be developed for industrial use. Although the proposed development does not result in a change of land use to a more sensitive land use, it is Pinchin's understanding that the City of Burlington (City) and Region of Halton (Region) require the preparation of a Phase One ESA in accordance with the Ontario Ministry of the Environment, Conservation and Parks (MECP) as per O. Reg. 153/04 before the development can proceed, with reliance to the City / Region required as part of the permitting process.

A Phase One ESA does not include sampling or testing of environmental media or building materials. The study period for this assessment was from April to May 2022, which included the records review, Site reconnaissance, interviews and reporting.

2.1 Phase One Property Information

The Phase One Property consists of the civic address 3399 Appleby Line, Burlington, Ontario which is currently owned by Summit (3399 Appleby Line) Ltd. The Phase One Property is located on the northeast side of Appleby Line, southeast of Highway 407 and approximately 180 m northwest of Harrison Court, as shown on Figure 1 (all Figures are provided in Appendix B). A plan showing the Phase One Property is provided as Figure 2, and the Phase One Study Area for which this Phase One ESA applies to is outlined on Figure 3. Photographs of the Phase One Property and surrounding properties are presented in Appendix C. A current legal survey of the Phase One Property is included in Appendix D.

Pertinent details of the Phase One Property are provided in the following table:



Detail	Source / Reference	Information
Legal Description	Service Ontario Parcel Register	Part Lot 5, Concession 1 NDS, Part 18, 19, 22 & 26, 20R11389, S/T PE 135, Burlington / Nelson Township
Municipal Address	https://burlington.maps.arcgis.com/ Client	3399 Appleby Line, Burlington, Ontario
Parcel Identification Number (PIN)	ServiceOntario Parcel Register	07201-0013 (LT)
Current Owner	ServiceOntario Parcel Register	Summit (3399 Appleby Line) Ltd.
Owner Contact Information	Client	Summit (3399 Appleby Line) Ltd. c/o Summit Industrial Income REIT 110 Cochrane Drive, Suite 120, Markham, Ontario L3R 9S1
Current Occupant(s)	Client	Vacant
Client	Authorization to Proceed Form for Pinchin Proposal	Summit Industrial Income REIT
Client Contact Information	Authorization to Proceed Form for Pinchin Proposal	Summit Industrial Income REIT 110 Cochrane Drive, Suite 120, Markham, Ontario L3R 9S1
Site Area	https://burlington.maps.arcgis.com/ Client	4.76 hectares (11.76 acres)
Current Zoning	https://burlington.maps.arcgis.com/	D - Development
Centroid UTM Co-ordinates	Garmin eTrex LEGEND HCx, NAD 83, Accuracy +- 3 m	595752 Easting 4807565 Northing Zone 17T

3.0 SCOPE OF INVESTIGATION

Pinchin conducted this Phase One ESA in accordance with O. Reg. 153/04, in particular Part VII and Schedule D of O. Reg. 153/04. The Phase One ESA scope of work was comprised of the following:

- A Records Review: Pinchin reviewed available current and historical information sources pertaining to the Phase One Property and surrounding properties within the Phase One Study Area including the use of, but not limited to, aerial photographs, city directories, historical environmental assessments relevant to the Phase One Property, and a regulatory data base search. Regulatory agencies were also contacted to identify if any records of environmental non-compliance or other information associated with the environmental condition of the Phase One Property exist, including the MECP's Freedom



of Information and Protection of Privacy Office and the Technical Standards and Safety Authority (TSSA).

- Site Reconnaissance: Pinchin completed a visual assessment of the Phase One Property and the surrounding properties within the Phase One Study Area (from publicly-accessible areas) including any associated buildings and/or facilities for the purpose of identifying the presence of significant environmental contaminants of concern.
- Evaluation: Pinchin evaluated the information gathered from the records review, interviews and Site reconnaissance.
- Reporting: Pinchin prepared a Phase One ESA report summarizing the findings of the Phase One ESA.
- Submission: Pinchin submitted the Phase One ESA report to the Client.

4.0 RECORDS REVIEW

4.1 General

Identified off-Site PCAs described in this and subsequent report Sections are summarized in Table 2 and their locations are shown on Figure 4.

Each on-Site PCA is associated with an APEC at the Phase One Property. Each off-Site PCA was characterized as to whether it resulted in an APEC at the Phase One Property. In making this determination, the proximity, location relative to the inferred groundwater flow direction, nature of operations and potential contaminants were considered. In general, PCAs that were relatively close to the Phase One Property and/or were at properties upgradient of the Phase One Property with respect to the inferred groundwater flow direction were considered PCAs resulting in APECs. Conversely, PCAs that were distant from the Phase One Property and/or were at properties downgradient or transgradient of the Phase One Property with respect to the inferred groundwater flow direction were not considered PCAs resulting in APECs. The type of operations and potential contaminants associated with the PCAs were also evaluated. Factors such as whether the PCA had a high probability of contamination (e.g., dry cleaners, retail fuel outlets (RFOs), automotive service garages, etc.) and mobility of the potential contaminants in the subsurface were considered during the evaluation.

4.1.1 Phase One Study Area Determination

Based on a review of the available historical information and observations made during the Site reconnaissance for the properties greater than 250 metres (m), but less than 1 kilometre (km), from the Phase One Property boundary, Pinchin did not note or observe any significant potentially contaminating properties that should be included as part of this assessment (e.g., landfills, large industrial



manufacturers, etc.). As such, the Phase One Study Area consisted of the Phase One Property, as well as all properties situated wholly, or partly, within 250 m from the nearest point of a boundary of the Phase One Property, in order to meet the minimum requirements set forth in O. Reg. 153/04.

4.1.2 First Developed Use Determination

The first developed land use of the Phase One Property is defined by O. Reg. 153/04 to be the earlier of:

- 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
- The first potentially contaminating use or activity on the Phase One Property.

A review of the ServiceOntario Parcel Register determined that the Phase One Property was owned by Mikalda Farms Limited from 1968 to 2021.

To the best of Pinchin's knowledge, no building or structure has been constructed on the Phase One Property, based on a review of aerial photographs dated between 1934 and 2021 that showed the Phase One Property to be undeveloped, vacant land.

4.1.3 Fire Insurance Plans

Pinchin contacted Opta Information Intelligence (Opta) to obtain FIPs related to the Phase One Property and the Phase One Study Area. A response was received from Opta dated April 20, 2022, which indicated that no FIPs for the Phase One Property and Phase One Study Area were available. The Opta response is provided in Appendix E.

4.1.4 Chain of Title

A chain of title search was not completed for the Phase One ESA. The available historical records reviewed by Pinchin included aerial photographs from 1934 to 2021, and city directories for various years between 1959 and 2013. These records indicate that the Phase One Property has never been developed and it was Pinchin's opinion that a chain of title search would not provide any additional information regarding the environmental condition of the Phase One Property.

4.1.5 Environmental Reports

The following previous environmental reports for the Phase One Property, as provided by the Client, were reviewed by Pinchin:

- *"Phase Two Environmental Site Assessment, 3399 Appleby Line, Burlington, Ontario"* prepared for Appleby 407 Limited Partnership by its general partner, Appleby 407 Inc., by GHD Limited (GHD), and dated July 9, 2021 (2021 GHD Phase Two ESA); and



- “*Geotechnical Investigation for Proposed Industrial Development, 3399 Appleby Line, Burlington, Ontario*” prepared by J.T. Donald Consultants Limited (Donald) and dated August 11, 2021 (2021 Donald Geotechnical Investigation).

Pinchin reviewed the available analytical data provided in the above-referenced reports to assess whether there are any known soil and groundwater impacts at the Phase One Property.

Given the available information on the characteristics of the Phase One Property, its future land use (i.e., industrial), and its proximity to an Area of Natural and Scientific Interest (ANSI) (refer to Section 4.3.4 of this report), the applicable Site Condition Standards, as defined by the MECP in the document “*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*”, dated April 15, 2011, are:

- *Table 1: Full Depth Background Site Condition Standards (Table 1 Standards)* for residential / parkland / institutional / industrial / commercial / community property use (i.e., the proposed future use of the Phase One Property) and fine-textured soils.

As such, the analytical data provided in the previous reports were compared with the *Table 1 Standards* to assess whether there are any known areas on the Phase One Property or in the Phase One Study Area where soil or groundwater has parameter concentrations exceeding the *Table 1 Standards*.

A summary of the salient information identified in the reports is provided below.

2021 GHD Phase Two ESA

The GHD Phase Two ESA was completed following a Phase One ESA completed by GHD in May 2021. A copy of the GHD Phase One ESA was not available for Pinchin’s review. It was reported that the Phase One ESA identified an on-Site PCA in the application of pesticides (PCA #40 – Pesticides (including Herbicides, Fungicides, and Anti-Fouling Agents) Manufacturing, Bulk Storage and Large-Scale Applications). This on-Site PCA resulted in an APEC at the Phase One Property. It is unclear if GHD reviewed records that indicated that pesticides were applied to the Site or if this PCA was assumed given its use.

To assess this APEC, GHD advanced four (4) shallow boreholes across the Site using a hand auger. The boreholes were advanced to 0.15 mbgs. Soil samples were collected from the boreholes and submitted for laboratory analysis of metals, organochlorine pesticides (OCP), pH and/or grain size.

The grain size analysis from three (3) submitted samples indicated that the soil was fine-textured (81%, 83% and 81%). The pH values were also within the required range (>5 to <9) for surface soil (6.30, 6.20 and 6.10). The concentrations of metals and OCP in the submitted soil samples met the *Table 1 Standards*.

2021 Donald Geotechnical Investigation



The 2021 Donald Geotechnical Investigation consisted of the advancement of thirteen boreholes at the Phase One Property. The subsurface conditions at the Site consisted of topsoil and disturbed native soils followed by glacial till (sandy silt to silt) to the maximum borehole depth of 7 mbgs. Groundwater was encountered at 4.3 and 5.8 mbgs in two of the boreholes; however, no monitoring wells were installed as part of this geotechnical investigation.

4.1.5.1 Previous Environmental Report Summary

Based on Pinchin's review of the above-referenced previous environmental reports, it is Pinchin's opinion that the PCA identified by GHD has been adequately assessed and that it no longer represents an APEC at the Site. Furthermore, no additional PCAs were identified within the Phase One Study Area.

4.2 Environmental Source Information

Pinchin reviewed the historical use of the Phase One Study Area through the use of publicly available archives and databases, as well as through requesting information from regulatory agencies. The following provides a summary of the information obtained from these sources.

4.2.1 Environmental Database Search – ERIS

Pinchin retained Environmental Risk Information Services (ERIS) to search all available federal, provincial and private source databases for information pertaining to the Phase One Study Area. Unless otherwise noted, information obtained from the ERIS database search was reviewed for the entire Phase One Study Area. A copy of the ERIS report is provided in Appendix G and the results of the database search are described in the following sections.

4.2.1.1 National Pollutant Release Inventory

ERIS completed a search of the federal databases for information regarding the National Pollutant Release Inventory (NPRI). This database contains comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances and identifies information such as the approximate location, type and quantity of contaminant, date of release, and media impacted.

Pinchin reviewed the ERIS report for NPRI information and found no records regarding the Phase One Study Area.

4.2.1.2 Ontario Inventory of PCB Storage Sites

The MECP's Waste Management Branch maintains an inventory of PCB storage sites within Ontario. Ontario Regulation 11/82 and Ontario Regulation 347 (O. Reg. 347), made under the EPA, require the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the MECP. This



database contains information on waste quantities, major and minor sites storing liquid or solid waste, and a waste storage inventory.

ERIS completed a search of the Ontario Inventory of PCB Storage Sites for information regarding PCB storage and found no information regarding the Phase One Study Area.

4.2.1.3 National PCB Inventory

Environment Canada maintains an inventory of in-use PCB-containing equipment at federal, provincial and private facilities in Canada, and of out-of-service PCB-containing equipment and PCB waste owned by the federal government or federally regulated industries.

ERIS completed a search of the National PCB Inventory and found no information regarding the Phase One Study Area.

4.2.1.4 Certificates of Approval

ERIS completed a search of the MECP database for information regarding Certificates of Approval (Cs-of-A). The MECP maintains a database of approved Cs-of-A for Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. Prior to November 1, 2011, the MECP mandated that any facility that released emissions to the atmosphere, discharged contaminants to ground or surface water, provided potable water supplies, or stored, transported or disposed of waste, must have a C-of-A before it could operate lawfully. The MECP no longer issues Cs-of-A, which were replaced by Environmental Compliance Approvals (ECAs) as of November 1, 2011. O. Reg. 153/04 indicates that information from the C-of-A database only needs to be obtained for the Phase One Property and properties adjacent to the Phase One Property.

The ERIS search of the C-of-A database identified no information regarding Cs-of-A for the Phase One Property or for properties adjacent to the Phase One Property.

4.2.1.5 Environmental Compliance Approvals, Permits To Take Water and Certificates of Property Use

ERIS completed a search of the MECP database for information regarding ECAs, permits including Permits To Take Water (PTTWs) and Certificates of Property Use (CPUs). O. Reg. 153/04 indicates that information from these databases only needs to be obtained for the Phase One Property and properties adjacent to the Phase One Property. Details regarding these databases are provided in the ERIS report in Appendix G.

The ERIS database search identified no information regarding ECAs, PTTWs or CPUs for the Phase One Property and properties adjacent to the Phase One Property.

4.2.1.6 Inventory of Coal Gasification Plants

ERIS searched the following publications prepared for the MECP by Intera Technologies Inc. for information on industrial sites that formerly operated as coal gasification plants, and industrial sites that produced or used coal tar and other related tars:

- “*Inventory of Coal Gasification Plant Waste Sites in Ontario*”, dated April 1987; and
- “*Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario*”, dated November 1988.

The ERIS search yielded no records of former coal gasification plants or the production or use of coal tar and related tars within the Phase One Study Area.

4.2.1.7 Environmental Incidents, Orders, Offences and Spills

ERIS completed a search of the various provincial and federal databases for information regarding environmental incidents, orders, offences and spills. O. Reg. 153/04 indicates that information from these databases only needs to be obtained for the Phase One Property and properties adjacent to the Phase One Property. Details regarding the searched databases are provided in the ERIS report in Appendix G.

The ERIS database search revealed no records of environmental incidents, orders, offences or spills for the Phase One Property and properties adjacent to the Phase One Property.

4.2.1.8 Waste Management Records

Waste Generators

ERIS completed a search of the O. Reg. 347 Waste Generators database for information regarding waste generation. O. Reg. 347 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. The database search results provide a summary of available waste generation information for the registered sites for all years from 1986 to the present.

O. Reg. 153/04 indicates that information from the Waste Generator database only needs to be obtained for the Phase One Property and properties adjacent to the Phase One Property. However, in addition to the Phase One Property and adjacent off-Site properties, Pinchin reviewed the database for waste generators within 50 m transgradient and 100 m upgradient of the Phase One Property with respect to the

inferred groundwater flow direction. The area reviewed will be referred to as the Waste Generator Database Review Area.

The ERIS search of the O. Reg. 347 Waste Generators database found no information regarding the Waste Generator Database Review Area.

Waste Receivers

ERIS completed a search of the O. Reg. 347 Waste Receivers database for information regarding waste receivers. O. Reg. 347 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 contains 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.

O. Reg. 153/04 indicates that information from the Waste Receivers database only needs to be obtained for the Phase One Property and properties adjacent to the Phase One Property. However, in addition to the Phase One Property and adjacent off-Site properties, Pinchin reviewed the database for waste generators within 50 m transgradient and 100 m upgradient of the Phase One Property with respect to the inferred groundwater flow direction. The area reviewed will be referred to as the Waste Receivers Database Review Area.

The ERIS search of the O. Reg. 347 Waste Receivers database found no information regarding the Waste Receivers Database Review Area.

4.2.1.9 Fuel Storage Tanks

ERIS completed a search of various private, provincial and federal databases for information regarding chemical storage tanks, as well as private and retail fuel storage tanks. Details regarding the searched databases are provided in the ERIS report in Appendix G.

The ERIS search of the chemical and fuel storage tank databases found no information regarding the Phase One Study Area.

4.2.1.10 Notices and Instruments

ERIS completed a search of the provincial Environmental Registry for records pertaining to proposals, decisions, and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. ERIS also searched the Record of Site Condition database for filed RSCs.

4.2.1.11 Areas of Natural Significance

ERIS reviewed available databases and records to assess whether any parks, wetlands, conservation areas, or other areas of natural significance, are located within the Phase One Study Area. The Area of



Natural & Scientific Interest (ANSI) map is included in the ERIS report in Appendix G. In addition, Pinchin reviewed information provided on the Ministry of Natural Resources and Forestry's (MNRF) Natural Heritage Information Centre (NHIC) website. Based on these information sources, the following areas of natural significance were identified within the Phase One Study Area:

- Zimmerman Valley (a Life Science ANSI) is located adjacent to the northeast of the Phase One Property.
- Bronte Creek is located approximately 75 m northeast of the Phase One Property.

4.2.1.12 *Landfill Information*

ERIS reviewed available private and provincial databases for records of any current or inactive landfills and waste disposal sites within the Phase One Study Area. Details regarding the searched databases are provided in the ERIS report in Appendix G.

The ERIS search of the landfill and waste disposal sites databases found no information regarding the Phase One Study Area.

4.2.2 *Ministry of the Environment, Conservation and Parks Freedom of Information Search*

The MECP Freedom of Information and Protection of Privacy Office in Toronto, Ontario was contacted to determine if records exist for environmental matters such as orders, spills, previous investigations, prosecutions, registered PCB waste storage sites, waste generators, waste receivers, Cs-of-A and ECAs associated with the Phase One Property. The search was requested on April 13, 2022. At the time of writing this report, no response had been received from the MECP. When a formal response is received, it will be reviewed by Pinchin. If there is any information that represents a potential issue of environmental concern, a copy of the response will be forwarded to the Client under separate cover. Our conclusions and recommendations may be amended based on this information. A copy of Pinchin's request submitted to the MECP is provided in Appendix H.

4.2.3 *Technical Standards and Safety Authority Search*

The TSSA is the regulatory body that governs the safe handling and storage of fuel in Ontario. All storage of gasoline, diesel and fuel oil is subject to the Technical Standards and Safety Act. The Technical Standards and Safety Act and its relevant documents and regulations (e.g., *Liquid Fuels Handling Code*, *Ontario Regulation 213/01 – Fuel Oil*, *Ontario Regulation 217/01 – Liquid Fuels*) require that all fuel storage devices such as aboveground storage tanks (ASTs) and underground storage tanks (USTs) be registered with the TSSA.

Pinchin contacted the TSSA to determine whether any ASTs or USTs are, or were, registered for the Phase One Property. At the time of writing this report, no response had been received from the TSSA. When a formal response is received, it will be reviewed by Pinchin. If there is any information that



represents a potential issue of environmental concern, a copy of the response will be forwarded to the Client under separate cover. Our conclusions and recommendations may be amended based on this information. A copy of Pinchin's request to the TSSA is provided in Appendix I.

4.2.4 Property Underwriters' Reports and Plans

Property Underwriters' Reports (PURs) provide detailed information on a site-specific basis, including descriptions of building construction, heating sources, production processes, and the presence of any hazardous chemicals or materials which may have been historically stored on the Phase One Property. They also indicate the presence of environmental hazards such as electrical rooms, transformers, boilers and storage tanks. Information provided on Property Underwriters' Plans (PUPs) includes the location, capacity, and contents of aboveground storage tanks (ASTs), USTs, chemical storage and other forms of environmental hazards.

Pinchin contacted Opta to obtain copies of PURs and PUPs related to the Phase One Property. A response was received from Opta dated April 20, 2022, which indicated that no PURs or PUPs for the Phase One Property were available. The Opta response is provided in Appendix E.

4.2.5 City Directories

City directories for the years 1959 to 2013 were reviewed by Pinchin at the Central Public Library in Burlington, Ontario for the area within 100 m of the Phase One Property (City Directory Search Area). It should be noted that no city directories were available for the City of Burlington subsequent to 2001. A summary of information obtained with respect to the Phase One Property is provided in the following table:

Year(s)	Occupant Listings for Site Address
1959 to 2013	Not listed

Based on Pinchin's review of the above-noted city directories, no PCAs were identified at the Phase One Property.

In general, the city directories indicated that the properties in the City Directory Search Area have been historically occupied by commercial and residential land uses since approximately 1970. Based on Pinchin's review of the above-noted city directories, no PCAs, including historical dry-cleaning operations, RFOs or other operations of potential environmental concern, were identified in the City Directory Search Area.

4.3 Physical Setting Sources

4.3.1 Aerial Photographs

Pinchin reviewed aerial photographs of the Phase One Property and surrounding properties within the Phase One Study Area to assess the potential for historical PCAs. Copies of aerial photographs dated 1934, 1954, 1965, 1974, and 1985 were obtained from the National Air Photo Library in Ottawa, Ontario and reviewed by Pinchin. In addition, Pinchin reviewed satellite images provided by the City of Burlington GIS website (<https://burlington.maps.arcgis.com/>) dated 2002, 2012, 2017 and 2021. The 1934 aerial photograph was the earliest available aerial photograph of the Phase One Study Area.

Efforts were made by Pinchin to obtain aerial photographs that:

- Illustrated the period between initial development of the Phase One Property to the present.
- Identified buildings and structures present on the Phase One Property since initial development.
- Identified PCAs within the Phase One Study Area.
- Identified APECs on the Phase One Property.

It should be noted that accurate details could not be determined from some of the aerial photographs due to the reference scale and the resolution of the photographs.

A summary of information obtained with respect to the Phase One Property from a review of the available aerial photography is provided in the following table:

Year of Photograph	Phase One Property
1934	The Phase One Property appeared to consist of agricultural land (inferred row crops).
1954	Similar to above.
1965	Similar to above.
1974	Similar to above.
1985	Similar to above.
2002	Similar to above.
2012	Similar to above.
2017	Similar to above.
2021	Similar to above.



Based on the aerial photographs reviewed for the Phase One Property and the surrounding area, it appears that the Phase One Property remained undeveloped from 1934 to 2021.

The aerial photograph review did not identify any PCAs within the Phase One Study Area, including the Phase One Property. Copies of the aerial photographs of the Phase One Property and surrounding area are provided in Appendix J.

4.3.2 Topography, Hydrology and Geology

The elevation of the Phase One Property, based on information obtained from the Ontario Base Map series, is ranges from 160 to 165 m above mean sea level (mamsl). The general topography in the local and surrounding areas is generally flat with a downward slope towards Bronte Creek. No bedrock outcrops were observed on-Site or in the surrounding area. Based on data from the Ontario Geological Survey, the overburden thickness on-Site (i.e., depth to bedrock) is approximately 28 m.

A review of the available physiographical data indicates that the Phase One Property and the surrounding properties located within the Phase One Study Area are located within the till moraines as the dominant landform with the primary native material consisting of silt till. Bedrock is expected to consist of shale, limestone, dolostone and siltstone of the Queenston Formation at an elevation of 132 mamsl. The topography is considered to be mainly flat to rolling low local relief with dry surface water drainage conditions. During previous on-Site environmental investigations, the soil stratigraphy was observed to consist of topsoil and disturbed native soils followed by glacial till (sandy silt to silt) to the maximum borehole depth of 7 mbgs.

Based on general hydrogeological principles and Pinchin's familiarity with subsurface conditions at and near the Phase One Property and the surrounding properties within the Phase One Study Area, the unconfined groundwater beneath the Phase One Property is expected to flow in a southeasterly to easterly direction. Bronte Creek is located approximately 75 m northeast of the Site and flows southeast towards Lake Ontario, located approximately 8.5 km southeast of the Site.

Copies of pertinent maps, illustrating local topographical, hydrogeological and drainage features are provided in Appendix K.

4.3.3 Fill Materials

The historical records review provided no information regarding the presence of fill material at the Phase One Property.

Although the Phase One ESA did not identify any historical or current fill material at the Phase One Property, potential future development plans should incorporate the appropriate procedures for the characterization of soils that may require off-Site disposal. Further assessment and/or costs may be incurred through re-development of the Phase One Property and/or change in land use scenarios.

4.3.4 Water Bodies, Areas of Natural Significance and Groundwater Information

No water bodies were identified on the Phase One Property. Bronte Creek was located approximately 75 m northeast of the Phase One Property and flowed southeast towards Lake Ontario.

The Area of Natural & Scientific Interest map prepared by ERIS (see Appendix G) and information provided on the MNRF's NHIC website identified the following areas of natural significance within the Phase One Study Area:

- Zimmerman Valley (a Life Science ANSI) is located adjacent to the northeast of the Phase One Property.
- Bronte Creek is located approximately 75 m northeast of the Site.

A review of the Halton Region Sourcewater Protection mapping indicated that the Phase One Study Area is not located in whole or in part within a well head protection area or other designation identified by the City or Region for the protection of groundwater.

Based on information provided in the Halton Region Sourcewater Protection mapping, all other properties within the Phase One Study Area are serviced by a municipal drinking water system, with Lake Ontario serving as the source.

The records review did not identify the presence of wells within the Phase One Property or within the Phase One Study Area that currently supply water for human consumption or for agricultural purposes.

4.3.5 Well Records

The Water Well Information System database search did not identify any water well records for the Phase One Property but did identify 1 water well record within the Phase One Study Area outside of the Phase One Property. Details regarding this off-Site well, including stratigraphic information, depth to bedrock and/or depth to the water table, are provided in the ERIS report included in Appendix G.

4.4 Site Operating Records

The Phase One Property is not an Enhanced Investigation Property (see Section 6.3). As such, site operating records were not reviewed as part of the Phase One ESA.

5.0 INTERVIEWS

There was no Site Representative available at the time of the Site reconnaissance. However, Pinchin corresponded with the Client representative via email. Based on the correspondence, the Client indicated that the Phase One Property has not been developed.

Pinchin compared the information obtained from the interviews with information obtained from the historical records. The information provided by the interviewees was corroborated by the available



historical records. As such, Pinchin has no concerns regarding the validity of the information provided by the individuals interviewed for the Phase One ESA.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A visual assessment of the Phase One Property and the surrounding properties within the Phase One Study Area was conducted for the purpose of identifying the presence of possible PCAs and associated APECs.

The Site reconnaissance was completed on April 26, 2022 by the Pinchin QP overseeing this project. Pinchin visited the Phase One Property and surrounding properties within the Phase One Study Area to document environmental conditions. During the Site reconnaissance, Pinchin viewed all accessible areas within the Phase One Property and viewed publicly-accessible portions of the adjacent lands for the presence of actual or potential issues of environmental concern.

The Site reconnaissance was conducted between the hours of 9:00 AM and 10:00 AM. During the Site reconnaissance, the weather was overcast to rainy, and the ambient temperature was approximately 15° Celsius. The Phase One Property reconnaissance was conducted on foot and consisted of a full walk-through of the property. There were no access restrictions for Pinchin for the Phase One Property. At the time of the Site reconnaissance, the Phase One Property was vacant.

Photographs taken during the Site reconnaissance that illustrate the interior and exterior of the Site Building, Phase One Property and Phase One Study Area are provided in Appendix C.

6.2 Specific Observations at Phase One Property

6.2.1 Description of Buildings and Structures

There were no buildings or structures present on the Phase One Property at the time of the Site reconnaissance.

6.2.2 Description of Below-Ground Structures

There were no below-ground structures present on the Phase One Property at the time of the Site reconnaissance.

6.2.3 Description of Tanks

During the Site reconnaissance, Pinchin did not observe any tanks on the Phase One Property for the purpose of either fuel dispensing or storage, or other unidentified substance storage.

6.2.4 Potable and Non-Potable Water Sources

The Phase One Property is currently not serviced by a municipal water supply.

6.2.5 Description and Location of Underground Utilities

The Phase One Property has remained undeveloped and there are no known underground utilities.

6.2.6 Details of On-Site Wells

No water supply or groundwater monitoring wells were observed to be on or within the Phase One Property. No water supply or groundwater monitoring wells were reported by the Site owner to have been on-Site, prior to, or during their occupancy.

6.2.7 Details of Sewage Works

During the Site reconnaissance, Pinchin did not observe any sewage works or evidence of sewage disposal on the Phase One Property.

6.2.8 Details of Ground Cover

During the Site reconnaissance, Pinchin visually inspected the Phase One Property ground cover. The majority of the Phase One Property consists of vegetated / agricultural land, with the exception of an asphalt paved access route located along the southeast and partial northeast boundaries of the Phase One Property. This access route provides access to the Region's pumping station, located adjacent to the northeast of the Phase One Property.

6.2.9 Details of Current or Former Railways

No current or former railway infrastructure was observed on the Phase One Property.

6.2.10 Areas of Stained Soil, Vegetation and Pavement

During the Site reconnaissance, Pinchin did not observe any areas of stained soil, vegetation or pavement on the Phase One Property.

6.2.11 Areas of Stressed Vegetation

During the Site reconnaissance, Pinchin did not observe any areas of stressed vegetation on the Phase One Property.

6.2.12 Areas of Fill and Debris Materials

No obvious areas where fill material or debris have been placed or graded were observed by Pinchin at the Phase One Property.

6.2.13 *Potentially Contaminating Activities*

A PCA is defined by O. Reg. 153/04 as 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” including the Phase One Property.

Pinchin did not identify any current PCAs at the Phase One Property during the Site reconnaissance.

6.2.14 *Unidentified Substances Outside Buildings and Structures*

During the Site reconnaissance, Pinchin did not observe any unidentified substances or storage containers holding unidentified substances on the exterior of the Phase One Property.

6.2.15 *Surrounding Land Uses*

During the Site reconnaissance, Pinchin conducted a visual assessment of publicly-accessible portions of the Phase One Study Area for the presence of PCAs. The properties in the Phase One Study Area have various land uses, including agricultural, residential, commercial and natural areas. Land use types within the Phase One Study Area are presented on Figure 3.

The following table summarizes the land use on adjacent properties at the time of the Site reconnaissance:

Direction Relative to Phase One Property	Location Relative to Inferred Groundwater Flow Direction	Description of Property Use	Property Use	Potential Contribution to PCA and/or APEC
Northeast	Downgradient to transgradient	Appleby Pumping Station and Reservoir (3321 Appleby Line), Zimmerman Valley forest and Bronte Creek.	Community / natural area	Land uses are not considered to represent PCAs.
Southeast	Downgradient to transgradient	A vacant parcel (3309 Appleby Line) followed by Harrison Court, then commercial buildings, including Mr. Lube (3253 Appleby Line).	Residential/ commercial	Mr. Lube is a PCA that does not result in an APEC at the Phase One Property given that they are located more than 30 m from the Phase One Property.
Southwest	Upgradient to transgradient	Appleby Line followed by vacant / agricultural parcels, and a commercial plaza located southeast of Palladium Way.	Community / commercial / agricultural	Land uses are not considered to represent PCAs.

Direction Relative to Phase One Property	Location Relative to Inferred Groundwater Flow Direction	Description of Property Use	Property Use	Potential Contribution to PCA and/or APEC
Northwest	Upgradient to transgradient	Highway 407 followed by a carpool lot and agricultural land.	Community / agricultural	Land uses are not considered to represent PCAs.

Pinchin observed 1 PCA at the time of the Site reconnaissance within the Phase One Study Area. This additional PCA is summarized in Table 2.

6.3 Enhanced Investigation Property

O. Reg. 153/04 defines an “Enhanced Investigation Property” as a property that is being used or has been used, in whole or in part, in the following manner:

- For an industrial use or;
- For any of the following commercial uses:
 - As a garage;
 - As a bulk liquid dispensing facility, including a gasoline outlet; or
 - For the operation of dry cleaning equipment.

The findings of this Phase One ESA have not documented any of the above land uses as occurring at the Phase One Property, and the Phase One Property is therefore not an Enhanced Investigation Property.

6.4 Written Description of Investigation

The Phase One ESA completed by Pinchin included investigations of the Phase One Property and the Phase One Study Area outside of the Phase One Property pursuant to Sections 13 and 14 of Schedule D of O. Reg. 153/04. The main objective of these investigations was to identify PCAs at the Phase One Property or within the Phase One Study Area outside of the Phase One Property that could have resulted in APECs at the Phase One Property.

6.4.1 Phase One Property

The investigation of the Phase One Property consisted of the following components:

- Review of available historical records, including previous environmental reports, ERIS regulatory search, information obtained through MECP FOI and TSSA requests, city directories, aerial photographs, and well records.

- A Site reconnaissance completed on April 26, 2022 by Pinchin that included an assessment of the Phase One Property.
- Interviews with individuals knowledgeable of the history and operations at the Phase One Property.
- Review of mapping provided by ERIS and information provided on-line by the MNRF for the presence of areas of natural significance.

Pinchin's investigation of the Phase One Property did not identify any PCAs.

No areas of natural significance were identified at the Phase One Property.

Pinchin's investigation did not identify the presence of wells at the Phase One Property that currently supply water for human consumption or for agricultural purposes.

6.4.2 Phase One Study Area Outside of Phase One Property

The investigation of the Phase One Study Area outside of the Phase One Property consisted of the following components:

- Review of available historical records, including ERIS regulatory search, city directories and aerial photographs.
- Visual inspection of properties from publicly-accessible areas for evidence of PCAs and water bodies.
- Review of mapping provided by ERIS and information provided on-line by the MNRF for the presence of areas of natural significance.

Pinchin's investigation of the Phase One Study Area outside of the Phase One Property identified one (1) PCA within the Phase One Study Area outside of the Phase One Property. This PCA is not considered to result in an APEC at the Phase One Property given the distance from the PCA to the Phase One Property, and the downgradient or transgradient locations relative to the inferred groundwater flow direction in the Phase One Study Area. The descriptions and locations of this PCA is provided in Table 2.

The following areas of natural significance were identified within the Phase One Study Area outside the Phase One Property:

- Zimmerman Valley (a Life Science ANSI) is located adjacent to the northeast of the Phase One Property.
- Bronte Creek is located approximately 75 m northeast of the Site.

Pinchin's investigation did not identify the presence of wells within the Phase One Study Area that currently supply water for human consumption or for agricultural purposes.



Based on a cursory review of the properties greater than 250 m (i.e., outside of the Phase One Study Area), but less than 1 km, from the Phase One Study Area, Pinchin did not note or observe any significant contaminating properties that should be included as part of this assessment (i.e., landfills, large industrial manufacturers, etc.).

Plans identifying the locations of the off-Site PCAs are provided as Figure 4. The identified areas of natural significance are shown on the Area of Natural & Scientific Interest map included in the ERIS report in Appendix K.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses

The current and past land uses of the Phase One Property are listed in Table 1. A review of the ServiceOntario Parcel Register determined that the Phase One Property was owned by Mikalda Farms Limited from 1968 to 2021.

To the best of Pinchin's knowledge, no building or structure has been constructed on the Phase One Property, based on a review of aerial photographs dated between 1934 and 2021 that showed the Phase One Property to be undeveloped, vacant land. No other historical records were available to Pinchin that provided information for determining the date of first developed use of the Phase One Property.

7.2 Potentially Contaminating Activities

Table 2 summarizes the descriptions and locations of all PCAs as defined by O. Reg. 153/04 that were identified by Pinchin within the Phase One Study Area. The following presents a summary of these PCAs:

- No PCAs were documented to have occurred at the Phase One Property.
- The one off-Site PCA is not considered to result in an APEC at the Phase One Property given the distance from the PCA to the Phase One Property and its downgradient location relative to the inferred groundwater flow direction in the Phase One Study Area.

7.3 Areas of Potential Environmental Concern

No APECs as defined by O. Reg. 153/04 were identified by Pinchin at the Phase One Property.

The rationale used by the QP in assessing the available information to determine whether PCAs exist or have existed within the Phase One Study Area, including the Phase One Property, that represent an APEC at the Phase One Property has been provided in the preceding report sections. In general, the potential for environmental impacts to the Phase One Property was evaluated using a combined probability for a source to contaminate, and the ability of contaminants to migrate on, or to the Phase One Property. For example, a gasoline UST located on the Phase One Property, or on a property in close



proximity and/or upgradient of the Phase One Property, would exhibit a high potential for contamination (and is therefore considered a PCA resulting in an APEC at the Phase One Property) since gasoline is highly mobile in the subsurface. In contrast, shallow soil/fill with metals impacts located on a property adjacent to the Phase One Property would be considered to have a low potential for contamination given that metals generally have low mobility in the subsurface (and would not be considered a PCA resulting in an APEC at the Phase One Property). Furthermore, non-adjacent properties with PCAs located downgradient or transgradient of the Phase One Property generally do not result in APECs at the Phase One Property. Groundwater is the media through which contaminants typically migrate from property to property, and if the source of the contaminant is downgradient or transgradient of the Phase One Property, contaminated groundwater from this source cannot migrate to the Phase One Property and the downgradient or transgradient PCA would not be considered to result in an APEC at the Phase One Property.

The evaluation of the presence/absence of APECs at the Phase One Property was based upon the analysis of available documents, records and drawings, and personal interviews. In evaluating the Phase One Property and Phase One Study Area, Pinchin has relied in good faith on information provided by other individuals or sources as noted in this report. Pinchin has assumed that the information provided is factual and accurate, and has no reason to believe that any of the information provided in the available documentation or obtained through interviews is not factual or inaccurate.

Pinchin is not aware of any additional information that would alter the conclusions regarding the presence/absence of APECs at the Phase One Property.

7.4 Phase One Conceptual Site Model

A conceptual site model (CSM) has been created to provide a summary of the findings of the Phase One ESA. The Phase One CSM is summarized in Figures 1 through Figure 4 which illustrate the following features within the Phase One Study Area, where present:

- Existing buildings and structures.
- Water bodies located in whole or in part within the Phase One Study Area.
- Areas of natural significance located in whole or in part within the Phase One Study Area.
- Drinking water wells located at the Phase One Property.
- Land use of adjacent properties.
- Roads within the Phase One Study Area.
- PCAs within the Phase One Study Area, including the locations of tanks.
- APECs at the Phase One Property.

The following provides a narrative summary of the Phase One CSM:

- The Phase One Property is an irregularly-shaped parcel of land approximately 4.76 acres (11.76 hectares) in area located on the northeast side of Appleby Line, southeast of Highway 407 and approximately 180 m northwest of Harrison Court in the City of Burlington. The Phase One Property consists of undeveloped, vacant land which has never been developed. There is no record of industrial use or of a commercial use (e.g., garage, bulk liquid dispensing facility or dry cleaner) that would require classifying the Phase One Property as an Enhanced Investigation Property.
- Bronte Creek is located approximately 75 m northeast of the Site and flows southeast towards Lake Ontario, located approximately 8.5 km southeast of the Site.
- One area of natural and scientific interest (ANSI) was identified within the Phase One Study Area, identified as Zimmerman Valley, a life science ANSI located adjacent to the northeast of the Phase One Property.
- No drinking water wells were located on the Phase One Property.
- Highway 407 is located adjacent to the northwest of the Phase One Property and Appleby Line is located adjacent to the southwest of the Phase One Property. Appleby Pumping Station and Zimmerman Valley ANSI are located adjacent to the northeast of the Phase One Property. The adjacent property to the southeast of the Phase One Property is undeveloped, vacant land. The historical information shows no records of any PCAs at the adjacent properties.
- No PCAs were identified at the Phase One Property and one PCA was identified within the Phase One Study Area, outside of the Phase One Property. As shown on Figure 4, the off-Site PCA is a downgradient automotive servicing operation located at 3253 Appleby Line, approximately 210 m southeast of the Phase One Property and situated hydraulically downgradient. Given that the distance of this PCA and downgradient location relative to the Phase One Property, the off-Site PCA is not considered to result in an APEC at the Phase One Property. COPCs associated with the off-Site PCAs are not a concern to the Phase One Property because there are no APECs at the Phase One Property.
- The Phase One Property has remained undeveloped and there are no known underground utilities.
- The Phase One Property and the surrounding properties located within the Phase One Study Area are located within till moraines as the dominant landform with the primary native material consisting of silt till. Bedrock is expected to consist of shale, limestone,



dolostone and siltstone of the Queenston Formation at a depth of approximately 28 mbgs. During previous on-Site environmental investigations, the soil stratigraphy was observed to consist of topsoil and disturbed native soils followed by glacial till (sandy silt to silt) to the maximum borehole depth of 7 mbgs.

- The Phase One Property is relatively flat with a downward slope towards Bronte Creek. Local groundwater flow is inferred to be to the southeast to east, based on the topography of the area surrounding the Phase One Property and the location of Bronte Creek. Regional groundwater flow is inferred to be to the southeast towards Lake Ontario, located approximately 8.5 km southeast of the Site.

There were no deviations from the Phase One ESA requirements specified in O. Reg. 153/04 or absence of information that have resulted in uncertainty that would affect the validity of the Phase One CSM.

8.0 CONCLUSIONS

Pinchin conducted this Phase One ESA in accordance with Part VII and Schedule D of O. Reg. 153/04. The purpose of the Phase One ESA was to assess the potential presence of environmental impacts at the Phase One Property due to activities at and near the Phase One Property in support of Site Plan Approval in accordance with O. Reg. 153/04.

The review of information obtained from historical records, interviews and a Site reconnaissance completed by Pinchin for the Phase One ESA did not identify any PCAs at the Phase One Property or within the Phase One Study Area outside of the Phase One Property (i.e., off-Site) that are considered to result in APECs at Phase One Property. One off-Site PCA was identified but this PCA is not considered to result in APECs at the Phase One Property given its distance from the Phase One Property and its downgradient location with respect to the inferred groundwater flow direction at the Phase One Property. Based on these findings, nothing was identified that is likely to have resulted in impacts to the soil and groundwater at the Phase One Property that would require the completion of a Phase Two ESA. As such, it is Pinchin's opinion that the Phase One Property is suitable for the intended future industrial land use.

It should be noted that the references and sources for the information used in evaluating the Phase One Property are provided in the relevant sections of this report. Specific references are also summarized in Section 9.0.

8.1 Signatures

This Phase One ESA was undertaken under the supervision of Francesco Gagliardi, C.E.T., LET, QP_{ESA} in accordance with the requirements of O. Reg. 153/04 to support the filing of an RSC for the Phase One Property. The conclusions and recommendations provided in this report represent the best judgement of



the assessor based on the Site conditions observed on April 26, 2022, and a review of available historical information and information obtained from interviews.

This report has been issued without having received a response to a request for information from the MECP. Pinchin reserves the right to amend our conclusions and recommendations based on information obtained from the regulatory agency.

We trust that the information provided in this report meets your current requirements.

8.2 Terms and Limitations

This Phase One ESA was performed in order to identify potential issues of environmental concern associated with the property located at 3399 Appleby Line in Burlington, Ontario (Site), at the time of the Site reconnaissance. This Phase One ESA was performed in general compliance with currently acceptable practices for environmental site investigations, and specific Client requests, as applicable to this Site. This report was prepared for the exclusive use of Summit Industrial Income REIT (Client) subject to the terms, conditions and limitations contained within the duly authorized proposal for this project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

If additional parties require reliance on this report, written authorization from Pinchin will be required. Such reliance will only be provided by Pinchin following written authorization from the Client. Pinchin disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. No other warranties are implied or expressed. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law.

The information provided in this report is based upon analysis of available documents, records and drawings, and personal interviews. In evaluating the Site, Pinchin has relied in good faith on information provided by other individuals noted in this report. Pinchin has assumed that the information provided is factual and accurate. In addition, the findings in this report are based, to a large degree, upon information provided by the current owner/occupant. Pinchin accepts no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted, or contained in reports that were reviewed. The scope of work for this Phase One ESA did not include a visual or intrusive investigation for designated substances (e.g., asbestos, mould, PCB-containing electrical equipment, etc.) and, therefore, these materials may be present at the Site.

Pinchin makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership



of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

Ontario Regulation 153/04 does not apply to environmental auditing or environmental management systems. Therefore, with respect to Site operations and conditions, compliance with applicable federal, provincial or municipal acts, regulations, laws and/or statutes was not evaluated as part of the Phase One ESA.

9.0 REFERENCES

The following documents, persons or organizations provided information used in this report:

- Environmental Risk Information Services. *3399 Appleby Line, Burlington, Ontario* (ERIS Project #22041300310). April 19, 2022.
- Opta Information Intelligence. *3399 Appleby Line, Burlington, Ontario* (Opta Order 107963). April 20, 2022.
- GHD Limited. *Phase Two Environmental Site Assessment, 3399 Appleby Line, Burlington, Ontario*. July 9, 2021.
- Province of Ontario. Environmental Protection Act R.S.O. 1990, c. E.19 and Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act. Last amended by Ontario Regulation 274/20 on July 1, 2020.

J:\307000s\0307237.000 SummitIndus,3399ApplebyLine,Burl,ESA,Geo\Deliverables\307237 FINAL Phase One ESA Report - 3399 Appleby Line, Burlington ON - Summit.docx
Template: Master Report for RSC Phase One ESA Report, EDR, October 16, 2020

10.0 APPENDICES

APPENDIX A
Tables

Table 1 - Table of Current and Past Uses of the Phase One Property

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc
1934-1968	Unknown	Undeveloped	Agricultural or other use	Based on the 1934, 1954 and 1965 aerial photographs, the Phase One Property was undeveloped.
1968-2021	Mikalda Farms Limited	Undeveloped	Agricultural or other use	Based on the 1974, 1985, 2002, 2012, 2017 and 2021 aerial photographs, and observations made during Site Reconnaissance, the Phase One Property was undeveloped.
2021-Present	Summit (3399 Appleby Line) Ltd.	Undeveloped	Agricultural or other use	Based on the 2021 aerial photograph and observations made during Site Reconnaissance, the Phase One Property was undeveloped.

Notes:

1 - for each owner, specify one of the following types of property use (as defined in O.Reg. 153/04) that applies:

- Agriculture or other use
- Commercial use
- Community use
- Industrial use
- Institutional use
- Parkland use
- Residential use

2 - when submitting a record of site condition for filing, a copy of this table must be attached

Table 2 - Table of Potentially Contaminating Activities

PCA Designation	Location of Potentially Contaminating Activity	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Distance from Phase One Property (metres)	Location Relative to Inferred Groundwater Flow Direction ¹	Contributing to an APEC at the Site (Yes/No)	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
PCA-27	3253 Appleby Line (Mr. Lube)	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	210 m southeast	Downgradient	No	Not Applicable

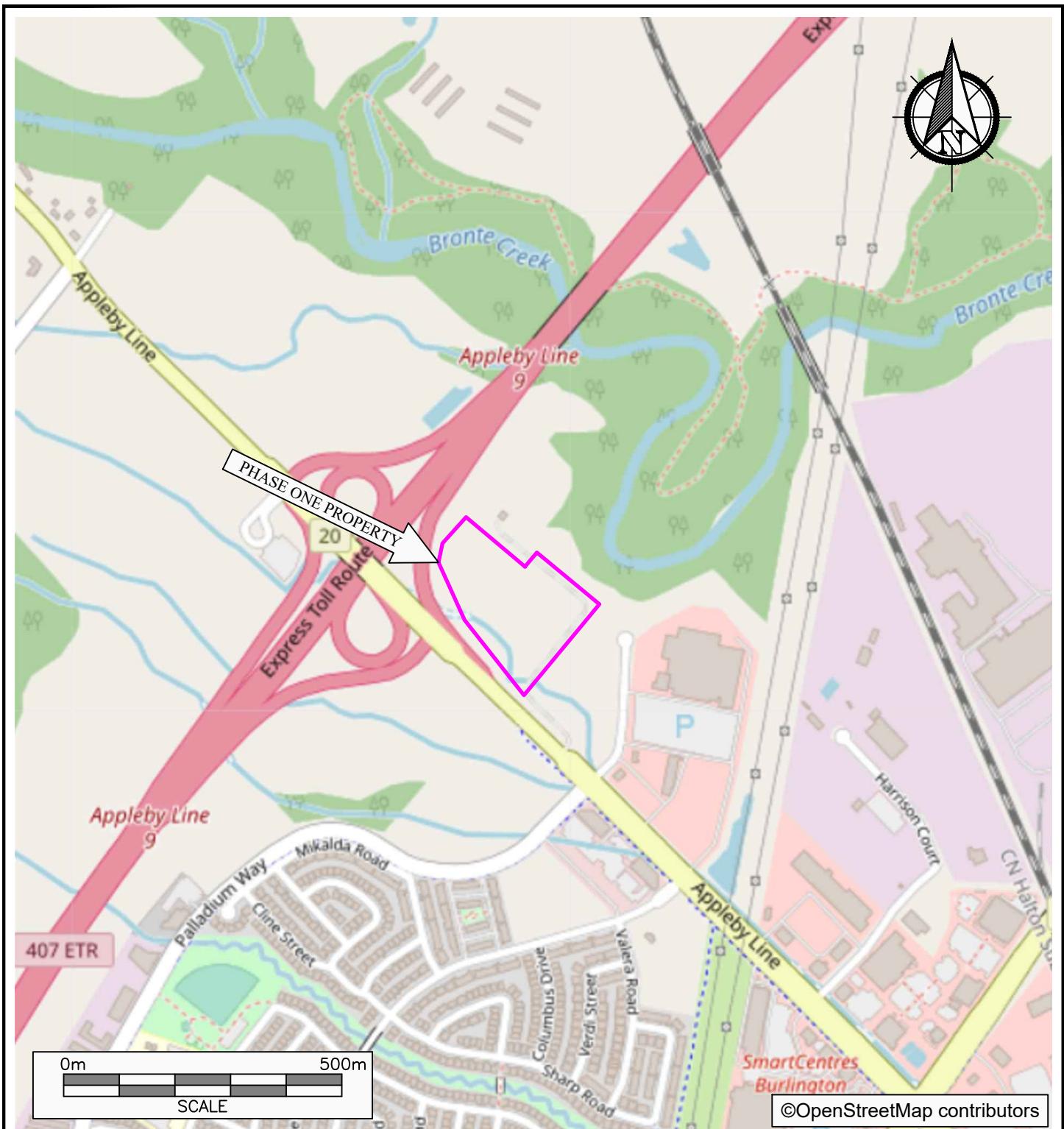
Notes:

APEC – Area of Potential Environmental Concern

PCA – Potentially Contaminating Activity

1 – Location of PCA relative to the Phase One Property in relation to the inferred groundwater flow direction in the Phase One Study Area

APPENDIX B
Figures



PINCHIN

PROJECT NAME
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME
SUMMIT INDUSTRIAL INCOME REIT

PROJECT LOCATION
3399 APPLEBY LINE, BURLINGTON, ONTARIO

FIGURE NAME
KEY MAP

FIGURE NO.

1

SCALE
AS SHOWN

PROJECT NO.
307237

DATE
MAY 2022

LEGEND



HWY-407 ETR W

APPLEBY LINE

#3321
APPLEBY
PLUMBING
STATION

PHASE
ONE
BOUNDARY

#3309
VACANT

#3416
AGRICULTURAL

#3402
AGRICULTURAL

©Google Earth Maps

0m 125m

SCALE

INFERRRED
GROUNDWATER
FLOW DIRECTION

PINCHIN

PROJECT NAME
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME
SUMMIT INDUSTRIAL INCOME REIT

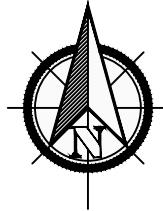
PROJECT LOCATION
3399 APPLEBY LINE, BURLINGTON, ONTARIO

FIGURE NAME
PHASE ONE PROPERTY

FIGURE NO.

2

SCALE PROJECT NO. DATE
AS SHOWN 307237 MAY 2022



LEGEND

- PHASE ONE STUDY AREA BOUNDARY
- MTC MULTI-TENANT COMMERCIAL
- INDUSTRIAL USE / COMMERCIAL USE / COMMUNITY USE
- AGRICULTURAL USE / OTHER USE

PINCHIN

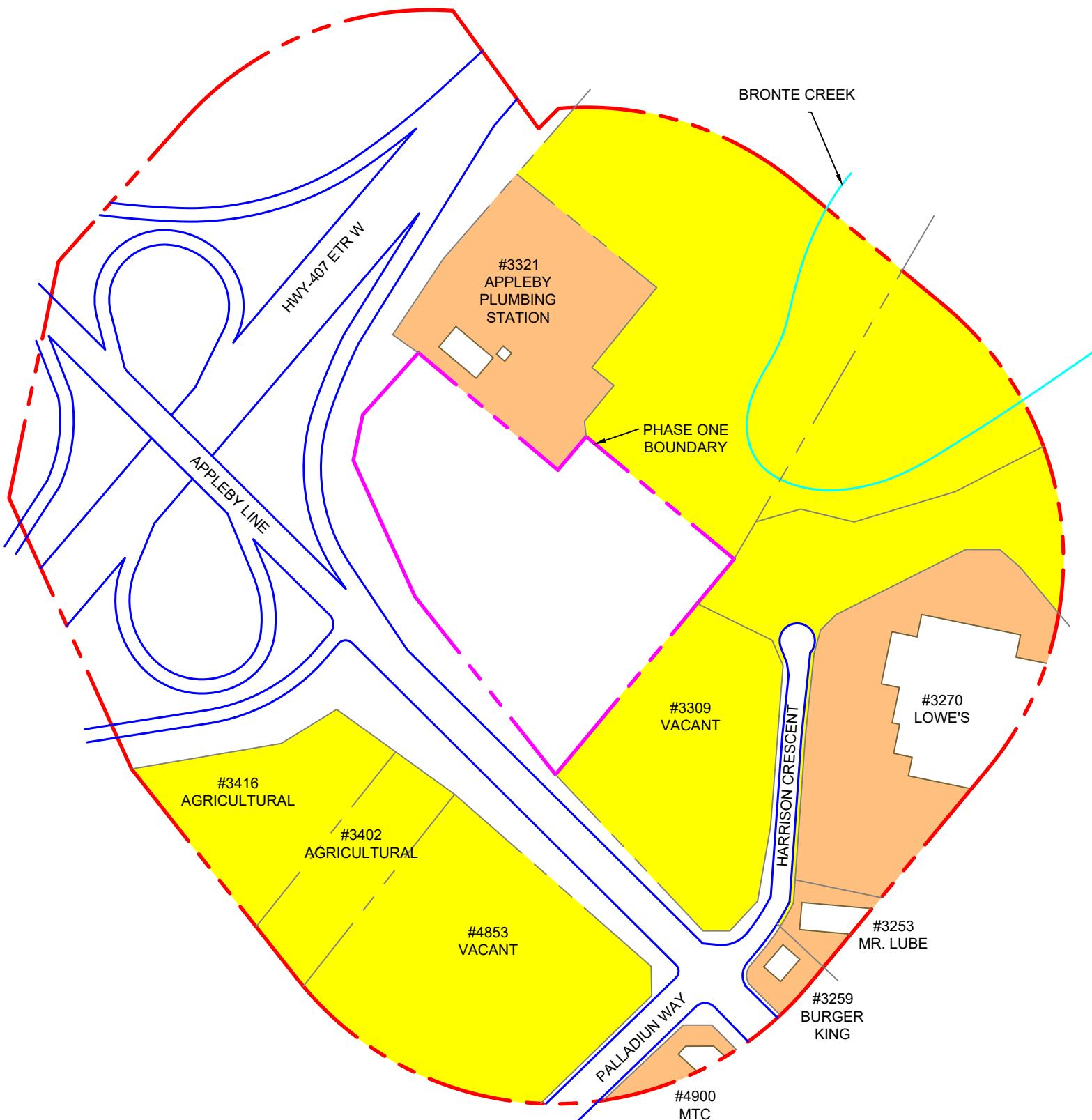
PROJECT NAME
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME
SUMMIT INDUSTRIAL INCOME REIT

PROJECT LOCATION
3399 APPLEBY LINE,
BURLINGTON, ONTARIO

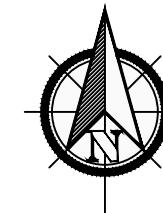
FIGURE NAME
PHASE ONE STUDY AREA

SCALE	PROJECT NO.
AS SHOWN	307237
DATE	FIGURE NO.
MAY 2022	3



0m 200m
SCALE

INFERRED GROUNDWATER FLOW DIRECTION



PINCHIN

APPENDIX C
Photographs



Photo 1 – View of the Phase One Property, facing south.



Photo 2 – South elevation of the Site Building, looking southeast.

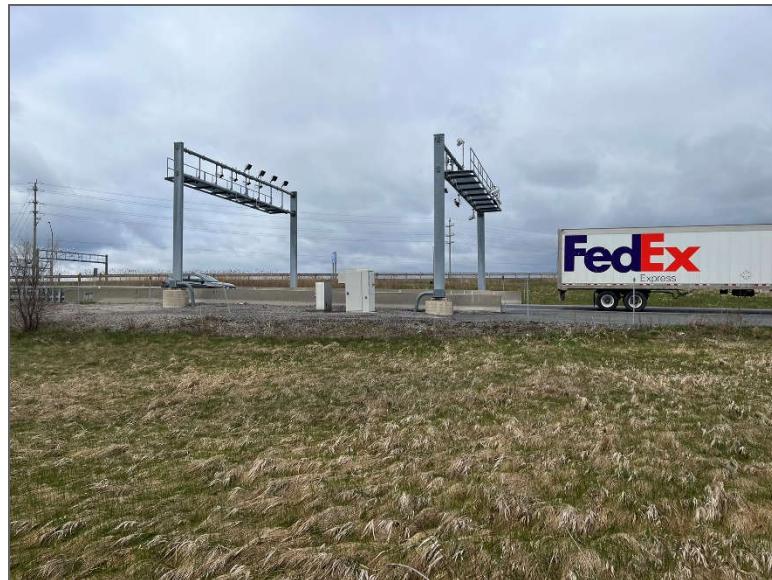


Photo 3 – Surrounding properties to the northwest.



Photo 4 – Surrounding property (Appleby Pumping Station) to the northeast.

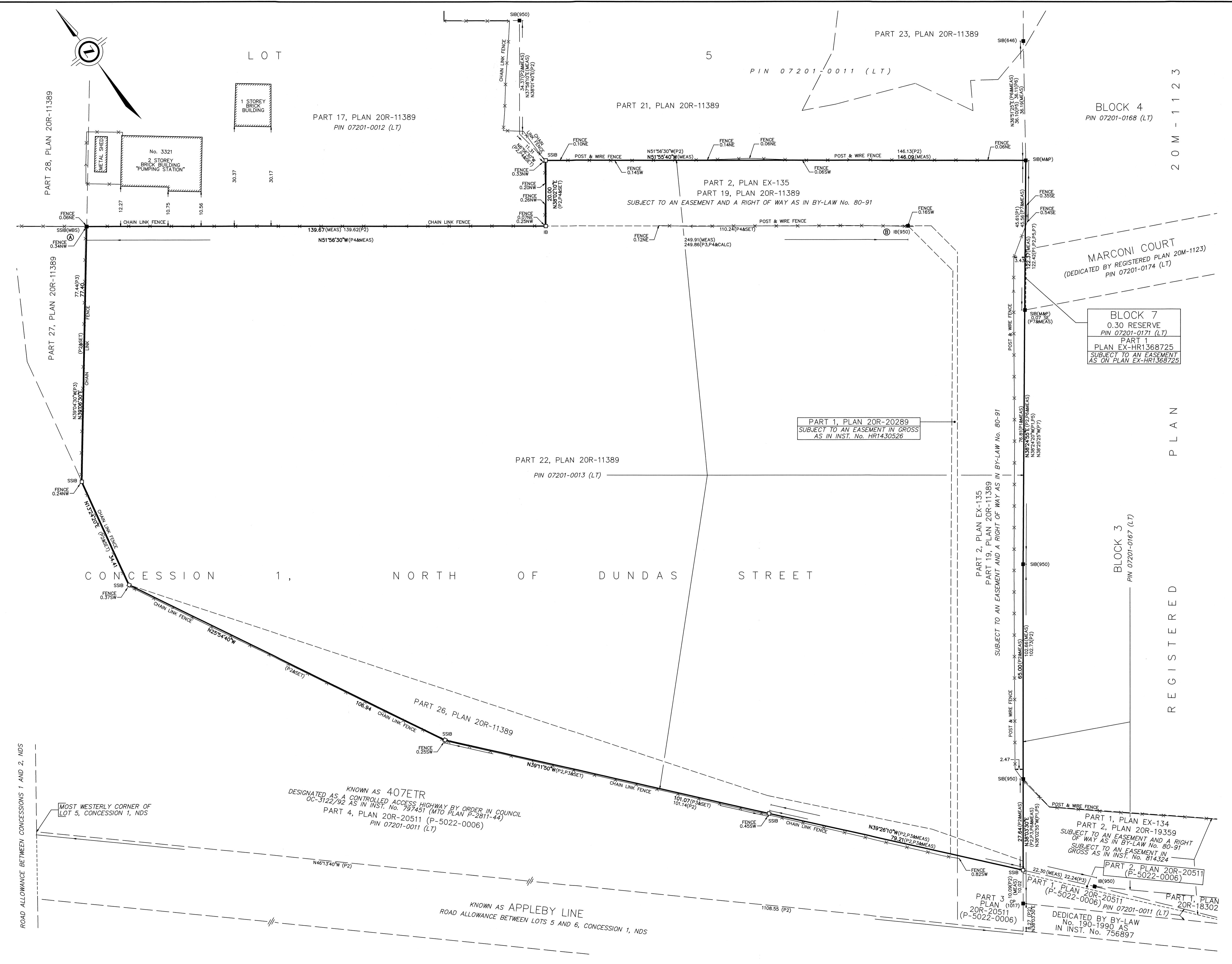


Photo 5 – Surrounding properties to the southeast.



Photo 6 – Surrounding properties to the southwest.

APPENDIX D
Survey Plan



**PLAN OF SURVEY OF
PART OF LOT 5
CONCESSION 1
NORTH OF DUNDAS STREET
(GEOGRAPHIC TOWNSHIP OF NELSON)**

(GEOGRAPHIC TOWNSHIP OF NELSON)
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON
SCALE 1 : 500

THE INTENDED PLOT SIZE OF THIS PLAN IS 915mm IN WIDTH BY 609mm IN HEIGHT
WHEN PLOTTED AT A SCALE OF 1:500

J.D. BARNES LIMITED

© COPYRIGHT

METRIC DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES
AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NOTES

NOTE
BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A AND B,
BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS)
(2010.0).

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999693.

FOR BEARING COMPARISONS, A ROTATION OF 1°1'25" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P2 AND P3.

INTEGRATION DATA

OBSERVED REFERENCE POINTS (ORPs): UTM ZONE 17, NAD83 (CSRS) (2010.0).
COORDINATES TO AN URBAN ACCURACY PER SECTION 14 (2) OF O.REG 216/10.

POINT ID	EASTING	NORTHING
ORP (A)	595 697.07	4 807 710.52
ORP (B)	595 893.79	4 807 556.52

COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH

THE RESULTANT TIE BETWEEN ORP A AND ORP B IS 249.91 N51°56'30"W

THE RESULTANT HE BETWEEN CRF A AND CRF B IS 245.31 NSI 50.50 W

LEGEND

■	DENOTES	SURVEY MONUMENT FOUND
□	DENOTES	SURVEY MONUMENT SET
SIB	DENOTES	STANDARD IRON BAR
SSIB	DENOTES	SHORT STANDARD IRON BAR
IB	DENOTES	IRON BAR
CP	DENOTES	CONCRETE PIN AND WASHER
P1	DENOTES	REGISTERED PLAN 20M-1123
P2	DENOTES	PLAN 20R-11389
P3	DENOTES	PLAN 20R-20511
P4	DENOTES	PLAN 20R-20289
P5	DENOTES	PLAN 20R-19359
P6	DENOTES	PLAN EX-135
P7	DENOTES	PLAN EX-HR1368725
MEAS	DENOTES	MEASURED
CALC	DENOTES	CALCULATED
M&P	DENOTES	MACKAY MACKAY & PETERS LIMITED, O.L.S.
MBS	DENOTES	MANAGEMENT BOARD SECRETARIAT
646	DENOTES	R.G. SEWELL, O.L.S.
950	DENOTES	CUNNINGHAM McCONNELL LIMITED, O.L.S.
1017	DENOTES	CALLON DIETZ INCORPORATED, O.L.S.
NDS	DENOTES	NORTH OF DUNDAS STREET

N=NORTH / S=SOUTH / E=EAST / W=WEST
ALL SET SSIB MONUMENTS WERE USED DUE TO LACK OF OVERTBURDEN
AND/OR PROXIMITY OF UNDERGROUND UTILITIES IN ACCORDANCE WITH

SECTION 11 (4) OF O.REG. 525/91.

AREA = 47,788 sq.m.
(11.8087 acres)

SURVEYOR'S CERTIFICATE

SURVEYOR'S CERTIFICATE
I CERTIFY THAT:
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.

JUNE 17, 2022 

JUNE 17, 2022

DATE R.S. QUERUBIN

ONTARIO LAND SURVEYOR



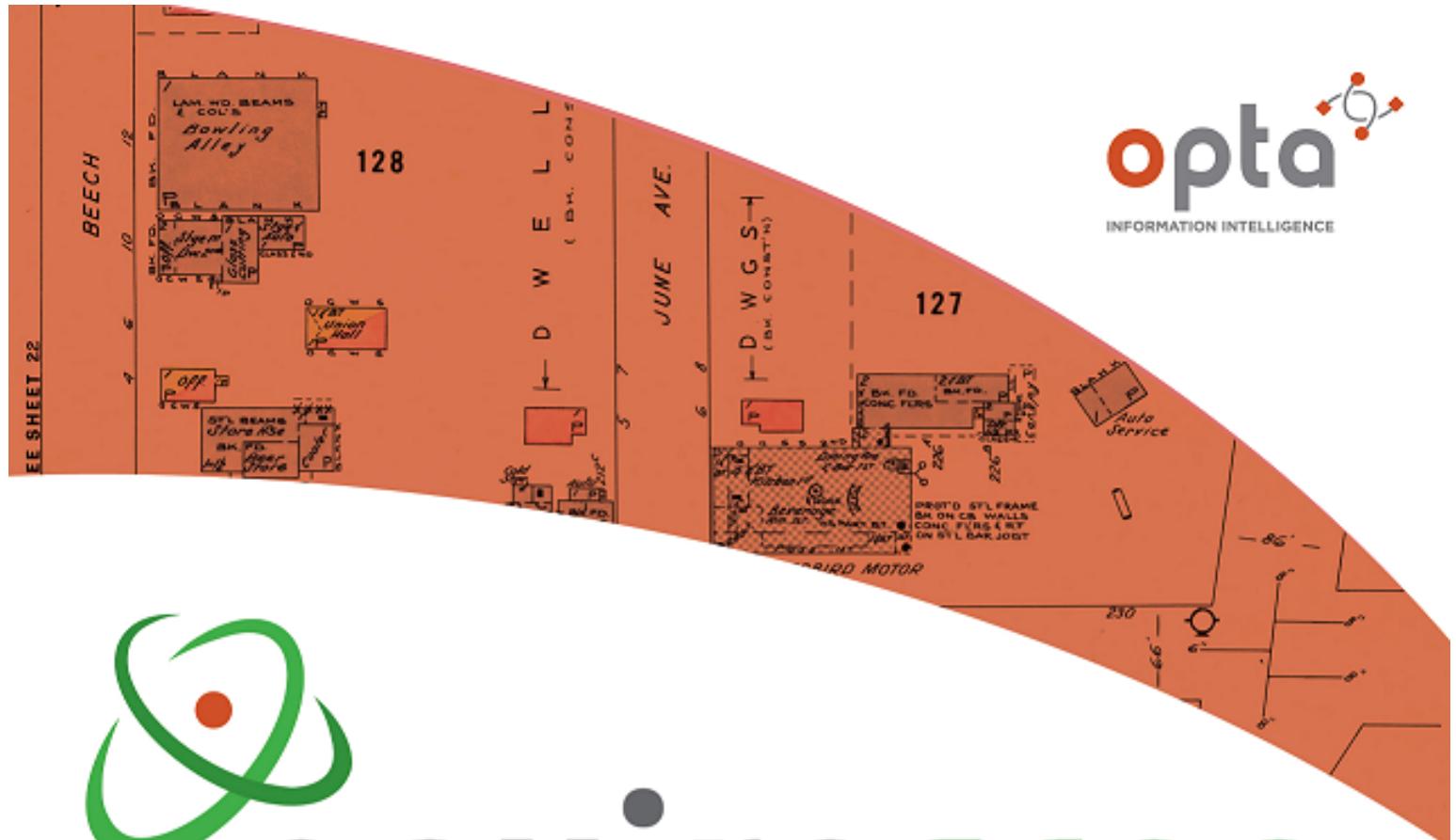
J.D. BARNES
L I M I T E D

LAND INFORMATION SPECIALISTS

401 WHEELABRATOR WAY, SUITE A, MILTON, ON L9T 3C1
T: (905) 875-9955 F: (905) 875-9956 www.jdbarnes.com

DRAWN BY:	CHECKED BY:	REFERENCE NO.:
MB	RSQ	22-30-867-00-A
FILE: G:\22-30-867\00\Drawings\22-30-867-00-A.dwg	DATED: 06/17/2022	

APPENDIX E
Opta Records



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

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

Report Completed By:

Stephanie

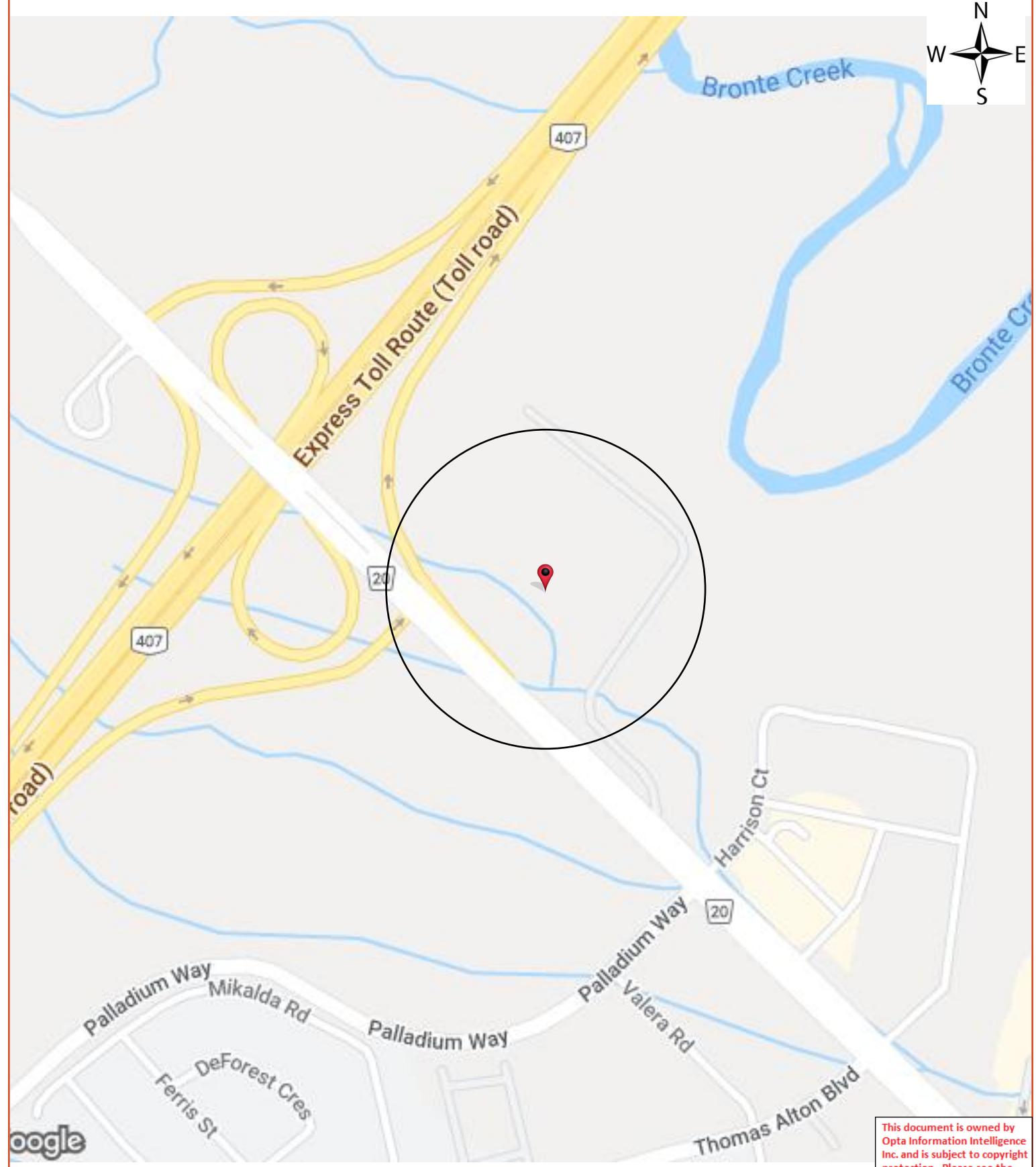
Site Address:

3399 Appleby Line Burlington ON

22041300310

Requested by:
Eleanor Goolab
Ecolog Eris

Date Completed:
4/20/2022 9:21:00 AM



Opta Historical Environmental Services Enviroscan™ 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.

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Entire Agreement

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

Governing Document

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

Law

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

Page: 4
Project Name: 307237

Project #: 22041300310
P.O. #: 307237

ENVIROSCAN Report

No Records Found

Requested by:
Eleanor Goolab

Date Completed: 04/20/2022 09:21:00



OPTA INFORMATION INTELLIGENCE

No Records Found



APPENDIX F
Chain of Title Search Results



PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND
REGISTRY
OFFICE #20

07201-0013 (LT)

PAGE 1 OF 2
PREPARED FOR MS
ON 2022/05/11 AT 09:51:12

ONLAND

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

PROPERTY DESCRIPTION: PT LT 5 , CON 1 NDS , PART 18, 19, 22 & 26 , 20R11389 , S/T PE135 ; BURLINGTON/NELSON TWP; SUBJECT TO AN EASEMENT IN GROSS OVER PART 1, 20R20289 AS IN HR1430526

PROPERTY REMARKS:

ESTATE/QUALIFIER:

RECENTLY:

PIN CREATION DATE:

FEE SIMPLE
LT CONVERSION QUALIFIED

FIRST CONVERSION FROM BOOK

1997/10/27

OWNERS' NAMES
SUMMIT (3399 APPLEBY LINE) LTD.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
EFFECTIVE	2000/07/29	THE NOTATION OF THE	"BLOCK IMPLEMENTATION DATE" OF 1997/10/27 ON THIS PIN			
WAS REPLACED WITH THE	"PIN CREATION DATE"	OF 1997/10/27				
** PRINTOUT	INCLUDES ALL DOCUMENT TYPES AND	DELETED INSTRUMENTS SINCE 1997/10/24 **				
**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:	1997/10/27 **				
119980	1961/01/25	BYLAW				C
260056	1968/11/26	TRANSFER	*** DELETED AGAINST THIS PROPERTY ***		MIKALDA FARMS LIMITED	
20R10237	1991/01/08	PLAN REFERENCE				C
802609	1993/04/01	AGREEMENT			THE CORPORATION OF THE CITY OF BURLINGTON	C
20R11389	1994/02/10	PLAN REFERENCE				C
824670	1994/06/29	AGREEMENT	*** COMPLETELY DELETED ***			
20R20289	2015/11/03	PLAN REFERENCE				C

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

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

* 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
HR1430526	2017/02/06	TRANSFER EASEMENT	\$40,800	MIKALDA FARMS LIMITED *** COMPLETELY DELETED *** HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO AS REPRESENTED BY THE CHAIR OF THE MANAGEMENT BOARD OF CABINET REMARKS: 824670.	THE REGIONAL MUNICIPALITY OF HALTON HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO AS REPRESENTED BY THE MINISTER OF GOVERNMENT AND CONSUMER SERVICES	C
HR1809716	2021/07/15	APL CH NAME INST		*** COMPLETELY DELETED *** HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO AS REPRESENTED BY THE MINISTER OF GOVERNMENT AND CONSUMER SERVICES REMARKS: TO DELETE 824670		
HR1809717	2021/07/15	APL (GENERAL)		*** COMPLETELY DELETED *** HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO AS REPRESENTED BY THE MINISTER OF GOVERNMENT AND CONSUMER SERVICES REMARKS: TO DELETE 824670		
HR1827861	2021/09/13	TRANSFER		*** COMPLETELY DELETED *** MIKALDA FARMS LIMITED REMARKS: PLANNING ACT STATEMENTS.	APPLEBY 407 INC. APPLEBY 407 LIMITED PARTNERSHIP.	C
HR1845061	2021/11/16	LR'S ORDER		LAND REGISTRAR, HALTON LAND REGISTRY OFFICE REMARKS: AMENDING OWNERSHIP		C
HR1860846	2022/01/20	TRANS PARTNERSHIP	\$27,517,300	APPLEBY 407 INC. APPLEBY 407 LIMITED PARTNERSHIP REMARKS: PLANNING ACT STATEMENTS.	SUMMIT (3399 APPLEBY LINE) LTD.	C

APPENDIX G
ERIS Report



DATABASE REPORT

Project Property: 307237
3399 Appleby Line
Burlington ON L7R 3X4

Project No: 307237

Report Type: Standard Report

Order No: 22041300310

Requested by: Pinchin Ltd.

Date Completed: April 19, 2022

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Definitions.....	35

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Executive Summary

Property Information:

Project Property: 307237
3399 Appleby Line Burlington ON L7R 3X4

Project No: 307237

Coordinates:

Latitude: 43.41438
Longitude: -79.8171
UTM Northing: 4,807,512.13
UTM Easting: 595,766.17
UTM Zone: UTM Zone 17T

Elevation: 532 FT
162.04 M

Order Information:

Order No: 22041300310
Date Requested: April 13, 2022
Requested by: Pinchin Ltd.
Report Type: Standard Report

Historical/Products:

Aerial Photographs	Aerials - National Collection
ERIS Xplorer	ERIS Xplorer
Insurance Products	Fire Insurance Maps/Inspection Reports/Site Plans
Physical Setting Report (PSR)	PSR
Topographic Map	Ontario Base Map (OBM)

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	3	3
CA	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	2	2
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	4	4
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	0
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0

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

Total: 0 10 10

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
----------------	-----------	--------------------------	----------------	---------------------	----------------------	--------------------

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>1</u>	WWIS		lot 5 con 1 ON <i>Well ID: 2809199</i>	ENE/114.6	-0.31	<u>13</u>
<u>2</u>	ECA	The Regional Municipality of Halton	Harrison Court Burlington ON L6M 3L1	ENE/127.2	-0.97	<u>14</u>
<u>2</u>	ECA	The Regional Municipality of Halton	Harrison Court Burlington ON L6M 3L1	ENE/127.2	-0.97	<u>14</u>
<u>3</u>	EHS		3399 Appleby Line Burlington ON L0P	WSW/174.7	-1.19	<u>14</u>
<u>3</u>	EHS		3399 Appleby Line Burlington ON L0P	WSW/174.7	-1.19	<u>15</u>
<u>4</u>	BORE		ON	WNW/217.8	0.77	<u>15</u>
<u>5</u>	EHS		3251 Appleby Line Burlington ON L7M 0V7	SE/223.4	-2.31	<u>16</u>
<u>6</u>	BORE		ON	WNW/243.0	0.97	<u>16</u>
<u>7</u>	BORE		ON	WNW/244.5	1.36	<u>17</u>
<u>8</u>	EHS		Parcel 13 Burlington ON	NW/249.9	3.28	<u>18</u>

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 3 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	WNW	217.77	4
	ON	WNW	242.98	6
	ON	WNW	244.47	7

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Feb 28, 2022 has found that there are 2 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
The Regional Municipality of Halton	Harrison Court Burlington ON L6M 3L1	ENE	127.22	2
The Regional Municipality of Halton	Harrison Court Burlington ON L6M 3L1	ENE	127.22	2

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Nov 30, 2021 has found that there are 4 EHS site(s) within approximately 0.25 kilometers of the project property.

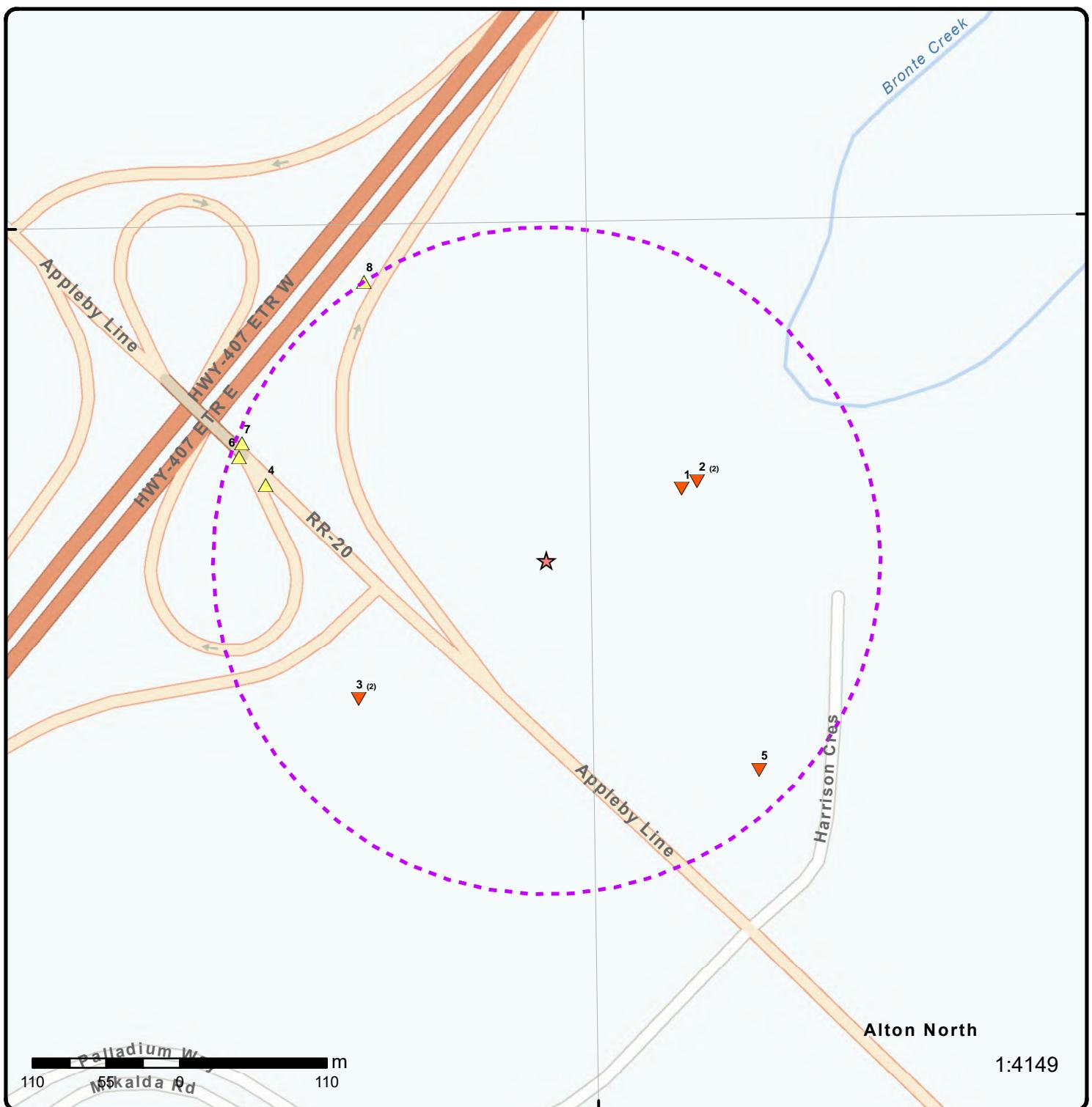
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Parcel 13 Burlington ON	NW	249.93	8

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	3399 Appleby Line Burlington ON L0P	WSW	174.68	3
	3399 Appleby Line Burlington ON L0P	WSW	174.68	3
	3251 Appleby Line Burlington ON L7M 0V7	SE	223.36	5

WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 1 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 5 con 1 ON	ENE	114.58	1
<i>Well ID:</i> 2809199				



Map: 0.25 Kilometer Radius

Order Number: 22041300310

Address: 3399 Appleby Line, Burlington, 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	Park (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

79°49'30"W

43°25'30"N



Aerial Year: 2019

Address: 3399 Appleby Line, Burlington, ON

Source: ESRI World Imagery

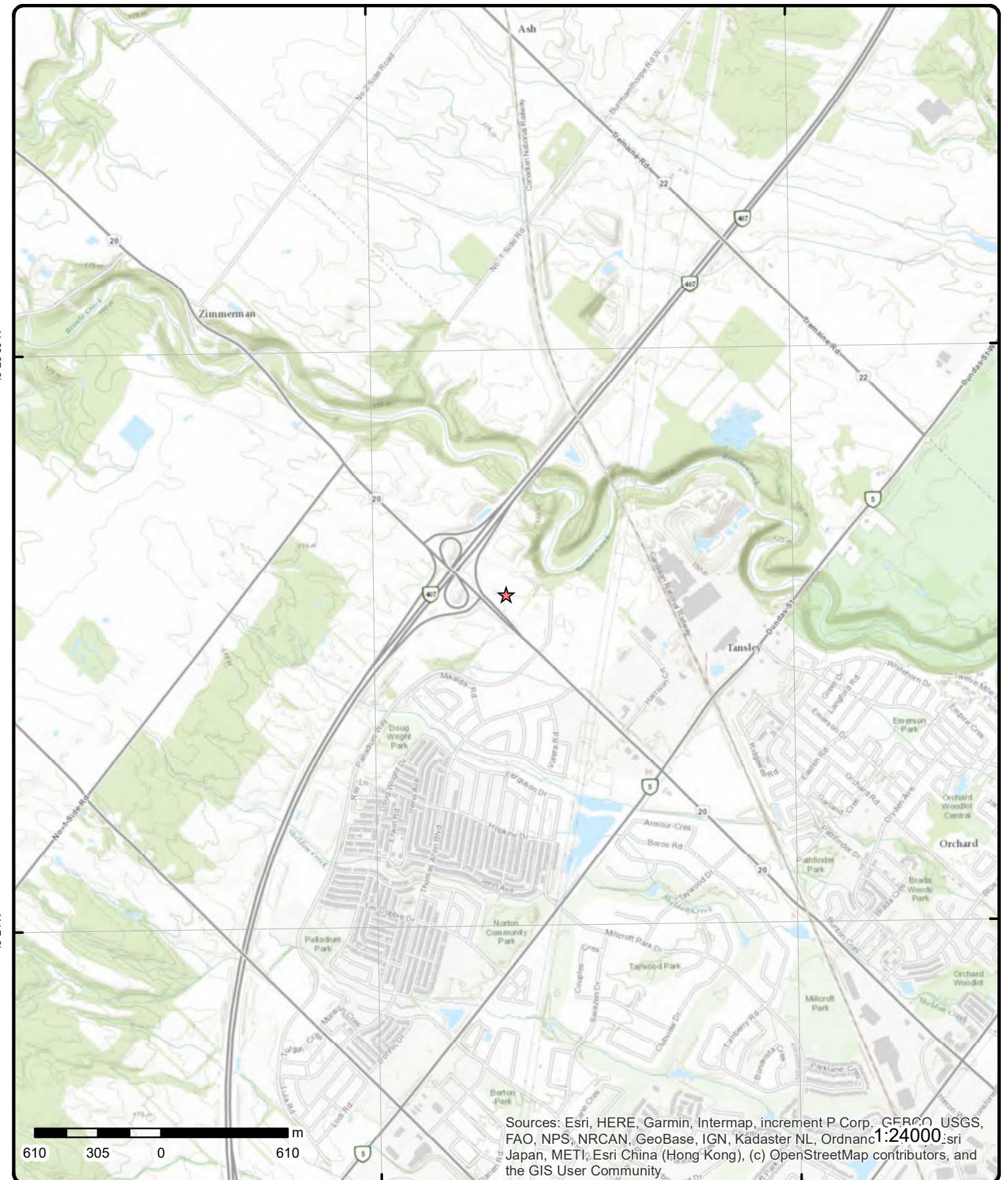
Order Number: 22041300310

ERIS

© ERIS Information Limited Partnership

79°49'30"W

79°48'W



Topographic Map

Address: 3399 Appleby Line, ON

Source: ESRI World Topographic Map

Order Number: 22041300310



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	ENE/114.6	161.7 / -0.31	lot 5 con 1 ON	WWIS
Well ID:	2809199			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:				Date Received:	7/7/2000
Sec. Water Use:				Selected Flag:	TRUE
Final Well Status:	Abandoned-Other			Abandonment Rec:	
Water Type:				Contractor:	1663
Casing Material:				Form Version:	1
Audit No:	213480			Owner:	
Tag:				Street Name:	
Construction Method:				County:	HALTON
Elevation (m):				Municipality:	BURLINGTON CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	005
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	DS N
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809199.pdf				

Additional Detail(s) (Map)

Well Completed Date:	2000/03/10
Year Completed:	2000
Depth (m):	
Latitude:	43.4148520623484
Longitude:	-79.8158416559482
Path:	280\2809199.pdf

Bore Hole Information

Bore Hole ID:	10155456	Elevation:
DP2BR:		Elevrc:
Spatial Status:		Zone:
Code OB:		17
Code OB Desc:		East83:
Open Hole:		595867.30
Cluster Kind:		North83:
Date Completed:	10-Mar-2000 00:00:00	4807566.00
Remarks:		Org CS:
Elevrc Desc:		UTMRC:
Location Source Date:		9
Improvement Location Source:		UTMRC Desc:
Improvement Location Method:		unknown UTM
Source Revision Comment:		Location Method:
Supplier Comment:		lot

Method of Construction & Well

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Use</u>					
<i>Method Construction ID:</i>	962809199				
<i>Method Construction Code:</i>	0				
<i>Method Construction:</i>	Not Known				
<i>Other Method Construction:</i>					
<u>Pipe Information</u>					
<i>Pipe ID:</i>	10704026				
<i>Casing No:</i>	1				
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>2</u>	1 of 2	ENE/127.2	161.1 / -0.97	The Regional Municipality of Halton Harrison Court Burlington ON L6M 3L1	ECA
<i>Approval No:</i>	7033-7F9H6J			<i>MOE District:</i>	Halton-Peel
<i>Approval Date:</i>	2008-06-04			<i>City:</i>	
<i>Status:</i>	Approved			<i>Longitude:</i>	-79.8157
<i>Record Type:</i>	ECA			<i>Latitude:</i>	43.4149
<i>Link Source:</i>	IDS			<i>Geometry X:</i>	
<i>SWP Area Name:</i>	Halton			<i>Geometry Y:</i>	
<i>Approval Type:</i>	ECA-Municipal Drinking Water Systems				
<i>Project Type:</i>	Municipal Drinking Water Systems				
<i>Business Name:</i>	The Regional Municipality of Halton				
<i>Address:</i>	Harrison Court				
<i>Full Address:</i>					
<i>Full PDF Link:</i>					
<i>PDF Site Location:</i>					
<u>2</u>	2 of 2	ENE/127.2	161.1 / -0.97	The Regional Municipality of Halton Harrison Court Burlington ON L6M 3L1	ECA
<i>Approval No:</i>	9313-7F9GZ3			<i>MOE District:</i>	Halton-Peel
<i>Approval Date:</i>	2008-06-04			<i>City:</i>	
<i>Status:</i>	Approved			<i>Longitude:</i>	-79.8157
<i>Record Type:</i>	ECA			<i>Latitude:</i>	43.4149
<i>Link Source:</i>	IDS			<i>Geometry X:</i>	
<i>SWP Area Name:</i>	Halton			<i>Geometry Y:</i>	
<i>Approval Type:</i>	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
<i>Project Type:</i>	MUNICIPAL AND PRIVATE SEWAGE WORKS				
<i>Business Name:</i>	The Regional Municipality of Halton				
<i>Address:</i>	Harrison Court				
<i>Full Address:</i>					
<i>Full PDF Link:</i>	https://www.accessenvironment.ene.gov.on.ca/instruments/5446-7F3S8L-14.pdf				
<i>PDF Site Location:</i>					
<u>3</u>	1 of 2	WSW/174.7	160.8 / -1.19	3399 Appleby Line Burlington ON L0P	EHS
<i>Order No:</i>	21050600015			<i>Nearest Intersection:</i>	
<i>Status:</i>	C			<i>Municipality:</i>	
<i>Report Type:</i>	Custom Report			<i>Client Prov/State:</i>	ON
<i>Report Date:</i>	11-MAY-21			<i>Search Radius (km):</i>	.25
<i>Date Received:</i>	06-MAY-21			<i>X:</i>	-79.81885483
<i>Previous Site Name:</i>				<i>Y:</i>	43.41346522
<i>Lot/Building Size:</i>					
<i>Additional Info Ordered:</i>	Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>3</u>	2 of 2	WSW/174.7	160.8 / -1.19	3399 Appleby Line Burlington ON L0P	EHS
Order No:	21050600015			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	11-MAY-21			Search Radius (km):	.25
Date Received:	06-MAY-21			X:	-79.81885483
Previous Site Name:				Y:	43.41346522
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos				
<u>4</u>	1 of 1	WNW/217.8	162.8 / 0.77	ON	BORE
Borehole ID:	891185			Inclin FLG:	No
OGF ID:	215584000			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	09-MAY-1990			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	NELSON
Sec. Water Use:				Latitude DD:	43.414919
Total Depth m:	11			Longitude DD:	-79.819686
Depth Ref:	Ground Surface			UTM Zone:	17
Depth Elev:				Easting:	595556
Drill Method:	Diamond Drill			Northing:	4807569
Orig Ground Elev m:	162			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	164				
Concession:					
Location D:	Foundation Investigation Report For Bridge Structure Hwy. 403 -Appleby Line Underpass W.P. 411-85-02, Site No. 10-229 District 4, Burlington				
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	8504058			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	1.4			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	Fill-Granular
Material 1:	Silt			Geologic Formation:	
Material 2:	Clayey			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	clayey silt (fill) brown **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	8504060			Mat Consistency:	Very Dense
Top Depth:	9.2			Material Moisture:	
Bottom Depth:	11			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Silt			Geologic Formation:	
Material 2:	Sandy			Geologic Group:	
Material 3:	Gravel			Geologic Period:	
Material 4:	Clay			Depositional Gen:	glacial
Gsc Material Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Stratum Description:		heterogeneous mixture of sandy silt, gravel and clay. Very dense (glacial till) **Note: Many records provided by the department have a truncated [Stratum Description] field.			
Geology Stratum ID:	8504059			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Very Stiff
Top Depth:	1.4				
Bottom Depth:	9.2				
Material Color:	Red-Brown				
Material 1:	Silt				
Material 2:	Clayey				
Material 3:	Sand				
Material 4:	Gravel				
Gsc Material Description:		reddish brown. Heterogeneous mixture of clayey silt. Sand and gravel. Very stiff (glacial till) **Note: Many records provided by the department have a truncated [Stratum Description] field.			
Stratum Description:					
5	1 of 1	SE/223.4	159.7 / -2.31	3251 Appleby Line Burlington ON L7M 0V7	EHS
Order No:	21102900227			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	08-NOV-21			Search Radius (km):	.25
Date Received:	29-OCT-21			X:	-79.81516307
Previous Site Name:				Y:	43.41294808
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Topographic Maps; City Directory; Aerial Photos				
6	1 of 1	WNW/243.0	163.0 / 0.97	ON	BORE
Borehole ID:	891183			Inclin FLG:	No
OGF ID:	215583998			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	03-MAY-1990			Municipality:	
Static Water Level:	10.7			Lot:	
Primary Water Use:				Township:	NELSON
Sec. Water Use:				Latitude DD:	43.41511
Total Depth m:	15.9			Longitude DD:	-79.819929
Depth Ref:	Ground Surface			UTM Zone:	17
Depth Elev:				Easting:	595536
Drill Method:	Diamond Drill			Northing:	4807590
Orig Ground Elev m:	163			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	164				
Concession:					
Location D:	Foundation Investigation Report For Bridge Structure Hwy. 403 -Appleby Line Underpass W.P. 411-85-02, Site No. 10-229 District 4, Burlington				
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	8504054			Mat Consistency:	Very Stiff
Top Depth:	2.4			Material Moisture:	
Bottom Depth:	10.7			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Silt			Geologic Formation:	
Material 2:	Sand			Geologic Group:	
Material 3:	Gravel			Geologic Period:	
Material 4:				Depositional Gen:	glacial
Gsc Material Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Stratum Description:	Heterogeneous mixture of clayey silt, sand and gravel. Very stiff to hard. (glacial till) brown.				
Geology Stratum ID:	8504055			Mat Consistency:	
Top Depth:	10.7			Material Moisture:	
Bottom Depth:	15.9			Material Texture:	
Material Color:	Red			Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Shale			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Red, bedrock Queeston shale. Weathered sound.				
Geology Stratum ID:	8504053			Mat Consistency:	
Top Depth:	1.4			Material Moisture:	
Bottom Depth:	2.4			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Silt			Geologic Formation:	Fill-Granular
Material 2:	Clayey			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	clayey silt (fill) **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	8504052			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	1.4			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	Fill-Granular
Material 2:	Gravel			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Sand and gravel (fill) **Note: Many records provided by the department have a truncated [Stratum Description] field.				

7	1 of 1	WNW/244.5	163.4 / 1.36	ON	BORE
Borehole ID:	891182			Inclin FLG:	No
OGF ID:	215583997			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	09-MAY-1990			Municipality:	
Static Water Level:	10.0			Lot:	
Primary Water Use:				Township:	NELSON
Sec. Water Use:				Latitude DD:	43.4152
Total Depth m:	13.7			Longitude DD:	-79.819902
Depth Ref:	Ground Surface			UTM Zone:	17
Depth Elev:				Easting:	595538
Drill Method:	Diamond Drill			Northing:	4807600
Orig Ground Elev m:	163			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	164				
Concession:					
Location D:	Foundation Investigation Report For Bridge Structure Hwy. 403 -Appleby Line Underpass W.P. 411-85-02, Site No. 10-229 District 4, Burlington				
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID: 8504049 **Mat Consistency:** Very Stiff

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	2.3 8.6 Brown Silt Clayey Sand Gravel			Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
				glacial	
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	8504048 1.4 2.3 Brown Silt Clayey			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Fill-Granular
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	8504047 0 1.4 Brown Sand Gravel			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Fill-Granular
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	8504051 11.3 13.7 Bedrock Shale			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	8504050 8.6 11.3 Red-Brown Silt Sandy Gravel Clay			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Very Dense
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	8504050 Heterogeneous mixture of sandy silt, gravel and clay very dense. (glacial till) reddish brown **Note: Many records provided by the department have a truncated [Stratum Description] field.				

8 1 of 1

NW/249.9

165.3 / 3.28

Parcel 13
Burlington ON

EHS

Order No:	19990601013	Nearest Intersection:
Status:	C	Municipality:
Report Type:	Custom Report	Client Prov/State:
Report Date:	6/11/99	Search Radius (km):
Date Received:	6/1/99	X: -79.818782 ON 0.50

<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>Previous Site Name:</i>				<i>Y:</i>	43.416557
<i>Lot/Building Size:</i>					
<i>Additional Info Ordered:</i>					

Unplottable Summary

Total: 16 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	D. GREENFIELD ASSOC. LTD.	EASEMENT APPLEBY LINE	BURLINGTON CITY ON	
CA	The Regional Municipality of Halton	Harrison Court	Burlington ON	
CA	Paletta International Corporation	Appleby Line, North of Dundas Street	Burlington ON	
CA		lot 4 and lot 5, Concession 1 & 2, SDS	Burlington ON	
CA		Lots 4 and 5, Concession 1 Harrison Court	Burlington ON	L7R 3X4
CA		Within the Right of Way of Appleby Line	Burlington ON	
CA	R.M. OF HALTON APPLEBY LINE	APPLEBY LINE	BURLINGTON CITY ON	
CA	R.M. OF HALTON	APPLEBY LINE/LOT 5, CONC. 1	BURLINGTON CITY ON	
CA	The Regional Municipality of Halton	Appleby Line	Burlington ON	
CA	R.M. OF HALTON APPLEBY LINE	APPLEBY LINE	BURLINGTON CITY ON	
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
ECA	Paletta International Corporation	Appleby Line, North of Dundas Street	Burlington ON	L7L 5R2
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
ECA	The Regional Municipality of Halton	Within the Right of Way of Appleby Line	Burlington ON	L6M 3L1
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
SPL	Metro Waste Paper Recovery Inc.	Appleby Line	Burlington ON	

Unplottable Report

Site: D. GREENFIELD ASSOC. LTD.
EASEMENT APPLEBY LINE BURLINGTON CITY ON

Database:
CA

Certificate #: 3-0855-89-
Application Year: 89
Issue Date: 5/29/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: The Regional Municipality of Halton
Harrison Court Burlington ON

Database:
CA

Certificate #: 9313-7F9GZ3
Application Year: 2008
Issue Date: 6/4/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Paletta International Corporation
Appleby Line, North of Dundas Street Burlington ON

Database:
CA

Certificate #: 9237-5QBL6P
Application Year: 2003
Issue Date: 8/26/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: lot 4 and lot 5, Concession 1 & 2, SDS Burlington ON

Database:
CA

Certificate #: 8780-4LGQQ4
Application Year: 00

Order No: 22041300310

Issue Date: 6/21/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation Of The City Of Burlington
Client Address: P.O. Box 5013, 426 Brant Street
Client City: Burlington
Client Postal Code: L7R 3Z6
Project Description: Extension of existing 965mm x 1625mm storm sewer from existing outlet to proposed culvert, and construction of new storm sewer and catchbasins along Upper Middle Road (from Appleby Line to Orchard Road).
Contaminants:
Emission Control:

Site: Lots 4 and 5, Concession 1 Harrison Court Burlington ON L7R 3X4 **Database:** CA

Certificate #: 8310-4W5JPG
Application Year: 01
Issue Date: 4/27/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Paletta International Corporation
Client Address: 4480 Paletta Court
Client City: Burlington
Client Postal Code: L7L 5R2
Project Description: Watermains to be constructed on Harrison Court
Contaminants:
Emission Control:

Site: Within the Right of Way of Appleby Line Burlington ON **Database:** CA

Certificate #: 7555-4TGS7R
Application Year: 01
Issue Date: 2/5/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Halton
Client Address: 1151 Bronte Road
Client City: Oakville
Client Postal Code: L6M 3L1
Project Description: Installation of watermains on Appleby Line and Birett Drive in the City of Burlington.
Contaminants:
Emission Control:

Site: R.M. OF HALTON APPLEBY LINE
APPLEBY LINE BURLINGTON CITY ON **Database:** CA

Certificate #: 7-0508-88-
Application Year: 88
Issue Date: 5/10/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF HALTON
APPLEBY LINE/LOT 5, CONC. 1 BURLINGTON CITY ON

Database:
CA

Certificate #: 7-0117-93-
Application Year: 93
Issue Date: 4/26/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: The Regional Municipality of Halton
Appleby Line Burlington ON

Database:
CA

Certificate #: 4380-62LQKU
Application Year: 2004
Issue Date: 7/6/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF HALTON APPLEBY LINE
APPLEBY LINE BURLINGTON CITY ON

Database:
CA

Certificate #: 3-0572-88-
Application Year: 88
Issue Date: 5/10/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: The Regional Municipality of Halton
Appleby Line Burlington ON L6M 3L1

Database:
ECA

Approval No: 7967-5NTPCY **MOE District:**
Approval Date: 2003-06-25 **City:**
Status: Approved **Longitude:**
Record Type: ECA **Latitude:**
Link Source: IDS **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Regional Municipality of Halton
Address: Appleby Line

Full Address:
Full PDF Link:
PDF Site Location:

Site: Paletta International Corporation
Appleby Line, North of Dundas Street Burlington ON L7L 5R2

Database:
ECA

Approval No: 9237-5QBL6P **MOE District:**
Approval Date: 2003-08-26 **City:**
Status: Approved **Longitude:**
Record Type: ECA **Latitude:**
Link Source: IDS **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Paletta International Corporation
Address: Appleby Line, North of Dundas Street
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/4691-5Q5HWJ-14.pdf>
PDF Site Location:

Site: The Regional Municipality of Halton
Appleby Line Burlington ON L6M 3L1

Database:
ECA

Approval No: 4380-62LQKU **MOE District:**
Approval Date: 2004-07-06 **City:**
Status: Approved **Longitude:**
Record Type: ECA **Latitude:**
Link Source: IDS **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Halton
Address: Appleby Line
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/9635-623QN5-14.pdf>
PDF Site Location:

Site: The Regional Municipality of Halton
Within the Right of Way of Appleby Line Burlington ON L6M 3L1

Database:
ECA

Approval No: 7555-4TGS7R **MOE District:**
Approval Date: 2001-02-05 **City:**
Status: Approved **Longitude:**
Record Type: ECA **Latitude:**
Link Source: IDS **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: The Regional Municipality of Halton
Address: Within the Right of Way of Appleby Line
Full Address:
Full PDF Link:
PDF Site Location:

Site: The Regional Municipality of Halton
Appleby Line Burlington ON L6M 3L1

Database:
ECA

Approval No: 8170-5Y9RZU **MOE District:**
Approval Date: 2004-04-23 **City:**
Status: Approved **Longitude:**
Record Type: ECA **Latitude:**
Link Source: IDS **Geometry X:**
SWP Area Name: **Geometry Y:**

SWP Area Name: Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Regional Municipality of Halton
Address: Appleby Line
Full Address:
Full PDF Link:
PDF Site Location:

Site: Metro Waste Paper Recovery Inc.
Appleby Line Burlington ON **Database:** SPL

Ref No: 7027-87UNN3 **Discharger Report:**
Site No: **Material Group:**
Incident Dt: **Health/Env Conseq:**
Year: **Client Type:**
Incident Cause: **Sector Type:**
Incident Event: **Agency Involved:**
Contaminant Code: 15 **Nearest Watercourse:**
Contaminant Name: HYDRAULIC OIL **Site Address:**
Contaminant Limit 1: **Site District Office:**
Contam Limit Freq 1: **Site Postal Code:**
Contaminant UN No 1: **Site Region:**
Environment Impact: Not Anticipated **Site Municipality:**
Nature of Impact: **Site Lot:**
Receiving Medium: **Site Conc:**
Receiving Env: **Nothing:**
MOE Response: No Field Response **Easting:**
Dt MOE Arvl on Scn: **Site Geo Ref Accu:**
MOE Reported Dt: 7/30/2010 **Site Map Datum:**
Dt Document Closed: **SAC Action Class:** Land Spills
Incident Reason: **Source Type:**
Site Name: Appleby Line<UNOFFICIAL>
Site County/District: Land Spills
Site Geo Ref Meth: Land Spills
Incident Summary: QEW E/Appleby Line: hydraulic oil to road/drain
Contaminant Qty: 125 L

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-Oct 2018

Anderson's Waste Disposal Sites:

Private

ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

AUWR

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

Government Publication Date: 1999-Sep 30, 2021

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 2019

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-Sep 30, 2021

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 -Nov 2021

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-Jan 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 - Mar 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- Feb 28, 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 - Mar 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- Feb 28, 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-Nov 30, 2021

Environmental Issues Inventory System:

Federal

EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial

EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or 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-Nov 2021

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-Nov 30, 2021

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: Feb 28, 2019

Canadian Mine Locations:

Private

MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

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

Government Publication Date: 1846-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

NEBW

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

*Government Publication Date: 1920-Feb 2003**

National Environmental Emergencies System (NEES):

Federal NEES

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

Government Publication Date: 1974-2003***National PCB Inventory:**

Federal NPCB

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

Government Publication Date: 1988-2008***National Pollutant Release Inventory:**

Federal NPRI

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

Government Publication Date: 1993-May 2017**Oil and Gas Wells:**

Private OGWE

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

Government Publication Date: 1988-Feb 28, 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 - Feb 28, 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- 28 Feb 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 is 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 - Mar 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-Feb 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-Sep 30, 2021

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, 2019

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

Variances 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- Feb 28, 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 30st, 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: Sep 30, 2021

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX H
MECP FOI Search Results



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) * To (yyyy/mm/dd) *
1900/01/01 2022/04/13

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

Other Specific Document(s)

Type of Approval/Registration *

- Drinking Water Licenses
 Pesticide Licenses

- Permits to Take 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 *

Thompson

First Name *

Grace

Middle Initial

Business/Organization Name (if applicable or indicate “N/A”) *

Pinchin Ltd.

Project/Reference Number (if applicable)

307237

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

Yes No

Mailing Address

Unit Number	Street Number *	Street Name *
	6-875	Main St W Suite 200
PO Box	City/Town *	Province * Postal Code *
	Hamilton	ON L8S 4R9
Telephone Number *	Email Address *	
289-308-6270	ext.	gthompson@pinchin.com

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

Yes No

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
	3399	Appleby Line

Full Lot Number	Concession	Geographic Township

City/Town/Village *

Burlington

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

3399 Appleby Line
Burlington

Owner Name

Summit (3399 Appleby Line) Ltd.

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: 23290737

APPENDIX I
TSSA Search Results



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

16 May 2022

Grace Thompson
Pinchin Ltd.
6-875 Main Street West, Suite 200,
Hamilton ON L8S 4P9

Subject: 3399 Appleby Line, Burlington, ON
Your File No.: 307237
SR No.: 3194258

Dear Madam/Sir:

We are in receipt of your correspondence wherein you requested the release of information regarding the above noted subject.

A search of TSSA public records **did not** identify/reveal/locate any documents relating to the following Program(s):

<u>Program</u>	<u>No Record</u>
Fuels Safety	<input checked="" type="checkbox"/>
Boiler/Pressure Vessel	<input type="checkbox"/>
Elevating & Amusement Devices	<input type="checkbox"/>

Requested records relating to the following Program(s) were located:

<u>Program</u>	<u>Record</u>	<u>Documents Attached</u>
Fuels Safety	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Boiler/Pressure Vessel**	<input type="checkbox"/>	<input type="checkbox"/>
Elevating & Amusement Devices	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>

**For BPV, if it has been indicated that records have been located but are not attached, it is likely that TSSA may not be the keeper of the records you are looking for, see note below.

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released. The requestor assumes all risk in using or relying on the information provided.

Should you have any questions, please contact Public Information at [publicinformatnservices@tssa.org](mailto:publicinformatonservices@tssa.org).

Yours truly,

Mariah Falzon

Mariah Falzon
Public Information Services

Limitations and Notices:

TSSA Fuels Safety:

If you have environmental concerns regarding this property, you should consider hiring an environmental consultant to conduct an environmental assessment of the property in question.

- Sites that have not been licensed since 1987 may not be in TSSA records.
- Be advised, TSSA Fuels Safety Division did not register:
 - private fuel underground/ aboveground storage tanks prior to January of 1990; and
 - furnace oil tanks prior to May 1, 2002.
- Fuels Safety Division does not register
 - private waste oil tanks in apartments, office buildings, residences etc.; and
 - aboveground gas or diesel tanks.
- The *Technical Standards and Safety Act* and associated regulations do not require the registration of private fuel outlets, nor does it require that any documentation on these facilities be submitted to or reviewed or approved by TSSA. As a result, TSSA has limited information on these facilities. TSSA cautions that any information provided may be inaccurate, incomplete or out of date.

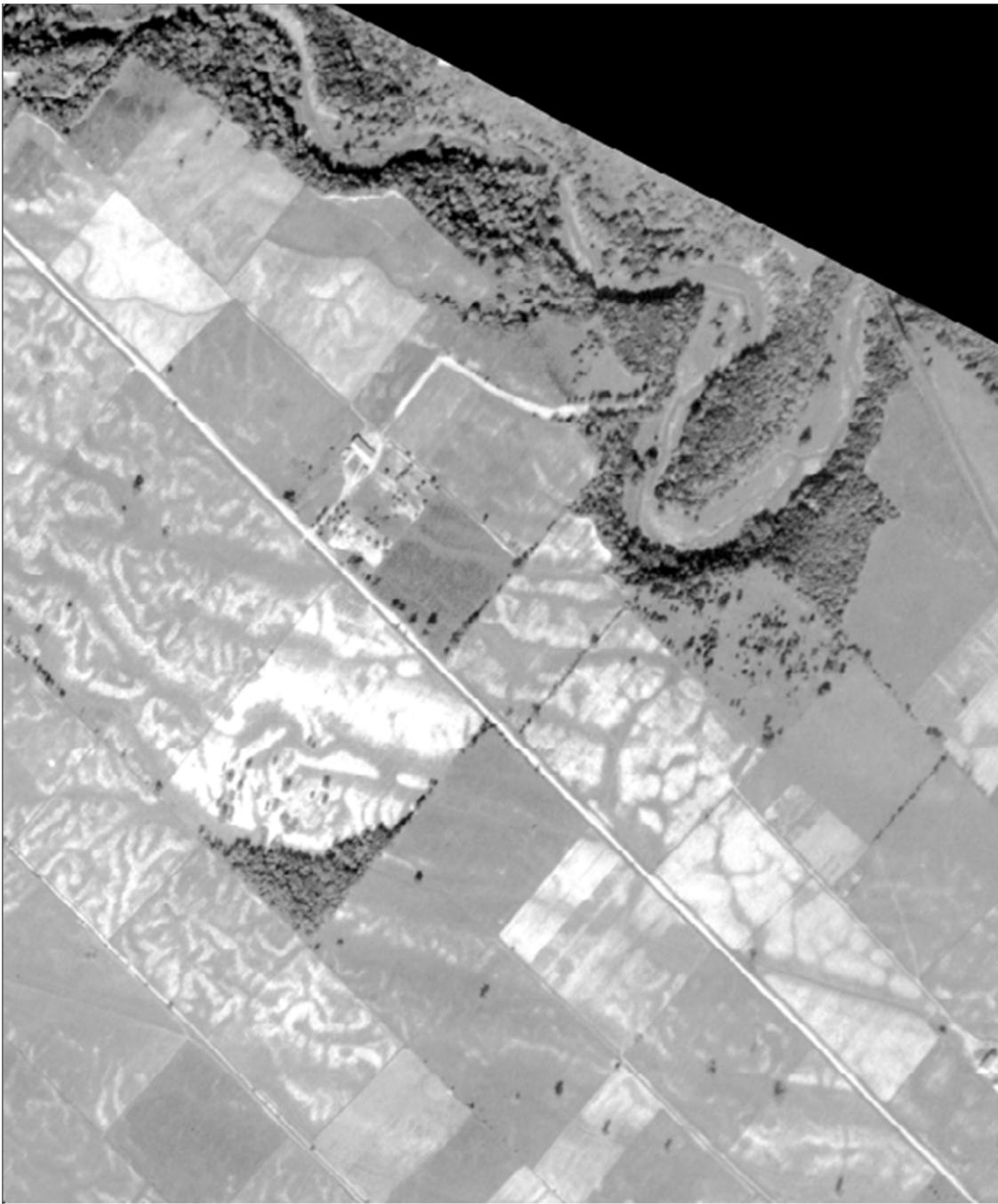
TSSA Elevating & Amusement Devices Program Notice:

- All orders and/or directions issued by the TSSA Inspector have a compliance date and the owner or designated contractor are required to comply within the specified time limit.
- All written declarations of compliance (where eligible) should be sent to TSSA. Once a declaration of compliance has been received, the outstanding order will be resolved.
- Each report shows the details and date of the inspection conducted by TSSA at the requested location.
- The Ontario Amusement Devices Regulation (O. Reg. 221/01) was adopted in 2001. Since that time, TSSA retains copies of technical dossiers of new amusement devices in Ontario (as per TSSA's retention policy). However, for rides that existed prior to the adoption of the Regulation, which were subject to a "grandfathering-in" clause, technical dossiers were not required to be filed with the TSSA. However, if the amusement ride remains in operation, as per ASTM requirements, the owner/licensee must possess an operations document for the device in question.

TSSA Boilers and Pressure Vessels (BPVs) Program Notice:

- Be advised, TSSA does not typically inspect BPVs. These inspections are usually performed by insurance companies.
- **Inspection reports are not always submitted to TSSA by insurance companies; therefore, while TSSA may have some evidence of a BPV at a location on file, there may be no inspection records pertaining to BPVs located at the address provided.
- As of July 1, 2018, BPVs in Ontario may not be operated unless the Director has issued a current certificate of inspection (COI) to the owner or operator. A COI will be issued to the owner or operator of the BPV by TSSA after TSSA has received a Record of Inspection (ROI) from the insurer/third-party inspector, the associated fees have been paid and the BPV has passed a periodic inspection.
- Please note that if the BPV in question is insured, the insurance company may have additional inspection records. Please contact the insurer directly should you wish to obtain further information.

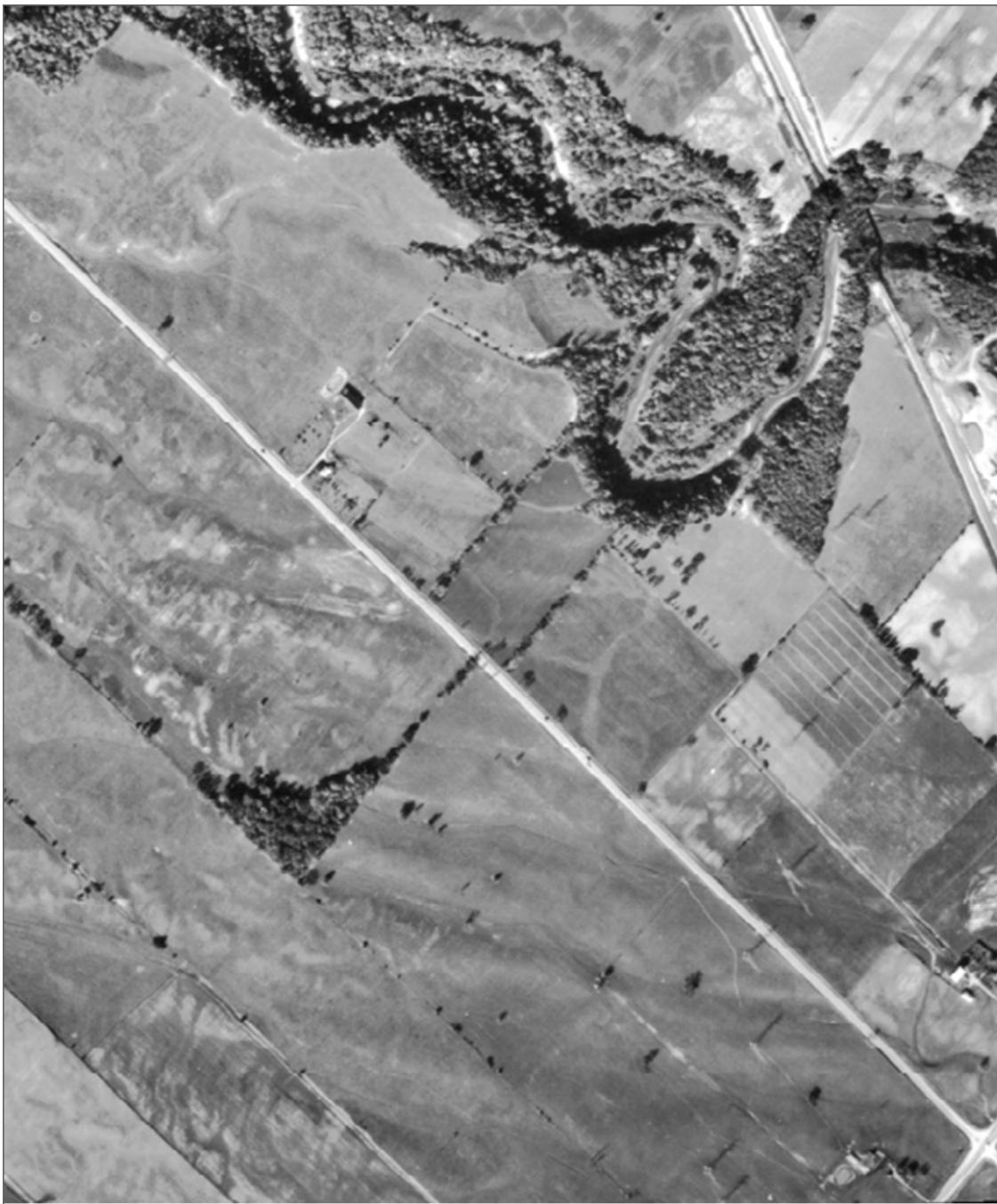
APPENDIX J
Aerial Photographs



Aerial Photograph – 1934



Aerial Photograph – 1954



Aerial Photograph – 1965



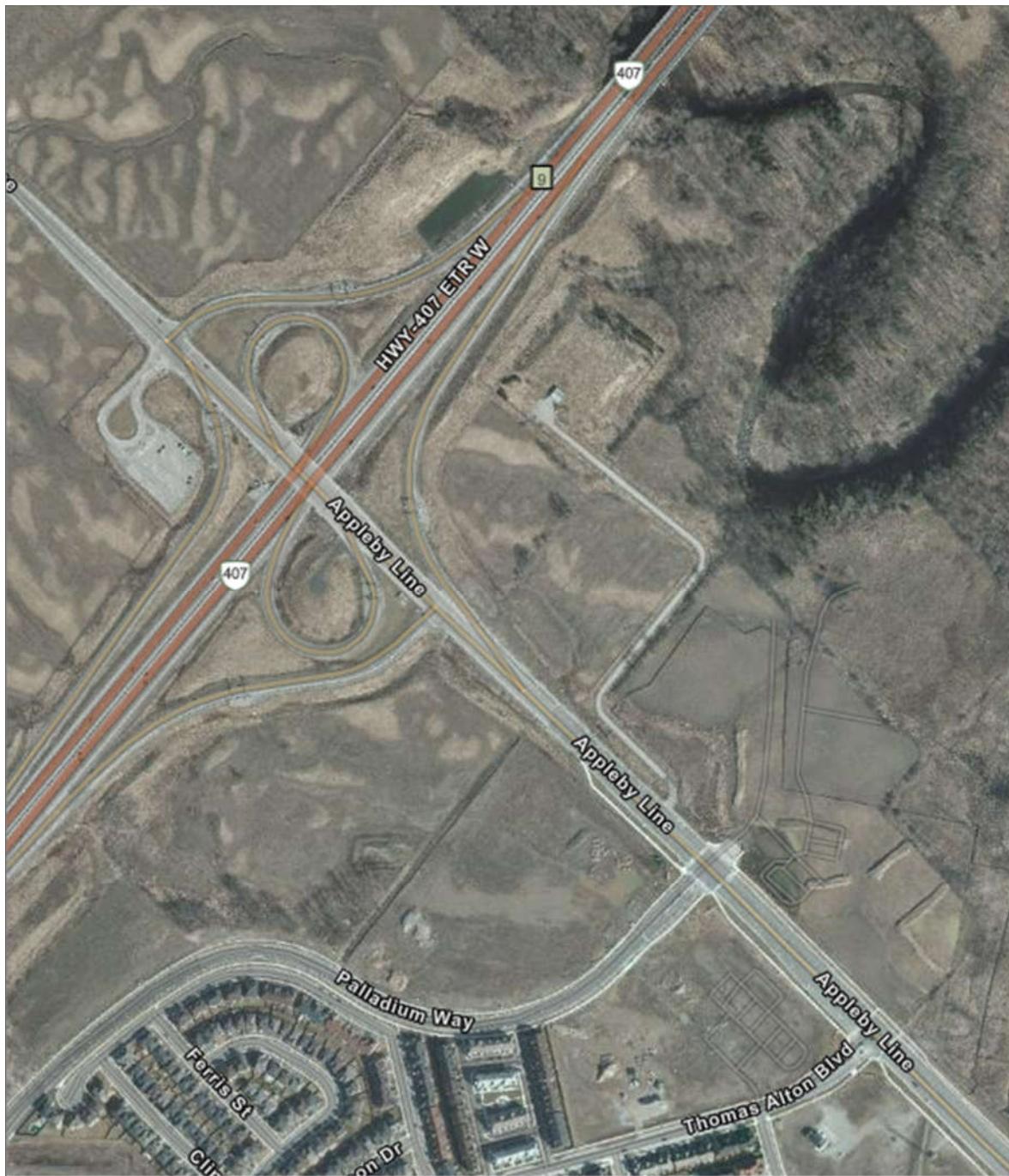
Aerial Photograph – 1974



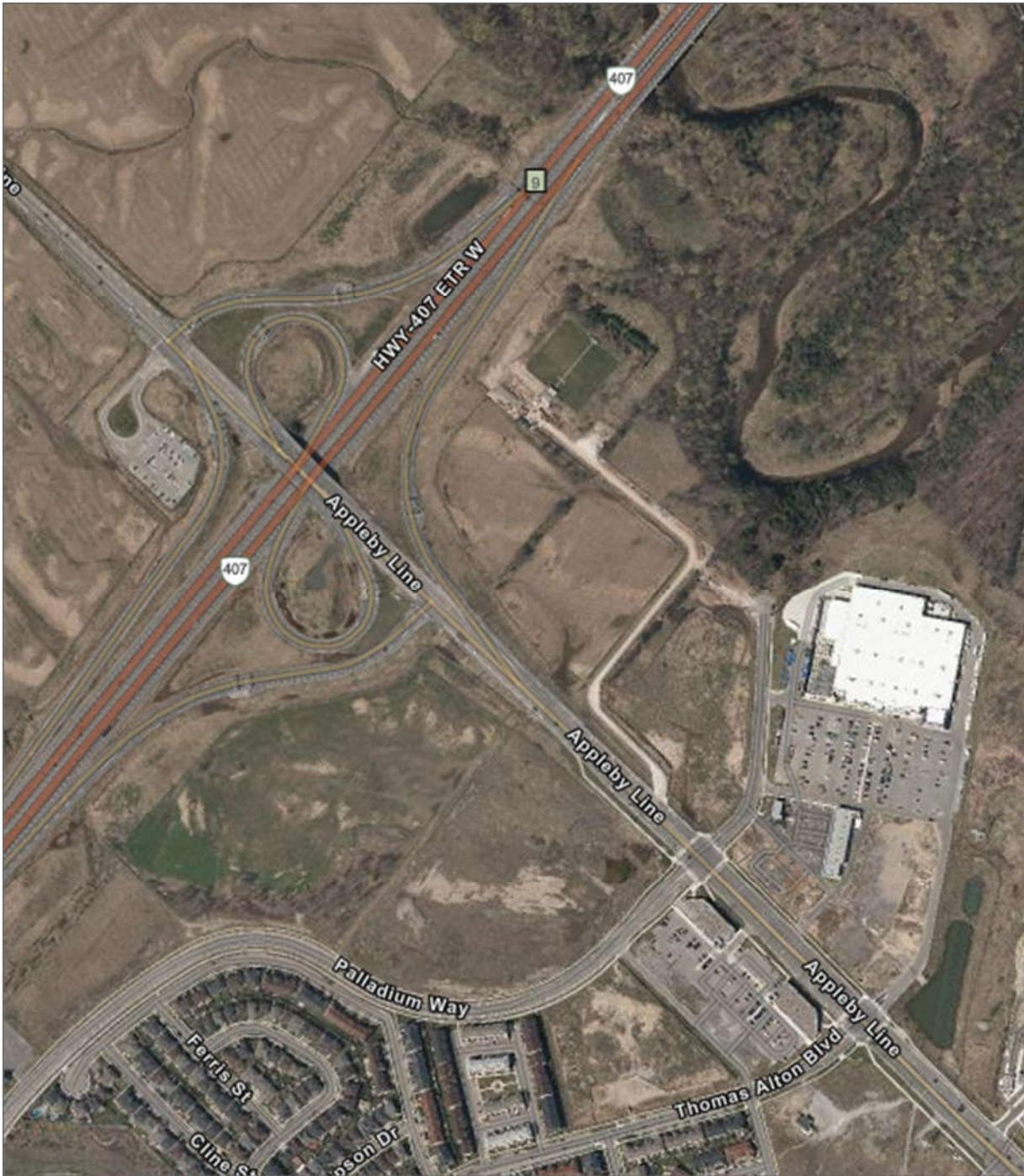
Aerial Photograph – 1985



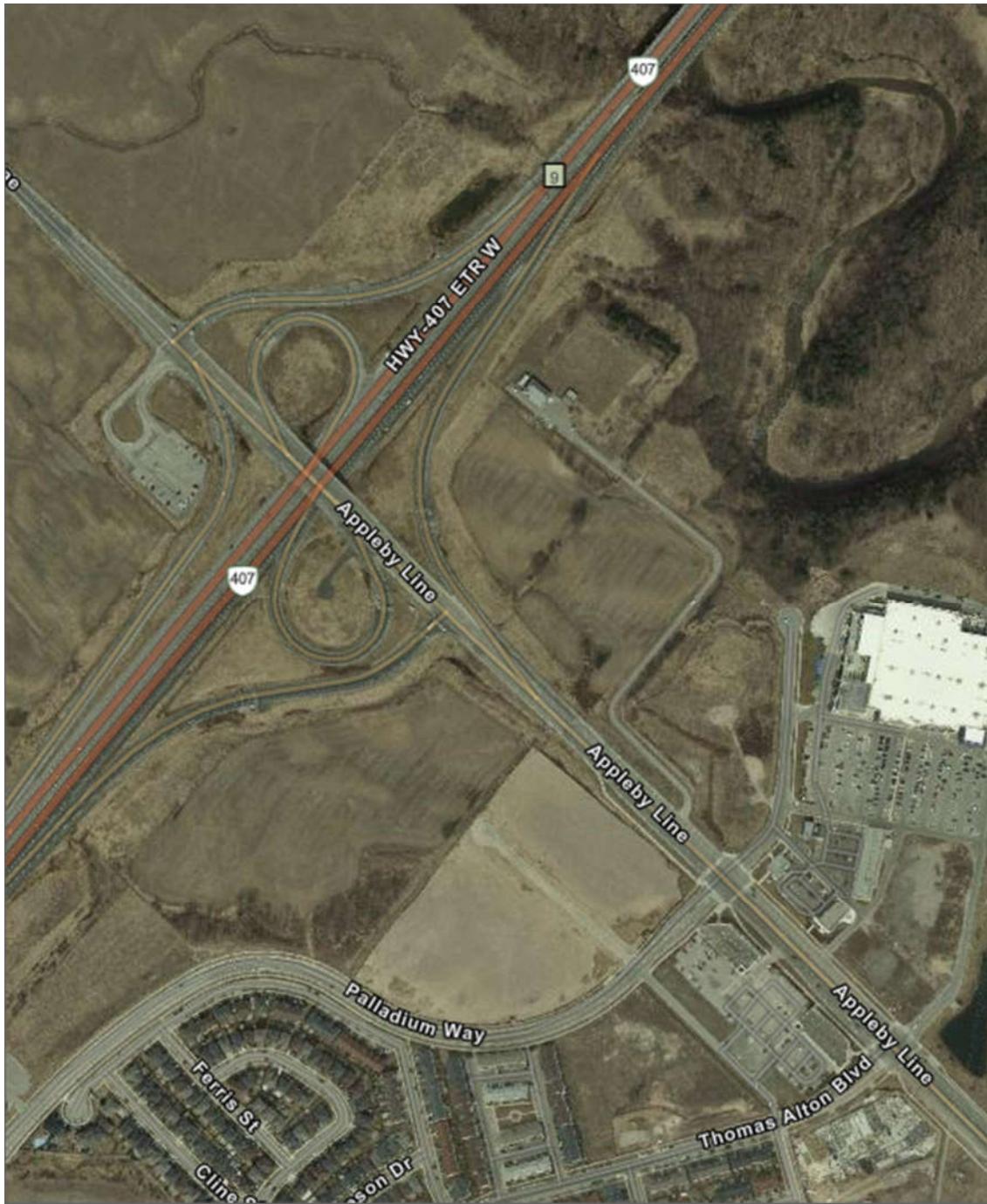
Aerial Photograph – 2002



Aerial Photograph – 2012



Aerial Photograph – 2017



Aerial Photograph – 2021

APPENDIX K

Maps

Property Information

Order Number:	22041300310p
Date Completed:	April 19, 2022
Project Number:	307237
Project Property:	307237 3399 Appleby Line Burlington ON L7R 3X4
Coordinates:	Latitude: 43.41438 Longitude: -79.8171 UTM Northing: 4807512.12724 Metres UTM Easting: 595766.169921 Metres UTM Zone: UTM Zone 17T Elevation: 162.04 m Slope Direction: S

Property Information.....	1
Topographic Information.....	2
Hydrologic Information.....	4
Geologic Information.....	5
Soil Information.....	9
Wells and Additional Sources.....	29
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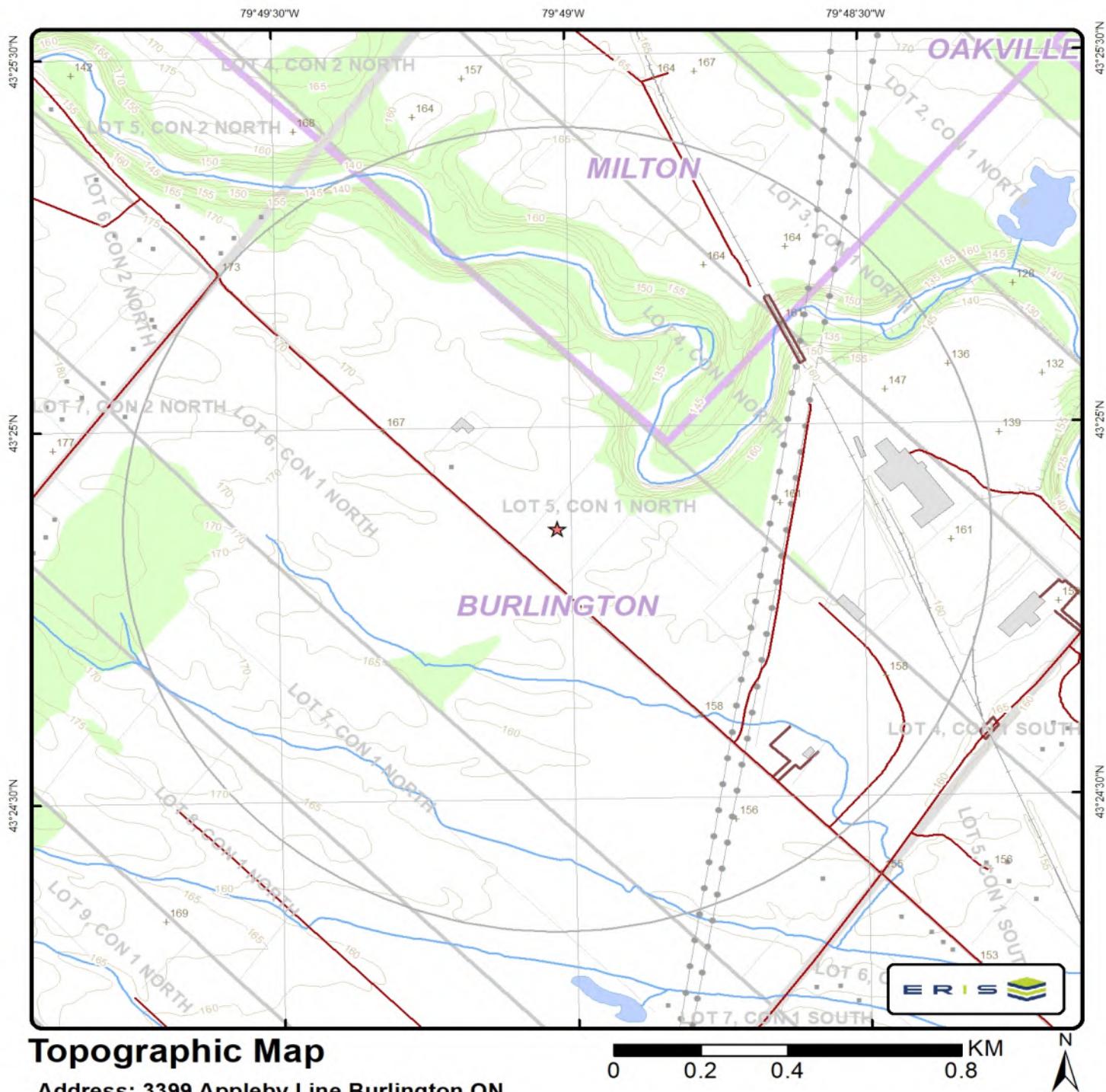
The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography as well as hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



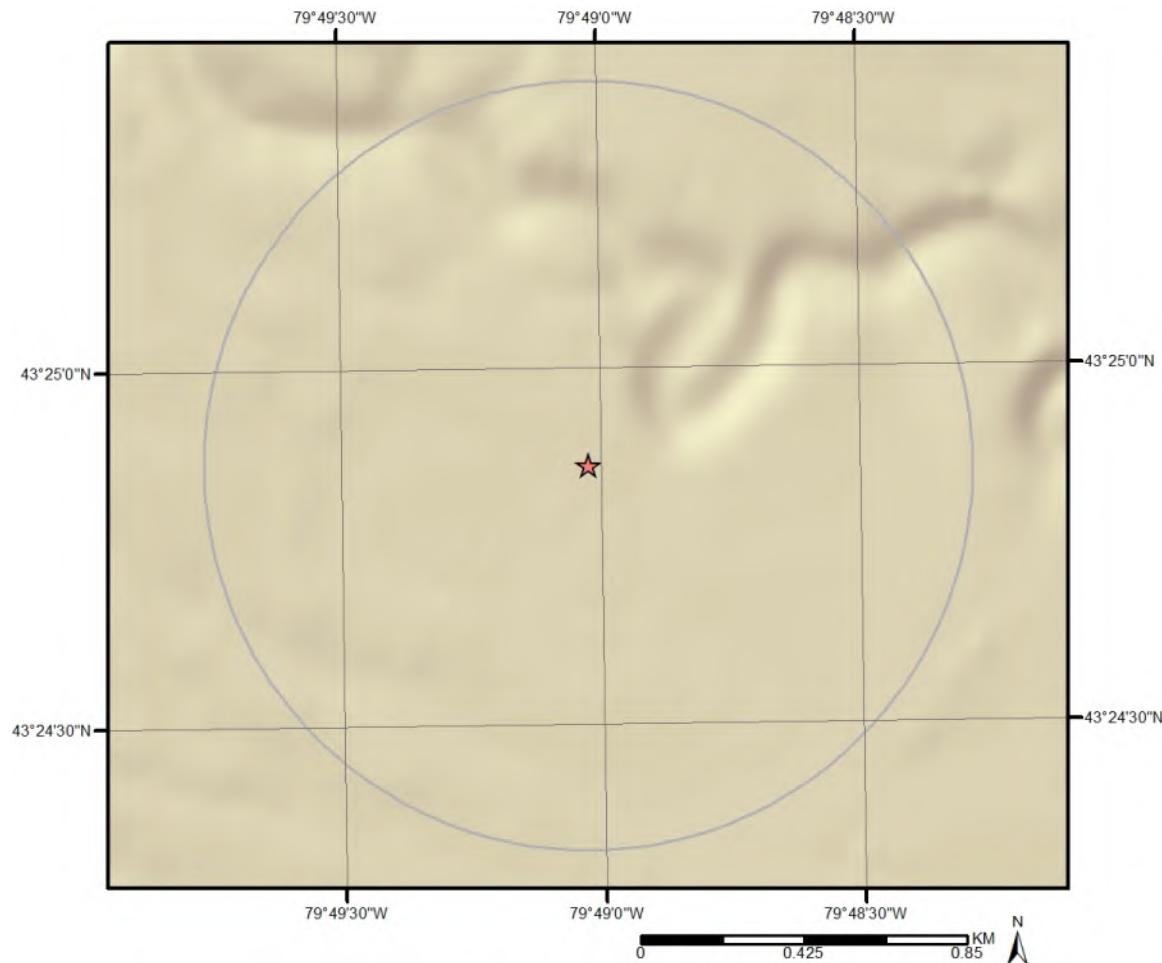
Data source: Ontario Base Mapping (OBM) by Ontario Ministry of Natural Resources.

Topographic Information

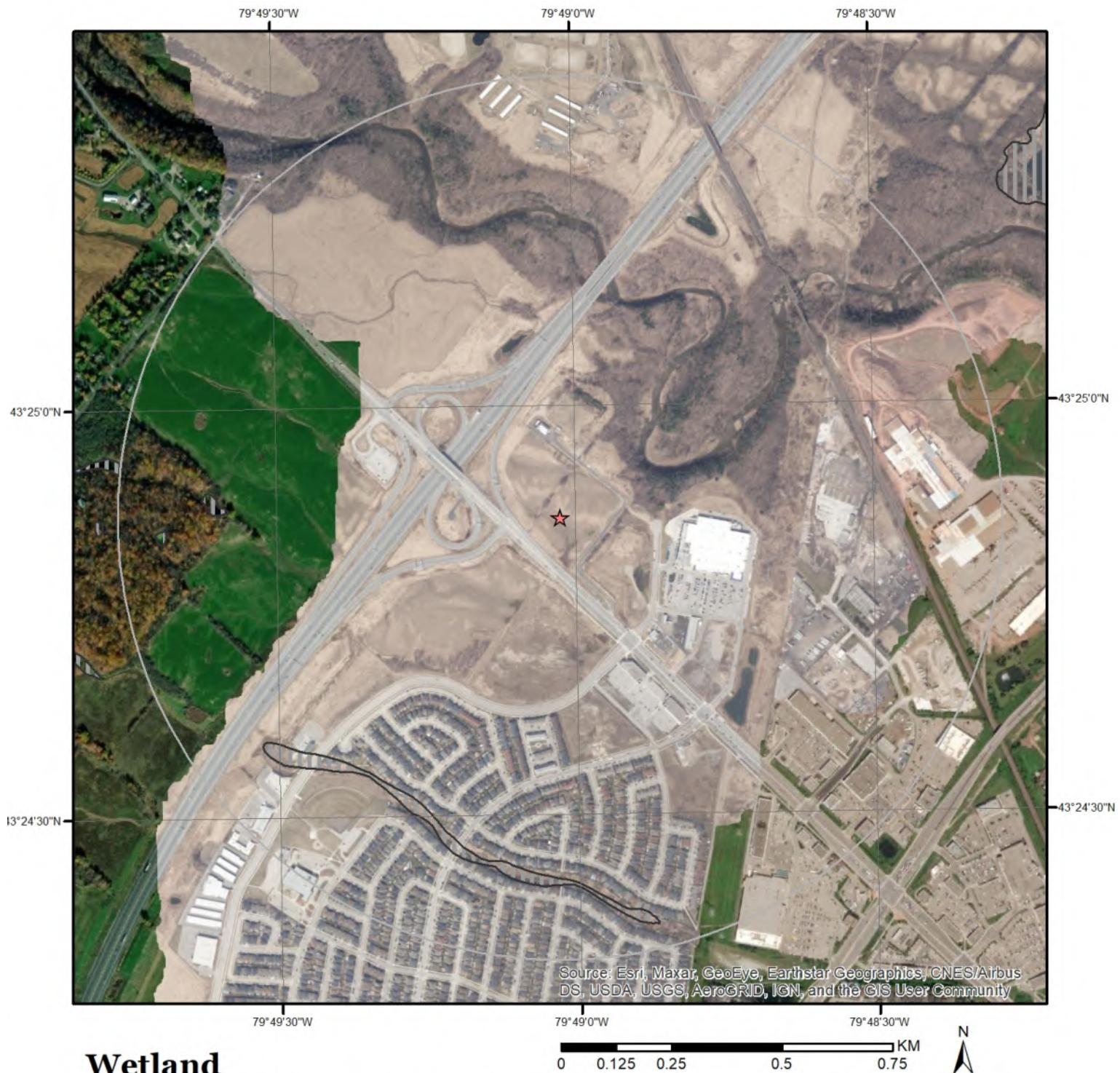
The previous topographic map(s) show general topographic information in the surrounding area of the project property, using Toporama data or a provincial source when available. Below are shaded relief map(s), derived from Digital Elevation data to depict terrain in further detail.

Topographic information at project property:

Elevation: 162.04 m
Slope Direction: S



Hydrologic Information



Wetland

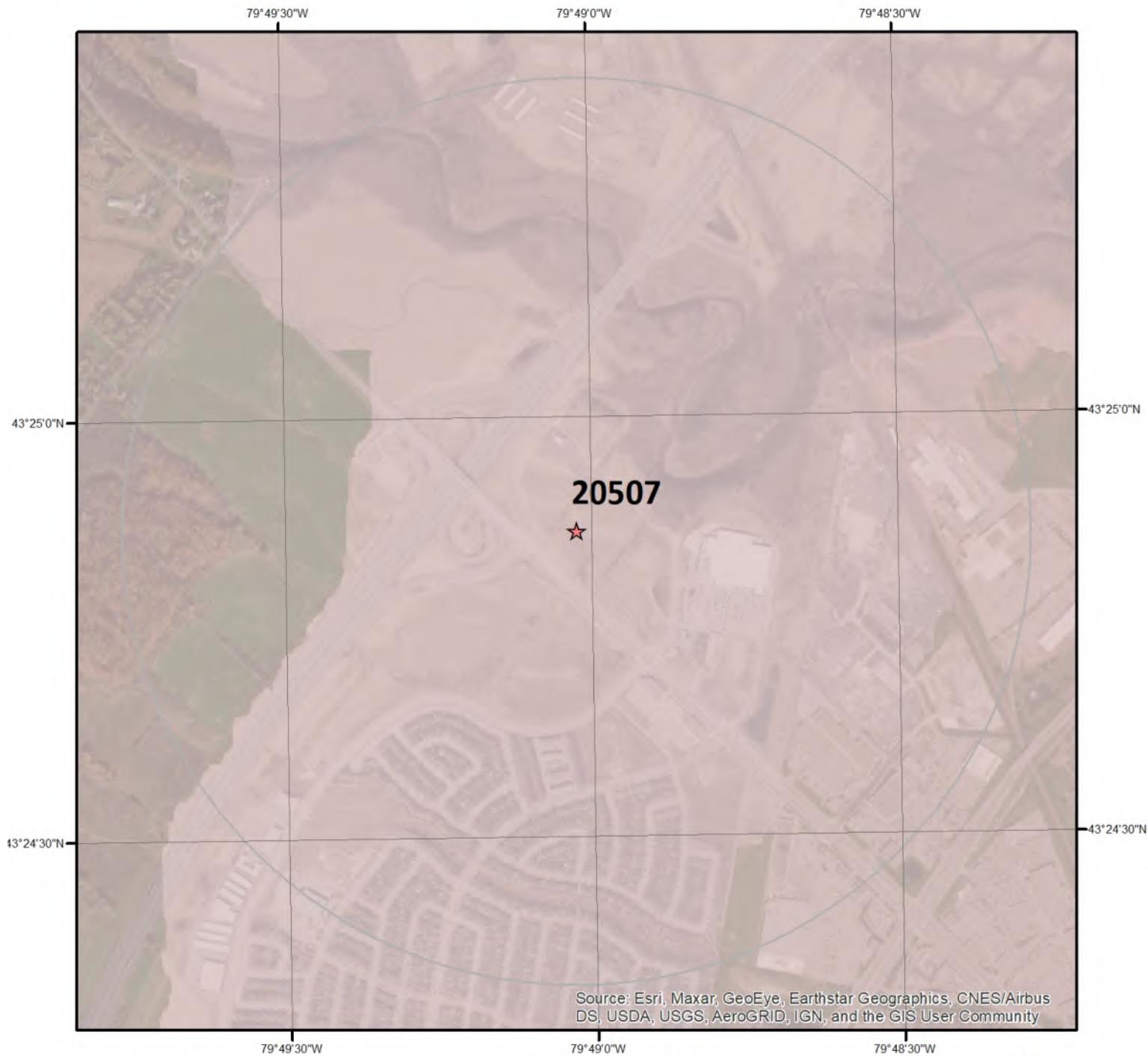
This map shows wetland existence. Data coverage is shown to the right.
Gray indicates no data available in the area.

Unknown

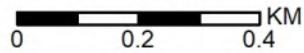


E R I S

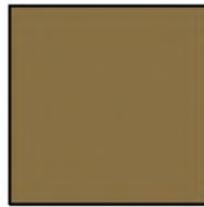
Geologic Information



Bedrock Geology



This map shows bedrock geologic units in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.



Geologic Information

Detailed bedrock geology information about each unit within the search radius is provided below.

Unit ID 20507

Unit Name:

Rock Type: Shale, limestone, dolostone, siltstone

Strata: Queenston Formation

Super Eon:

Eon: PHANEROZOIC (Present to 542.0 Ma)

Era: PALEOZOIC (251.0 Ma to 542.0 Ma)

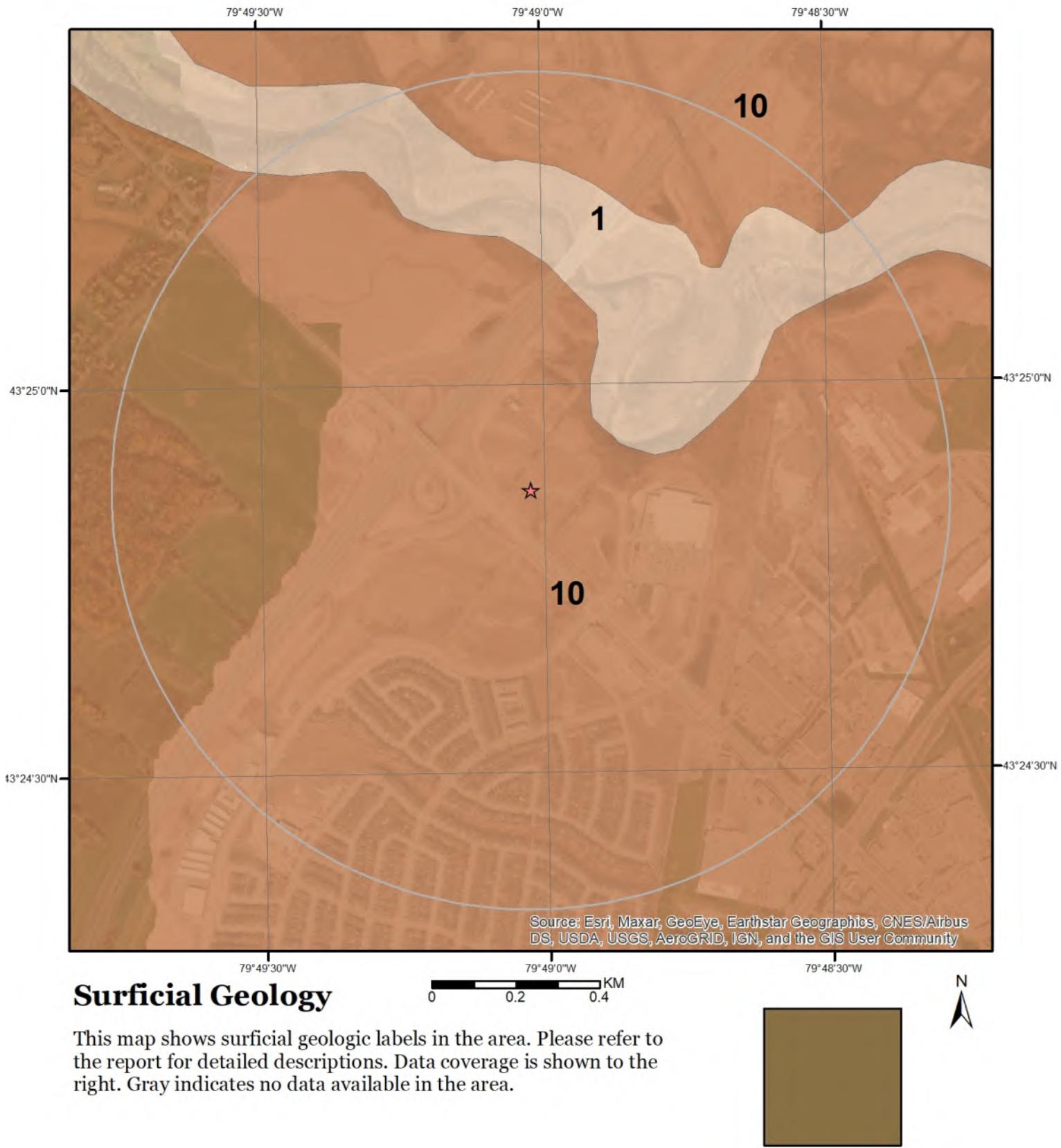
Period: ORDOVICIAN (443.7 Ma to 488.3 Ma)

Epoch: UPPER ORDOVICIAN

Province:

Tectonic Zone:

Geologic Information



This map shows surficial geologic labels in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.

Geologic Information

Detailed surficial geology information about each unit within the search radius is provided below.

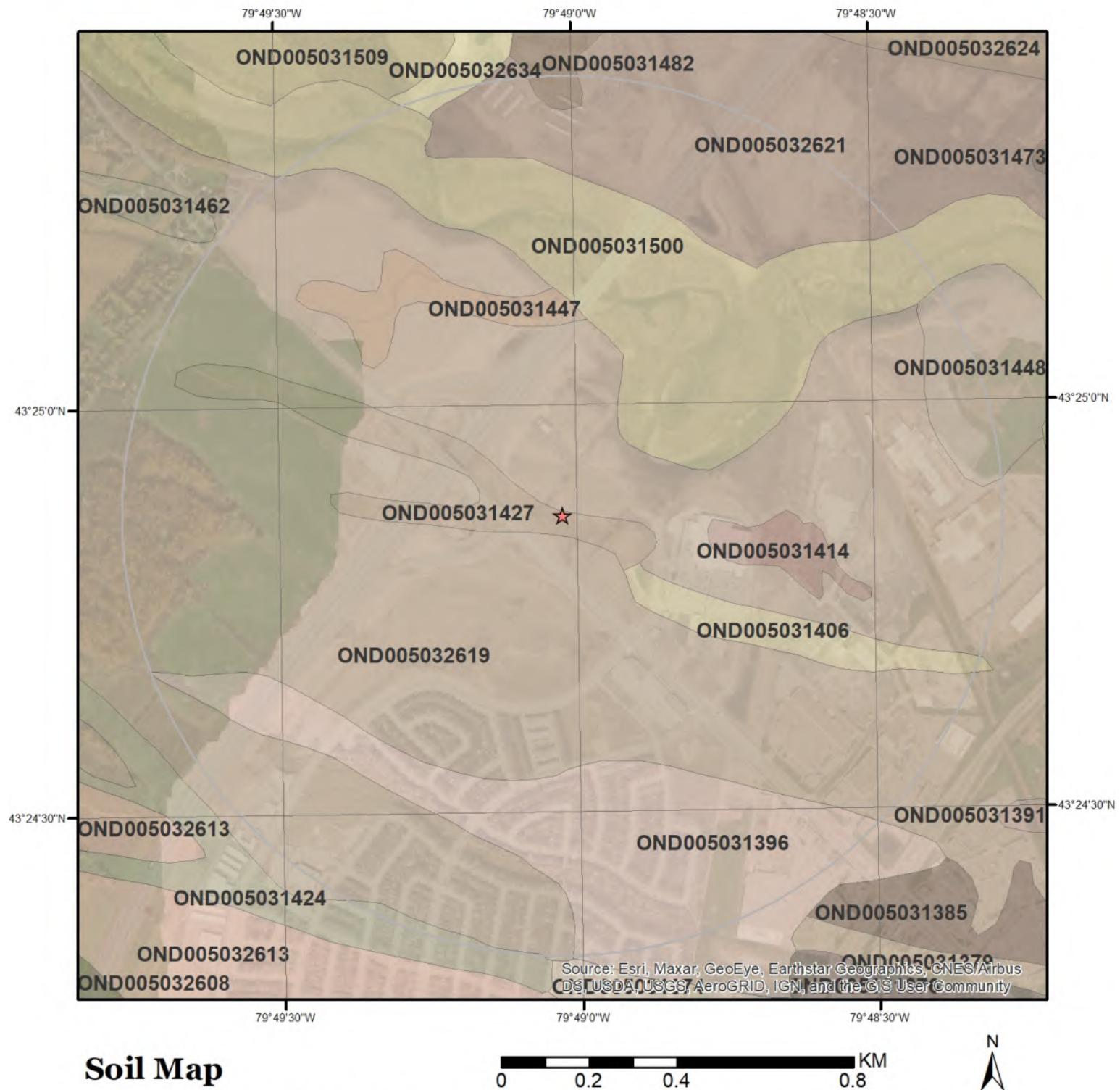
Unit ID 10

Geological Deposit:	Halton Till
Deposit Age:	Late Wisconsinan
Primary Material:	diamicton
Secondary Material:	
Primary General:	glacial
Primary General Modifier:	
Veneer:	
Episode:	Wisconsin
Sub Episode:	Michigan
Strata Modifier:	Surface
Provenance:	Erie-Ontario
Carbon Content:	medium
Formation:	Halton Till
Permeability:	Low
Material Description:	Clay or silt till

Unit ID 1

Geological Deposit:	Bedrock
Deposit Age:	Ordovician and Silurian
Primary Material:	Paleozoic Bedrock
Secondary Material:	
Primary General:	
Primary General Modifier:	
Veneer:	clay, silt, sand, gravel, diamicton
Episode:	
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Variable
Material Description:	Shale and dolomite

Soil Information



Soil Map

This map shows soil units around the target property. Please refer to the report for detailed soil descriptions.

Soil Information

Detailed soil information about each unit within the search radius is provided below.

Ontario Detailed Soil Survey (DSS3)

Polygon ID: OND005031414

Component

Component ID:	OND00503141401	Components(%):	100
Soil Name ID:	ONOID~~~~~A	Slope Steepness(%):	0.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: No significant limitations in use for Crops
First CLI Limitation
Subclass:
Second CLI Limitation
Subclass:
Drainage: Well
Soil Texture of A Horizon: medium - moderately fine loam
Hydrological Soil Groups: Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name: ONEIDA
Kind of Surface Material: Mineral
Soil Drainage Class: Well drained
Water Table Charateristics: Unspecified period
Layer that Restricts Root Growth: No root restricting layer
Type of Root Restricting Layer: n/a
Parent Material 1, 2, 3: Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3: Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3: Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ap	Total Sand(%):	39

Soil Information

Depth(cm):	0-8	Total Silt(%):	34
pH in Calc Chloride:	5	Total Clay(%):	27
Saturated Hydraulic Conductivity(cm/h):	0.609	Organic Carbon(%):	2.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Ae	Total Sand(%):	30
Depth(cm):	8-15	Total Silt(%):	44
pH in Calc Chloride:	5	Total Clay(%):	26
Saturated Hydraulic Conductivity(cm/h):	0.348	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ae	Total Sand(%):	30
Depth(cm):	15-23	Total Silt(%):	42
pH in Calc Chloride:	5	Total Clay(%):	28
Saturated Hydraulic Conductivity(cm/h):	0.336	Organic Carbon(%):	0.2
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Bt	Total Sand(%):	22
Depth(cm):	23-38	Total Silt(%):	32
pH in Calc Chloride:	5	Total Clay(%):	46
Saturated Hydraulic Conductivity(cm/h):	0.221	Organic Carbon(%):	0.2
Electrical Conductivity (dS/m):	0		
Layer No:	5	Very Fine Sand(%):	0
Horizon:	Bt	Total Sand(%):	20
Depth(cm):	38-68	Total Silt(%):	32
pH in Calc Chloride:	5	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.216	Organic Carbon(%):	0.4
Electrical Conductivity (dS/m):	0		
Layer No:	6	Very Fine Sand(%):	0
Horizon:	Ck	Total Sand(%):	21
Depth(cm):	68-100	Total Silt(%):	39
pH in Calc Chloride:	5	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.215	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005031406

Soil Information

Component

Component ID:	OND00503140601	Components(%):	100
Soil Name ID:	ONOID~~~~~A	Slope Steepness(%):	0.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	No significant limitations in use for Crops
First CLI Limitation	
Subclass:	
Second CLI Limitation	
Subclass:	
Drainage:	Well
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	ONEIDA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ap	Total Sand(%):	39
Depth(cm):	0-8	Total Silt(%):	34
pH in Calc Chloride:	5	Total Clay(%):	27
Saturated Hydraulic Conductivity(cm/h):	0.609	Organic Carbon(%):	2.7
Electrical Conductivity (dS/m):	0		

Soil Information

Layer No:	2	Very Fine Sand(%):	0
Horizon:	Ae	Total Sand(%):	30
Depth(cm):	8-15	Total Silt(%):	44
pH in Calc Chloride:	5	Total Clay(%):	26
Saturated Hydraulic Conductivity(cm/h):	0.348	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ae	Total Sand(%):	30
Depth(cm):	15-23	Total Silt(%):	42
pH in Calc Chloride:	5	Total Clay(%):	28
Saturated Hydraulic Conductivity(cm/h):	0.336	Organic Carbon(%):	0.2
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Bt	Total Sand(%):	22
Depth(cm):	23-38	Total Silt(%):	32
pH in Calc Chloride:	5	Total Clay(%):	46
Saturated Hydraulic Conductivity(cm/h):	0.221	Organic Carbon(%):	0.2
Electrical Conductivity (dS/m):	0		
Layer No:	5	Very Fine Sand(%):	0
Horizon:	Bt	Total Sand(%):	20
Depth(cm):	38-68	Total Silt(%):	32
pH in Calc Chloride:	5	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.216	Organic Carbon(%):	0.4
Electrical Conductivity (dS/m):	0		
Layer No:	6	Very Fine Sand(%):	0
Horizon:	Ck	Total Sand(%):	21
Depth(cm):	68-100	Total Silt(%):	39
pH in Calc Chloride:	5	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.215	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005031396

Component

Component ID:	OND00503139601	Components(%):	100
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Soil Information

Soil Name ID:	ONCGU~~~~~A	Slope Steepness(%):	1.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Slightly stony		

Component Rating

Field Crops Capability:	No significant limitations in use for Crops
First CLI Limitation Subclass:	
Second CLI Limitation Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	clay loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	CHINGUACOUSY
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	11
Horizon:	Ap	Total Sand(%):	21
Depth(cm):	0-27	Total Silt(%):	50
pH in Calc Chloride:	7.1	Total Clay(%):	29
Saturated Hydraulic Conductivity(cm/h):	0.368	Organic Carbon(%):	1.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	8
Horizon:	Btj	Total Sand(%):	21
Depth(cm):	27-40	Total Silt(%):	43
pH in Calc Chloride:	7.2	Total Clay(%):	36

Soil Information

Saturated Hydraulic Conductivity(cm/h):	0.228	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	7
Horizon:	Ckgj	Total Sand(%):	20
Depth(cm):	40-100	Total Silt(%):	49
pH in Calc Chloride:	7.7	Total Clay(%):	31
Saturated Hydraulic Conductivity(cm/h):	0.159	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005031424

Component

Component ID:	OND00503142401	Components(%):	100
Soil Name ID:	ONCGU~~~~~A	Slope Steepness(%):	1.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Moderately stony		

Component Rating

Field Crops Capability:	No significant limitations in use for Crops
First CLI Limitation	
Subclass:	
Second CLI Limitation	
Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	clay loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	CHINGUACOUSY
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable

Soil Information

Parent Material Chemical Property 1,2,3: Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	11
Horizon:	Ap	Total Sand(%):	21
Depth(cm):	0-27	Total Silt(%):	50
pH in Calc Chloride:	7.1	Total Clay(%):	29
Saturated Hydraulic Conductivity(cm/h):	0.368	Organic Carbon(%):	1.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	8
Horizon:	Btgj	Total Sand(%):	21
Depth(cm):	27-40	Total Silt(%):	43
pH in Calc Chloride:	7.2	Total Clay(%):	36
Saturated Hydraulic Conductivity(cm/h):	0.228	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	7
Horizon:	Ckgj	Total Sand(%):	20
Depth(cm):	40-100	Total Silt(%):	49
pH in Calc Chloride:	7.7	Total Clay(%):	31
Saturated Hydraulic Conductivity(cm/h):	0.159	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005032619

Component

Component ID:	OND00503261901	Components(%):	100
Soil Name ID:	ONCGU-----A	Slope Steepness(%):	1.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability: No significant limitations in use for Crops

First CLI Limitation

Subclass:

Second CLI Limitation

Subclass:

Soil Information

Drainage:	Imperfectly
Soil Texture of A Horizon:	clay loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	CHINGUACOUSY
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	11
Horizon:	Ap	Total Sand(%):	21
Depth(cm):	0-27	Total Silt(%):	50
pH in Calc Chloride:	7.1	Total Clay(%):	29
Saturated Hydraulic Conductivity(cm/h):	0.368	Organic Carbon(%):	1.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	8
Horizon:	Btgj	Total Sand(%):	21
Depth(cm):	27-40	Total Silt(%):	43
pH in Calc Chloride:	7.2	Total Clay(%):	36
Saturated Hydraulic Conductivity(cm/h):	0.228	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	7
Horizon:	Ckgj	Total Sand(%):	20
Depth(cm):	40-100	Total Silt(%):	49
pH in Calc Chloride:	7.7	Total Clay(%):	31
Saturated Hydraulic Conductivity(cm/h):	0.159	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Soil Information

Polygon ID: OND005031448

Component

Component ID:	OND00503144801	Components(%):	100
Soil Name ID:	ONJDD~~~~~A	Slope Steepness(%):	1.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Slightly stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	clay loam
Hydrological Soil Groups:	Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material.

Soil Name

Soil Name:	JEDDO
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	7
Horizon:	Ap	Total Sand(%):	17
Depth(cm):	0-13	Total Silt(%):	49
pH in Calc Chloride:	7.1	Total Clay(%):	34
Saturated Hydraulic Conductivity(cm/h):	0.385	Organic Carbon(%):	2.6

Soil Information

Electrical Conductivity (dS/m):	0	Very Fine Sand(%):	4
Layer No:	2	Total Sand(%):	12
Horizon:	Bg	Total Silt(%):	42
Depth(cm):	13-24	Total Clay(%):	46
pH in Calc Chloride:	6.3	Organic Carbon(%):	0.5
Saturated Hydraulic Conductivity(cm/h):	0.207		
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	4
Horizon:	Bg	Total Sand(%):	12
Depth(cm):	24-49	Total Silt(%):	43
pH in Calc Chloride:	6.4	Total Clay(%):	45
Saturated Hydraulic Conductivity(cm/h):	0.209	Organic Carbon(%):	0.3
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	4
Horizon:	Ckg	Total Sand(%):	11
Depth(cm):	49-100	Total Silt(%):	50
pH in Calc Chloride:	7.6	Total Clay(%):	39
Saturated Hydraulic Conductivity(cm/h):	0.141	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005031447

Component

Component ID:	OND00503144701	Components(%):	100
Soil Name ID:	ONJDD~~~~~A	Slope Steepness(%):	1.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Slightly stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	clay loam

Soil Information

Hydrological Soil Groups: Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material.

Soil Name

Soil Name: JEDDO
Kind of Surface Material: Mineral
Soil Drainage Class: Poorly drained
Water Table Charateristics: Unspecified period
Layer that Restricts Root Growth: No root restricting layer
Type of Root Restricting Layer: n/a
Parent Material 1, 2, 3: Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3: Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3: Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	7
Horizon:	Ap	Total Sand(%):	17
Depth(cm):	0-13	Total Silt(%):	49
pH in Calc Chloride:	7.1	Total Clay(%):	34
Saturated Hydraulic Conductivity(cm/h):	0.385	Organic Carbon(%):	2.6
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	4
Horizon:	Bg	Total Sand(%):	12
Depth(cm):	13-24	Total Silt(%):	42
pH in Calc Chloride:	6.3	Total Clay(%):	46
Saturated Hydraulic Conductivity(cm/h):	0.207	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	4
Horizon:	Bg	Total Sand(%):	12
Depth(cm):	24-49	Total Silt(%):	43
pH in Calc Chloride:	6.4	Total Clay(%):	45
Saturated Hydraulic Conductivity(cm/h):	0.209	Organic Carbon(%):	0.3
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	4

Soil Information

Horizon:	Ckg	Total Sand(%):	11
Depth(cm):	49-100	Total Silt(%):	50
pH in Calc Chloride:	7.6	Total Clay(%):	39
Saturated Hydraulic Conductivity(cm/h):	0.141	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005031427

Component

Component ID:	OND00503142701	Components(%):	100
Soil Name ID:	ONJDD~~~~~A	Slope Steepness(%):	1.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Slightly stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Adverse soil structure (i.e. Depth of rooting zone is restricted)
Second CLI Limitation Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	clay loam
Hydrological Soil Groups:	Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material.

Soil Name

Soil Name:	JEDDO
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Information

Soil Layer

Layer No:	1	Very Fine Sand(%):	7
Horizon:	Ap	Total Sand(%):	17
Depth(cm):	0-13	Total Silt(%):	49
pH in Calc Chloride:	7.1	Total Clay(%):	34
Saturated Hydraulic Conductivity(cm/h):	0.385	Organic Carbon(%):	2.6
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	4
Horizon:	Bg	Total Sand(%):	12
Depth(cm):	13-24	Total Silt(%):	42
pH in Calc Chloride:	6.3	Total Clay(%):	46
Saturated Hydraulic Conductivity(cm/h):	0.207	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	4
Horizon:	Bg	Total Sand(%):	12
Depth(cm):	24-49	Total Silt(%):	43
pH in Calc Chloride:	6.4	Total Clay(%):	45
Saturated Hydraulic Conductivity(cm/h):	0.209	Organic Carbon(%):	0.3
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	4
Horizon:	Ckg	Total Sand(%):	11
Depth(cm):	49-100	Total Silt(%):	50
pH in Calc Chloride:	7.6	Total Clay(%):	39
Saturated Hydraulic Conductivity(cm/h):	0.141	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005032621

Component

Component ID:	OND00503262101	Components(%):	100
Soil Name ID:	ONCGU~~~~~A	Slope Steepness(%):	1.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Slightly stony		

Component Rating

Soil Information

Field Crops Capability:	No significant limitations in use for Crops
First CLI Limitation	
Subclass:	
Second CLI Limitation	
Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	clay loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	CHINGUACOUSY
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	11
Horizon:	Ap	Total Sand(%):	21
Depth(cm):	0-27	Total Silt(%):	50
pH in Calc Chloride:	7.1	Total Clay(%):	29
Saturated Hydraulic Conductivity(cm/h):	0.368	Organic Carbon(%):	1.9
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	8
Horizon:	Btgj	Total Sand(%):	21
Depth(cm):	27-40	Total Silt(%):	43
pH in Calc Chloride:	7.2	Total Clay(%):	36
Saturated Hydraulic Conductivity(cm/h):	0.228	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	7
Horizon:	Ckgj	Total Sand(%):	20
Depth(cm):	40-100	Total Silt(%):	49

Soil Information

pH in Calc Chloride:	7.7	Total Clay(%):	31
Saturated Hydraulic Conductivity(cm/h):	0.159	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005031500

Component

Component ID:	OND00503150001	Components(%):	100
Soil Name ID:	ONZUN~~~~~N	Slope Steepness(%):	Unknown or Not applicable
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	No capability for agriculture.
First CLI Limitation Subclass:	Subject to occasional flooding (Inundation) from adjacent streams or waterbodies
Second CLI Limitation Subclass:	
Drainage:	Not Applicable
Soil Texture of A Horizon:	
Hydrological Soil Groups:	

Soil Name

Soil Name:	UNCLASSIFIED
Kind of Surface Material:	Unclassified
Soil Drainage Class:	Not applicable
Water Table	Unspecified period
Charateristics:	
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Not Applicable; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Not Applicable; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Not Applicable; Not Applicable; Not Applicable

Polygon ID: OND005031482

Component

Soil Information

Component ID:	OND00503148201	Components(%):	100
Soil Name ID:	ONOID~~~~~A	Slope Steepness(%):	7
Component No:	1	Slope Length(m):	-9
Surface Stoniness Class:	Slightly stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Presence of adverse Topography
Second CLI Limitation Subclass:	
Drainage:	Well
Soil Texture of A Horizon:	clay loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	ONEIDA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Moderately Fine; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	Very Fine Sand(%):	0
Horizon:	Ap	Total Sand(%):	39
Depth(cm):	0-8	Total Silt(%):	34
pH in Calc Chloride:	5	Total Clay(%):	27
Saturated Hydraulic Conductivity(cm/h):	0.609	Organic Carbon(%):	2.7
Electrical Conductivity (dS/m):	0		
Layer No:	2	Very Fine Sand(%):	0
Horizon:	Ae	Total Sand(%):	30

Soil Information

Depth(cm):	8-15	Total Silt(%):	44
pH in Calc Chloride:	5	Total Clay(%):	26
Saturated Hydraulic Conductivity(cm/h):	0.348	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		
Layer No:	3	Very Fine Sand(%):	0
Horizon:	Ae	Total Sand(%):	30
Depth(cm):	15-23	Total Silt(%):	42
pH in Calc Chloride:	5	Total Clay(%):	28
Saturated Hydraulic Conductivity(cm/h):	0.336	Organic Carbon(%):	0.2
Electrical Conductivity (dS/m):	0		
Layer No:	4	Very Fine Sand(%):	0
Horizon:	Bt	Total Sand(%):	22
Depth(cm):	23-38	Total Silt(%):	32
pH in Calc Chloride:	5	Total Clay(%):	46
Saturated Hydraulic Conductivity(cm/h):	0.221	Organic Carbon(%):	0.2
Electrical Conductivity (dS/m):	0		
Layer No:	5	Very Fine Sand(%):	0
Horizon:	Bt	Total Sand(%):	20
Depth(cm):	38-68	Total Silt(%):	32
pH in Calc Chloride:	5	Total Clay(%):	48
Saturated Hydraulic Conductivity(cm/h):	0.216	Organic Carbon(%):	0.4
Electrical Conductivity (dS/m):	0		
Layer No:	6	Very Fine Sand(%):	0
Horizon:	Ck	Total Sand(%):	21
Depth(cm):	68-100	Total Silt(%):	39
pH in Calc Chloride:	5	Total Clay(%):	40
Saturated Hydraulic Conductivity(cm/h):	0.215	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Polygon ID: OND005032634

Component

Component ID:	OND00503263401	Components(%):	100
Soil Name ID:	ONCGU~~~~~A	Slope Steepness(%):	0.2
Component No:	1	Slope Length(m):	-9
Surface Stoniness	Nonstony		

Soil Information

Class:

Component Rating

Field Crops Capability: No significant limitations in use for Crops

First CLI Limitation

Subclass:

Second CLI Limitation

Subclass:

Drainage: Imperfectly

Soil Texture of A Horizon: clay loam

Hydrological Soil Groups: Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name: CHINGUACOUSY

Kind of Surface Material: Mineral

Soil Drainage Class: Imperfectly drained

Water Table Unspecified period

Charateristics:

Layer that Restricts Root Growth: No root restricting layer

Type of Root Restricting Layer: n/a

Parent Material 1, 2, 3: Moderately Fine; Not Applicable; Not Applicable

Mode of Deposition 1,2,3: Till (Morainal); Not Applicable; Not Applicable

Parent Material Chemical Property 1,2,3: Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

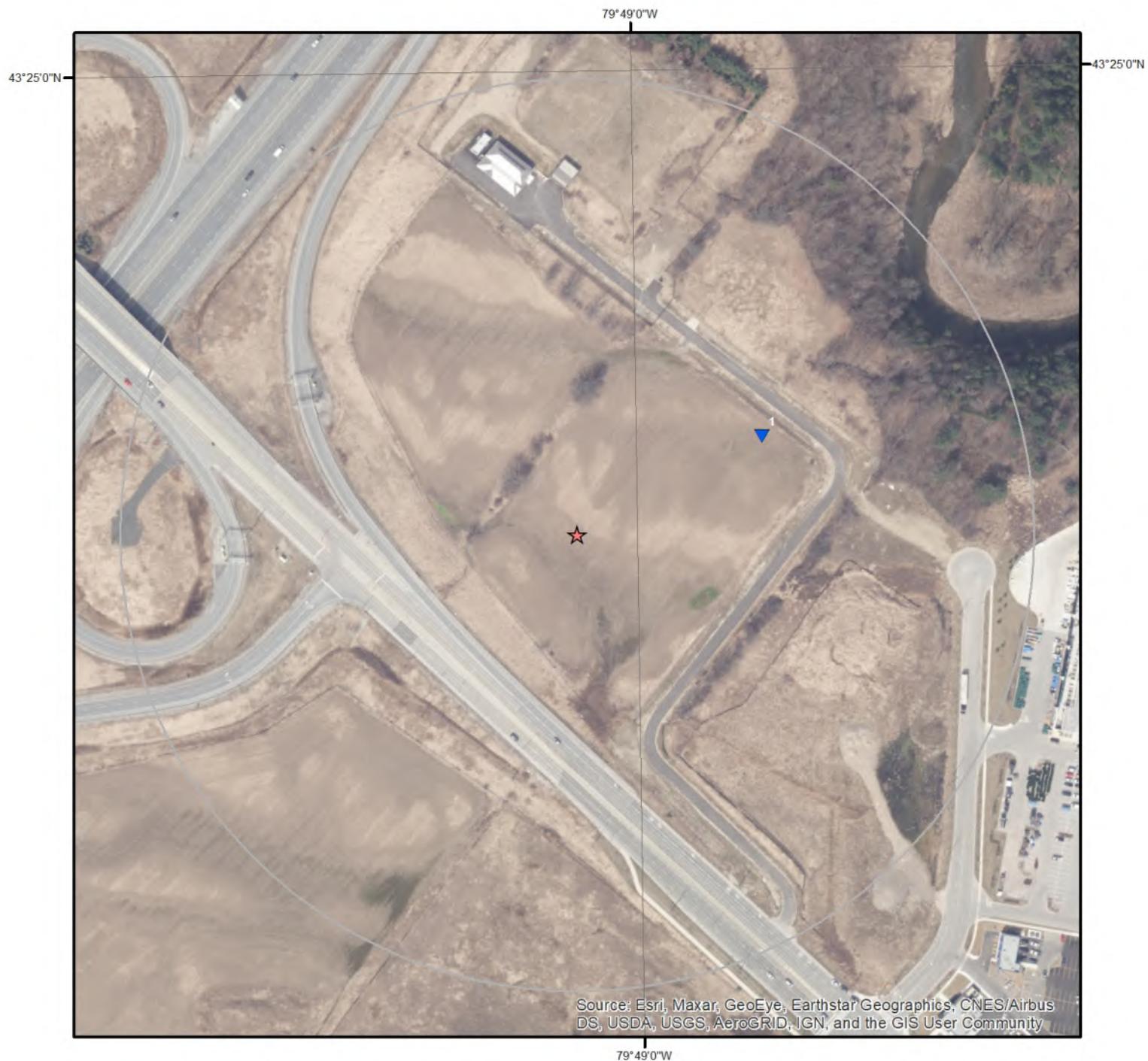
Layer No:	1	Very Fine Sand(%):	11
Horizon:	Ap	Total Sand(%):	21
Depth(cm):	0-27	Total Silt(%):	50
pH in Calc Chloride:	7.1	Total Clay(%):	29
Saturated Hydraulic Conductivity(cm/h):	0.368	Organic Carbon(%):	1.9
Electrical Conductivity (dS/m):	0		

Layer No:	2	Very Fine Sand(%):	8
Horizon:	Btj	Total Sand(%):	21
Depth(cm):	27-40	Total Silt(%):	43
pH in Calc Chloride:	7.2	Total Clay(%):	36
Saturated Hydraulic Conductivity(cm/h):	0.228	Organic Carbon(%):	0.5
Electrical Conductivity (dS/m):	0		

Soil Information

Layer No:	3	Very Fine Sand(%):	7
Horizon:	Ckgj	Total Sand(%):	20
Depth(cm):	40-100	Total Silt(%):	49
pH in Calc Chloride:	7.7	Total Clay(%):	31
Saturated Hydraulic Conductivity(cm/h):	0.159	Organic Carbon(%):	0
Electrical Conductivity (dS/m):	0		

Wells and Additional Sources



Wells & Additional Sources

A horizontal scale bar with a black segment on the left and a white segment on the right. The text "KM" is at the end of the bar. Below the bar are numerical labels: 0, 0.05, 0.1, and 0.2.



- | | | | |
|--------------------------|------------------|--------------------------|------------------------------|
| | Project Property | <input type="checkbox"/> | Buffer |
| <input type="checkbox"/> | Buffer | | Sites with Higher Elevation |
| <input type="checkbox"/> | Buffer | | Sites with Same Elevation |
| <input type="checkbox"/> | Buffer | | Sites with Lower Elevation |
| <input type="checkbox"/> | Buffer | | Sites with Unknown Elevation |

ERIS

Wells and Additional Sources Summary

Federal Sources

National Energy Board Wells

Map Key	ID	Distance (m)	Direction
No records found			

Provincial Sources

Ontario Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
No records found			

Provincial Groundwater Monitoring Network

Map Key	ID	Distance (m)	Direction
No records found			

Water Well Information System

Map Key	Well ID	Distance (m)	Direction
1	2809199	114.58	ENE

Private Sources

Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
No records found			

Wells and Additional Sources Detail Report

Water Well Information System

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
1	ENE	0.11	114.58	161.83	WWIS

Well ID:	2809199	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:		Date Received:	7/7/2000
Sec. Water Use:		Selected Flag:	TRUE
Final Well Status:	Abandoned-Other	Abandonment Rec:	
Water Type:		Contractor:	1663
Casing Material:		Form Version:	1
Audit No:	213480	Owner:	
Tag:		Street Name:	
Construction Method:		County:	HALTON
Elevation (m):		Municipality:	BURLINGTON CITY
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	005
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	DS N
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809199.pdf

Well Completed Date:	2000/03/10
Year Completed:	2000
Depth (m):	
Latitude:	43.4148520623484
Longitude:	-79.8158416559482
Path:	280\2809199.pdf

Bore Hole ID:	10155456	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	595867.30
Code OB Desc:		North83:	4807566.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	10-Mar-2000 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	lot

Wells and Additional Sources Detail Report

Elevrc Desc:

Location Source Date:

Improvement Location

Source:

Improvement Location

Method:

Source Revision

Comment:

Supplier Comment:

Method Construction ID: 962809199

Method Construction 0

Code:

Method Construction: Not Known

Other Method

Construction:

Pipe ID: 10704026

Casing No: 1

Comment:

Alt Name:

Radon Information

Detailed radon information for the project property is provided below.

Radon Zone Information

ID: 144851 Radon Rank: MOD

Health Canada Radon Information

Health Region: 3536
Health Region Name: Halton Regional Health Unit
Province or Territory: ON
Number Homes in Survey: 102
% Below 200 Bq/m³: 95.1
% Above 200 Bq/m³: 4.9
200 to 600 Bq/m³: 4.9
% Above 600 Bq/m³: 0

Area of Natural and Scientific Interest Information



Area of Natural & Scientific Interest (ANSI)

ANSI Area

E R I S
ENVIRONMENTAL RISK INFORMATION SERVICES

Source: ANSI (ANSI) March 2017, Ontario Ministry of Natural Resources

Area of Natural and Scientific Interest Information

Detailed ANSI information is provided below.

ANSI ID: 1200808576

ANSI Name:	Zimmerman Valley
Type:	ANSI, Life Science
Significance:	Regional
Area (sqm):	623184.816
Comments:	This mapping represents external boundaries only. Reference should be made to the individual ANSI file for the ANSI inventory (planning section MNR Aurora). Less accurate mapping is available on 1:50,000 white prints?. followed by NHIC'S ANSI 'description'

Appendix

Federal Sources

Bedrock Geology of Canada

BEDROCK GEOLOGY

The Geological Map of Canada is scaled at 1:5,000,000. This map is created by Geological Survey of Canada and published by Natural Resources Canada.

Health Canada Radon Information

RADON

This source is the results from the Cross-Canada Survey of Radon Concentrations in Homes, a two-year study conducted by Health Canada's National Radon Program. The aims of this study were to obtain an estimate of the proportion of the Canadian population living in homes with radon gas levels above the guideline of 200 Bq/m³, to identify previously unknown areas where radon gas exposure may constitute a health risk, and to build, over time, a map of indoor radon gas exposure levels across Canada.

National Energy Board Wells

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.

Soil Landscapes of Canada (SLC)

SLC

Major characteristics of soil and land such as surface form, slope, water table depth, permafrost and lakes.

Surficial Geology of Canada

SURFICIAL GEOLOGY

This map contains information on surficial materials and associated landforms left by the retreat of the last glaciers and non glacial environments. It is based on compilation of existing maps. This data was authored by the Geological Survey of Canada and published by Natural Resources Canada.

Toporama

TOPORAMA

Toporama covers the entire area of Canada's landmass and provides topographic, geo-referenced, and symbolic information in a raster format at 1:50,000 scale. This is a digital topographic reference product made available by Natural Resources Canada (NRCan).

Provincial Sources

Area of Natural and Scientific Interest

ANSI

Areas of Natural and Scientific Interest (ANSIs) are lands and waters with features that are important for natural heritage protection, appreciation, scientific study or education. This dataset is made available by Ontario Ministry of Natural Resources.

Bedrock Geology of Ontario

BEDROCK GEOLOGY

The Bedrock Geology layer shows the distribution of bedrock units underlying Ontario at a 1:250,000 scale. The geology of the province consists of Precambrian rocks of the Canadian Shield and Phanerozoic sedimentary rocks that overlie the Canadian Shield. This layer was compiled by the Precambrian Geoscience Section of Ontario Geological Survey.

Ontario Detailed Soil Survey (DSS3)

SOIL SURVEY

Soil surveys have been published for most of the agricultural areas, and many surrounding areas, across Canada. Data from these surveys comprise the most detailed soil inventory information in the National Soil DataBase. Data is made available by Agriculture and Agri-Food Canada

Ontario Oil and Gas Wells

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 provided for each well record.

Provincial Groundwater Monitoring Network

GROUNDWATER

Appendix

Groundwater level and chemistry data from monitoring wells that are part of the Provincial Groundwater Monitoring Network (PGMN) Program. Precipitation data (rain) is also available for some sites. This data is provided by Ontario Ministry of Environment and Climate Change.

Surficial Geology of Ontario

SURFICIAL GEOLOGY

The Surficial Geology dataset contains a layer depicting the distribution and characteristics of surficial deposits across southern Ontario. This data set is authored by the Ontario Geological Survey.

Topographic Map of Ontario

TOPOGRAPHIC MAP

The Ontario Basic Mapping program provides a relationship between topographic information and the provincial geographical referencing grid, thereby forming the foundation for a comprehensive provincial geographical referencing system. This data is made available by the Ontario Ministry of Natural Resources and Forestry. This is ERIS self-designed topographic map template at 1:10,000.

Water Well Information System

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.

Wetlands of Ontario

WETLAND

The Ministry of Natural Resources and Forestry has made available a database of wetlands in Ontario. Certain attributes identify wetlands that have been evaluated with the Ontario Wetland Evaluation System (OWES), and of those which ones have been designated as Provincially Significant Wetlands (PSW).

Private Sources

Oil and Gas Wells

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.

Radon Zone Information

RADON

The Radon Potential Map is developed by Radon Environmental Management Corporation. Its objective was to illustrate the relative variation of radon risk across the country, and in 2011 it published its first geologic Radon Potential Map of Canada.

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79°50'W

79°49'30"W

79°49'W

79°48'30"W

79°48'W

79°47'30"W

43°26'N

43°25'30"N

43°25'N

43°24'30"N

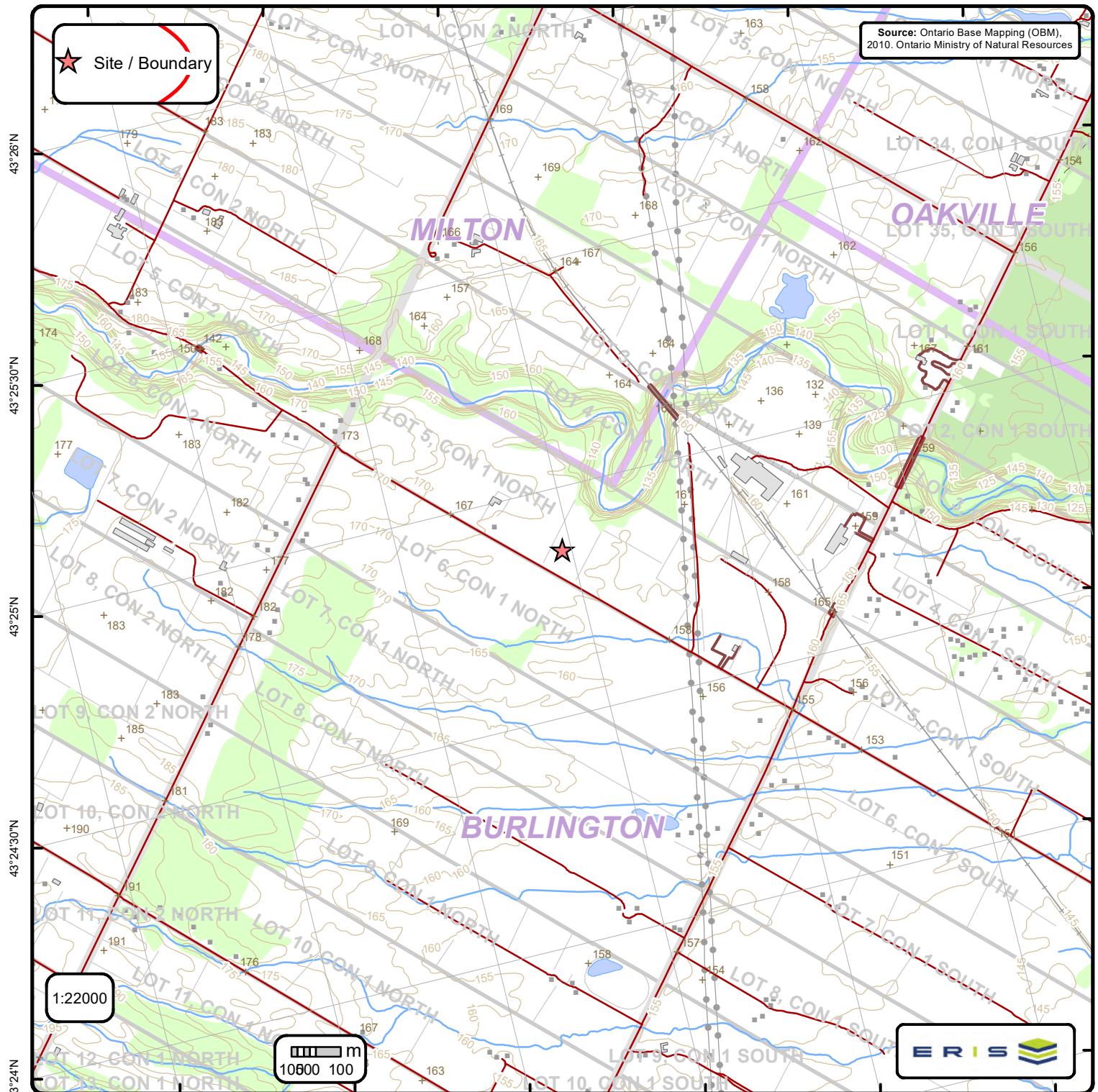
43°24'N

43°25'30"N

43°24'30"N

43°24'N

43°23'30"N



Ontario Base Mapping (OBM) Data

Order No. 22041300310

+ 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	