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Volume 2 – Supporting Technical Studies

Appendix 2A

Natural Environment Reports

NATURAL HERITAGE EXISTING CONDITIONS REPORT
BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
BOLTON, ONTARIO

Prepared for: **GEI CONSULTANTS CANADA LTD.**

Prepared by: **MONTROSE ENVIRONMENTAL SOLUTIONS CANADA INC.**

Version 1.0
May 2025
Guelph, Ontario

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NATURAL HERITAGE EXISTING CONDITIONS REPORT
BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
BOLTON, ONTARIO

Prepared for GEI Consultants Canada Ltd., May 2025

Desta Frey, M.Sc., P.Biol.
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reviewed by
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Senior Ecologist

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VERSION CONTROL

Version	Date	Issue Type	Filename	Description
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V1.0	12-May-2025	Final	36069-536 Bolton EA R 2025-05-12 final V1.0.docx	Addressing comments, issued to client

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1 INTRODUCTION

In November 2020, The Region of Peel Official Plan Amendment 30 (ROPA30) for the Bolton Residential Expansion Area (BRES) was approved. The purpose of this Amendment was to establish an expansion to the Bolton Rural Service Centre, and identify Areas Assessed in the BRES. ROPA30 proposed increased growth to the Bolton settlement areas (245 ha) to accommodate short-term growth within those areas.

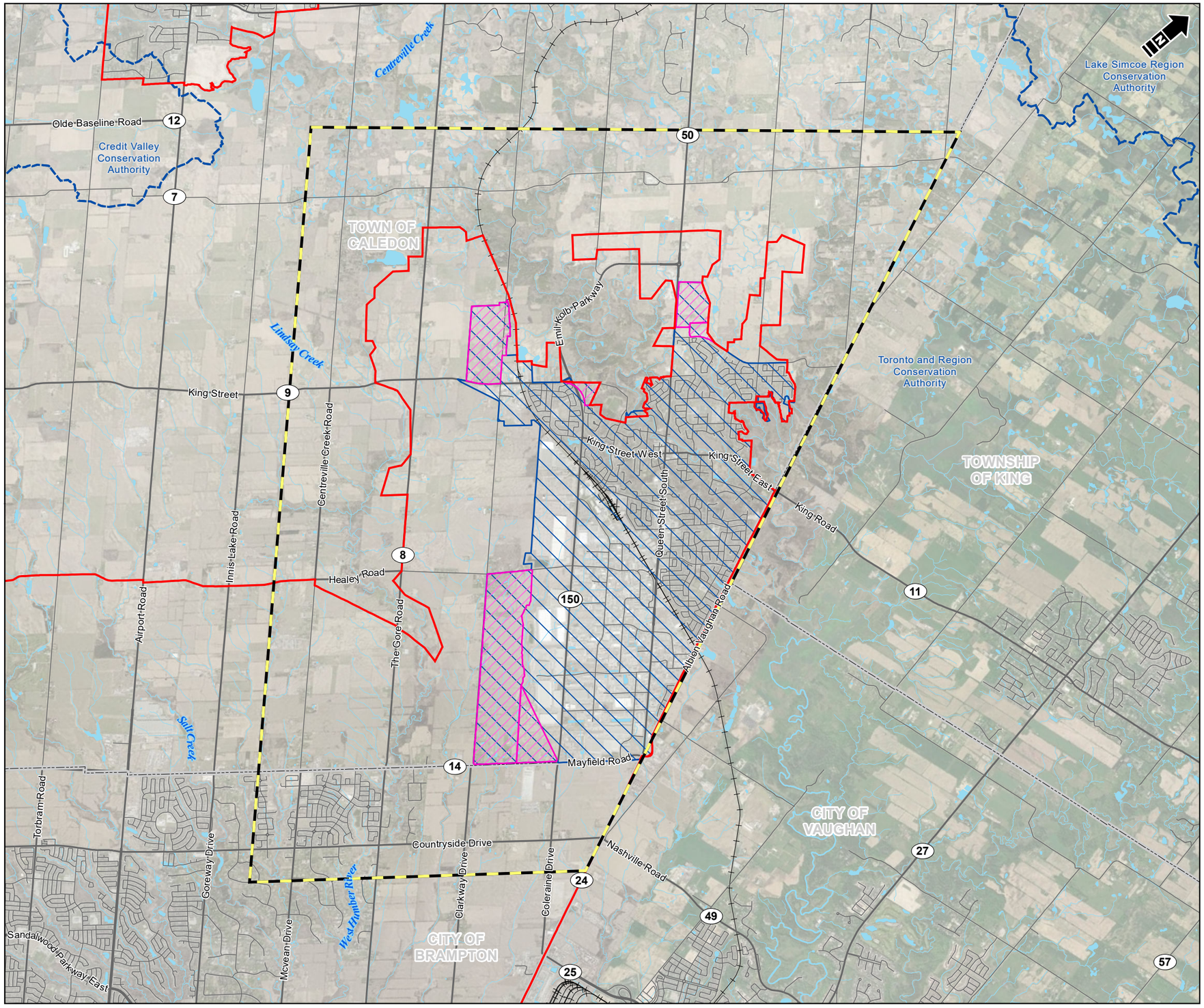
Although previous studies have made recommendations for water and wastewater infrastructure in the Bolton service area, the infrastructure location, size, alignments, and timing/phasing were relatively preliminary. Additionally, there is a strong desire by the development community to develop several different areas as soon as possible; with many of these areas requiring significant investments in new infrastructure.

GEI Consultants Canada Ltd. (GEI) retained Montrose Environmental Solutions Canada Inc. (Montrose) to complete a review of the natural heritage features to support Peel Region (the Region) in its Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment (EA). The purpose of this study is to complete a comprehensive evaluation of all potential alternatives to develop the optimal water and wastewater servicing solutions to meet existing needs and growth within the Bolton study area. This report provides a high-level description of the study area and extent of natural heritage features, through a review of existing literature sources and databases, to better understand existing conditions to help guide the selection of the long list of alternatives.

1.1 Study Area

The Bolton study area is in the Town of Caledon, within Peel Region. The study area includes the Bolton Rural Service Centre and the Regional 2051 Urban Boundary, as well as the ROPA 30 expansion areas seen in Figure 1. The study area is bound to the north by Castlederg Side Road (100 m north), Centreville Creek Road to the west, Albion-Vaughan Road and Caledon-King Town Line to the east, and Countryside Drive to the south (100 m south). The land uses include a broad range of residential, agricultural, forested, and urban land uses along with large areas of undeveloped “greenfield” lands that are currently under agricultural use. The lands are constrained by natural heritage features, which include core natural lands and linkages associated with major stream corridors.

Bolton contains an extensive natural heritage system, which can be seen in Figure 2. The north end of the study area contains the Oak Ridges Moraine and the Bolton Resource Management Tract, while the middle contains Greenbelt areas, which include protected countryside and an urban river valley. Within the study area there are seven Provincially Significant Wetlands (PSWs) and hundreds of unevaluated wetlands. Bolton is situated on the Humber River and has a unique network of stream corridors and connections that run through its landscapes.



- Study Area Boundary
- Municipal Boundary - Lower and Single Tier
- ROPA 30 Expansion Area
- Bolton Rural Service Centre
- Conservation Authority Boundary
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Regional 2051 Urban Boundary

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MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

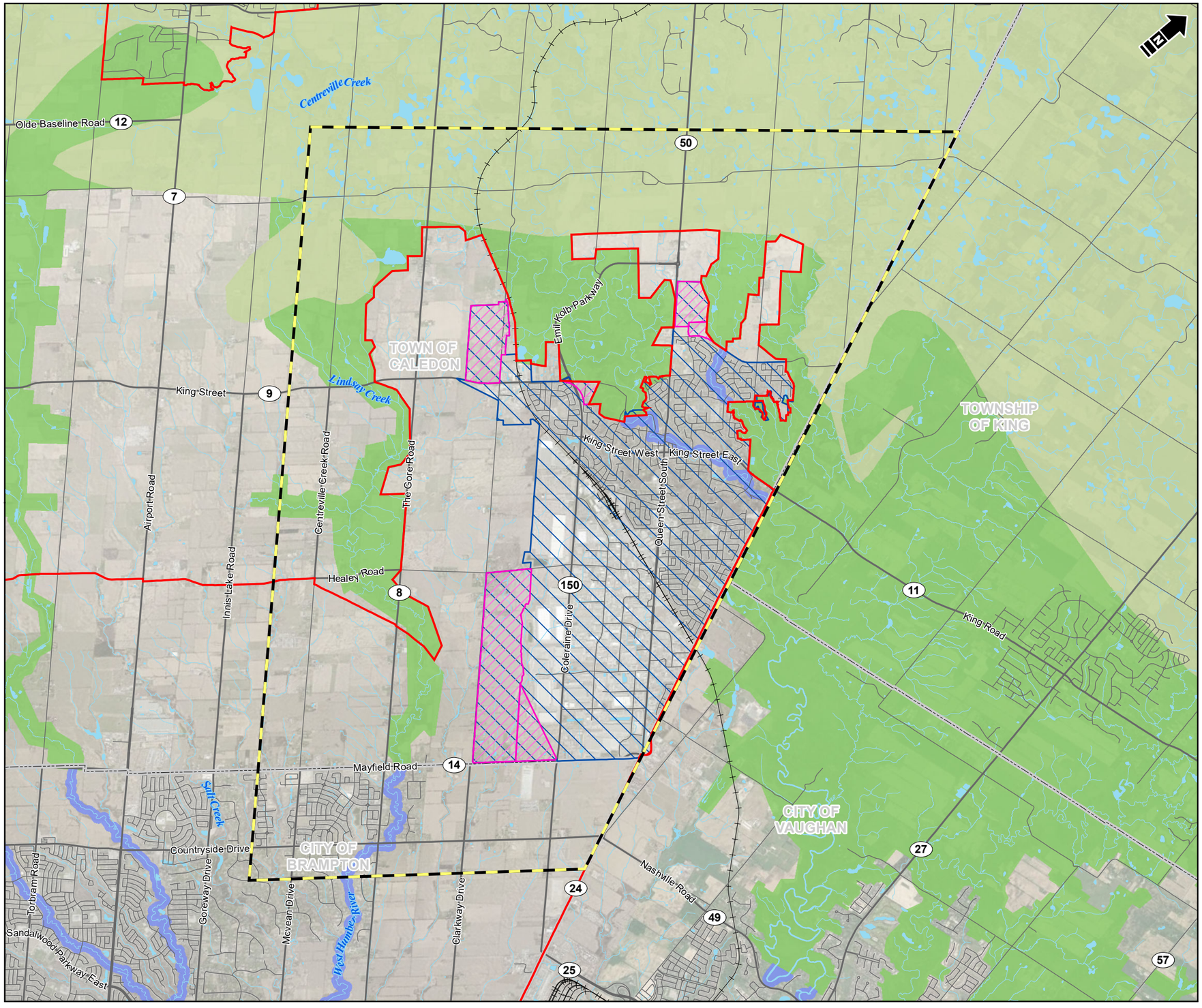
Study Area

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May 2025	36069	D. Frey	S. Geddes

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Figure 1

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- Study Area Boundary
- Municipal Boundary - Lower and Single Tier
- ROPA 30 Expansion Area
- Bolton Rural Service Centre
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Regional 2051 Urban Boundary

Greenbelt Designation

- Oak Ridges Moraine Conservation Plan
- Protected Countryside
- Urban River Valley

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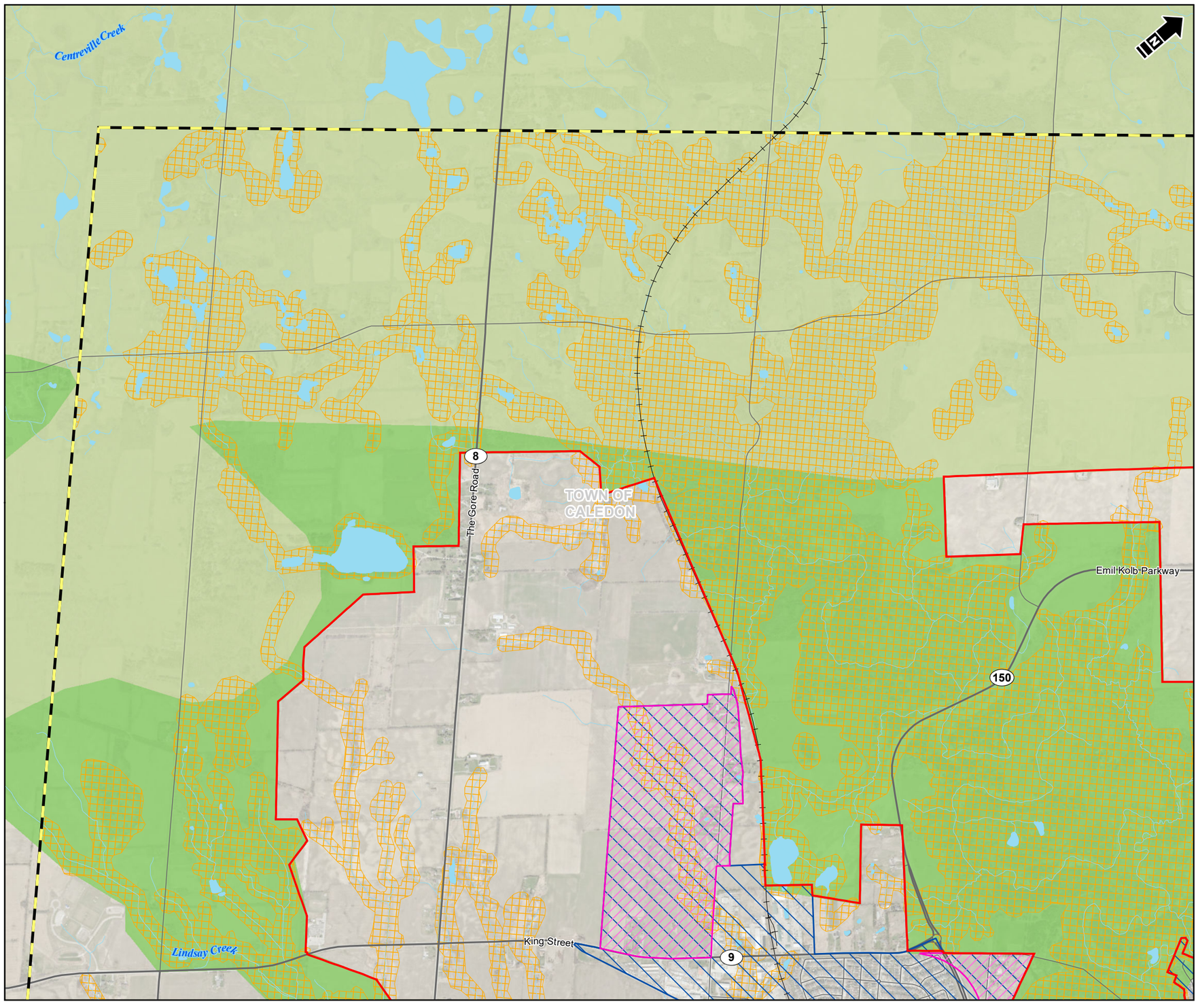
Policy Area Boundaries

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Figure 2a

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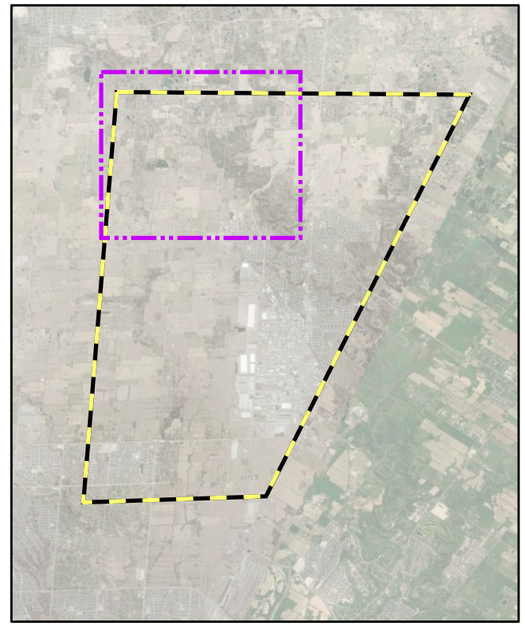


- Study Area Boundary
- Municipal Boundary - Lower and Single Tier
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- Highway
- Road
- Railway
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Greenbelt Designation

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Figure Location



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Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

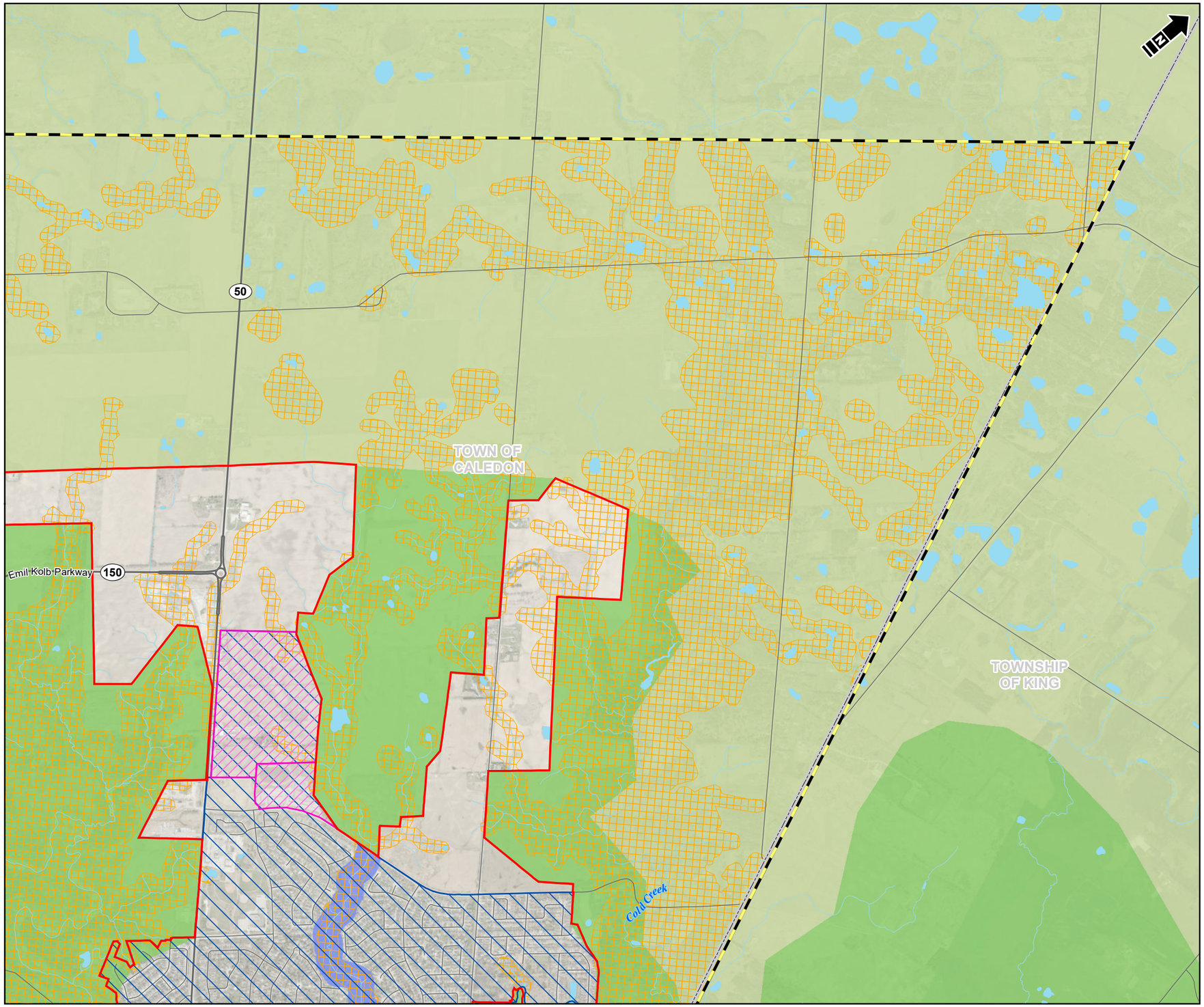
Natural Heritage Overview - Detail 1

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Figure 2b

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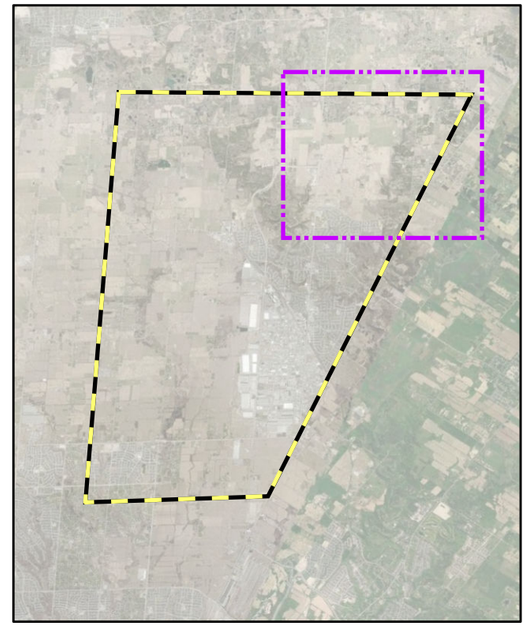


Study Area Boundary
Municipal Boundary - Lower and Single Tier
TRCA Regulation Limit
ROPA 30 Expansion Area
Bolton Rural Service Centre
Water Body
Watercourse
Highway
Road
Regional 2051 Urban Boundary

Greenbelt Designation

Oak Ridges Moraine Conservation Plan
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Urban River Valley

Figure Location



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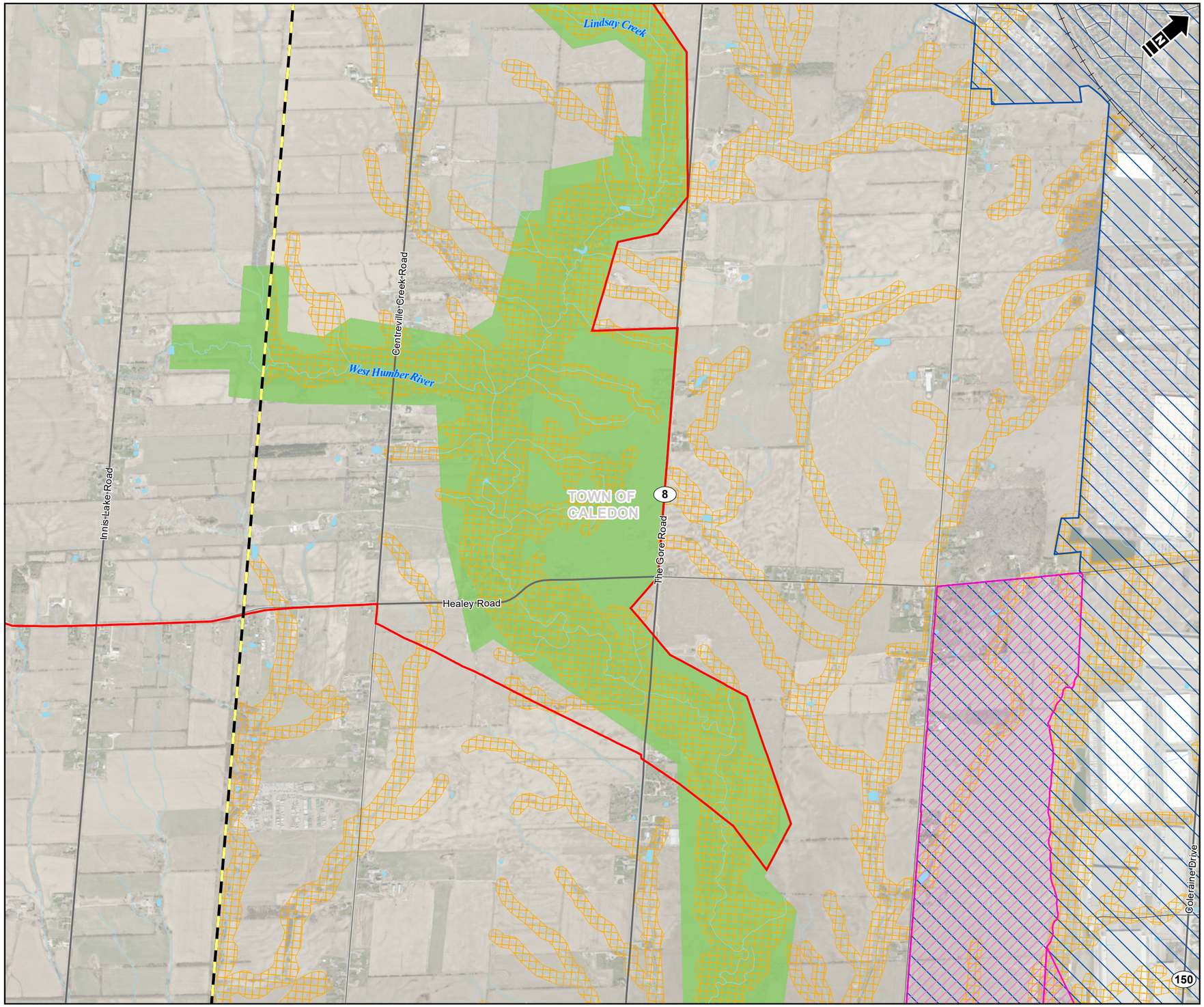
Natural Heritage Overview - Detail 2

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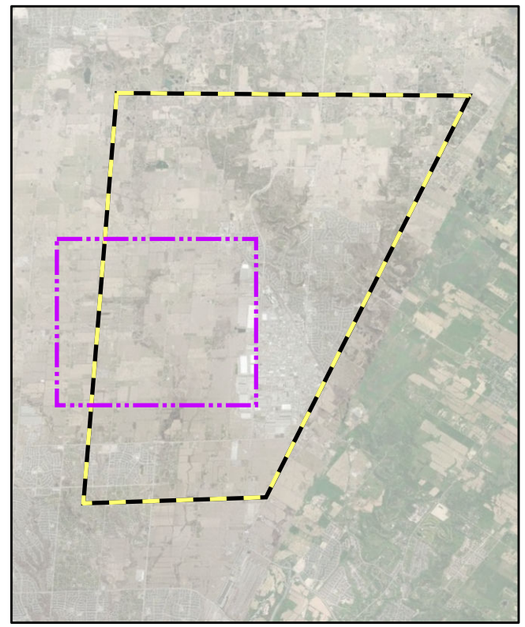


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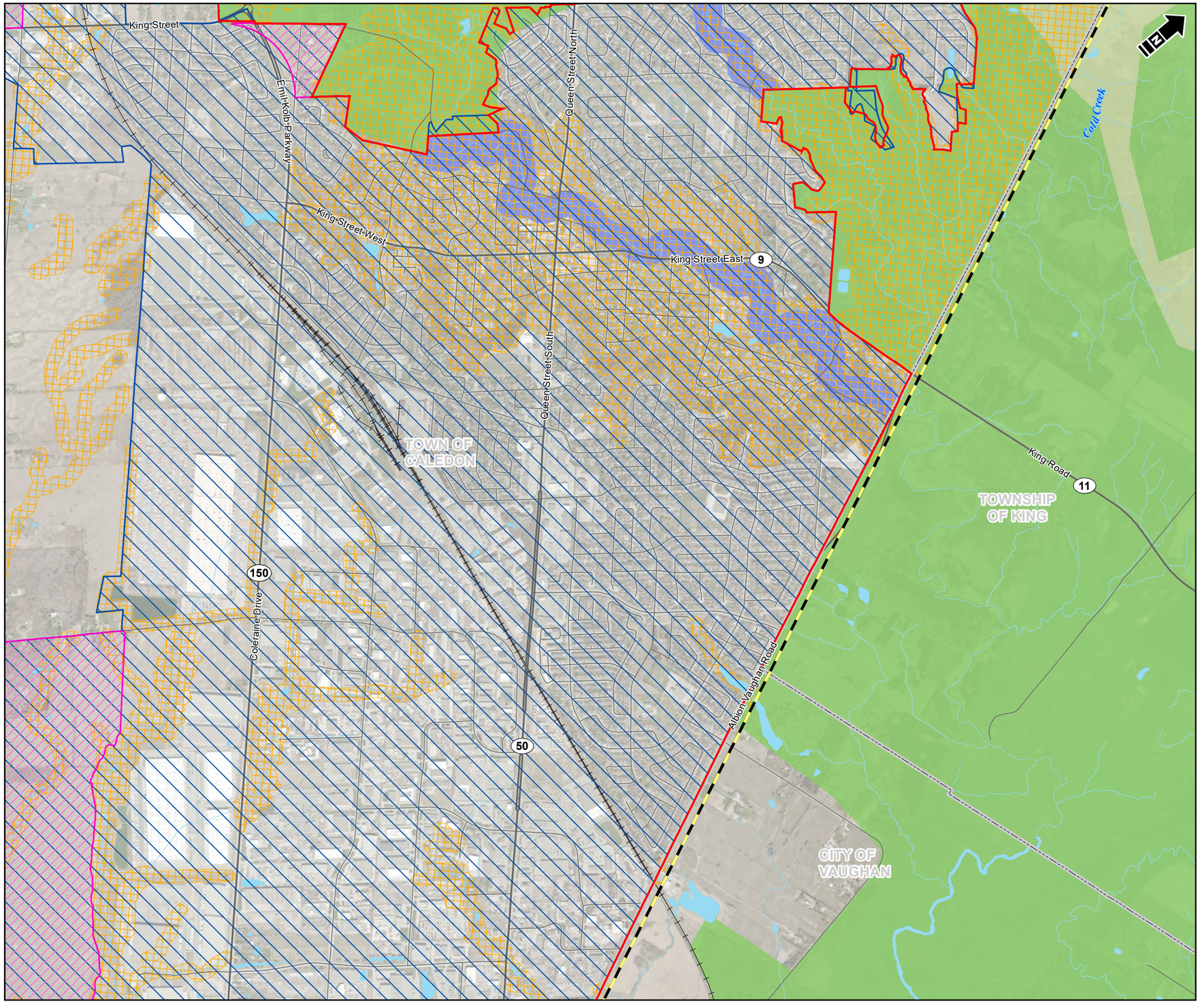
Natural Heritage Overview - Detail 3

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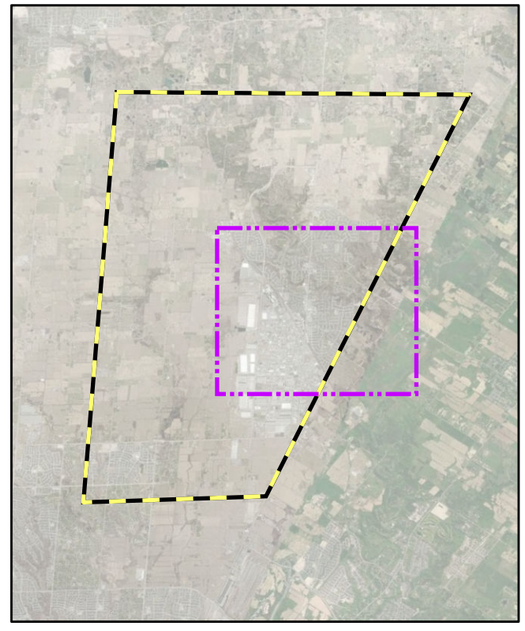


- Study Area Boundary
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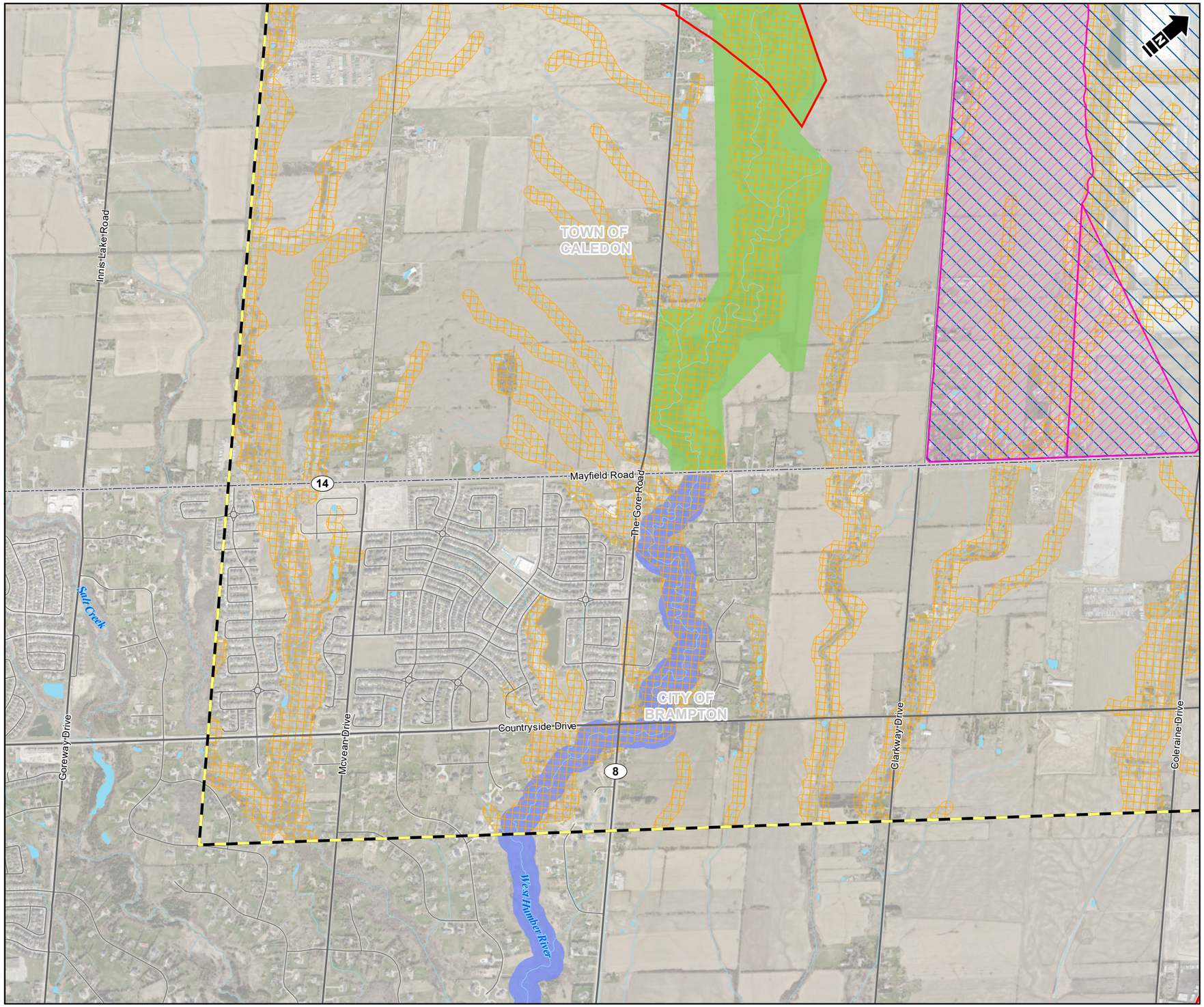
Natural Heritage Overview - Detail 4

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Figure 2e

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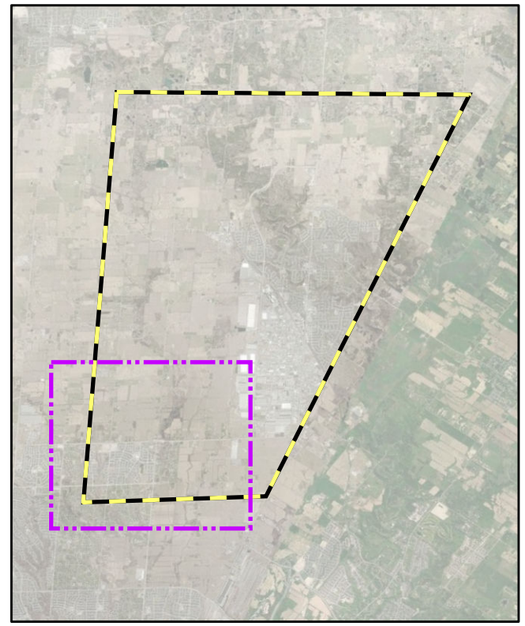


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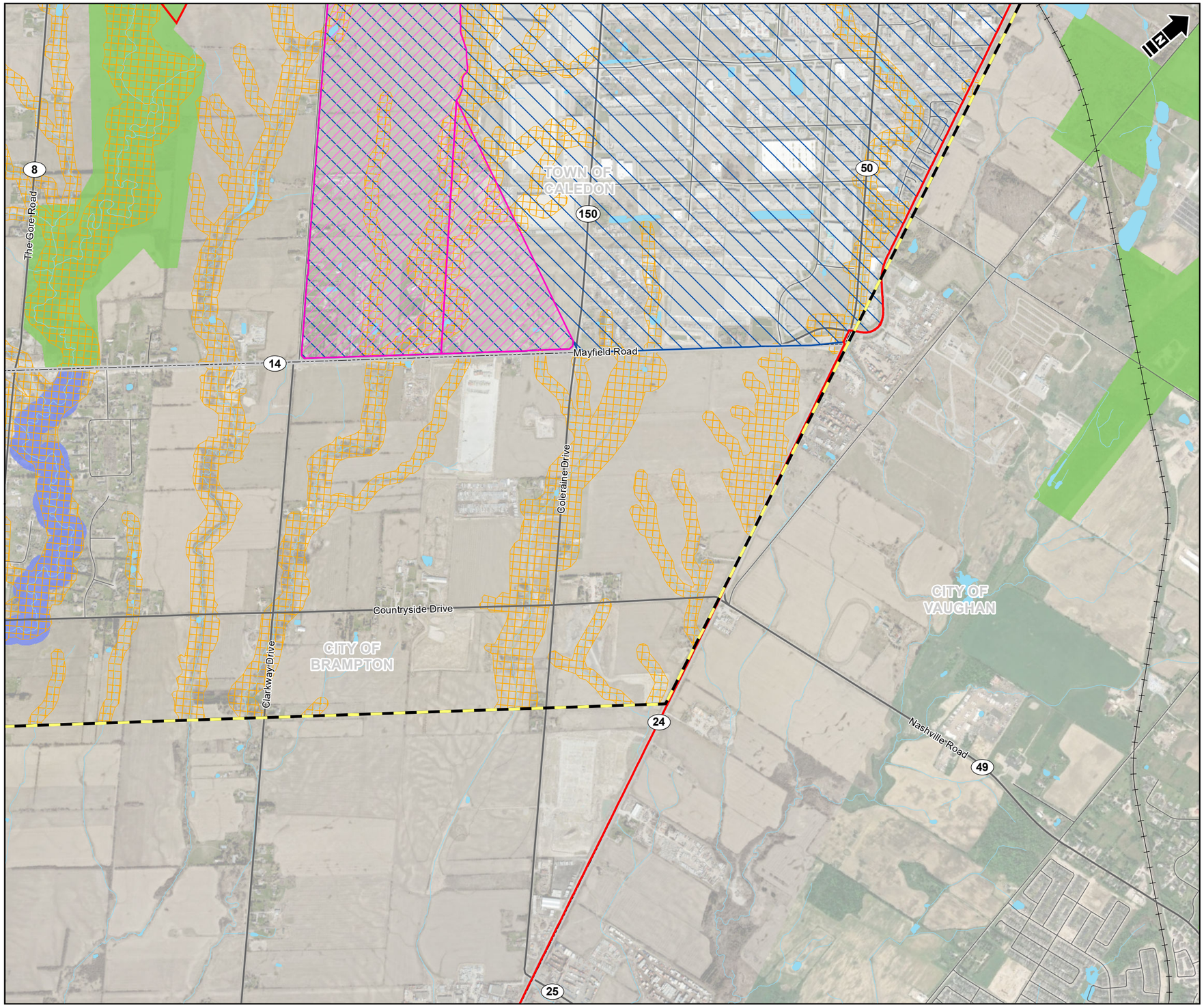
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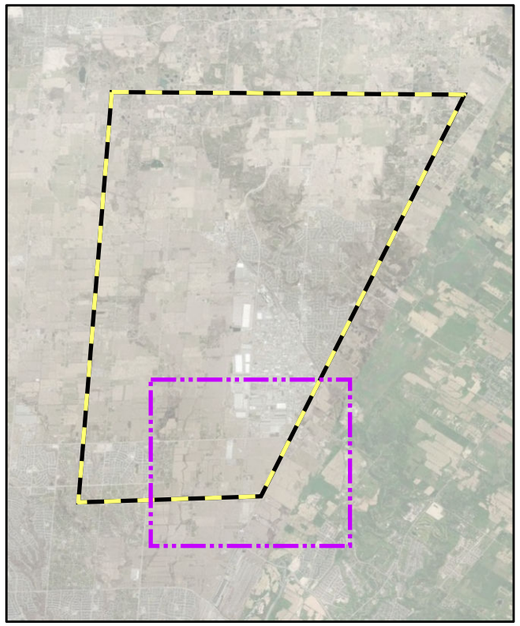


- Study Area Boundary
- Municipal Boundary - Lower and Single Tier
- TRCA Regulation Limit
- ROPA 30 Expansion Area
- Bolton Rural Service Centre
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Regional 2051 Urban Boundary

Greenbelt Designation

- Oak Ridges Moraine Conservation Plan
- Protected Countryside
- Urban River Valley

Figure Location



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Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

Natural Heritage Overview - Detail 6

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Figure 2g

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1.2 Physiography

The majority of land within the Bolton study area is characterized by Chapman and Putnam (1984) as drumlinized till plain. The landscape transitions to bevelled tilled plain to the south and kame moraine areas that comprise the Oak Ridges Moraine to the north. Lands associated with the Humber River floodplain to the east of Bolton are noted to contain pockets of sand plain and spillway.

The Greater Humber Valley within the vicinity of Bolton is a major topographic feature that exceeds 30 m of depth in some places. The watercourse has carved the valley topography into the underlying glacial till within Bolton around King Road over the past millennia.

1.3 Agency Consultation

Due to the sheer size of the study area, and the vast landscapes in which it covers, not all agency consultation has been included at this stage of the project. Once the scope has been further refined, Montrose will contact the relevant agencies to seek additional information.

1.3.1 Toronto and Region Conservation Authority

The Toronto and Region Conservation Authority (TRCA) and their Terrestrial Monitoring Inventory Group has completed extensive ecological surveys within the study area. This data is readily available to members of the public and easily accessible through their GIS Open Data portal (Conservation Ontario 2023).

1.3.2 Natural Heritage Information Centre

During our background review of data from the Natural Heritage Information Centre (NHIC), several historical records within the study area were uncovered. NHIC was contacted to receive additional information on dates and locations of these observations. Further details can be found in Section 4.7.

2 POLICY CONTEXT

Features identified within the study area require consideration of the relevant federal, provincial, and municipal planning policies applicable to the study area (Table 1).

TABLE 1 Applicable Federal, Provincial, and Municipal Policies

Acts and Regulations	Summary of Contents
Federal Acts and Regulations	
Species at Risk Act (2002)	Incorporates a number of prohibitions to protect individuals of listed threatened, endangered, or extirpated SAR, as designated by COSEWIC. Per Section 34, Section 58, and Section 61 of the SARA, these prohibitions apply to aquatic species and migratory birds protected by the MBCA on all lands, and any other listed wildlife species when on federal lands or any lands if recommended by the Minister of the Environment to the Governor in Council. **Applicability to Project:** While SARA applies to species on federal land, it also applies to SAR migratory birds under the MBCA listed on Schedule 1 where critical habitat has been identified and fish, anywhere they occur. Therefore, SARA only applies to SAR migratory

Acts and Regulations	Summary of Contents
	birds, fish, and mussels for this project. Any impacts to these species protected under SARA may require further consultation. However, should the migratory bird species also be listed under the ESA and provides equal or greater protection, the ESA take precedence.
Fisheries Act (1985, revised in 2019)	The *Fisheries Act* outlines the framework for the management and regulation of fisheries and the conservation and protection of fish and fish habitat within the fishing zones of Canada, all waters in the territorial sea of Canada, and all internal waters of Canada. The most recent revision to the *Fisheries Act* restricts activities that cause "death of fish, other than by fishing" as well as the "harmful alteration, disruption, or destruction of fish habitat" (Government of Canada 2019) and the release of substances that are known or suspected to be deleterious to fish or fish habitat. **Applicability to Project**: There are several watercourses within the study area with known fish and fish habitat. If an alignment is chosen that crosses any watercourse the *Fisheries Act* will apply to this project. A DFO request for review will be required for activities that harm, disrupt, or cause the destruction of fish habitat, as well as cause death to fish. Any activities impacting watercourses with known SAR will also require a request for review from DFO.
Migratory Birds Convention Act (1994)	General prohibitions protect migratory birds, their nests, and eggs and prohibit the deposit of harmful substances in waters and areas frequented by them. **Applicability to Project:** The MBCA applies to the entire study area. Any tree removals would need to be completed outside of the breeding bird season (April 1 to August 30) to avoid disturbing active nests of migratory birds protected under the MBCA.
Provincial Acts and Regulations	
Provincial Planning Statement, 2024	The PPS provides policy direction on provincial matters of interest related to land use planning and development. It sets the policy framework for regulating development and use of land and is issued under the authority of Section 3 of the *Planning Act*. Section 2.1 of the PPS outlines policies that provide legislative protection for the natural environment. These policies include the exclusion of development and site alteration within PSWs, habitat of endangered or threatened species, fish habitat, as well as within SWH, significant woodlands, significant valleylands, ANSIs or adjacent lands "…unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions" (MMAH 2020). The *Natural Heritage Reference Manual* was developed to provide technical guidance for implementing the natural heritage policies of the PPS. **Applicability to Project:** A number of natural heritage features are found within the study area and include, but are not limited to, significant woodlands, ANSIs, fish habitat, significant wildlife habitat, and significant habitat of endangered and threatened species.
Endangered Species Act (2007)	Provides for the conservation and protection of species in Ontario classified under the ESA. Species listed as endangered or threatened are afforded legal protection from harm and harassment under the ESA. The ESA also prohibits damage or destruction of habitat of endangered or threatened species. Habitat protection for a species can be general or subject to the specific provisions of a habitat regulation as set out in O. Reg. 832/21 under the ESA. General habitat protection is provided to all threatened and endangered species. Species-specific habitat protection is only afforded to those species for which a habitat regulation has been prepared and passed into law as a regulation of the ESA. **Applicability to Project**: The ESA applies to all SAR species within provincial lands protected under the ESA. Any impacts to these species or habitats protected under the ESA would require a permit. The study area may contain habitat for SAR species.

Acts and Regulations	Summary of Contents
Conservation Authorities Act (2006)	Empowers conservation authorities to regulate activities in natural and hazardous areas (such as streams, floodplains, wetlands, areas in and near rivers, slopes, and lake shoreline) through the Development, Interference with Wetlands, and Alterations to Shorelines and Watercourse Regulation. **Applicability to Project:** The study area is located within the jurisdiction of the TRCA (regulated under O. Reg. 41/24). Any works within the regulatory limit may require a permit.
Greenbelt Plan (2017)	Provides policies for the protection of natural heritage features by directing future urban growth and development planning within the "Golden Horseshoe" area. Lands within the Greenbelt Plan area are divided into Protected Countryside, Urban River Valleys, NEP Area, and Oak Ridges Moraine Area. These areas are provided protection, which includes (MMA 2017): • *Protects against the loss and fragmentation of the agricultural land base and supports agriculture as the predominant land use;* • *Gives permanent protection to the natural heritage and water resource systems that sustain ecological and human health and that form the environmental framework around which major urbanization in south-central Ontario will be organized;* • *Provides for a diverse range of economic and social activities associated with rural communities, agriculture, tourism, recreation and resource uses; and* • *Builds resilience to and mitigates climate change.* **Applicability to Project:** Much of the study area is designated under the *Greenbelt Plan*. The Oak Ridges Moraine covers areas to the north, the middle contains an urban river valley, and protected countryside is scattered throughout.
Oak Ridges Moraine Conservation Act (2001) and the Oak Ridges Moraine Conservation Plan	Provides policies for the protection of ecological and hydrological integrity of the Oak Ridges Moraine Area, with the goal of ensuring that the area is maintained as a continuous natural landform for present and future generations. **Applicability to Project:** The north end of the project area is within the Oak Ridges Moraine and subject to development policies under the ORMCP (O. Reg. 140/02). Relevant policies and definitions are also outlined in Section 7.10 of the *Town of Caledon Official Plan* (Town of Caledon 2018).
Municipal Acts and Regulations	
Region of Peel Official Plan (2022)	The Greenlands System, as defined by the *Region of Peel Official Plan* (Region of Peel 2022), focuses on protection of the natural environment including recognition, protection and stewardship: *The Core Areas contain ecological features, forms and/or functions that provide favourable conditions for uninterrupted natural systems and maximum biodiversity. The Region and its partners value these areas for their importance in maintaining the integrity of the Greenlands System. These areas are protected by this Plan and are functionally supported, connected and/or buffered by the Natural Areas and Corridors and Potential Natural Areas and Corridors to form the Greenlands System in Peel.* **Applicability to Project:** Core Areas, as outlined in the *Region of Peel Official Plan* are found within the study area. Development and site alteration within the Core Areas is prohibited except in the case of "essential infrastructure, pre-approved or authorized under an environmental assessment process; minor development and minor site alteration" (Region of Peel 2022). Relevant policies and definitions are outlined in Section 2.3 of the *Region of Peel Official Plan*.

Acts and Regulations	Summary of Contents
Town of Caledon Official Plan (2018)	Key natural heritage features and key hydrologic features, and their associated vegetation protection zones have been designated as EPAs within the Town of Caledon. These EPAs include: • all woodland Core Areas • all wetland Core Areas • all Niagara Escarpment natural areas • all life science ANSIs • all Environmentally Significant Areas • all significant habitats of threatened and endangered species • all SWH • all key natural heritage features and their related vegetation protection zones **Applicability to Project:** The study area contains an extensive natural heritage system and EPAs as outlined in the *Town of Caledon Official Plan*. New development is prohibited within areas designated as EPAs, with the exceptions specified in Section 5.7.3.1.2 of the *Town of Caledon Official Plan*.

Notes:
ANSI - areas of natural and scientific interest
COSEWIC - Committee on the Status of Endangered Wildlife in Canada
DFO - Fisheries and Oceans Canada
EPA - Environmental Policy Area
ESA - *Endangered Species Act*
MBCA - *Migratory Birds Convention Act*
NEP - *Niagara Escarpment Plan*
O. Reg. - Ontario Regulation
ORMCP - Oak Ridges Moraine Conservation Plan
PPS - Provincial Policy Statement
PSW - Provincially Significant Wetland
SAR - Species at Risk
SARA - *Species at Risk Act*
SWH - significant wildlife habitat
TRCA - Toronto and Region Conservation Authority

3 METHODOLOGY

3.1 Background Review

A desktop background review was conducted to collect information regarding natural features and wildlife within the study area. This search included a review of the *Greenbelt Plan* (MMAH 2017), *Provincial Policy Statement (2020)* (MMAH 2020), the *Town of Caledon Official Plan* (Town of Caledon 2018), the *Region of Peel Official Plan* (Region of Peel 2022) and multiple online databases including:

- *Atlas of the Breeding Birds of Ontario 2001-2005* (Cadman et al. 2007)
- *Important Bird and Biodiversity Areas in Canada* (IBA Canada 2023)
- *Atlas of the Mammals of Ontario* (Dobbyn 1994)
- *Ontario Reptile and Amphibian Atlas* (Ontario Nature 2023)
- *Ontario Butterfly Atlas* (TEA 2023)
- *Aquatic Species at Risk Map* (DFO 2023)

- Natural Heritage Information Centre (NHIC; MNRF 2023a)
- Land Information Ontario (LIO; MNRF 2023b)
- Ecological Land Classification (Conservation Ontario 2023)
- Natural Areas Inventory (Region of Peel 2023)
- iNaturalist Observations (iNaturalist 2023)

A complete list of species obtained from the background review can be found in Appendix A.

3.2 Species at Risk

Species at risk (SAR) are floral or faunal species in which populations have declined (or are at risk of declining) to such an extent that the species is at risk of extinction or extirpation. Throughout this study, SAR collectively refers to species listed as threatened or endangered under the *Endangered Species Act* (ESA). A comprehensive list of SAR that could potentially be found within the projects boundaries is located in Appendix B. These data have been gathered from a thorough review of all available background documents and sources, as listed in Section 3.1. Species-specific surveys will be completed, where applicable, to determine whether SAR or SAR habitat is present within the site.

3.3 Species of Conservation Concern

Species of conservation concern (SCC) are floral or faunal species in which decline is apparent, but not to the extent where a listing of threatened or endangered under the ESA or *Species at Risk Act* (SARA) are warranted. Throughout this study, SCC collectively refers to species that are listed as special concern under the ESA; species listed as special concern, threatened, or endangered under SARA, in which the corresponding species status under the ESA is less protective; and species with a sub-national conservation rank between S1 and S3. Where critical habitat has been defined for species listed under SARA, SCC may be afforded additional protection within provincial jurisdiction. A comprehensive list of SCC that could potentially be found within the project boundaries is located in Appendix C. This data have been gathered from a thorough review of all available background documents and sources, as listed in Section 3.1. Once the scope of the project has been more refined, an additional screening will be completed to determine whether any SCC are present within the study area.

3.4 Significant Wildlife Habitat

Due to the sheer size of the study area and the vast landscapes in which it covers, a significant wildlife habitat (SWH) screening has not been completed at this stage of the study. Once the scope has been further refined, Montrose will review all available information and determine whether any SWH are present within the project boundaries. The project area has the potential to contain candidate or confirmed SWH habitat types, including habitat for SAR or SCC.

As the study area spans across both Ecoregion 6E and Ecoregion 7E, the presence of SWH will be assessed using the *Significant Wildlife Habitat Criteria Schedules for Ecoregion 6E* (MNRF 2015a) and *Significant Wildlife Habitat Criteria Schedules for Ecoregion 7E* (MNRF 2015b). SWH will also be assessed using the criteria as defined within the *Peel-Caledon Significant Woodlands and Significant Wildlife Habitat Study*

(NSE et al. 2009). Field investigations will determine whether onsite habitat characteristics match that of the SWH criteria schedules. Four categories of SWH will be investigated:

- **Seasonal Concentration Areas:** areas where wildlife species occur annually in aggregations at certain times.
- **Rare Vegetation Communities or Specialized Habitats for Wildlife:** contain rare species specifically plants and small invertebrates which depend on these areas for their survival.
- **Habitats of SCC:** includes SCC species, species that are locally or regionally rare and are declining, or other species with conservation concerns.
- **Animal Movement Corridors:** elongated areas used by wildlife to move within and between habitats locally and regionally. These areas are important in promoting genetic diversity in populations, allowing seasonal migration and movement throughout a home range.

4 EXISTING NATURAL HERITAGE FEATURES AND CONDITIONS

The study area contains an extensive natural heritage system as seen in Figure 3. The following sections describe these identified features in additional detail.



- Study Area Boundary
- Region of Peel Environmentally Significant Area
- Area of Natural and Scientific Interest
- Natural Heritage Area
- Wooded Area
- ROPA 30 Expansion Area
- Bolton Rural Service Centre
- Watercourse
- Highway
- Road
- Railway
- Regional 2051 Urban Boundary

Wetland

- Provincially Significant
- Non-Provincially Significant
- Unevaluated

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NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

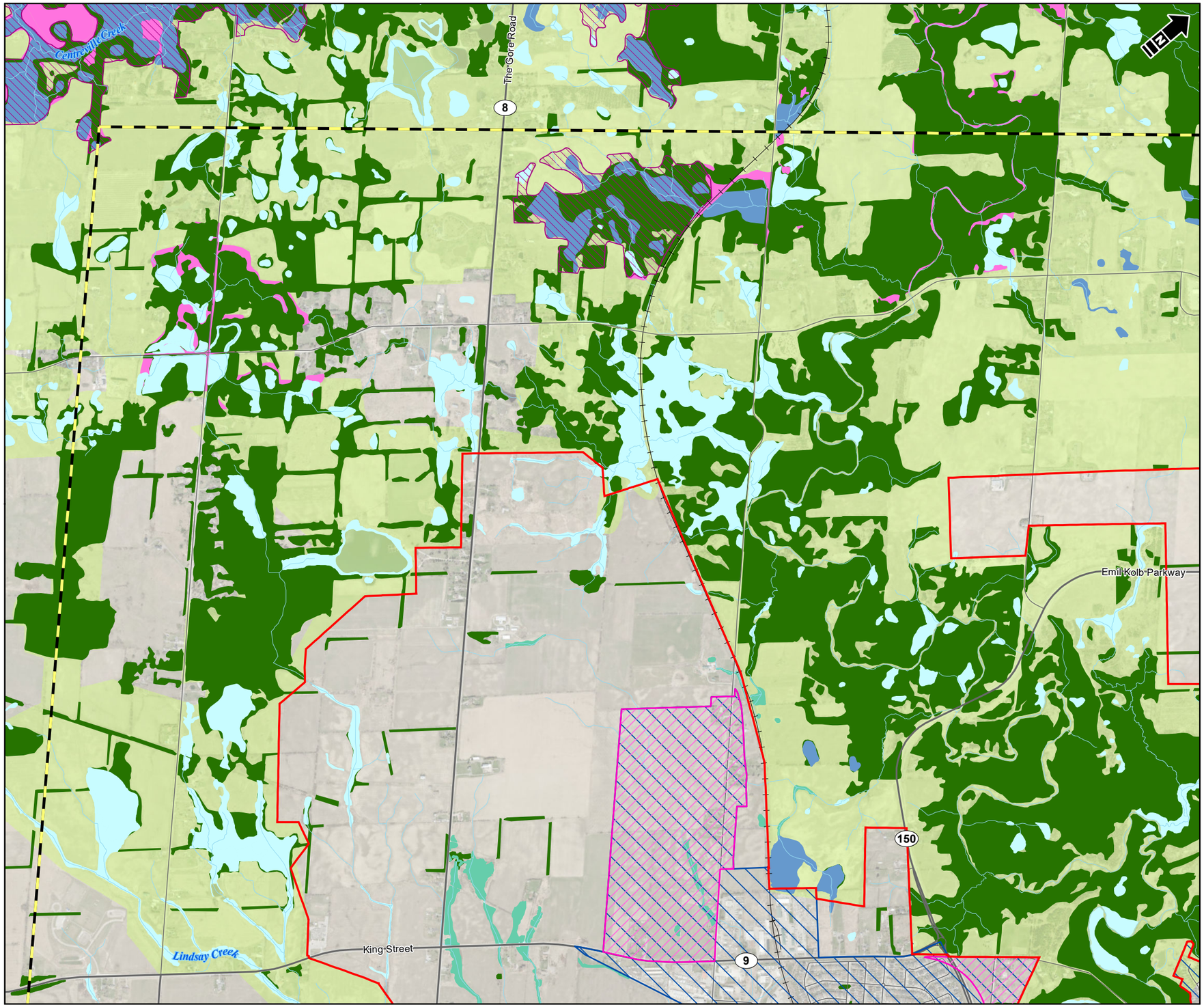
Natural Heritage Features

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 3a

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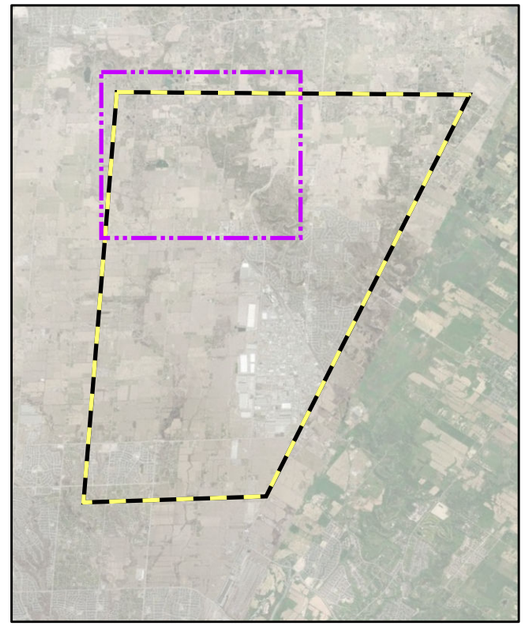


- Study Area Boundary
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- Watercourse
- Highway
- Road
- Railway
- Regional 2051 Urban Boundary

Wetland

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- Non-Provincially Significant
- Unevaluated

Figure Location



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MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

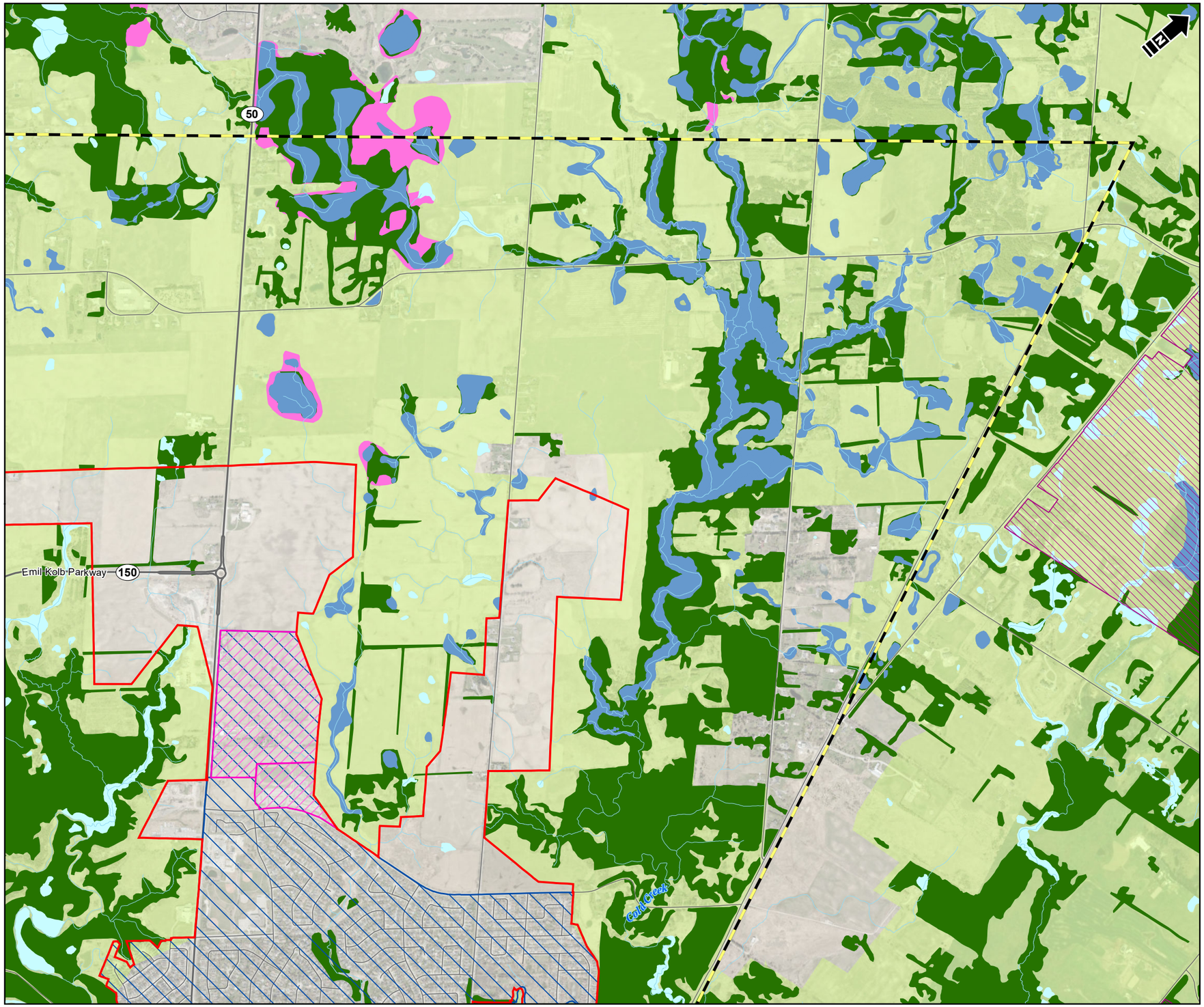
Natural Heritage Features - Detail 1

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 3b

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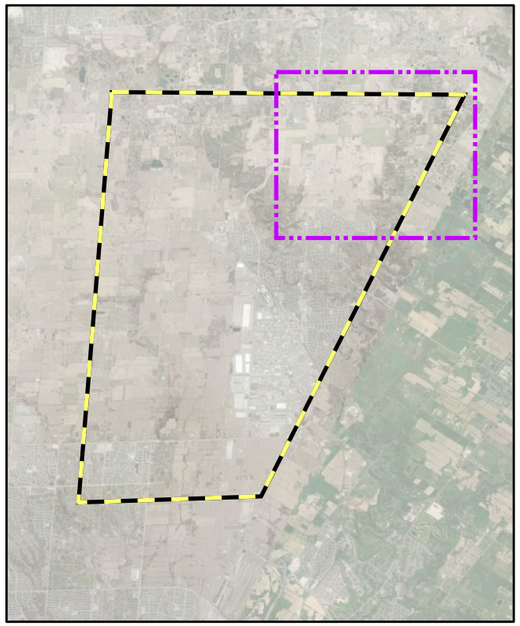


- Study Area Boundary
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- Watercourse
- Highway
- Road
- Regional 2051 Urban Boundary

Wetland

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- Non-Provincially Significant
- Unevaluated

Figure Location



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MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

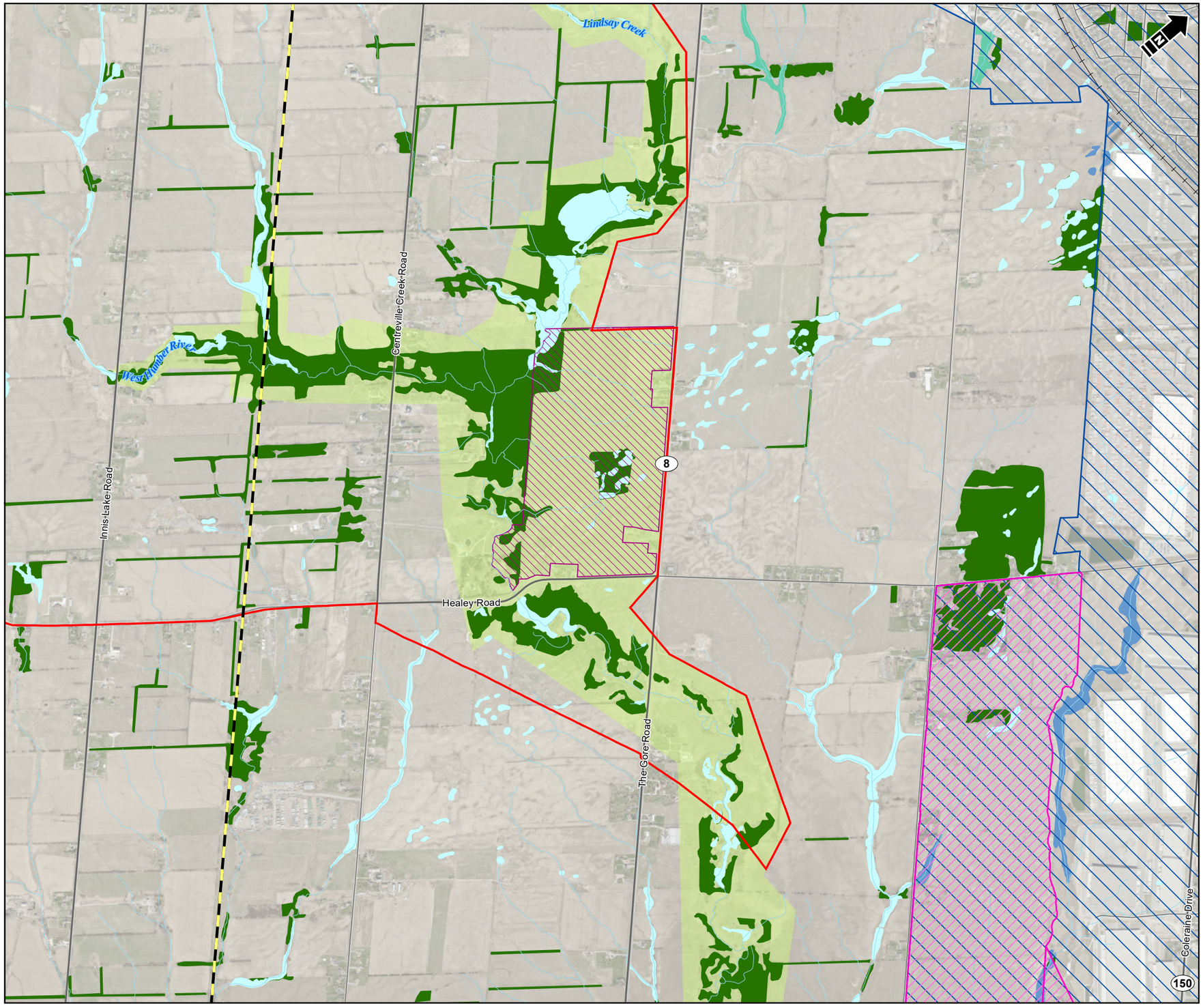
Natural Heritage Features - Detail 2

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 3c

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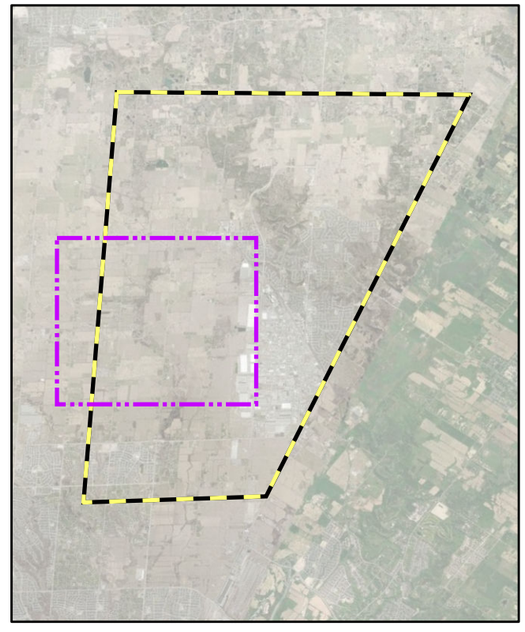


- Study Area Boundary
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- Bolton Rural Service Centre
- Watercourse
- Highway
- Road
- Railway
- Regional 2051 Urban Boundary

Wetland

- Provincially Significant
- Non-Provincially Significant
- Unevaluated

Figure Location



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NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

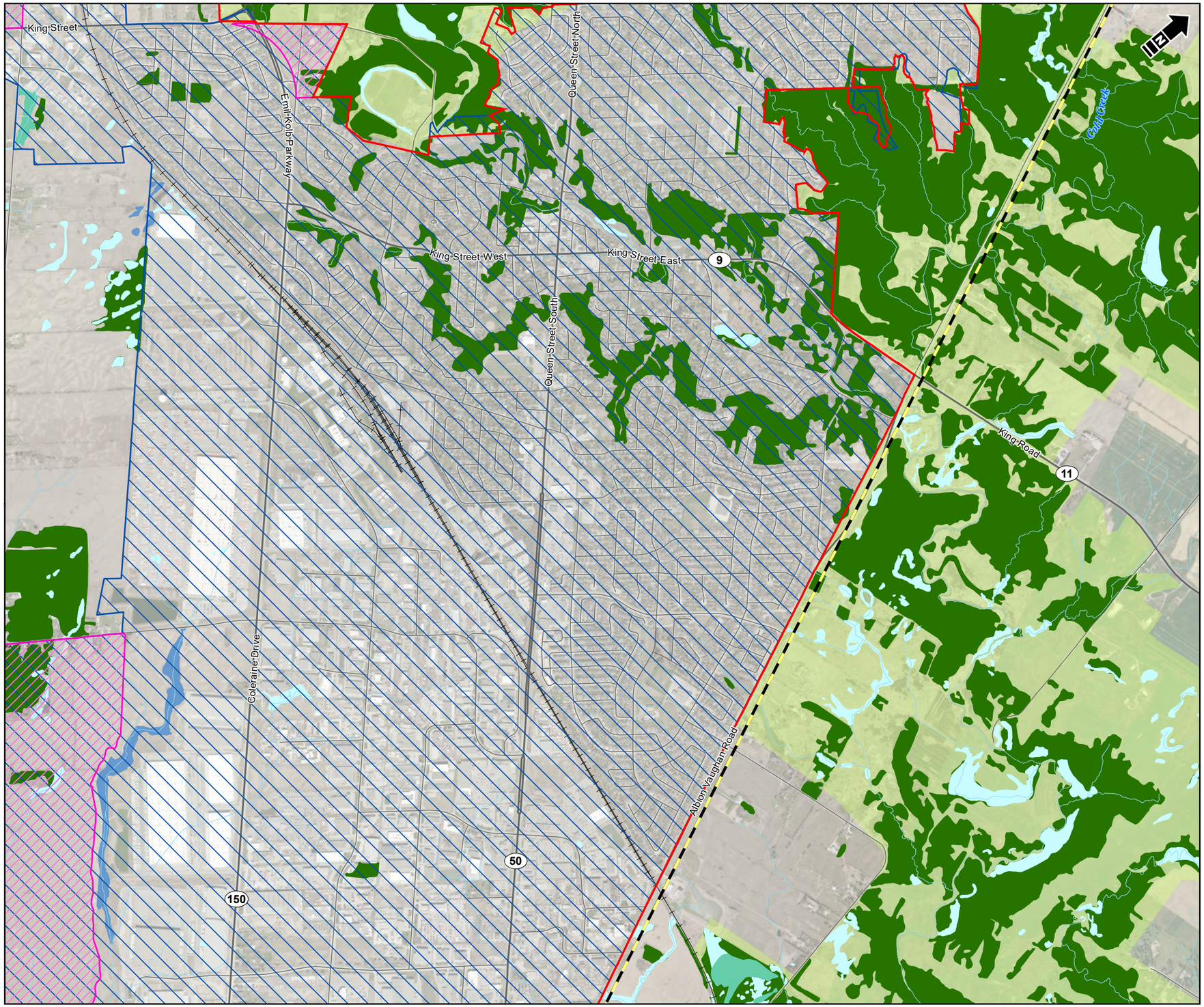
Natural Heritage Features - Detail 3

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 3d

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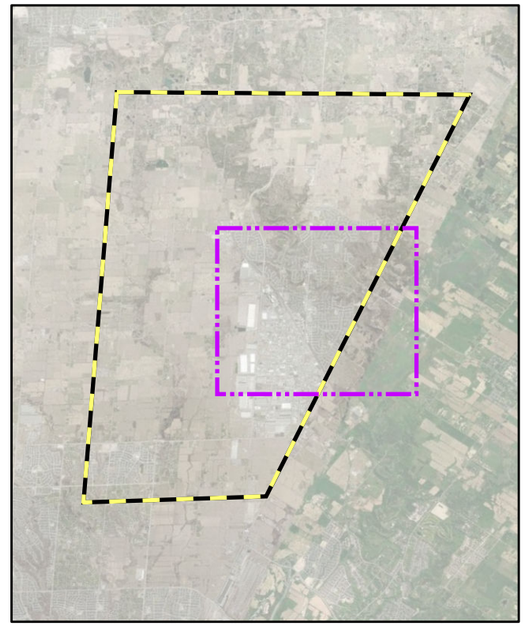


- Study Area Boundary
- Area of Natural and Scientific Interest
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- Watercourse
- Highway
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Wetland

- Provincially Significant
- Non-Provincially Significant
- Unevaluated

Figure Location



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MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

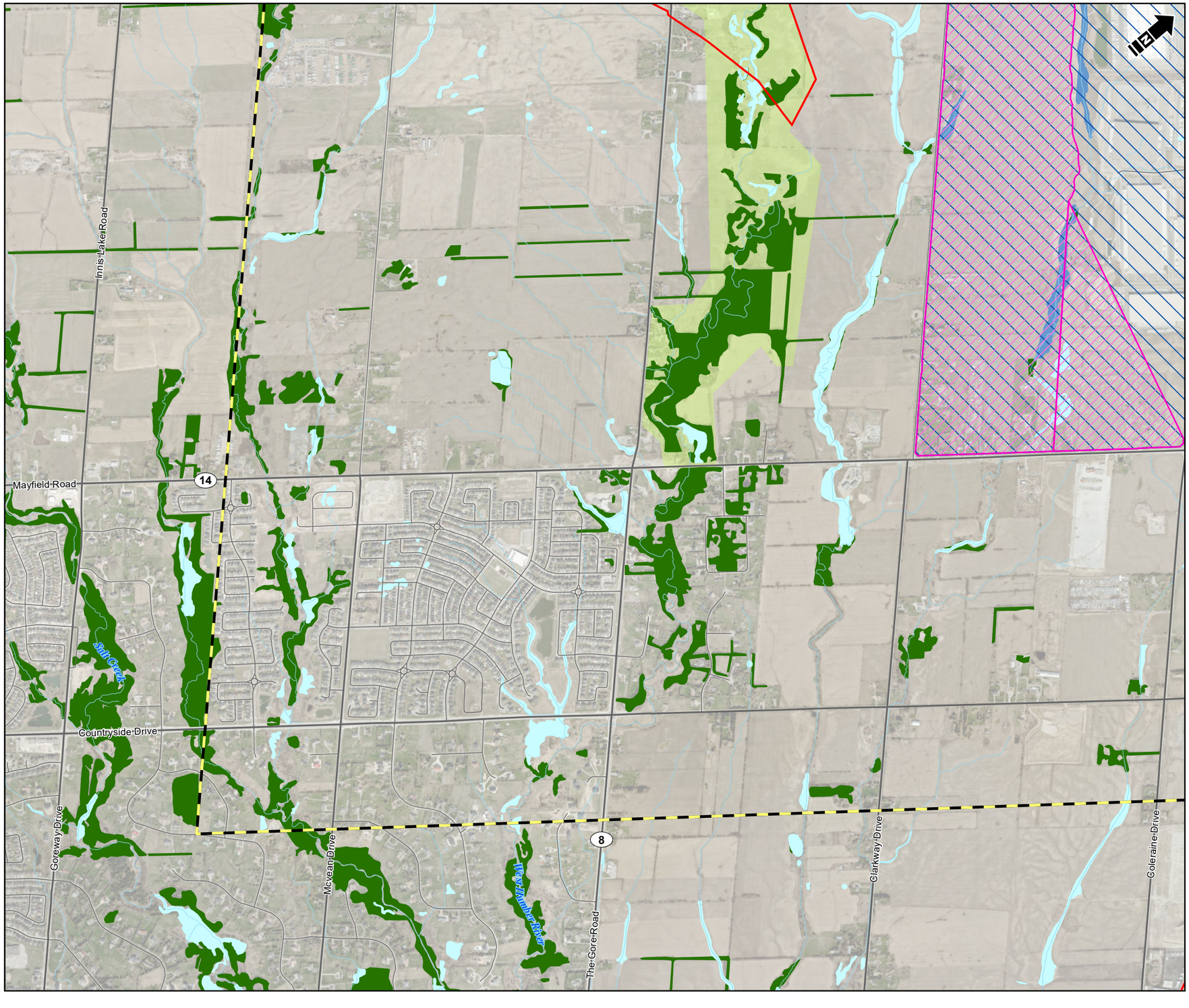
Natural Heritage Features - Detail 4

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 3e

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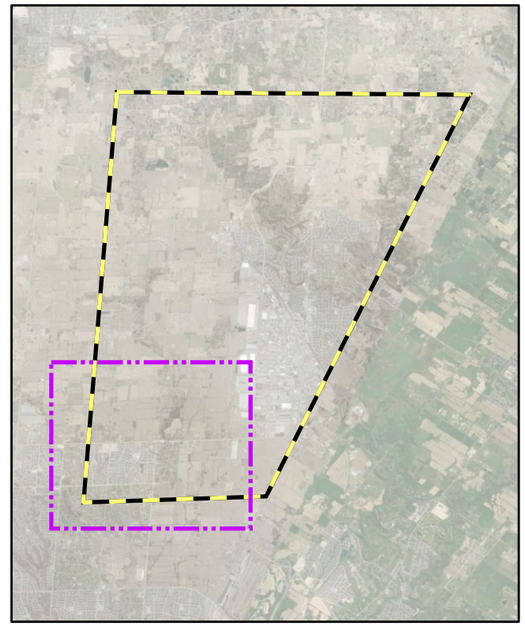


- Study Area Boundary
- Area of Natural and Scientific Interest
- Natural Heritage Area
- Wooded Area
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- Bolton Rural Service Centre
- Watercourse
- Highway
- Road
- Regional 2051 Urban Boundary

Wetland

- Provincially Significant
- Non-Provincially Significant
- Unevaluated

Figure Location



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NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

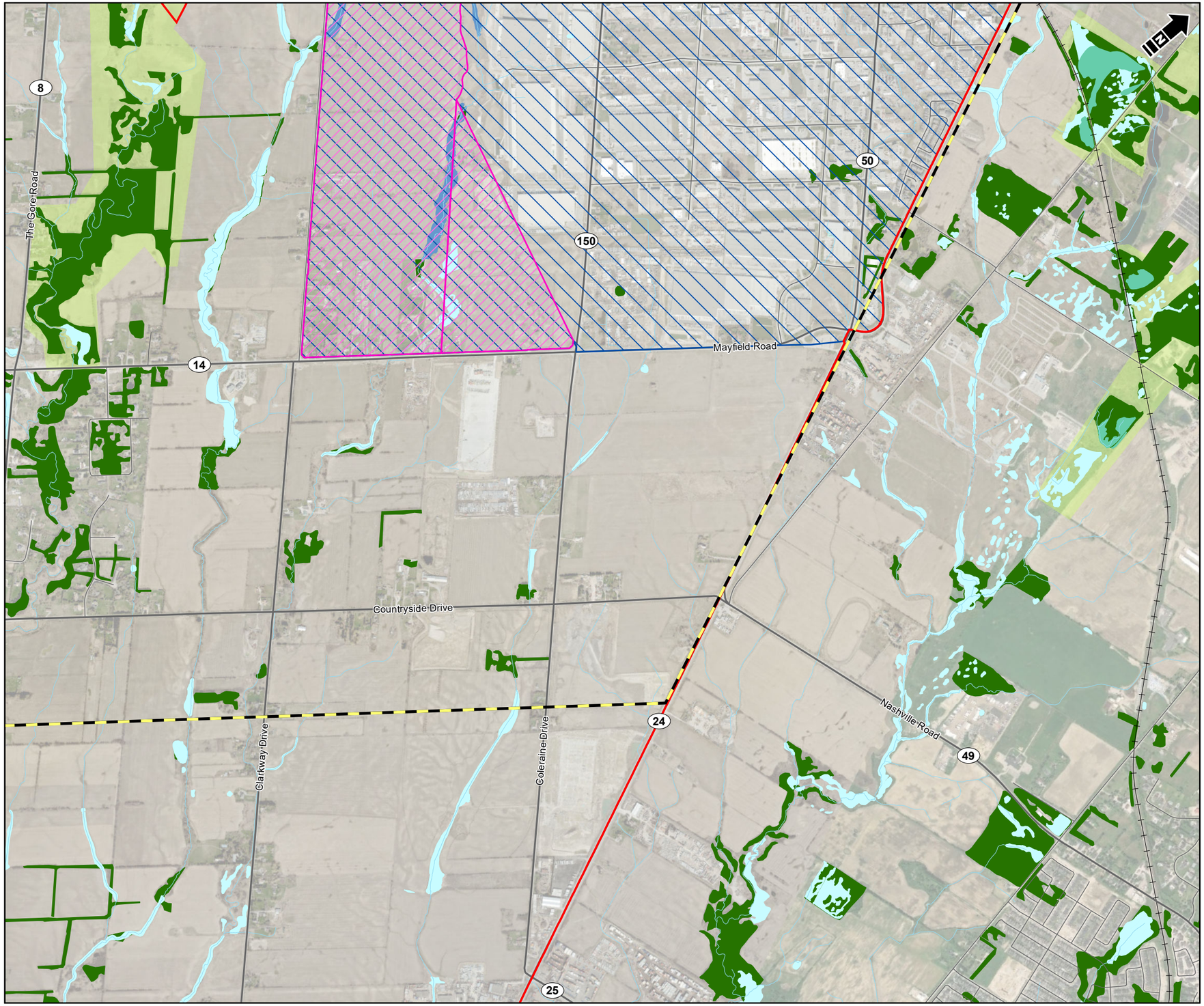
Natural Heritage Features - Detail 5

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 3f

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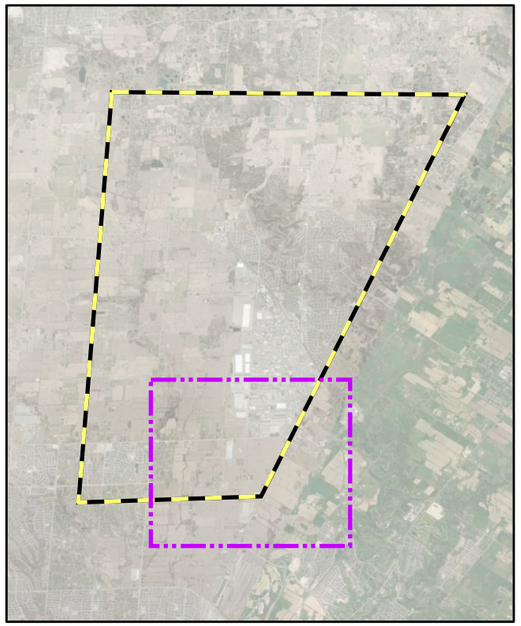


- Study Area Boundary
- Area of Natural and Scientific Interest
- Natural Heritage Area
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- Bolton Rural Service Centre
- Watercourse
- Highway
- Road
- Railway
- Regional 2051 Urban Boundary

Wetland

- Provincially Significant
- Non-Provincially Significant
- Unevaluated

Figure Location



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NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

Natural Heritage Features - Detail 6

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 3g

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4.1 Aquatic Ecosystems

4.1.1 Wetlands

Within the study area, there are seven PSWs and hundreds of unevaluated wetlands. The PSWs include:

- Bolton Provincially Significant Wetland Complex
- Castlederg Provincially Significant Wetland Complex
- Coventry Provincially Significant Wetland Complex
- Mounte Wolfe Provincially Significant Wetland Complex
- Tormore Provincially Significant Wetland Complex
- West Humber Provincially Significant Wetland Complex
- West Humber River Headwater Provincially Significant Wetland Complex

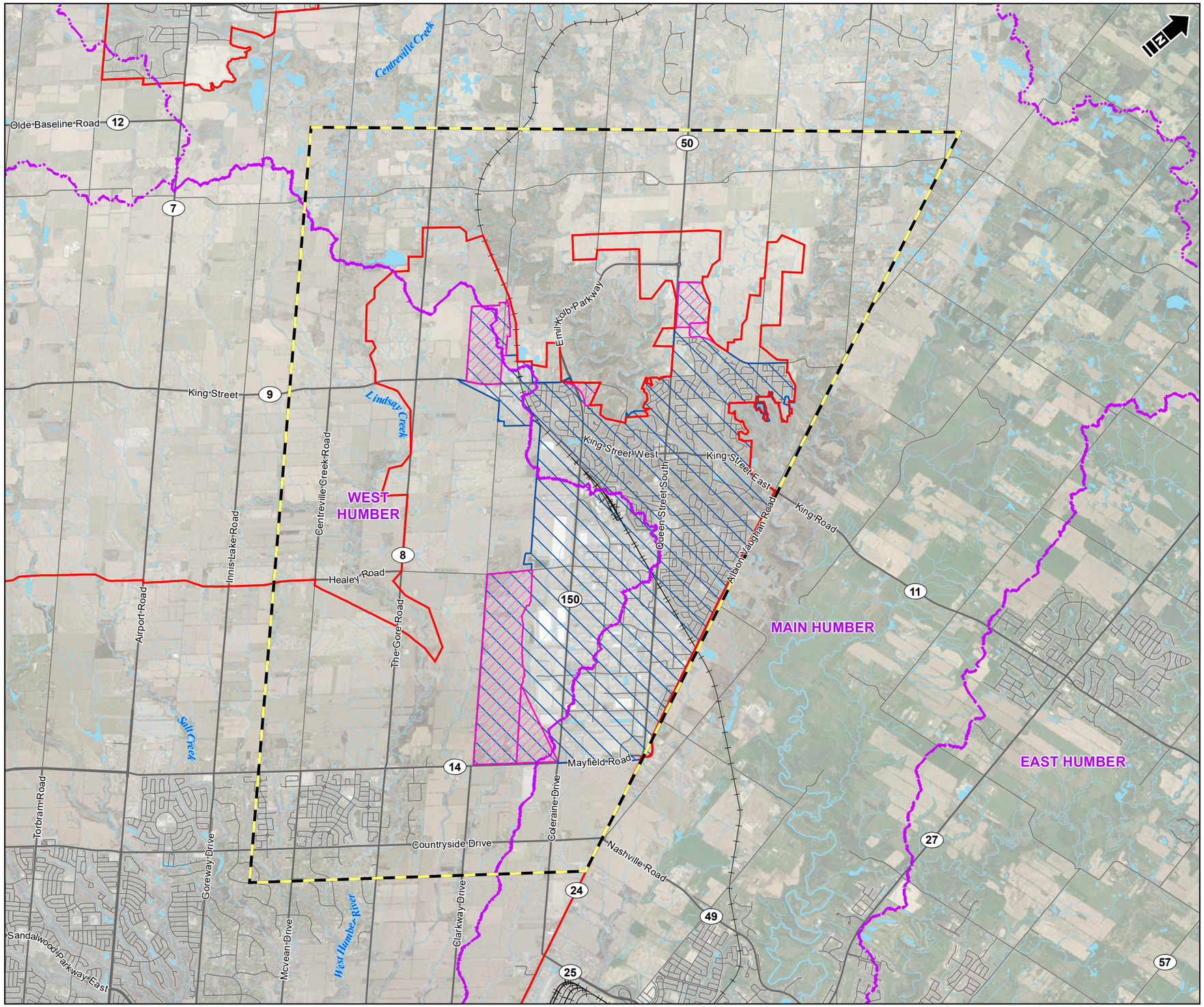
4.1.2 Watersheds and Subwatersheds

The study area is located within the Humber River watershed. As seen in Figure 4, the eastern lands are within the Main Humber subwatershed, and the western lands are located within the West Humber subwatershed. The entire study area falls under the jurisdiction of the TRCA.

4.1.3 Watercourses

As Bolton is situated on the Humber River, it has a unique network of stream corridors and linkages that run through its landscapes. Contained within the greater Humber River and Humber River West systems, there are several other named watercourses and tributaries:

- Clarkway Drive Tributary
- Cold Creek
- Cold Creek West
- Gore Road Tributary
- Hopeful Creek
- Jaffary Creek
- Lindsay Creek
- Rainbow Creek
- Robinson Creek



Study Area Boundary
Subwatershed Boundary
ROPA 30 Expansion Area
Bolton Rural Service Centre
Water Body
Watercourse
Highway
Road
Railway
Regional 2051 Urban Boundary

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1:65,000 metres
650 0 650 1,300
NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

Region of Peel
Bolton Water and Wastewater Capacity Improvements Schedule C Class EA

Humber River Subwatersheds

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

Disclaimer: Third party materials used in this report have not been independently verified and will not be updated for future changes. Montrose Environmental Solutions Canada Inc. has made customary efforts to ensure the accuracy of such materials at the time of publication, however we do not accept any liability for errors, omissions, or inaccuracies in same. Where attached to a report, this figure/drawing is subject to the limitations and conditions stated therein.

Figure 4

I:\Region\OP\Peel\36069\Figures\MapTables\EA\2025\Report\Figure-4-Humber_River_Subwatersheds.mxd - Tabloid_L - 12-May-25, 09:30 AM - dcontese - TID005

4.1.4 Aquatic Species

Based on the background review, records for 37 fish species and 6 mollusc species were noted to occur within the study area. While most of these species are common and secure within Ontario, 1 SAR and 1 SCC have been identified. A full list of species can be found in Appendix A, with further details on SAR/SCC can be found in Tables 3 and 4.

4.2 Woodlands

Significant woodlands are areas that are ecologically, functionally, or economically important due to their contribution to the broader landscape. They may have unique features such as species composition, age of trees, size or location, forest cover, site quality, or management history. Within the Region and the Town, biologists from North-South Environmental Inc. (NSE et al. 2009) have developed a set of guidelines to aid in the assessment of woodlands under the *Town of Caledon Official Plan* policies and the *Provincial Policy Statement, 2020* (PPS).

4.3 Valleylands

Valleylands are a natural landform depression that have water which may be flowing or standing. While often associated with larger watercourses, valleylands can also be associated with ephemeral ponds or seasonal flows. Within the project area, the valleylands associated with the Humber River are considered an important natural feature of the community and have protections under the *Town of Caledon Official Plan*.

4.4 Area of Natural and Scientific Interest

Areas of Natural and Scientific Interest (ANSIs) are areas of land or water that contain features identified as having life science or earth science values related to protection, scientific study, or education. Based on the background review, the study area does not contain any ANSIs. Three ANSIs are located within 2 km of the study area:

- Palgrave Moraine Earth Science ANSI: north of Old Church Road, northwest of Bolton
- Palgrave Moraine Topography Earth Science ANSI: east of Caledon King Line South, north of Bolton
- Cold Creek Headwaters Life Science ANSI: east of Caledon King Line South, east of Bolton

4.5 Environmentally Sensitive or Significant Areas

Environmentally Significant Areas are landscape features identified as warranting special protection. Designation of these areas is generally determined through criteria established by conservation authorities and municipalities. Based on the background review, it has been determined that portions of the study area have been designated as Environmentally Significant Areas. Once the project scope has been further refined, additional correspondence with the TRCA, Region of Peel, and the Town will be completed to gain further understanding of the locations and constraints that Environmentally Significant Area's may have on the project.

4.6 Ecological Land Classification

According to the Ecological Land Classification (ELC) data obtained from the TRCA Geohub, a total of 400 vegetation communities have been delineated within the study area (Conservation Ontario 2023). These vegetation communities are listed in Appendix D. Once the project area has been further refined, ELC data will be verified in the field. Table 2 outlines the type and number of rare ELC communities that have been mapped within the Region of Peel.

TABLE 2 Rare Ecological Land Classification Communities Summary

ELC Code	ELC Community Type	No. of Communities within the Region of Peel
CLO1-2	Bulbet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type	6
CLO1-4	Open Limestone / Dolostone Seepage Cliff Type	1
CLT1-1	White Cedar Treed Limestone Cliff Type	2
FOD6-2	Moist-Fresh Sugar Maple - Black Maple Deciduous Forest Type	2
TAS1-2	Mountain Maple Open Limestone Talus Shrubland Type	3
TAT1-5	Basswood - White Ash - Butternut Moist Treed Limestone Talus Type	1
TAT1-6	Hemlock - Sugar Maple Moist Limestone Talus Type	1

Note:
ELC - Ecological Land Classification

4.7 Wildlife

Based on the background review, records for a total of 1,315 insect species, 45 mammal species, 15 amphibian species, 7 reptile species, and 157 bird species were noted to occur within the study area. While much of these species are common and secure within Ontario, 22 SAR and 13 SCC have been identified. A full list of species can be found in Appendix A, and a detailed list of the SAR and SCC can be found in Appendix B.

4.7.1 Historical Records

During our background review, several historical records from the NHIC were uncovered. For the purposes of our review, any species that has not been observed within the last 10 years is considered historical; however, these records will be considered alongside the current known or anticipated distribution of each respective species when assessing potential presence.

4.7.2 Species at Risk (SAR)

Based on the background review, there is potential for the presence of 21 SAR listed under the ESA as either threatened or endangered. These species are summarized in Table 3.

TABLE 3 Species at Risk Potentially Present Within the Study Area

Common Name	Latin Name	ESA Status	SARA Status
Aquatic			
Redside Dace	*Clinostomus elongatus*	END	END
Avian			
Bank Swallow	*Riparia riparia*	THR	THR
Bobolink	*Dolichonyx oryzivorus*	THR	THR
Cerulean Warbler	*Setophaga cerulea*	THR	END
Eastern Meadowlark	*Sturnella magna*	THR	THR
Eastern Whip-poor-will	*Antrostomus vociferus*	THR	THR
Least Bittern	*Ixobrychus exilis*	THR	THR
Loggerhead Shrike	*Lanius ludovicianus*	END	END
Louisiana Waterthrush	*Parkesia motacilla*	THR	THR
Red-headed Woodpecker	*Melanerpes erythrocephalus*	END	THR
Flora			
Butternut	*Juglans cinerea*	END	END
Herpetofauna			
Blanding's Turtle	*Emydoidea blandingii*	THR	THR
Jefferson Salamander	*Ambystoma jeffersonianum*	END	END
Invertebrates			
Rapids Clubtail	*Phanogomphus quadricolor*	THR	END
Mammals			
Eastern Small-footed Myotis	*Myotis leibii*	END	No Status
Little Brown Myotis	*Myotis lucifugus*	END	END
Northern Myotis	*Myotis septentrionalis*	END	END
Tri-colored Bat	*Perimyotis subflavus*	END	END
Eastern Red Bat	*Lasionycteris noctivagans*	END	END
Hoary Bat	*Lasiurus borealis*	END	END
Silver-haired Bat	*Lasiurus cinereus*	END	END

Notes:
ESA - *Endangered Species Act*
SARA - *Species at Risk Act*
END - endangered
THR - threatened

4.7.3 Species of Conservation Concern (SCC)

Based on the background review, there is potential for the presence of 13 SCC. These species are summarized in Table 4.

TABLE 4 Species of Conservation Concern Potentially Present Within the Study Area

Common Name	Latin Name	ESA Status	SARA Status
Aquatic			
Northern Brook Lamprey	*Ichthyomyzon fossor*	SC	SC
Silver Lamprey	*Ichthyomyzon unicuspis*	SC	SC
Avian			
Barn Swallow	*Hirundo rustica*	SC	SC
Canada Warbler	*Cardellina canadensis*	SC	THR
Eastern Wood-pewee	*Contopus virens*	SC	SC
Golden-winged Warbler	*Vermivora chrysoptera*	SC	THR
Grasshopper Sparrow	*Ammodramus savannarum*	SC	SC
Wood Thrush	*Hylocichla mustelina*	SC	THR
Herpetofauna			
Northern Map Turtle	*Graptemys geographica*	SC	SC
Snapping Turtle	*Chelydra serpentina*	SC	SC
Invertebrates			
American Bumble Bee	*Bombus pensylvanicus*	SC	SC
Monarch	*Danaus plexippus*	SC	SC
Yellow-banded Bumble Bee	*Bombus terricola*	SC	SC

Notes:
ESA - *Endangered Species Act*
SARA - *Species at Risk Act*
THR - threatened
SC - special concern

5 CONCLUSION AND NEXT STEPS

5.1 General Constraints

The following constraints have been identified through the review of background information and should be considered when selecting the long and short list of alternatives:

- The study area is located within the Greenbelt and the Oak Ridges Moraine for which polices under these plans are applicable.
- The study area is confirmed or assumed to contain multiple designated natural heritage features, including:
    - Bolton Provincially Significant Wetland Complex
    - Castlederg Provincially Significant Wetland Complex
    - Coventry Provincially Significant Wetland Complex
    - Mounte Wolfe Provincially Significant Wetland Complex
    - Tormore Provincially Significant Wetland Complex
    - West Humber Provincially Significant Wetland Complex
    - West Humber River Headwater Provincially Significant Wetland Complex

  - several regionally significant woodlands
  - fish habitat
  - significant valleylands, associated with the Humber River
  - Environmentally Significant Area

- The study area contains a total of 400 mapped vegetation community types, 7 of which have been identified as regionally rare.
- The study area includes the potential for 21 SAR and 13 SCC.
- The study area may also contain species which are regionally or locally rare.
- The study area includes major watercourses and associated tributaries within the Humber River watershed.
- The study area is located within the TRCA's jurisdiction, and TRCA permits may be necessary for project activities.
- If impacts to fish habitat will occur as a result of project activities, liaison with DFO will also be necessary.

5.2 Next Steps

The next step in the characterization of natural habitat will be to utilize constraints as identified to inform and help guide the development of long list, and subsequently short list alternative solutions. This process will serve to narrow the scope and, by extension, the study area to be assessed. This will allow for a more in-depth evaluation of natural heritage features and constraints, as well as how they directly apply to each respective option.

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APPENDIX A
Desktop Wildlife Species Results

TABLE A1 Bird Species

Species		Conservation Rank					Source			
Scientific Name	Common Name	Provincial (S-Rank)	Provincial (ESA)	National (COSEWIC)	National (SARA)	Region of Peel	NHIC	OBBA	eBird	iNaturalist
Accipitridae	**Hawks, Kites, Eagles & Allies**									
Accipiter cooperii	Cooper's Hawk	S4				Level 3 Forest		x	x	x
Accipiter gentilis	Northern Goshawk	S4				Level 2 Forest		x		
Accipiter striatus	Sharp-shinned Hawk	S5				Level 2 Forest		x	x	x
Buteo jamaicensis	Red-tailed Hawk	S5						x	x	x
Buteo platypterus	Broad-winged Hawk	S5B				Level 2 Forest		x	x	
Circus cyaneus	Northern Harrier	S4B							x	x
Haliaeetus leucocephalus	Bald Eagle	S2N/S4B	SC						x	x
Alaudidae	**Larks**									
Eremophila alpestris	Horned Lark	S5B				Level 3 Open Country		x	x	
Alcedinidae	**Kingfishers**									
Megaceryle alcyon	Belted Kingfisher	S4B/S5B						x	x	x
Anatidae	**Ducks, Geese & Swans**									
Aix sponsa	Wood Duck	S5				Level 4 Forest		x	x	x
Anas acuta	Northern Pintail	S5							x	
Anas americana	American Wigeon	S4				Level 3 Marsh			x	
Anas crecca	Green-winged Teal	S4						x	x	
Anas platyrhynchos	Mallard	S5						x	x	x
Anas rubripes	American Black Duck	S4				Level 2 Marsh			x	
Branta canadensis	Canada Goose	S5						x	x	x
Branta hutchiinsii	Cackling Goose	S4M							x	
Cygnus buccinator	Trumpeter Swan	S4						x		x
Lophodytes cucullatus	Hooded Merganser	S5B, S5N				Level 4 Forest		x	x	x
Aythya valisineria	Canvasback	S1B,S4N							x	
Mergus merganser	Common Merganser	S5B,S5N							x	x
Ardeidae	**Herons and Bitterns**									
Ardea herodias	Great Blue Heron	S4						x	x	x
Butorides virescens	Green Heron	S4B				Level 4 Marsh		x	x	x
Ixobrychus exilis	Least Bittern	S4B	THR	THR	THR	Level 1 Marsh	x			
Bombycillidae	**Waxwings**									
Bombycilla cedrorum	Cedar Waxwing	S5B						x	x	x
Caprimulgidae	**Nightjars**									
Antrostomus vociferus	Eastern Whip-poor-will	S4B	THR	THR	THR		x			
Cardinalidae	**Cardinals, Grosbeaks & Allies**									
Cardinalis cardinalis	Northern Cardinal	S5						x	x	x
Passerina cyanea	Indigo Bunting	S4B						x	x	x
Pheucticus ludovicianus	Rose-breasted Grosbeak	S4B						x	x	x
Piranga olivacea	Scarlet Tanager	S4B				Level 2 Forest		x	x	x
Cathartidae	**Vultures**									
Cathartes aura	Turkey Vulture	S5B				Level 3 Forest		x	x	x
Certhiidae	**Creepers**									

Species		Conservation Rank					Source			
Scientific Name	Common Name	Provincial (S-Rank)	Provincial (ESA)	National (COSEWIC)	National (SARA)	Region of Peel	NHIC	OBBA	eBird	iNaturalist
Certhia americana	Brown Creeper	S5B				Level 2 Forest		x	x	
Charadriidae	**Plovers**									
Charadrius vociferus	Killdeer	S5B/S5N						x	x	x
Columbidae	**Pigeons & Doves**									
Columba livia	Rock Pigeon	SNA						x	x	
Zenaida macroura	Mourning Dove	S5						x	x	x
Corvidae	**Crows & Jays**									
Corvus brachyrhynchos	American Crow	S5B/S4N						x	x	x
Corvus corax	Common Raven	S5						x	x	x
Cyanpcitta cristata	Blue Jay	S5						x	x	x
Cuculidae	**Cuckoo & Anis**									
Coccyzus americanus	Yellow-billed Cuckoo	S4B				Level 3 Forest		x	x	x
Coccyzus erythropthalmus	Black-billed Cuckoo	S5B				Level 2 Forest		x	x	x
Emberizidae	**New World Sparrows & Allies**									
Ammodramus savannarum	Grasshopper Sparrow	S4B	SC	SC		Level 3 Open Country	x	x		
Junco hyemalis	Dark-eyed Junco	S5B							x	x
Melospiza georgiana	Swamp Sparrow	S5B				Level 2 Marsh		x	x	x
Melospiza melodia	Song Sparrow	S5B/S4N						x	x	x
Passerculus sandwichensis	Savannah Sparrow	S4B				Level 1 Open Country		x	x	
Passerella iliaca	Fox Sparrow	S4B							x	
Pipilo erythrophthalmus	Eastern Towhee	S4B				Level 2 Forest		x	x	x
Pooecetes gramineus	Vesper Sparrow	S4B				Level 3 Open Country		x	x	
Spizella arborea	American Tree Sparrow	S4B							x	
Spizella pallida	Clay-colored Sparrow	S4B						x		
Spizella passerina	Chipping Sparrow	S5B/S4N						x	x	x
Zonotrichia albicollis	White-throated Sparrow	S5B						x	x	x
Zonotrichia leucophrys	White-crowned Sparrow	S4B							x	x
Spizella pusilla	Field Sparrow	S4B				Level 3 Open Country		x	x	x
Falconidae	**Carcaras & Falcons**									
Falco columbarius	Merlin	S5B						x		
Falco sparverius	American Kestrel	S4				Level 2 Open Country		x	x	x
Fringillidae	**Finches & Allies**									
Acanthis flammea	Common Redpoll	S4B							x	
Haemorhous mexicanus	House Finch	SNA						x	x	x
Haemorhous purpureus	Purple Finch	S4B				Level 2 Forest		x	x	x
Spinus pinus	Pine Siskin	S4B							x	
Spinus tritis	American Goldfinch	S5B/S4N				Level 3 Open Country		x	x	x
Hirundinidae	**Swallows**									
Hirundo rustica	Barn Swallow	S4B	SC	SC		Level 4 Open Country	x	x	x	x
Petrochelidon pyrrhonota	Cliff Swallow	S4B				Level 3 Open Country		x		
Riparia riparia	Bank Swallow	S4B	THR	THR	THR	Level 2 Open Country		x	x	
Stelgidopteryx serripennis	Northern Rough-winged Swallow	S4B				Level 2 Open Country		x	x	x
Tachycineta bicolor	Tree Swallow	S4B						x	x	x

Species		Conservation Rank					Source			
Scientific Name	Common Name	Provincial (S-Rank)	Provincial (ESA)	National (COSEWIC)	National (SARA)	Region of Peel	NHIC	OBBA	eBird	iNaturalist
Icteridae	**New World Blackbird**									
Agelaius phoeniceus	Red-winged Blackbird	S4/S5						x	x	x
Dolichonyx oryzivorus	Bobolink	S4B	THR	SC		Level 2 Open Country	x	x	x	x
Icterus galbula	Baltimore Oriole	S4B						x	x	x
Icterus spurius	Orchard Oriole	S4B				Level 3 Forest		x	x	x
Molothrus ater	Brown-headed Cowbird	S4B						x	x	x
Quiscalus quiscula	Common Grackle	S5B/S4N						x	x	x
Sturnella magna	Eastern Meadowlark	S4B	THR	THR	THR	Level 3 Open Country	x	x	x	x
Laniidae	**Shrikes**									
Lanius excubitor	Northern Shrike	SNA							x	
Lanius ludovicianus	Loggerhead Shrike	S2B	END	END	END	Level 1 Open Country	x			
Laridae	**Gulls, Terns & Skimmers**									
Larus argentatus	Herring Gull	S5B,S5N							x	
Larus delawarensis	Ring-billed Gull	S5B/S4N							x	x
Mimidae	**Mockingbirds, Thrashers & Allies**									
Dumetella carolinsis	Gray Catbird	S4B				Level 4 Forest		x	x	
Mimus polyglottos	Northern Mockingbird	S4				Level 1 Open Country		x	x	
Toxostoma rufum	Brown Thrasher	S4B				Level 1 Open Country		x	x	x
Pandionidae	**Osprey**									
Pandion haliaetus	Osprey	S5B				Level 3 Marsh		x	x	x
Paridae	**Chickadees and Titmice**									
Poecile atricapillus	Black-capped Chickadee	S5				Level 4 Marsh		x	x	x
Parulidae	**Wood Warblers**									
Cardellina canadensis	Canada Warbler	S4B	SC	THR	SC	Level 1 Forest	x			
Cardellina pusilla	Wilson's Warbler	S4B							x	x
Geothlypis philadelphia	Mourning Warbler	S4B				Level 2 Forest		x	x	x
Geothylupis trichas	Common Yellowthroat	S5B						x	x	x
Mniotilta varia	Black-and-white Warbler	S5B				Level 3 Forest		x	x	x
Oreothlypis peregrina	Tennessee Warbler	S5B							x	
Oreothlypis ruficapilla	Nashville Warbler	S5B				Level 1 Forest		x	x	
Parkesia motacilla	Louisiana Waterthrush	S3B	THR	THR	THR	Level 1 Forest	x			
Parkesia noveboracensis	Northern Waterthrush	S5B				Level 2 Forest		x		
Protonotaria citrea	Prothonotary Warbler	S1B	END	END	END		x			
Seiurus aurocapilla	Ovenbird	S4B				Level 4 Forest		x	x	
Setophaga americana	Northern Parula	S4B							x	x
Setophaga caerulescens	Black-throated Blue Warbler	S5B							x	
Setophaga castanea	Bay-breasted Warbler	S5B							x	x
Setophaga cerulea	Cerulean Warbler	S3B	THR	END	END	Level 1 Forest	x			
Setophaga coronata	Yellow Rumped Warbler	S5B						x	x	x
Setophaga fusca	Blackburnian Warbler	S5B				Level 1 Forest		x		
Setophaga magnolia	Magnolia Warbler	S5B				Level 1 Forest			x	
Setophaga pensylvanica	Chestnut-sided warbler	S5B				Level 1 Forest		x	x	
Setophaga petechai	Yellow Warbler	S5B						x	x	x

Species		Conservation Rank					Source			
Scientific Name	Common Name	Provincial (S-Rank)	Provincial (ESA)	National (COSEWIC)	National (SARA)	Region of Peel	NHIC	OBBA	eBird	iNaturalist
Setophaga pinus	Pine Warbler	S5B				Level 2 Forest		x	x	x
Setophaga ruticilla	American Redstart	S5B				Level 2 Forest		x	x	x
Setophaga virens	Black-throated Green Warbler	S5B				Level 1 Forest		x	x	
Vermivora chrysoptera	Golden-winged Warbler	S4B	SC	THR	THR	Level 1 Forest	x			
Vermivora cyanoptera	Blue-winged Warbler	S4B				Level 1 Forest		x	x	x
Passeridae	**Sparrows**									
Passer domesticus	House Sparrow	SNA						x	x	x
Phasianidae	**Patridges, Grouse, Turkeys**									
Meleagris gallopavo	Wild Turkey	S5						x	x	x
Bonasa umbellus	Ruffed Grouse	S4				Level 3 Forest		x	x	
Picidae	**Woodpeckers**									
Colaptes auratus	Northern Flicker	S4B						x	x	x
Dryocopus pileatus	Pileated Woodpecker	S5				Level 2 Forest		x	x	x
Leuconotopicus villosus	Hairy Woodpecker	S5						x	x	
Melanerpes carolinus	Red-bellied Woodpecker	S4				Level 3 Forest		x	x	x
Melanerpes erythrocephalus	Red-headed Woodpecker	S4B	END	END	END	Level 1 Forest	x	x		
Picoides pubescens	Downy Woodpecker	S5						x	x	x
Sphyrapicus varius	Yellow-bellied Sapsucker	S5B				Level 2 Forest		x	x	x
Podicipedidae	**Grebes**									
Podiceps grisegena	Red-necked Grebe	S3B/S4N						x		
Podilymbus podiceps	Pied-billed Grebe	S4B,S4N				Level 2 Marsh		x		
Polioptilidae	**Gnatcatchers**									
Polioptila caerulea	Blue-gray Gnatcatcher	S4B				Level 3 Forest		x		
Rallidae	**Railes, Gallinules & Coots**									
Gallinula chloropus	Common Gallinule	S4B					x	x		
Porzana carolina	Sora	S4B				Level 1 Marsh		x	x	
Rallus limicola	Virginia Rail	S5B				Level 1 Marsh		x	x	
Regulidae	**Kinglets**									
Regulus calendula	Ruby-crowned Kinglet	S4B				Level 4 Forest			x	x
Regulus satrapa	Golden-crowned Kinglet	S5B				Level 2 Forest		x	x	x
Scolopacidae	**Sandpipers, Phalaropes &Allies**									
Actitis macularius	Spotted Sandpiper	S5				Level 3 Open Country		x	x	x
Bartramia longicauda	Upland Sandpiper	S4B				Level 2 Open Country		x		
Gallinago delicata	Wilson's Snipe	S5B						x		
Scolopax minor	American Woodcock	S4B				Level 4 Forest		x		x
Sittidae	**Nutchatches**									
Sitta canadensis	Red-breasted Nuthatch	S5				Level 3 Forest		x	x	x
Sitta carolinensis	White-breasted Nuthatch	S5						x	x	x
Stercorariidae	**Skuas**									
Asio flammeus	Short-eared Owl	S2N,S4B	THR				x			
Bubo scanidiacus	Snowy Owl	SNA								x
Bubo virginianus	Great Horned Owl	S5						x	x	
Megascops asio	Screech Owl	S4						x		

Species		Conservation Rank					Source			
Scientific Name	Common Name	Provincial (S-Rank)	Provincial (ESA)	National (COSEWIC)	National (SARA)	Region of Peel	NHIC	OBBA	eBird	iNaturalist
Strix varia	Barred Owl	S5				Level 1 Forest				x
Sturnidae	**Starlings**									
Sturnus vulgaris	European Starling	SNA						x	x	x
Trochillidae	**Hummingbirds**									
Archilochus colubris	Ruby-throated Hummingbird	S5B				Level 3 Forest		x		x
Troglodytidae	**Wrens**									
Cistothorus palustris	Marsh Wren	S4B				Level 3 Marsh		x	x	
Troglodytes aedon	House Wren	S5B						x	x	x
Troglodytes hiemalis	Winter Wren	S5B				Level 3 Forest		x		x
Turdidae	**Thrushes**									
Catharus fuscescens	Veery	S4B				Level 3 Forest		x		
Catharus guttatus	Hermit Thrush	S5B							x	x
Catharus ustulatus	Swainson's Thrush	S4B							x	
Hylocichla mustelina	Wood Thrush	S4B	SC	THR	THR	Level 4 Forest	x	x	x	
Ixoreus naevius	Varied Thrush	SNA								x
Sialia sialis	Eastern Bluebird	S5B				Level 1 Open Country		x	x	x
Turdus migratorius	American Robin	S5B						x	x	x
Tyrannidae	**Tyrant Flycatchers**									
Contopus virens	Eastern Wood-pewee	S4B	SC	SC	SC		x	x	x	
Empidonax alnorum	Alder Flycatcher	S5B				Level 3 Forest		x		
Empidonax minimus	Least Flycatcher	S4B						x	x	x
Empidonax traillii	Willow Flycatcher	S5B						x	x	
Myiarchus crinitus	Great Crested Flycatcher	S4B						x	x	x
Sayornis phoebe	Eastern Phoebe	S5B/S4N				Level 3 Forest		x	x	x
Tyrannus tyrannus	Eastern Kingbird	S4B				Level 3 Open Country		x	x	x
Vireonidae	**Vireos**									
Vireo gilvus	Warbling Vireo	S5B						x	x	
Vireo olivaceus	Red-eyed Vireo	S5B						x	x	x
Vireo solitarius	Blue-headed Vireo	S5B				Level 3 Forest		x	x	x
Total							**17**	**120**	**125**	**93**

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TABLE A2 Reptile and Amphibian Species

Species		Conservation Rank				Source		
Scientific Name	Common Name	Provincial (S-RANK)	Provincial (ESA)	National (COSEWIC)	National (SARA)	NHIC	ORAA	iNaturalist
Cryptodeira	**Turtles**							
Chelydra serpentina	Snapping Turtle	S3	SC	SC	SC	x	x	x
Chrysemys picta marginata	Midland Painted Turtle	S4				x	x	x
Emydoidea blandingii	Blanding's Turtle	S3	THR	END	THR	x	x	
Graptemys geographica	Northern Map Turtle	S3	SC	SC	SC	x		
Squamata	**Snakes**							
Lampropeltis triangulum	Milksnake	S4		SC	SC	x	x	x
Storeria occipitomaculata	Red-bellied snake	S5					x	x
Thamnophis sirtalis sirtalis	Eastern Gartersnake	S5					x	x
Caudata	**Salamanders**							
Ambystoma jeffersonianum	Jefferson Salamander	S2	END	END	END			x
Ambystoma laterale	Blue-spotted Salamander	S4					x	
Ambystoma maculatum	Spotted Salamander	S4					x	
Notophthalmus viridescens viridescens	Eastern Newt	S4?						x
Notophthalmus viridescens viridescens	Red-spotted Newt	S5					x	
Plethodon cinereus	Eastern Red-backed Salamander	S5					x	
Anura	**Frogs and Toads**							
Anaxyrus americanus	American Toad	S5					x	x
Hyla versicolor	Gray Treefrog	S5					x	x
Lithobates catesbeianus	American Bullfrog	S4					x	
Lithobates clamitans	Green Frog	S5					x	x
Lithobates palustris	Pickerel Frog	S4					x	
Lithobates pipiens	Northern Leopard Frog	S5					x	x
Lithobates sylvaticus	Wood Frog	S5					x	x
Pseudacris crucifer	Spring Peeper	S5					x	x
Pseudacris maculata	Boreal Chorus Frog	S5				x		
Total:						**6**	**18**	**13**

References:

Ontario Ministry of Natural Resources and Forestry (MNRF). 2023. *Natural Heritage Information Centre* . https://www.ontario.ca/page/natural-heritage-information-centre. Accessed June 2023.

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TABLE A3 Fish Species

Species Name		Conservation Rank				Source			
Scientific Name	Common Name	S-Rank	ESA	COSEWIC	SARA	NHIC	iNaturalist	DFO	LIO
Cypriniformes									
Clinostomus elongatus	Redside Dace	S2	END	END	END	x		x	x
Cyprinus carpio	Common Carp	SNA							x
Hybognathus hankinsoni	Brassy Minnow	S5							x
Nocomis micropogon	River Chub	S4					x		x
Notropis heterodon	Blackchin Shiner	S4							x
Notropis hudsonius	Spottail Shiner	S5							x
Notropis rubellus	Rosyface Shiner	S4					x		x
Chrosomus eos	Northern Redbelly Dace	S5							x
Pimephales notatus	Bluntnose Minnow	S5							x
Pimephales promelas	Fathead Minnow	S5							x
Rhinichthys atratulus	Blacknose Dace	S5					x		x
Rhinichthys cataractae	Longnose Dace	S5							x
Semotilus atromaculatus	Creek Chub	S5							x
Luxilus cornutus	Common Shiner	S5					x		x
Margariscus margarita	Pearl Dace	S5							x
Catostomus commersonii	White Sucker	S5							x
Hypentelium nigricans	Northern Hog Sucker	S4							x
Gasterosteiformes									
Culaea inconstans	Brook Stickleback	S5							x
Perciformes									
Ambloplites rupestris	Rock Bass	S5					x		x
Lepomis gibbosus	Pumpkinseed	S5							x
Lepomis macrochirus	Bluegill	S5							x
Micropterus salmoides	Largemouth Bass	S5							x
Pomoxis annularis	White Crappie	S4							x
Etheostoma caeruleum	Rainbow Darter	S4					x		x
Etheostoma exile	Iowa Darter	S5							x
Etheostoma flabellare	Fantail Darter	S4					x		x
Etheostoma nigrum	Johnny Darter	S5					x		x
Perca flavescens	Yellow Perch	S5							x

Species Name		Conservation Rank				Source			
Scientific Name	Common Name	S-Rank	ESA	COSEWIC	SARA	NHIC	iNaturalist	DFO	LIO
Petromyzontiformes									
Ichthyomyzon fossor	Northern Brook Lamprey	S3	SC	SC	SC				x
Lethenteron appendix	American Brook Lamprey	S3				x	x		x
Petromyzon marinus	Sea Lamprey	SNA							x
Salmoniformes									
Oncorhynchus mykiss	Rainbow Trout	SNA							x
Salvelinus fontinalis fontinalis	Brook Trout	S5					x		x
Scorpaeniformes									
Cottus bairdii	Mottled Sculpin	S5							x
Cottus cognatus	Slimy Sculpin	S5							x
Siluriformes									
Noturus flavus	Stonecat	S4							x
Ameiurus nebulosus	Brown Bullhead	S5							x
TOTAL:						**2**	**10**	**1**	**37**

TABLE A4 Mollusc Species

Species		Conservation Rank				Source		
Scientific Name	Common Name	Provincial (S-RANK)	Provincial (ESA)	National (COSEWIC)	National (SARA)	NHIC	iNaturalist	LIO
Unionidae								
Actinonaias ligamentina	Mucket	S4					x	
Anodontoides ferussacianus	Cylindrical Papershell	S4					x	
Lampsilis siliquoidea	Fatmucket	S5					x	
Lasmigona compressa	Creek Heelsplitter	S5					x	
Pyganodon grandis	Giant Floater	S5					x	
Helicidae								
Cepaea nemoralis	Grovesnail	SNA					x	
TOTAL:						**0**	**6**	**0**

TABLE A5 Mammal Species

Species Name		Conservation Ranking				Source			
Scientific Name	Common Name	S-RANK	ESA	COSEWIC	SARA	NHIC	Ontario Mammals	iNaturalist	Matrix Field Observations
Artiodactyla	**Deer and Bison**								
Odocoileus virginianus	White-tailed Deer	S5					x	x	
Carnivora	**Carnivores**								
Canis latrans	Coyote	S5						x	
Lontra canadensis	North American River Otter	S5					x	x	
Lynx rufus	Bobcat	S4					x		
Martes americana	American Marten	S5					x		
Mephitis mephitis	Striped Skunk	S5						x	
Mustela frenata	Long-tailed Weasel	S4					x		
Mustela nivalis	Least Weasel	SU					x		
Neogale vison	American Mink	S4					x	x	
Procyon lotor	Northern Raccoon	S5						x	
Taxidea taxus	American Badger	S2	END	SC, END	SC, END		x		
Ursus americanus	American Black Bear	S5					x		
Vulpes vulpes	Red Fox	S5					x	x	
Chiroptera	**Bats**								
Eptesicus fuscus	Big Brown Bat	S4					x		
Lasionycteris noctivagans	Silver-haired Bat	S4					x		
Lasiurus borealis	Red Bat	S4					x		
Lasiurus cinereus	Hoary Bat	S4					x		
Myotis leibii	Eastern Small-footed Myotis	S2/S3	END				x		
Myotis lucifugus	Little Brown Myotis	S4	END	END	END		x		
Myotis septentrionalis	Northern Myotis	S3	END	END	END		x		
Perimyotis subflavus	Tricolored Bat	S3	END	END	END		x		
Didelphimorphia	**Oppossums**								
Didelphis virginiana	Virginia Opossum	S4						x	
Lagomorphia	**Rabbits and Hares**								
Sylvilagus floridanus	Eastern Cottontail	S5					x	x	
Lepus americanus	Snowshoe Hare	S5					x		
Rodentia	**Rodents**								
Castor canadensis	Beaver	S5					x	x	
Erethizon dorsatum	Porcupine	S5					x	x	
Glaucomys sabrinus	Northern Flying Squirrel	S5					x		
Glaucomys volans	Southern Flying Squirrel	S4					x		
Microtus pennsylvanicus	Meadow Vole	S5					x		
Mus musculus	House Mouse	SNA					x		

Species Name		Conservation Ranking				Source			
Scientific Name	Common Name	S-RANK	ESA	COSEWIC	SARA	NHIC	Ontario Mammals	iNaturalist	Matrix Field Observations
Myodes gapperi	Southern Red-backed Vole	S5					x		
Napaeozapus insignis	Woodland Jumping Mouse	S5					x		
Ondatra zibethicus	Muskrat	S5					x	x	
Peromyscus leucopus	White-footed Mouse	S5					x		
Peromyscus maniculatus	Deer Mouse	S5					x		
Sciurus carolinensis	Grey Squirrel	S5					x	x	
Synaptomys cooperi	Southern Bog Lemming	S4					x		
Tamias striatus	Eastern Chipmunk	S5					x	x	
Tamiasciurus hudsonicus	Red Squirrel	S5					x	x	
Zapus hudsonius	Meadow Jumping Mouse	S5					x		
Soricomorpha									
Blarina brevicauda	Northern Short-tailed Shrew	S5					x		
Condylura cristata	Star-nosed Mole	S5					x	x	
Parascalops breweri	Hairy-tailed Mole	S4					x		
Sorex cinereus	Masked Shrew	S5					x		
Sorex hoyi	Pygmy Shrew	S4					x		
TOTAL:						**0**	**41**	**16**	**0**

Table A7. Botanical Species

COMMON NAME	BOTANICAL NAME	COEFFICIENT OF CONSERVATISM	WETNESS INDEX	WEEDINESS INDEX	INVASIVE SPECIES ONTARIO	PROVINCIAL RANK	ESA STATUS	COSEWIC STATUS (2016-08-19)	SARA STATUS (2016-08-19)	GLOBAL RANK	All Species	NHIC	iNaturalist
FERNS & ALLIES	**PTERIDOPHYTES**										x		o
Wood Fern Family	**Dryopteridaceae**										x		o
Northwestern Lady Fern	*Athyrium filix-femina*										x		x
Bulblet Fern	*Cystopteris bulbifera*	5	-3			S5				G5	x		x
Marginal Wood Fern	*Dryopteris marginalis*	5	3			S5				G5	x		x
Ostrich Fern	*Matteuccia struthiopteris*	5	0			S5				G5	x		x
Sensitive Fern	*Onoclea sensibilis*	4	-3			S5				G5	x		x
Horsetail Family	**Equisetaceae**										x		o
Dwarf Scouring-rush	*Equisetum scirpoides*	7	0			S5				G5	x		x
CONIFERS	**GYMNOSPERMS**										x		o
Cedar Family	**Cupressaceae**										x		o
Eastern White Cedar	*Thuja occidentalis*	4	-3			S5				G5	x		x
Pine Family	**Pinaceae**										x		o
Tamarack	*Larix laricina*	7	-3			S5				G5	x		x
Norway Spruce	*Picea abies*		5	-1		SNA				G5	x		x
White Spruce	*Picea glauca*	6	3			S5				G5	x		x
Black Spruce	*Picea mariana*	8	-3			S5				G5	x		x
Jack Pine	*Pinus banksiana*	5	3			S5				G5	x		x
Red Pine	*Pinus resinosa*	8	3			S5				G5	x		x
Eastern White Pine	*Pinus strobus*	4	3			S5				G5	x		x
Scots Pine	*Pinus sylvestris*		3	-3	2	SNA				GNR	x		x
Eastern Hemlock	*Tsuga canadensis*	7	3			S5				G5	x		x
DICOTS	**DICOTYLEDONS**										x		o
Maple Family	**Aceraceae**										x		o
Amur Maple	*Acer ginnala*		5	-2	4	SNA				G--TNR	x		x
Manitoba Maple	*Acer negundo*	0	0		1	S5				G5	x		x
Norway Maple	*Acer platanoides*		5	-3	2	SNA				GNR	x		x
Silver Maple	*Acer saccharinum*	5	-3			S5				G5	x		x
Sugar Maple	*Acer saccharum*	4	3			S5				G5	x		x
Sugar Maple	*Acer saccharum var. saccharum*										x		x
Sumac or Cashew Family	**Anacardiaceae**										x		o
Staghorn Sumac	*Rhus typhina*	1	3			S5				G5	x		x
Carrot or Parsley Family	**Apiaceae**										x		o
Bishop's Goutweed	*Aegopodium podagraria*		0	-3	1	SNA				GNR	x		x
Purplestem Angelica	*Angelica atropurpurea*	6	-5			S5				G5	x		x
Wild Carrot	*Daucus carota*		5	-2		SNA				GNR	x		x
Dogbane Family	**Apocynaceae**										x		o
Spreading Dogbane	*Apocynum androsaemifolium*	3	5			S5				G5	x		x
Common Periwinkle	*Vinca minor*		5	-2	2	SNA				GNR	x		x
Milkweed Family	**Asclepiadaceae**										x		o
Swamp Milkweed	*Asclepias incarnata*	6	-5			S5				G5	x		x
Swamp Milkweed	*Asclepias incarnata ssp. Incarnata*										x		x
Common Milkweed	*Asclepias syriaca*	0	5			S5				G5	x		x
European Swallow-wort	*Vincetoxicum rossicum*		5	-3	1	SNA				GNR	x		x
Composite or Aster Family	**Asteraceae**										x		o

Table A7. Botanical Species

COMMON NAME	BOTANICAL NAME	COEFFICIENT OF CONSERVATISM	WETNESS INDEX	WEEDINESS INDEX	INVASIVE SPECIES ONTARIO	PROVINCIAL RANK	ESA STATUS	COSEWIC STATUS (2016-08-19)	SARA STATUS (2016-08-19)	GLOBAL RANK	All Species	NHIC	iNaturalist
Common Ragweed	*Ambrosia artemisiifolia*	0	3			S5				G5	x		x
Great Burdock	*Arctium lappa*		3			SNA				GNR	x		x
White Panicled Aster	*Symphyotrichum lanceolatum*	3	-3			S5				G5	x		x
Calico Aster	*Symphyotrichum lateriflorum*	3	0			S5				G5	x		x
New England Aster	*Symphyotrichum novae-angliae*	2	-3			S5				G5	x		x
Oldfield Aster	*Symphyotrichum pilosum*		3			S5				G5T5	x		x
Nodding Beggar-ticks	*Bidens cernua*	2	-5			S5				G5	x		x
Nodding Thistle	*Carduus nutans*		3	-1	3	SNA				GNR	x		x
Brown Knapweed	*Centaurea jacea*		5	-1		SNA				GNR	x		x
Chicory	*Cichorium intybus*		5	-1		SNA				GNR	x		x
Canada Thistle	*Cirsium arvense*		3	-1	1	SNA				GNR	x		x
Bull Thistle	*Cirsium vulgare*		3	-1		SNA				GNR	x		x
Eastern Purple Coneflower	*Echinacea purpurea*	10	5			SNA				G4	x		x
Rough Fleabane	*Erigeron strigosus*	4	3			S5				G5	x		x
Boneset	*Eupatorium perfoliatum*	2	-3			S5				G5	x		x
White Snakeroot	*Ageratina altissima*										x		x
White Snakeroot	*Ageratina altissima var. altissima*	5	3			S5				G5T5	x		x
Spotted Joe-pye-weed	*Eutrochium maculatum*	3	-5			S5				G5	x		x
Grass-leaved Goldenrod	*Euthamia graminifolia*	2	0			S5				G5	x		x
Elecampane	*Inula helenium*		3	-2	4	SNA				GNR	x		x
Tall Blue Lettuce	*Lactuca biennis*	6	0			S5				G5	x		x
Wall Lettuce	*Mycelis muralis*		5	-1		SNA				GNR	x		x
Zig-zag Goldenrod	*Solidago flexicaulis*	6	3			S5				G5	x		x
Field Sow-thistle	*Sonchus arvensis*										x		x
Common Tansy	*Tanacetum vulgare*		5	-1		SNA				GNR	x		x
Common Dandelion	*Taraxacum officinale*		3	-2		SNA				G5	x		x
Coltsfoot	*Tussilago farfara*		3	-2		SNA				GNR	x		x
Rough Cocklebur	*Xanthium strumarium*	2	0			S5				G5	x		x
Touch-me-not Family	**Balsaminaceae**										x		o
Jewelweed	*Impatiens capensis*	4	-3			S5				G5	x		x
Pale Touch-me-not	*Impatiens pallida*	7	-3			S4				G5	x		x
Barberry Family	**Berberidaceae**										x		o
Common Barberry	*Berberis vulgaris*		3	-2	3	SNA				GNR	x		x
Giant Blue Cohosh	*Caulophyllum giganteum*	6	5			S4S5				G4G5	x		x
May-apple	*Podophyllum peltatum*	5	3			S5				G5	x		x
Birch Family	**Betulaceae**										x		o
Paper Birch	*Betula papyrifera*	2	2			S5				G5	x		x
Ironwood	*Ostrya virginiana*	4	4			S5				G5	x		x
Bignonia Family	**Bignoniaceae**										x		o
Trumpet Creeper	*Campsis radicans*	3	0			S2?				G5	x		x
Borage Family	**Boraginaceae**										x		o
Hound's-tongue	*Cynoglossum officinale*		5	-1		SNA				GNR	x		x
Mustard Family	**Brassicaceae**										x		o
Garlic Mustard	*Alliaria petiolata*		0	-3	1	SNA				GNR	x		x
Garden Yellowrocket	*Barbarea vulgaris*		0	-1	3	SNA				GNR	x		x

Table A7. Botanical Species

COMMON NAME	BOTANICAL NAME	COEFFICIENT OF CONSERVATISM	WETNESS INDEX	WEEDINESS INDEX	INVASIVE SPECIES ONTARIO	PROVINCIAL RANK	ESA STATUS	COSEWIC STATUS (2016-08-19)	SARA STATUS (2016-08-19)	GLOBAL RANK	All Species	NHIC	iNaturalist
Cut-leaved Toothwort	*Cardamine concatenata*	6	3			S5				G5	x		x
Crinkleroot	*Cardamine diphylla*	7	5			S5				G5	x		x
Wormseed Wallflower	*Erysimum cheiranthoides*		3	-1		SNA				G5	x		x
Dame's Rocket	*Hesperis matronalis*		5	-3	1	SNA				G4G5	x		x
Field Penny-cress	*Thlaspi arvense*		5	-1		SNA				GNR	x		x
Bellflower Family	**Lobelia**										x		o
Creeping Bellflower	*Campanula rapunculoides*		5	-2	4	SNA				GNR	x		x
Great Blue Lobelia	*Lobelia siphilitica*	6	-4			S5				G5	x		x
Honeysuckle Family	**Caprifoliaceae**										x		o
Northern Bush Honeysuckle	*Diervilla lonicera*	5	5			S5				G5	x		x
Twinflower	*Linnaea borealis*	7	0			S5				G5	x		x
Morrow's Honeysuckle	*Lonicera morrowii*		5	-1	1	SNA				GNR	x		x
European Cranberrybush	*Viburnum opulus*		0	-1		SNA				G5	x		x
Pink Family	**Caryophyllaceae**										x		o
Deptford Pink	*Dianthus armeria*		5	-1		SNA				GNR	x		x
Rose Campion	*Silene coronaria*		5	-1		SNA				GNR	x		x
Bouncing-bet	*Saponaria officinalis*		3	-3	3	SNA				GNR	x		x
Red Catchfly	*Silene dioica*										x		x
Staff-tree Family	**Celastraceae**										x		o
American Bittersweet	*Celastrus scandens*	3	3			S5				G5	x		x
Winged Spindle Tree	*Euonymus alatus*		5	-1	3	SNA				GNR	x		x
Winter Creeper	*Euonymus fortunei*		5	-1		SNA				GNR	x		x
Running Strawberry-bush	*Euonymus obovatus*	6	5			S4				G5	x		x
Morning-glory Family	**Convolvulaceae**										x		o
Field Bindweed	*Convolvulus arvensis*		5	-1	3	SNA				GNR	x		x
Dogwood Family	**Cornaceae**										x		o
Alternate-leaved Dogwood	*Cornus alternifolia*	6	5			S5				G5	x		x
Silky Dogwood	*Cornus amomum*	5	-4			S5				G5	x		x
Silky Dogwood	*Cornus amomum ssp. obliqua*										x		x
Bunchberry Dogwood	*Cornus canadensis*	7	0			S5				G5	x		x
Red-osier Dogwood	*Cornus sericea*	2	-3			S5				G5	x		x
Gourd Family	**Cucurbitaceae**										x		o
Wild Cucumber	*Echinocystis lobata*	3	-2			S5				G5	x		x
Teasel Family	**Dipsacaceae**										x		o
Fuller's Teasel	*Dipsacus fullonum*		5	-1	3	SNA				GNR	x		x
Oleaster Family	**Elaeagnaceae**										x		o
Autumn Olive	*Elaeagnus umbellata*		3	-3	1	SNA				GNR	x		x
Heath Family	**Ericaceae**										x		o
Creeping Snowberry	*Gaultheria hispidula*	8	-3			S5				G5	x		x
Wintergreen	*Gaultheria procumbens*	6	3			S5				G5	x		x
Labrador-tea	*Rhododendron groenlandicum*	9	-5			S5				G5	x		x
Spurge Family	**Euphorbiaceae**										x		o
Madwoman's Milk	*Euphorbia helioscopia*		5	-1		SNA				G5	x		x
Pea Family	**Fabaceae**										x		o
Hog Peanut	*Amphicarpaea bracteata*	4	0			S5				G5	x		x
Blue Wild Indigo	*Baptisia australis*					SNA				G5	x		x

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COMMON NAME	BOTANICAL NAME	COEFFICIENT OF CONSERVATISM	WETNESS INDEX	WEEDINESS INDEX	INVASIVE SPECIES ONTARIO	PROVINCIAL RANK	ESA STATUS	COSEWIC STATUS (2016-08-19)	SARA STATUS (2016-08-19)	GLOBAL RANK	All Species	NHIC	iNaturalist
Honey Locust	*Gleditsia triacanthos*	3	0			S2?				G5	x		x
Bird's-foot Trefoil	*Lotus corniculatus*		1	-2	2	SNA				GNR	x		x
White Sweet-clover	*Melilotus albus*		3	-3	2	SNA				G5	x		x
Black Locust	*Robinia pseudoacacia*		4	-3	2	SNA				G5	x		x
Strawberry Clover	*Trifolium fragiferum*										x		x
Red Clover	*Trifolium pratense*		2	-2	4	SNA				GNR	x		x
White Clover	*Trifolium repens*		2	-1	4	SNA				GNR	x		x
Cow Vetch	*Vicia cracca*		5	-1	2	SNA				GNR	x		x
Beech Family	**Fagaceae**										x		o
American Beech	*Fagus grandifolia*	6	3			S4				G5	x		x
Bur Oak	*Quercus macrocarpa*	5	1			S5				G5	x		x
Fumitory Family	**Fumariaceae**										x		o
Squirrel-corn	*Dicentra canadensis*	7	5			S5				G5	x		x
Geranium Family	**Geraniaceae**										x		o
Herb-robert	*Geranium robertianum*		5	-2		S5				G5	x		x
Currant Family	**Grossulariaceae**										x		o
American Black Currant	*Ribes americanum*	4	-3			S5				G5	x		x
Red Currant	*Ribes rubrum*		5	-2		SNA				G4G5	x		x
St. John's-wort Family	**Guttiferae**										x		o
Common St. John's-wort	*Hypericum perforatum*		5	-3	4	SNA				GNR	x		x
Witch-hazel Family	**Hamamelidaceae**										x		o
Witch-hazel	*Hamamelis virginiana*	6	3			S4S5				G5	x		x
Water-leaf Family	**Hydrophyllaceae**										x		o
Virginia Water-leaf	*Hydrophyllum virginianum*	6	-2			S5				G5	x		x
Walnut Family	**Juglandaceae**										x		o
Bitternut Hickory	*Carya cordiformis*	6	0			S5				G5	x		x
Butternut	*Juglans cinerea*	6	2			S2?	END	END	END	G4	x		x
Black Walnut	*Juglans nigra*	5	3			S4?				G5	x		x
Mint Family	**Lamiaceae**										x		o
Wild Basil	*Clinopodium vulgare*	4	5			S5				G5	x		x
Ground Ivy	*Glechoma hederacea*		5	-2	4	SNA				GNR	x		x
Spotted Dead-nettle	*Lamium maculatum*					SNA				GNR	x		x
Common Motherwort	*Leonurus cardiaca*										x		x
Common Motherwort	*Leonurus cardiaca ssp. cardiaca*		5	-2		SNA				GNRTNR	x		x
American Water-horehound	*Lycopus americanus*	4	-5			S5				G5	x		x
Catnip	*Nepeta cataria*		1	-2	4	SNA				GNR	x		x
Oregano	*Origanum vulgare*		5	-2	4	SNA				GNR	x		x
Marsh Hedge-nettle	*Stachys palustris*		-5	-1		SNA				G5	x		x
Indian Pipe Family	**Monotropaceae**										x		o
Indian-pipe	*Monotropa uniflora*	6	3			S5				G5	x		x
Water-lily Family	**Nymphaeaceae**										x		o
Variegated Pond-lily	*Nuphar variegata*	4	-5			S5				G5	x		x
Olive Family	**Oleaceae**										x		o
White Ash	*Fraxinus americana*	4	3			S4				G5	x		x
Black Ash	*Fraxinus nigra*	7	-4			S4				G5	x		x
Evening-primrose Family	**Onagraceae**										x		o

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Canada Enchanter's Nightshade	*Circaea canadensis*	3	3			S5				G5	x		x
Hairy Willow-herb	*Epilobium ciliatum*										x		x
Broom-rape Family	**Orobanchaceae**										x		o
Squawroot	*Conopholis americana*	9	5			S4				G5	x		x
Poppy Family	**Papaveraceae**										x		o
Bloodroot	*Sanguinaria canadensis*	5	4			S5				G5	x		x
Lopseed Family	**Phrymaceae**										x		o
American Lopseed	*Phryma leptostachya*	6	5			S4S5				G5	x		x
Plantain Family	**Plantaginaceae**										x		o
Common Plantain	*Plantago major*		-1	-1		SNA				G5	x		x
Rugel's Plaintain	*Plantago rugelii*	1	0			S5				G5	x		x
Purslane Family	**Portulacaceae**										x		o
Carolina Spring Beauty	*Claytonia caroliniana*	7	3			S5				G5	x		x
Virginia Spring Beauty	*Claytonia virginica*	5	3			S5				G5	x		x
Primrose Family	**Primulaceae**										x		o
Creeping Jenny	*Lysimachia nummularia*		-4	-3	2	SNA				GNR	x		x
Tufted Loosestrife	*Lysimachia thyrsiflora*	7	-5			S5				G5	x		x
Buttercup Family	**Ranunculaceae**										x		o
White Baneberry	*Actaea pachypoda*	6	5			S5				G5	x		x
Red Baneberry	*Actaea rubra*	5	5			S5				G5	x		x
Sharp-lobed Hepatica	*Anemone acutiloba*	6	5			S5				G5	x		x
Wild Columbine	*Aquilegia canadensis*	5	1			S5				G5	x		x
Yellow Marsh-marigold	*Caltha palustris*	5	-5			S5				G5	x		x
Virginia Virgin's-bower	*Clematis virginiana*	3	0			S5				G5	x		x
Yellow Goldthread	*Coptis trifolia*	7	-3			S5				G5	x		x
Tall Buttercup	*Ranunculus acris*		-2	-2		SNA				G5	x		x
Hooked Buttercup	*Ranunculus recurvatus*										x		x
Buckthorn Family	**Rhamnaceae**										x		o
Common Buckthorn	*Rhamnus cathartica*		3	-3	1	SNA				GNR	x		x
Glossy Buckthorn	*Frangula alnus*		-1	-3		SNA				GNR	x		x
Rose Family	**Rosaceae**										x		o
Woodland Strawberry	*Fragaria vesca*										x		x
Woodland Strawberry	*Fragaria vesca ssp. americana*	4	4			S5				G5T5	x		x
Yellow Avens	*Geum aleppicum*	2	-1			S5				G5	x		x
Catling's Avens	*Geum X catlingii*					SNA				GNA	x		x
Rough-fruited Cinquefoil	*Potentilla recta*		5	-2		SNA				GNR	x		x
Black Cherry	*Prunus serotina*	3	3			S5				G5	x		x
Choke Cherry	*Prunus virginiana*	2	1			S5				G5	x		x
Multiflora Rose	*Rosa multiflora*		3	-3	1	SNA				GNR	x		x
Madder Family	**Rubiaceae**										x		o
Yellow Spring Bedstraw	*Galium verum*		5	-1	3	SNA				GNR	x		x
Willow Family	**Salicaceae**										x		o
Trembling Aspen	*Populus tremuloides*	2	0			S5				G5	x		x
Weeping Willow	*Salix X sepulcralis*					hyb				GNA	x		x
Saxifrage Family	**Saxifragaceae**										x		o
Naked Mitrewort	*Mitella nuda*	6	-3			S5				G5	x		x

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Ditch Stonecrop	*Penthorum sedoides*	4	-5			S5				G5	x		x
Figwort Family	**Scrophulariaceae**										x		o
White Turtlehead	*Chelone glabra*	7	-5			S5				G5	x		x
Butter-and-eggs	*Linaria vulgaris*		5	-1	4	SNA				GNR	x		x
Allegheny Monkey-flower	*Mimulus ringens*	6	-5			S5				G5	x		x
Foxglove Beard-tongue	*Penstemon digitalis*	6	1			SNA				G5	x		x
Common Mullein	*Verbascum thapsus*		5	-2		SNA				GNR	x		x
Thyme-leaved Speedwell	*Veronica serpyllifolia*	0	-3			SNA?				G5	x		x
Nightshade Family	**Solanaceae**										x		o
Jimsonweed	*Datura stramonium*		5	-1		SNA				GU	x		x
Bittersweet Nightshade	*Solanum dulcamara*		0	-2	3	SNA				GNR	x		x
Mezereum Family	**Thymelaeaceae**										x		o
Paradise Plant	*Daphne mezereum*				4	SNA				GNR	x		x
Eastern Leatherwood	*Dirca palustris*	7	0			S4				G4	x		x
Mezereon	*Thymelaea passerina*		5	-1		SNA				GNR	x		x
Linden Family	**Tiliaceae**										x		o
American Basswood	*Tilia americana*	4	3			S5				G5	x		x
Elm Family	**Ulmaceae**										x		o
Common Hackberry	*Celtis occidentalis*	8	1			S4				G5	x		x
American Elm	*Ulmus americana*	3	-2			S5				G5	x		x
Nettle Family	**Urticaceae**										x		o
Canadian Wood Nettle	*Laportea canadensis*	6	-3			S5				G5	x		x
Garden Valerian	*Valeriana officinalis*		2	-1		SNA				GNR	x		x
Vervain Family	**Verbenaceae**										x		o
Blue Vervain	*Verbena hastata*	4	-4			S5				G5	x		x
White Vervain	*Verbena urticifolia*	4	-1			S5				G5	x		x
Violet Family	**Violaceae**										x		o
Downy Yellow Violet	*Viola pubescens*	5	4			S5				G5	x		x
Long-spurred Violet	*Viola rostrata*	6	3			S5				G5	x		x
Woolly Blue Violet	*Viola sororia*	4	1			S5				G5	x		x
Grape Family	**Vitaceae**										x		o
Riverbank Grape	*Vitis riparia*	0	-2			S5				G5	x		x
MONOCOTS	**MONOCOTYLEDONS**										x		o
Arum Family	**Araceae**										x		o
Jack-in-the-pulpit	*Arisaema triphyllum*	5	-2			S5				G5	x		x
Sedge Family	**Cyperaceae**										x		o
Foxtail Sedge	*Carex alopecoidea*	6	-4			S5				G5	x		x
Oval-leaf Sedge	*Carex cephalophora*	5	3			S5				G5	x		x
Crested Sedge	*Carex cristatella*	3	-4			S5				G5	x		x
Retrorse Sedge	*Carex retrorsa*	5	-5			S5				G5	x		x
Tuckerman's Sedge	*Carex tuckermanii*	7	-5			S4				G4	x		x
Iris Family	**Iridaceae**										x		o
Yellow Iris	*Iris pseudacorus*		-5	-2	4	SNA				GNR	x		x
Rush Family	**Juncaceae**										x		o
Jointed Rush	*Juncus articulatus*	5	-5			S5				G5	x		x
Lily Family	**Liliaceae**										x		o

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Wild Leek	*Allium tricoccum*	7	2			S4				G5	x		x
Bluebead Lily	*Clintonia borealis*	7	-1			S5				G5	x		x
European Lily-of-the-valley	*Convallaria majalis*		5	-2	3	SNA				G5	x		x
Yellow Trout-lily	*Erythronium americanum*	5	5			S5				G5	x		x
Orange Day-lily	*Hemerocallis fulva*		5	-3		SNA				GNA	x		x
Michigan Lily	*Lilium michiganense*	7	-1			S5				G5	x		x
Canada Mayflower	*Maianthemum canadense*	5	0			S5				G5	x		x
Starry False Solomon's Seal	*Maianthemum stellatum*	6	1			S5				G5	x		x
Hairy Solomon's Seal	*Polygonatum pubescens*	5	5			S5				G5	x		x
Siberian Squill	*Scilla siberica*		5	-1	2	SNA				GNR	x		x
Red Trillium	*Trillium erectum*	6	1			S5				G5	x		x
White Trillium	*Trillium grandiflorum*	5	5			S5				G5	x		x
Orchid Family	**Orchidaceae**										X		o
Autumn Coral-root	*Corallorhiza odontorhiza*	8	5			S2				G5	x		x
Early Coral-root	*Corallorhiza trifida*	7	-2			S5				G5	x		x
Broadleaf Helleborine	*Epipactis helleborine*		5	-2		SNA				GNR	x		x
Heartleaf Twayblade	*Neottia cordata*	8	-3			S5?				G5	x		x
Grass Family	**Poaceae**										X		o
Smooth Brome	*Bromus inermis*		5	-3	4	SNA				G5TNR	x		x
Orchard Grass	*Dactylis glomerata*		3	-1	3	SNA				GNR	x		x
Foxtail Grass	*Hordeum jubatum*					SNA				G5T5	x		x
Amur Silver Grass	*Miscanthus sacchariflorus*		5	-1		SNA				GNR	x		x
Fall Panic Grass	*Panicum dichotomiflorum*		-2	-1		SNA				G5	x		x
Common Reed	*Phragmites australis*	0	-4			SNA				G5T5	x		x
European Reed	*Phragmites australis ssp. australis*		-4	-3	1						x		x
Purple False Melic	*Schizachne purpurascens*										x		x
Bur-reed Family	**Sparganiaceae**										X		o
Stemless Bur-reed	*Sparganium emersum*	5	-5			S5				G5	x		x

Legend	
S-Rank	**Committee on the Status of Engangered Wildlife in Canada (COSEWIC)**
S1 - Critically Imperiled	NAR - not at risk
S2 - Imperiled	SC - special concern
S3 - Vulnerable	THR - threatened
S4 - Apparently Secure	END - endangered
S5 - Secure	EXT - extinct
SU - Unrankable	EXP - extirpated
SNA - Unranked	DD - data deficient
SX - Presumed Extirpated	
SH - Possibly Extirpated	
S#? - Rank Uncertain	

Committee on the Status of Species at Risk in Ontario (COSSARO)	***Species at Risk Act*** **(SARA) Schedule**
NAR - not at risk	Schedule 1 Officially protected under SARA
SC - special concern	Schedule 2 Threatened/endangered; may be reassessed for consideration for inclusion to Schedule 1
THR - threatened	Schedule 3 Special concern; may be reassessed for consideration for inclusion to Schedule 1
END - endangered	
EXP - extirpated	
DD - data deficient	

Endangered Species Act **(ESA)**	**Notes**
SC - special concern	NHIC - Natural Heritage Information Centre
THR - threatened	OBBA - Ontario Breeding Bird Atlas
END - endangered	
EXT - extinct	
EXP - extirpated	

APPENDIX B
Species at Risk Habitat Screening

TABLE B1 Species at Risk Habitat Screening

Common Name	Scientific Name	ESA Designation	SARA Designation	Potential For Presence Within Study Area?	Habitat Requirement
Aquatic					
Redside Dace	*Clinostomus elongatus*	END	END	Yes, presence and critical habitat for this species have been mapped by DFO within the study area.	"Found in pools and slow-moving areas of small streams and headwaters with a gravel bottom. They are generally found in areas with overhanging grasses and shrubs. During spawning, they can be found in shallow parts of streams, which are also popular spawning areas for other minnow species." (MECP 2021)
Avian					
Bank Swallow	*Riparia riparia*	THR	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Bank swallows nest in burrows in natural and human-made settings where there are vertical faces in silt and sand deposits. Many nests are on banks of rivers and lakes, but they are also found in active sand and gravel pits or former ones where the banks remain suitable." (MECP 2021)
Bobolink	*Dolichonyx oryzivorus*	THR	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"large, open expansive grasslands with dense ground cover; hayfields, meadows or fallow fields; marshes; requires tracts of grassland >50 ha" (MECP 2021)
Cerulean Warbler	*Setophaga cerulea*	THR	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Spends breeding season in mature, deciduous forests with large, tall trees and an open under storey." (MECP 2021)
Eastern Meadowlark	*Sturnella magna*	THR	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Breed primarily in moderately tall grasslands, such as pastures and hayfields, but are also found in alfalfa fields, weedy borders of croplands, roadsides, orchards, airports, shrubby overgrown fields, or other open areas. Small trees, shrubs or fence posts are used as elevated song perches." (MECP 2021)
Eastern Whip-poor-will	*Antrotomus vociferous*	THR	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Usually found in areas with a mix of open and forested areas, such as savannahs, open woodlands or openings in more mature, deciduous, coniferous and mixed forests. It forages in these open areas and uses forested areas for roosting (resting and sleeping) and nesting. It lays its eggs directly on the forest floor, where its colouring means it will easily remain undetected by visual predators." (MECP 2021)
Least Bittern	*Ixobrychus exilis*	THR	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Found in a variety of wetland habitats, but strongly prefers cattail marshes with a mix of open pools and channels. This bird builds its nest above the marsh water in stands of dense vegetation, hidden among the cattails. The nests are almost always built near open water, which is needed for foraging. This species eats mostly frogs, small fish, and aquatic insects." (MECP 2021)
Loggerhead Shrike	*Lanius ludovicianus*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Prefers pasture or other grasslands with scattered low trees and shrubs. It lives in fields or alvars (areas of exposed bedrock) with short grass, which makes it easier to spot prey. It builds its nest in small trees or shrubs and hunts by waiting patiently in tree branches until it swoops down and attacks its unsuspecting prey – usually large insects, such as grasshoppers. Loggerhead shrikes also require spiny, multi-branched shrubs where they can impale prey before eating it. Barbed wired fencing can also be used for this." (MECP 2021)
Louisiana Waterthrush	*Parkesia motacilla*	THR	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Usually found in steep, forested ravines with fast-flowing streams. Although it prefers running water, especially clear, coldwater streams, it also less frequently inhabits heavily wooded, deciduous swamps having large pools of open water. It nests among the roots of fallen trees, in niches of stream banks, and in or under mossy logs." (MECP 2021)
Prothonotary Warbler	*Protonotaria citrea*	END	END	No, the study area is outside of the known or anticipated range for this species.	"The Prothonotary warbler nests in small, shallow holes, found low in the trunks of dead or dying trees standing in or near flooded woodlands or swamps. F24They will also readily use properly placed artificial nest boxes. Silver maple, ash, and yellow birch are common trees in these habitats**.** The Prothonotary is the only warbler in eastern North America that nests in tree cavities, where it typically lays four to six eggs on a cushion of moss, leaves and plant fibres." Only known to nest in southwestern Ontario, primarily along the north shore of Lake Erie. Over half of the small and declining population is found in Rondeau Provincial Park (MECP 2023)
Red-headed Woodpecker	*Melanerpes erythrocephalus*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Found across southern Ontario. The Red-headed Woodpecker lives in open woodland and woodland edges, and is often found in parks, golf courses and cemeteries. These areas typically have many dead trees, which the bird uses for nesting and perching. A few of these birds will stay the winter in woodlands in southern Ontario if there are adequate supplies of nuts." (MECP 2021)
Short-eared Owl	*Asio flammeus*	THR	SC	No, the study area is outside of the known or anticipated range for this species.	"The Short-eared Owl lives in open areas such as grasslands, marshes and tundra where it nests on the ground and hunts for small mammals, especially voles. In Ontario, the species is widely distributed. The majority of Ontario observations during the breeding season occur in the James Bay and Hudson Bay Lowlands. The species has become an increasingly rare and irregular breeder in southern Ontario, primarily associated with remnant habitat near Kingston, the lower Ottawa River, the Niagara Peninsula, Sault Ste. Marie Most northern populations are migratory, moving southward in the winter to the Carolinian zone and the Kingston region. Of particular importance are Long Point, Haldimand County, Amherst Island, Wolfe Island." (MECP 2023)

Common Name	Scientific Name	ESA Designation	SARA Designation	Potential For Presence Within Study Area?	Habitat Requirement
Flora					
Blue Ash	*Fraxinus quadrangulata*	THR	SC	No, the study area is outside of the known or anticipated range for this species.	"In Ontario, Blue Ash grows in deciduous floodplain forests, and along sandy beaches and on limestone outcrops associated with Lake Erie. The range of Blue Ash extends from southwestern Ontario south to Oklahoma and Georgia. In Canada, it occurs only in southwestern Ontario, at the northern limits of its range, where about 56 occurrences are known." (MECP 2021)
Butternut	*Juglans cinerea*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"usually grows alone or in small groups in deciduous forests. It prefers moist, well-drained soil and is often found along streams. It is also found on well-drained gravel sites and rarely on dry rocky soil.This species does not do well in the shade, and often grows in sunny openings and near forest edges." (MECP 2021).
Herpetofauna					
Blanding's Turtle	*Emydoidea blandingii*	THR	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Live in shallow water, usually in large wetlands and shallow lakes with lots of water plants. Not unusual, though, to find thme hundreds of metres from the nearest water body, especially while they are searching for a mate or travelling to a nesting site. Blanding's Turtles hibernate in the mud at the bottom of permanent water bodies from late October until the end of April." (MECP 2021)
Jefferson Salamander	*Ambystoma jeffersonianum*	END	END	Yes, suitable habitat anticipated to be present in natural areas associated with the Niagara Penninsula	"Adults live in moist, loose soil, under logs or in leaf litter. Your best chance of spotting a Jefferson salamander is in early spring when they travel to woodland ponds to breed." (MECP 2021)
Insects					
Rapids Clubtail	*Phanogomphus quadricolor*	THR	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Typically found in clear, cool medium-to-large rivers with gravel shallows and muddy pools. Larvae occupy quiet muddy pools. Adult males perch on exposed rocks and other projections on the rapids. Males are quite territorial and make short flights over the water, repeatedly returning to the same perch. Adult femails typically inhabit forests along riverbanks, and only visit shallows and pools when they are ready to mate and lay eggs." (MECP 2021)
Mammals					
American Badger	*Taxidea taxus jacksoni*	END	END	No, the study area is outside of the known or anticipated range for this species.	Tallgrass prairie, sand barrens, farmland, shrubland, alpine areas and wetlands. Requires coherent soils that can be burrowed into without collapsing.
Eastern Small-footed Myotis	*Myotis leibii*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"In the spring and summer, eastern small-footed bats will roost in a variety of habitats, including in or under rocks, in rock outcrops, in buildings, under bridges, or in caves, mines, or hollow trees. These bats often change their roosting locations every day. At night, they hunt for insects to eat, including beetles, mosquitos, moths, and flies. In the winter, these bats hibernate, most often in caves and abandoned mines. They seem to choose colder and drier sites than similar bats and will return to the same spot each year." (MECP 2021)
Little Brown Myotis	*Myotis lucifugus*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"During the day they roost in trees and buildings. They often select attics, abandoned buildings and barns for summer colonies where they can raise their young. Bats can squeeze through very tiny spaces (as small as six millimetres across) and this is how they access many roosting areas. Little brown bats hibernate from October or November to March or April, most often in caves or abandoned mines that are humid and remain above freezing." (MECP 2021)
Northern Myotis	*Myotis septentrionalis*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Associated with boreal forests, choosing to roost under loose bark and in the cavities of trees. These bats hibernate from October or November to March or April, most often in caves or abandoned mines." (MECP 2021)
Tricolored Bat	*Perimyotis subflavus*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"During the summer, the Tri-colored Bat is found in a variety of forested habitats. It forms day roosts and maternity colonies in older forest and occasionally in barns or other structures. They forage over water and along streams in the forest. Tri-colored Bats eat flying insects and spiders gleaned from webs. At the end of the summer they travel to a location where they swarm; it is generally near the cave or underground location where they will overwinter. They overwinter in caves where they typically roost by themselves rather than part of a group." (MECP 2021)
Eastern Red Bat	*Lasiurus borealis*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	Uses treed habitats for roosting and foraging, with a particularly strong dependence on trees as roosting sites, but can also use shrubs. Roost by hanging from branches. Foraging habitats are less well known, but likely include the area above aquatic habitats, low-elevation meadows, grasslands, and fields, as well as open-canopied forest, the area above forest canopies, and forest edges. Use both deciduous and coniferous forests, of any age class. Trees used as maternity roosts by Hoary Bats and Eastern Red Bats tend to be large diameter and tall, reaching or exceeding the height of the surrounding canopy. Non-foliage roosts are occasionally used and include shrubs, bridges, and the sides of buildings. Commonly exhibits roost switching
Hoary Bat	*Lasiurus cinereus*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	Uses treed habitats for roosting and foraging, with a particularly strong dependence on trees as roosting sites, but can also use shrubs. Roost by hanging from branches. Foraging habitats are less well known, but likely include the area above aquatic habitats, low-elevation meadows, grasslands, and fields, as well as open-canopied forest, the area above forest canopies, and forest edges. Use both deciduous and coniferous forests, of any age class. Trees used as maternity roosts by Hoary Bats and Eastern Red Bats tend to be large diameter and tall, reaching or exceeding the height of the surrounding canopy. Non-foliage roosts are occasionally used and include shrubs, bridges, and the sides of buildings. Commonly exhibits roost switching

Common Name	Scientific Name	ESA Designation	SARA Designation	Potential For Presence Within Study Area?	Habitat Requirement
Silver-haired Bat	*Lasionycteris noctivagans*	END	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	Uses treed habitats for roosting and foraging, with a particularly strong dependence on trees as roosting sites, but can also use shrubs. Roost by hanging from branches. Foraging habitats are less well known, but likely include the area above aquatic habitats, low-elevation meadows, grasslands, and fields, as well as open-canopied forest, the area above forest canopies, and forest edges. Use both deciduous and coniferous forests, of any age class. Trees used as maternity roosts by Hoary Bats and Eastern Red Bats tend to be large diameter and tall, reaching or exceeding the height of the surrounding canopy. Non-foliage roosts are occasionally used and include shrubs, bridges, and the sides of buildings. Commonly exhibits roost switching

Notes:
END - endangered
ESA - *Endangered Species Act*
SARA - *Species at Risk Act*
SC - special concern
THR - threatened

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APPENDIX C
Species of Conservation Concern Habitat Screening

TABLE C1 Species of Conservation Concern Habitat Screening

Common Name	Scientific Name	ESA Designation	SARA Designation	Potential for Presence within the Study Area?	Habitat Requirement
Aquatic					
Northern Lamprey	*Ichythyomyzon fosser*	SC	SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"The Northern Brook Lamprey inhabits clear, coolwater streams. The larval stage requires soft substrates such as silt and sand for burrowing which are often found in the slow-moving portions of a stream. Adults are found in areas associated with spawning, including fast flowing riffles comprised of rock or gravel. Spawning occurs in May and June. The males construct small, often inconspicuous, nests by picking up pebbles with their mouths and moving them to form the rims of shallow depressions. The sticky eggs are deposited in the nest and adhere to the substrate." (MECP 2023)
Silver Lamprey	*Ichythyomyzon unicuspis*	SC	SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"require clear water so they can find fish hosts, relatively clean stream beds of sand and organic debris for larvae to live in, and unrestricted migration routes for spawning." (MECP 2021)
Avian					
Barn Swallow	*Hirundo rustica*	SC	SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Build their cup-shaped mud nests almost exclusively on human-made structures such as open barns, under bridges and in culverts. When building nests they are attracted to open structures with ledges and have a preference for unpainted, rough-cut wood surfaces." (MECP 2021)
Canada Warbler	*Cardellina canadensis*	SC	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Its primary breeding range is in the Boreal Shield, extending north into the Hudson Plains and south into the Mixedwood Plains. Although the Canada Warbler breeds at low densities across its range, in Ontario, it is most abundant along the Southern Shield. They breed in a range of deciduous and coniferous, usually wet forest types, all with a well- developed, dense shrub layer. Dense shrub and understory vegetation help conceal Canada Warbler nests that are usually located on or near the ground on mossy
Eastern Wood-pewee	*Contopus virens*	SC	SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Lives in the mid-canopy layer of forest clearings and edges of deciduous and mixed forests. It is most abundant in intermediate-age mature forest stands with little understory vegetation. The eastern wood-pewee is found across most of southern and central Ontario, and in northern Ontario as far north as Red Lake, Lake Nipigon and Timmins." (MECP 2021)
Golden-winged Warbler	*Vermivora chrysoptera*	SC	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Golden-winged Warblers prefer to nest in areas with young shrubs surrounded by mature forest – locations that have recently been disturbed, such as field edges, hydro or utility right-of-ways, or logged areas." (MECP 2023)
Grasshopper Sparrow	*Ammodramus savannarum*	SC	SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"It lives in open grassland areas with well-drained, sandy soil. It will also nest in hayfields and pasture, as well as alvars, prairies and occasionally grain crops such as barley. It prefers areas that are sparsely vegetated. It is most common where grasslands, hay or pasture dominate the landscape." (MECP 2021)
Wood Thrush	*Hylocichla mustelina*	SC	THR	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	“Carolinian and Great Lakes-St. Lawrence forest zones; undisturbed moist mature deciduous or mixed forest with deciduous sapling growth; near pond or swamp; hardwood forest edges; must have some trees higher than 12 m” (MECP 2021).
Herpetofauna					
Northern Map Turtle	*Graptemys geographica*	SC	SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Inhabits rivers and lakeshores where it basks on emergent rocks and fallen trees throughout the spring and summer. In winter, the turtles hibernate on the bottom of deep, slow-moving sections of river. They require high-quality water that supports the female’s mollusc prey. Their habitat must contain suitable basking sites, such as rocks and deadheads, with an unobstructed view from which a turtle can drop immediately into the water if startled." (MECP 2021)
Snapping Turtle	*Chelydra serpentina*	SC	SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"They prefer shallow waters where they can hide under the soft mud and leaf litter. Suitable nesting sites are usually gravelly or sandy areas along streams. Snapping Turtles often take advantage of man-made structures for nest sites, including roads (especially gravel shoulders), dams and aggregate pits." (MECP 2021)

Common Name	Scientific Name	ESA Designation	SARA Designation	Potential for Presence within the Study Area?	Habitat Requirement
Insects					
American Bumble Bee	Bombus pensylvanicus		SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	
Monarch	*Danaus plexippus*	SC	END	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"Only the caterpillars feed on milkweed plants and are confined to meadows and open areas where milkweed grows. Adult butterflies can be found in more diverse habitats where they feed on nectar from a variety of wildflowers."
Yellow-banded Bumble Bee	*Bombus terricola*	SC	SC	Yes, suitable habitat anticipated to be present and the study area is within the known range of this species.	"It can be found in mixed woodlands, particularly for nesting and overwintering, as well as a variety of open habitat such as native grasslands, farmlands and urban areas. Nest sites are often underground in abandoned rodent burrows or decomposing logs." (MECP 2021)

Notes:
END - endangered
ESA - *Endangered Species Act*
NAR - not at risk
SARA - *Species at Risk Act*
SC - special concern
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APPENDIX D
Ecological Land Classification

TABLE D1 Ecological Land Classification List

ELC Code	ELC Name
AGR	Agrigulture
BBO1	Mineral Open Beach
BBO1-1	Sea Rocket Open Sand Beach
BBO1-2	Wormwood Open Gravel Beach
BBO1-3	Reed Canary Grass Riparian Bar
BBO1-A	Open Riparian Sand / Gravel Bar
BBO2-A	Rubble Open Shoreline
BBO2-B	Rubble Open Riparian Bank
BBO3-B	Constructed Channel - Sluiceway
BBS1-2A	Willow Shrub Beach
BBS1-2B	Willow Shrub Riparian Bar
BBS1-A	Red Osier Dogwood Shrub Beach
BBS2-1B	Rock Fragment Willow Shrub Riparian Bar
BBT1-A	Mineral Treed Beach
BBT1-B	Mineral Treed Riparian Bar
BBT2-A	Rubble Treed Shoreline
BBT2-B	Rubble Treed Riparian Bank
BLO1	Mineral Open Bluff
BLO1-1	Open Clay Buff Type
BLS1	Mineral Shrub Bluff Ecosite
BLS1-A	Sumach - Willow - Cherry Shrub Bluff
BLS1-B	Serviceberry - Buffaloberry Shrub Bluff
BLS1-c	Exotic Shrub Bluff
BLT1-A	White Cedar Treed Bluff
BLT1-B	Deciduous Treed Bluff
BLT1-c	Exotic Treed Bluff
BOS2-1	Leatherleaf Shrub Kettle Bog
BOT2-1	Tamarack - Leatherleaf Treed Kettle Bog
BOT2-1A	White Pine - Red Maple - Birch - Leatherleaf Treed Kettle Bog
CBO1	Open Clay Barren
CBS1	Deciduous Shrub Clay Barren
CBS1-A	Juniper Shrub Clay Barren
CBT1-A	White Cedar Low Treed Clay Barren
CBT1-B	Mixed Low Treed Clay Barren
CBT1-C	Deciduous Low Treed Clay Barren
CLO1-4	Moist Open Carbonate Cliff Seepage
CLS1	Carbonate Shrub Cliff
CLS2	Shrub Vegetated Retaining Wall
CLT1-1	White Cedar Treed Carbonate Cliff
CLT1-2	Sugar Maple - Ironwood - White Ash Treed Carbonate Cliff
CUH1	Hedgerow
CUH1-A	Treed Hedgerow
CUH1-B	Native Shrub - Sapling Hedgerow
CUH1-c	Buckthorn Hedgerow
CUH1-d	Exotic Shrub Hedgerow
CUM1	Mineral Cultural Meadow

ELC Code	ELC Name
CUM1-1	Dry-Moist Old Field Meadow
CUM1-A	Native Forb Meadow
CUM1-b	Exotic Cool-season Grass Graminoid Meadow
CUM1-c	Exotic Forb Meadow
CUP1	Deciduous Plantation
CUP1-1	Sugar Maple Deciduous Plantation
CUP1-2	Basswood Deciduous Plantation
CUP1-3	Black Walnut Deciduous Plantation
CUP1-4	Hybrid Poplar Deciduous Plantation
CUP1-4A	Native Poplar Deciduous Plantation
CUP1-5	Silver Maple Deciduous Plantation
CUP1-7	Red (Green) Ash Deciduous Plantation
CUP1-7A	White Ash Deciduous Plantation
CUP1-8	Red Oak Deciduous Plantation
CUP1-A	Restoration Deciduous Plantation
CUP1-b	Willow Deciduous Plantation
CUP1-c	Locust Deciduous Plantation
CUP1-d	Horticultural Deciduous Plantation
CUP1-E	Paper Birch Deciduous Plantation
CUP1-e1	European Birch Deciduous Plantation
CUP1-f	Siberian Elm Deciduous Plantation
CUP1-g	Apple Deciduous Plantation
CUP1-g1	Cherry - Plum Deciduous Plantation
CUP2	Mixed Plantation
CUP2-1A	Black Walnut - Conifer Mixed Plantation
CUP2-A	Restoration Mixed Plantation
CUP2-b	Black Locust - Conifer Mixed Plantation
CUP2-c	Norway Maple - Conifer Mixed Plantation
CUP2-D	Apple - Conifer Mixed Plantation
CUP2-E	Silver Maple - Conifer Mixed Plantation
CUP2-f	Hybrid Poplar - Conifer Mixed Plantation
CUP2-G	Ash - Conifer Mixed Plantation
CUP2-h	Horticultural Mixed Plantation
CUP2-I	Red Oak - Conifer Mixed Plantation
CUP2-j	Siberian Elm - Conifer Mixed Plantation
CUP3	Coniferous Plantation
CUP3-1	Red Pine Coniferous Plantation
CUP3-2	White Pine Coniferous Plantation
CUP3-3	Scots Pine Coniferous Plantation
CUP3-4	Jack Pine Coniferous Plantation
CUP3-5	Tamarack - European Larch Coniferous Plantation
CUP3-6	European Larch Coniferous Plantation
CUP3-8	White Spruce - European Larch Coniferous Plantation
CUP3-8A	White Spruce - Tamarack Coniferous Plantation
CUP3-9	Norway Spruce - European Larch Coniferous Plantation
CUP3-A	Restoration Coniferous Plantation
CUP3-b	Austrian Pine Coniferous Plantation
CUP3-C	White Spruce Coniferous Plantation

ELC Code	ELC Name
CUP3-D	Black Spruce Coniferous Plantation
CUP3-e	Norway Spruce Coniferous Plantation
CUP3-F	Tamarack Coniferous Plantation
CUP3-G	White Cedar Coniferous Plantation
CUP3-H	Mixed Conifer Coniferous Plantation
CUP3-i	Douglas Fir Coniferous Plantation
CUP3-j	Colorado Spruce Coniferous Plantation
CUS1-1	Hawthorn Successional Savannah
CUS1-2A	White Cedar Successional Savannah
CUS1-3	Red Oak Non-tallgrass Savannah
CUS1-3A	White Oak Non-tallgrass Savannah
CUS1-3B	Bur Oak Non-tallgrass Savannah
CUS1-A	Mineral Cultural Savannah Ecosite
CUS1-A1	Native Deciduous Successional Savannah
CUS1-A2	White Pine Successional Savannah
CUS1-A4	Fresh-Moist Cottonwood Tall Treed Savannah
CUS1-b	Exotic Successional Savannah
CUS2-A	Rubble Successional Savannah
CUT1-1	Sumach Deciduous Thicket
CUT1-2	Serviceberry Deciduous Thicket
CUT1-3	Chokecherry Deciduous Thicket
CUT1-4	Grey Dogwood Deciduous Thicket
CUT1-5	Raspberry Deciduous Thicket
CUT1-6	Poison Ivy Deciduous Thicket
CUT1-A	Mineral Cultural Thicket Ecosite
CUT1-A1	Native Deciduous Sapling Regeneration Thicket
CUT1-A2	Native Mixed Sapling Regeneration Thicket
CUT1-A3	Coniferous Sapling Regeneration Thicket
CUT1-b	Buckthorn Deciduous Thicket
CUT1-c	Exotic Deciduous Thicket
CUT1-D	Round-leaved Dogwood Deciduous Thicket
CUT1-E	Red Osier Dogwood Deciduous Thicket
CUT1-F	Silky Dogwood Deciduous Thicket
CUT1-G	Willow Deciduous Thicket
CUT1-H	Ninebark Planted Deciduous Thicket
CUW1-1	Red Cedar Successional Woodland
CUW1-2	Red Oak Non-tallgrass Woodland
CUW1-2A	Black Oak Non-tallgrass Woodland
CUW1-A	Mineral Cultural Woodland Ecosite
CUW1-A1	White Cedar Successional Woodland
CUW1-A2	White Pine Successional Woodland
CUW1-A3	Native Deciduous Successional Woodland
CUW1-A4	Fresh-Moist Cottonwood Tall Treed Woodland
CUW1-b	Exotic Successional Woodland
CUW1-b2	Scots Pine Successional Woodland
CUW1-C	White Oak Non-tallgrass Woodland
CUW1-D	Hawthorn Successional Woodland
CUW2-A	Rubble Successional Woodland

ELC Code	ELC Name
FEO1-2	Slender Sedge Open Fen
FEO1-4	Bog Buckbean - Sedge Open Fen
FEO1-5	Beaked Sedge Open Fen
FES1-4	Leatherleaf - Forb Shrub Fen
FES1-9	Low White Cedar Shrub Fen
FES1-A	Willow Shrub Fen
FES2-A	Willow Shrub Mineral Fen
FET1-1	Tamarack Treed Fen
FET1-2	Tamarack - White Cedar Treed Fen
FET2-A	White Cedar Low Treed Mineral Fen
FET2-B	White Cedar - Scots Pine Low Treed Mineral Fen
FOC1-2	Dry-Fresh White Pine (- Red Pine) Coniferous Forest
FOC1-a	Dry-Moist Scots Pine Coniferous Forest
FOC2-2	Dry-Fresh White Cedar Coniferous Forest
FOC2-A	Dry-Fresh White Cedar - Scots Pine Coniferous Forest
FOC3-1	Fresh-Moist Hemlock Coniferous Forest
FOC3-A	Fresh-Moist Hemlock - White Pine Coniferous Forest
FOC4-1	Fresh-Moist White Cedar Coniferous Forest
FOC4-2	Fresh-Moist White Cedar - Hemlock Coniferous Forest
FOC4-3	Fresh-Moist White Cedar - Balsam Fir Coniferous Forest
FOC4-A	Fresh-Moist White Cedar - White Pine Coniferous Forest
FOD	Deciduous Forest
FOD1-1	Dry-Fresh Red Oak Deciduous Forest
FOD1-2	Dry-Fresh White Oak Deciduous Forest
FOD1-4	Dry-Fresh Mixed Oak Deciduous Forest
FOD2-1	Dry-Fresh Oak - Red Maple Deciduous Forest
FOD2-2	Dry-Fresh Oak - Hickory Deciduous Forest
FOD2-3	Dry-Fresh Hickory Deciduous Forest
FOD2-4	Dry-Fresh Oak - Hardwood Deciduous Forest
FOD3	Dry-Fresh Poular-White Birch Deciduous Forest Ecosite
FOD3-1	Dry-Fresh Poplar Deciduous Forest
FOD3-2	Dry-Fresh Paper Birch Deciduous Forest
FOD4	Dry-Fresh Miscellaneous Deciduous Forest Ecosite
FOD4-1	Dry-Fresh Beech Deciduous Forest
FOD4-2	Dry-Fresh White Ash Deciduous Forest
FOD4-A	Dry-Fresh Ironwood Deciduous Forest
FOD4-b	Dry-Fresh Manitoba Maple Deciduous Forest
FOD4-d	Dry-Fresh Norway Maple Deciduous Forest
FOD4-e	Dry-Fresh Exotic Deciduous Forest
FOD4-F	Dry-Fresh Black Cherry Deciduous Forest
FOD4-G	Dry-Fresh Basswood Deciduous Forest
FOD4-H	Dry-Fresh Hawthorn - Apple Deciduous Forest
FOD4-I	Dry-Fresh Red Maple Deciduous Forest
FOD4-J	Dry-Fresh Pin Cherry Deciduous Forest
FOD5	Dry-Fresh Sugar Maple Deciduous Forest Ecosite
FOD5-1	Dry-Fresh Sugar Maple Deciduous Forest
FOD5-10	Dry-Fresh Sugar Maple - Paper Birch - Poplar Deciduous Forest
FOD5-2	Dry-Fresh Sugar Maple - Beech Deciduous Forest

ELC Code	ELC Name
FOD5-3	Dry-Fresh Sugar Maple - Oak Deciduous Forest
FOD5-4	Dry-Fresh Sugar Maple - Ironwood Deciduous Forest
FOD5-5	Dry-Fresh Sugar Maple - Hickory Deciduous Forest
FOD5-6	Dry-Fresh Sugar Maple - Basswood Deciduous Forest
FOD5-7	Dry-Fresh Sugar Maple - Black Cherry Deciduous Forest
FOD5-8	Dry-Fresh Sugar Maple - White Ash Deciduous Forest
FOD5-9	Dry-Fresh Sugar Maple - Red Maple Deciduous Forest
FOD5-A	Dry-Fresh Sugar Maple - Hawthorn Deciduous Forest
FOD5-b	Dry-Fresh Sugar Maple - Norway Maple Deciduous Forest
FOD6-1	Fresh-Moist Sugar Maple - Ash Deciduous Forest
FOD6-2	Fresh-Moist Sugar Maple - Black Maple Deciduous Forest
FOD6-3	Fresh-Moist Sugar Maple - Yellow Birch Deciduous Forest
FOD6-4	Fresh-Moist Sugar Maple - White Elm Deciduous Forest
FOD6-5	Fresh-Moist Sugar Maple - Hardwood Deciduous Forest
FOD7-1	Fresh-Moist White Elm Lowland Deciduous Forest
FOD7-2	Fresh-Moist Ash Deciduous Forest
FOD7-3	Fresh-Moist Willow Lowland Deciduous Forest
FOD7-4	Fresh-Moist Black Walnut Lowland Deciduous Forest
FOD7-5	Fresh-Moist Black Maple Lowland Deciduous Forest
FOD7-a	Fresh-Moist Manitoba Maple Lowland Deciduous Forest
FOD7-b	Fresh-Moist Norway Maple Deciduous Forest
FOD7-c	Fresh-Moist Exotic Deciduous Forest
FOD7-D	Fresh-Moist Red Maple Lowland Deciduous Forest
FOD7-E	Fresh-Moist Hawthorn - Apple Deciduous Forest
FOD7-F	Fresh-Moist Basswood Lowland Deciduous Forest
FOD7-G	Fresh-Moist Black Cherry Deciduous Forest
FOD8	Fresh-Moist Poplar-Birch Deciduous Forest Ecostie
FOD8-1	Fresh-Moist Poplar Deciduous Forest
FOD8-A	Fresh-Moist Cottonwood Coastal Deciduous Forest
FOD8-B	Fresh-Moist Paper Birch Deciduous Forest
FOD9-1	Fresh-Moist Oak - Sugar Maple Deciduous Forest
FOD9-2	Fresh-Moist Oak - Lowland Maple Deciduous Forest
FOD9-3	Fresh-Moist Bur Oak Deciduous Forest
FOD9-4	Fresh-Moist Shagbark Hickory Deciduous Forest
FOD9-5	Fresh-Moist Bitternut Hickory Deciduous Forest
FOD9-A	Fresh-Moist Oak - Beech Deciduous Forest
FOD9-B	Fresh-Moist Oak - Birch Deciduous Forest
FOD9-C	Fresh-Moist Red Oak - Ash Deciduous Forest
FOD9-D	Fresh-Moist Beech - Hardwood Deciduous Forest
FOM2-1	Dry-Fresh White Pine - Oak Mixed Forest
FOM2-2	Dry-Fresh White Pine - Sugar Maple Mixed Forest
FOM2-A	Dry-Fresh White Pine - Hardwood Mixed Forest
FOM3-1	Dry-Fresh Hardwood - Hemlock Mixed Forest
FOM3-2	Dry-Fresh Hemlock - Sugar Maple Mixed Forest
FOM3-A	Dry-Fresh Hemlock - Manitoba Maple Mixed Forest
FOM4-1	Dry-Fresh White Cedar - Paper Birch Mixed Forest
FOM4-2	Dry-Fresh White Cedar - Poplar Mixed Forest
FOM4-A	Dry-Fresh White Cedar - Hardwood Mixed Forest

ELC Code	ELC Name
FOM5-1	Dry-Fresh Paper Birch Mixed Forest
FOM5-2	Dry-Fresh Poplar Mixed Forest
FOM6-1	Fresh-Moist Sugar Maple - Hemlock Mixed Forest
FOM6-2	Fresh-Moist Hemlock - Hardwood Mixed Forest
FOM7-1	Fresh-Moist White Cedar - Sugar Maple Mixed Forest
FOM7-2	Fresh-Moist White Cedar - Hardwood Mixed Forest
FOM8-1	Fresh-Moist Poplar Mixed Forest
FOM8-2	Fresh-Moist Paper Birch Mixed Forest
FOM8-A	Fresh-Moist Poplar - White Birch Coastal Mixed Forest
FOM8-B	Fresh-Moist Ash Mixed Forest
FOMA-A	Fresh-Moist White Pine - Sugar Maple Mixed Forest
FOMA-B	Fresh-Moist White Pine - Hawthorn Mixed Forest
MAM	Meadow Marsh
MAM2-1	Bluejoint Mineral Meadow Marsh
MAM2-10	Forb Mineral Meadow Marsh
MAM2-2	Reed Canary Grass Mineral Meadow Marsh
MAM2-3	Red-top Mineral Meadow Marsh
MAM2-4	Fowl Manna Grass Mineral Meadow Marsh
MAM2-5	Narrow-leaved Sedge Mineral Meadow Marsh
MAM2-6	Broad-leaved Sedge Mineral Meadow Marsh
MAM2-7	Horsetail Mineral Meadow Marsh
MAM2-9	Jewelweed Mineral Meadow Marsh
MAM2-a	Common Reed Mineral Meadow Marsh
MAM2-b	Purple Loosestrife Mineral Meadow Marsh
MAM2-C	Rush Mineral Meadow Marsh
MAM2-D	Rice Cut-Grass Mineral Meadow Marsh
MAM2-E	Bulrush Mineral Meadow Marsh
MAM2-f	Miscanthus Mineral Meadow Marsh
MAM2-g	Cool-season Grass Mineral Meadow Marsh
MAM2-h	Japanese Knotweed Mineral Meadow Marsh
MAM3-1	Bluejoint Organic Meadow Marsh
MAM3-2	Reed Canary Grass Organic Meadow Marsh
MAM3-3	Rice Cut-grass Organic Meadow Marsh
MAM3-4	Fowl Manna Grass Organic Meadow Marsh
MAM3-5	Narrow-leaved Sedge Organic Meadow Marsh
MAM3-6	Broad-leaved Sedge Organic Meadow Marsh
MAM3-8	Jewelweed Organic Meadow Marsh
MAM3-9	Forb Organic Meadow Marsh
MAM3-a	Common Reed Organic Meadow Marsh
MAM4-A	Nelson's Scouring Rush - Baltic Rush Coastal Fen
MAM5-1	Mineral Fen Meadow Marsh
MAM6-1	Prairie Cord Grass - Bluejoint Tallgrass Meadow Marsh
MAM6-A	Bluejoint - Switchgrass Tallgrass Meadow Marsh
MAS2-1	Cattail Mineral Shallow Marsh Type
MAS2-1A	Broad-leaved Cattail Mineral Shallow Marsh
MAS2-1b	Narrow-leaved Cattail Mineral Shallow Marsh
MAS2-2	Bulrush Mineral Shallow Marsh

ELC Code	ELC Name
MAS2-3	Narrow-leaved Sedge Mineral Shallow Marsh
MAS2-4	Broad-leaved Sedge Mineral Shallow Marsh
MAS2-6	Three-square Mineral Shallow Marsh
MAS2-7	Bur-reed Mineral Shallow Marsh
MAS2-8	Rice Cut-grass Mineral Shallow Marsh
MAS2-9	Forb Mineral Shallow Marsh
MAS2-a	Common Reed Mineral Shallow Marsh
MAS2-b	Purple Loosestrife Mineral Shallow Marsh
MAS2-C	Horsetail Mineral Shallow Marsh
MAS2-d	Reed Canary Grass Mineral Shallow Marsh
MAS2-e	Giant Manna Grass Mineral Shallow Marsh
MAS2-F	Sweet Flag Mineral Shallow Marsh
MAS2-G	Manna Grass Mineral Shallow Marsh
MAS2-H	Unvegetated Mineral Vernal Pool
MAS3-1	Cattail Organic Shallow Marsh Type
MAS3-10	Forb Organic Shallow Marsh
MAS3-11	Water Arum Organic Shallow Marsh
MAS3-12	Swamp Loosestrife Organic Shallow Marsh
MAS3-1A	Broad-leaved Cattail Organic Shallow Marsh
MAS3-1b	Narrow-leaved Cattail Organic Shallow Marsh
MAS3-2	Bulrush Organic Shallow Marsh
MAS3-3	Narrow-leaved Sedge Organic Shallow Marsh
MAS3-4	Broad-leaved Sedge Organic Shallow Marsh
MAS3-5	Wild Rice Organic Shallow Marsh
MAS3-6	Spike Rush Organic Shallow Marsh
MAS3-7	Bur-reed Organic Shallow Marsh
MAS3-8	Rice Cut-grass Organic Shallow Marsh
MAS3-9	Common Reed Organic Shallow Marsh
MAS3-a	Purple Loosestrife Organic Shallow Marsh
MAS3-B	Horsetail Organic Shallow Marsh
MAS3-C	Manna Grass Organic Shallow Marsh
MAS3-d	Reed Canary Grass Organic Shallow Marsh
OAO1	Open Aquatic (unvegetated)
OAO1-T	Turbid Open Aquatic (unvegetated)
SAF1-1	Water Lily - Bullhead Lily Floating-leaved Shallow Aquatic
SAF1-3	Duckweed Floating-leaved Shallow Aquatic
SAF1-A	Liverwort Floating-leaved Shallow Aquatic
SAF1-B	Water Smartweed Floating-leaved Shallow Aquatic
SAM1	Mixed Shallow Aquatic Ecosite
SAM1-2	Duckweed Mixed Shallow Aquatic
SAM1-3	Watercress Mixed Shallow Aquatic
SAM1-4	Pondweed Mixed Shallow Aquatic
SAM1-5	Bur-reed Mixed Shallow Aquatic
SAM1-6	Bladderwort Mixed Shallow Aquatic
SAM1-7	Water Milfoil Mixed Shallow Aquatic
SAM1-A	Water Lily - Bullhead Lily Mixed Shallow Aquatic
SAM1-b	Floating-heart Mixed Shallow Aquatic
SAM1-C	Crowfoot Mixed Shallow Aquatic

ELC Code	ELC Name
SAM1-D	Water-shield Mixed Shallow Aquatic
SAS1-1	Pondweed Submerged Shallow Aquatic
SAS1-2	Waterweed Submerged Shallow Aquatic
SAS1-3	Stonewort Submerged Shallow Aquatic
SAS1-4	Water Milfoil Submerged Shallow Aquatic
SAS1-5	Wild Celery Submerged Shallow Aquatic
SAS1-A	Coon-tail Submerged Shallow Aquatic
SAS1-B	Bushy Naiad Submerged Shallow Aquatic
SBO1-1	Bracken Fern Open Sand Barren
SBO1-2	Hay Sedge Sand Barren
SBO1-2A	Mixed Sedge Sand Barren
SBO1-A	Dropseed Open Sand Barren
SBO1-B	Flat-stemmed Bluegrass - Forb Open Sand Barren
SBO1-c	Hard Fescue Sand Barren
SBO1-D	Forb Sand Barren
SBO2	Anthropogenic Sand / Gravel Barren
SBS1	Shrub Sand Barren
SBT1	Treed Sand Barren
SDO1-1	Switchgrass - Beachgrass - (Little Bluestem) Open Sand Dune
SDO1-A	Sand Dropseed - Flat-stemmed Bluegrass Open Sand Dune
SDS1-A	Willow Shrub Sand Dune
SDT1-1	Cottonwood Treed Sand Dune
SDT1-2	Balsam Poplar Treed Sand Dune
SDT1-a	Willow Treed Sand Dune
SWC1-1	White Cedar Mineral Coniferous Swamp
SWC1-2	White Cedar - Conifer Mineral Coniferous Swamp
SWC2-2	Hemlock Mineral Coniferous Swamp
SWC3-1	White Cedar Organic Coniferous Swamp
SWC3-2	White Cedar - Conifer Organic Coniferous Swamp
SWC4-1	Tamarack - Black Spruce Organic Coniferous Swamp
SWC4-2	Tamarack Organic Coniferous Swamp
SWC4-A	Tamarack - Balsam Fir - Spruce Organic Coniferous Swamp
SWCA-A	Hemlock Organic Coniferous Swamp
SWD1-2	Bur Oak Mineral Deciduous Swamp
SWD2-1	Black Ash Mineral Deciduous Swamp
SWD2-2	Red (Green) Ash Mineral Deciduous Swamp
SWD2-A	White Ash Mineral Deciduous Swamp
SWD3-1	Red Maple Mineral Deciduous Swamp
SWD3-2	Silver Maple Mineral Deciduous Swamp
SWD3-3	Swamp Maple Mineral Deciduous Swamp
SWD3-4	Manitoba Maple Mineral Deciduous Swamp
SWD3-4a	Norway Maple Mineral Deciduous Swamp
SWD4-1	Willow Mineral Deciduous Swamp
SWD4-2	White Elm Mineral Deciduous Swamp
SWD4-3	Paper Birch - Poplar Mineral Deciduous Swamp
SWD4-4	Yellow Birch Mineral Deciduous Swamp
SWD4-A	White Birch - Cottonwood Coastal Mineral Deciduous Swamp
SWD4-b	European Alder Mineral Deciduous Swamp

ELC Code	ELC Name
SWD5-1	Black Ash Organic Deciduous Swamp
SWD6-1	Red Maple Organic Deciduous Swamp
SWD6-2	Silver Maple Organic Deciduous Swamp
SWD6-3	Swamp Maple Organic Deciduous Swamp
SWD6-a	Manitoba Maple Organic Deciduous Swamp
SWD7-1	Paper Birch - Poplar Organic Deciduous Swamp
SWD7-2	Yellow Birch Organic Deciduous Swamp
SWD7-A	Willow Organic Deciduous Swamp
SWD7-b	European Alder Organic Deciduous Swamp
SWM1-1	White Cedar - Hardwood Mineral Mixed Swamp
SWM2-1	Red Maple - Conifer Mineral Mixed Swamp
SWM3-1	Birch - Conifer Mineral Mixed Swamp
SWM3-2	Poplar - Conifer Mineral Mixed Swamp
SWM4-1	White Cedar - Hardwood Organic Mixed Swamp
SWM5-1	Red Maple - Conifer Organic Mixed Swamp
SWM5-2	Swamp Maple - Conifer Organic Mixed Swamp
SWM6-1	Birch - Conifer Organic Mixed Swamp
SWM6-2	Poplar - Conifer Organic Mixed Swamp
SWMA-A	Red (Green) Ash - Hemlock Mineral Mixed Swamp
SWT2-1	Speckled Alder Mineral Thicket Swamp
SWT2-10	Nannyberry Mineral Thicket Swamp
SWT2-2	Willow Mineral Thicket Swamp
SWT2-3	Mountain Maple Mineral Thicket Swamp
SWT2-4	Buttonbush Mineral Thicket Swamp
SWT2-5	Red Osier Dogwood Mineral Thicket Swamp
SWT2-6	Spiraea Mineral Thicket Swamp
SWT2-8	Silky Dogwood Mineral Thicket Swamp
SWT2-9	Grey Dogwood Mineral Thicket Swamp
SWT2-a	Exotic Mineral Thicket Swamp
SWT2-B	Winterberry Mineral Thicket Swamp
SWT3-1	Speckled Alder Organic Thicket Swamp
SWT3-2	Willow Organic Thicket Swamp
SWT3-3	Mountain Maple Organic Thicket Swamp
SWT3-4	Buttonbush Organic Thicket Swamp
SWT3-5	Red Osier Dogwood Organic Thicket Swamp
SWT3-7	Winterberry Organic Thicket Swamp
SWT3-A	Spiraea Organic Thicket Swamp
SWT3-B	Silky Dogwood Organic Thicket Swamp
TAT1	Carbonate Treed Talus
TPO1-1	Dry-Fresh Tallgrass Prairie
TPO2-1	Fresh-Moist Tallgrass Prairie
TPO2-A	Fresh-Moist Tallgrass Prairie Planting
TPS1-1	Dry-Fresh Black Oak Tallgrass Savannah
TPS1-2	Dry-Fresh Black Oak - Pine Tallgrass Savannah

ELC Code	ELC Name
TPS1-2A	Mixed Oak - Pine Tallgrass Savannah
TPW1-1	Dry-Fresh Black Oak - White Oak Tallgrass Woodland
TPW1-A	Mixed Oak - Pine Tallgrass Woodland
TPW2-A	Fresh-Moist Cottonwood Tallgrass Woodland

Note:

ELC - Ecological Land Classification

NATURAL ENVIRONMENT IMPACT ASSESSMENT

BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT, REGIONAL MUNICIPALITY OF PEEL, ONTARIO

Prepared for: **GEI CONSULTANTS CANADA LTD.**

Prepared by: **MONTROSE ENVIRONMENTAL SOLUTIONS CANADA INC.**

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BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT, REGIONAL MUNICIPALITY OF PEEL, ONTARIO

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VERSION CONTROL

Version	Date	Issue Type	Filename	Description
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APPENDICES

APPENDIX A Agency Consultation Records

1 INTRODUCTION

Montrose Environmental Solutions Canada Inc. (Montrose, formerly Matrix Solutions Inc.) was retained by GEI Consultants Canada Ltd. (formerly GM BluePlan Engineering Limited) on behalf of the Peel Region (the Region) to complete a Natural Environment Impact Assessment in support of the Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment (EA).

The Region completed a Water and Wastewater Master Servicing Plan Update (2020) which identified the need to construct new water and wastewater linear distribution and collection pipes and pumping facilities to service future planned population growth in the community of Bolton. The Class EA study has developed, evaluated, and identified the optimal water and wastewater servicing solutions to meet existing needs and growth. Preliminary preferred design concepts have been determined and include new watermains, gravity sanitary sewers, a sanitary forcemain, and sanitary pumping station (SPS). New water and wastewater infrastructure is proposed in the area north of the community of Bolton along Emil Kolb Parkway, Highway (Regional Road) 50, Mount Hope Road, and along a proposed future utility corridor between Highway 50 and Mount Hope Road (referred to herein as the 'Utility Corridor'), and Columbia Way (**Figure 1**).

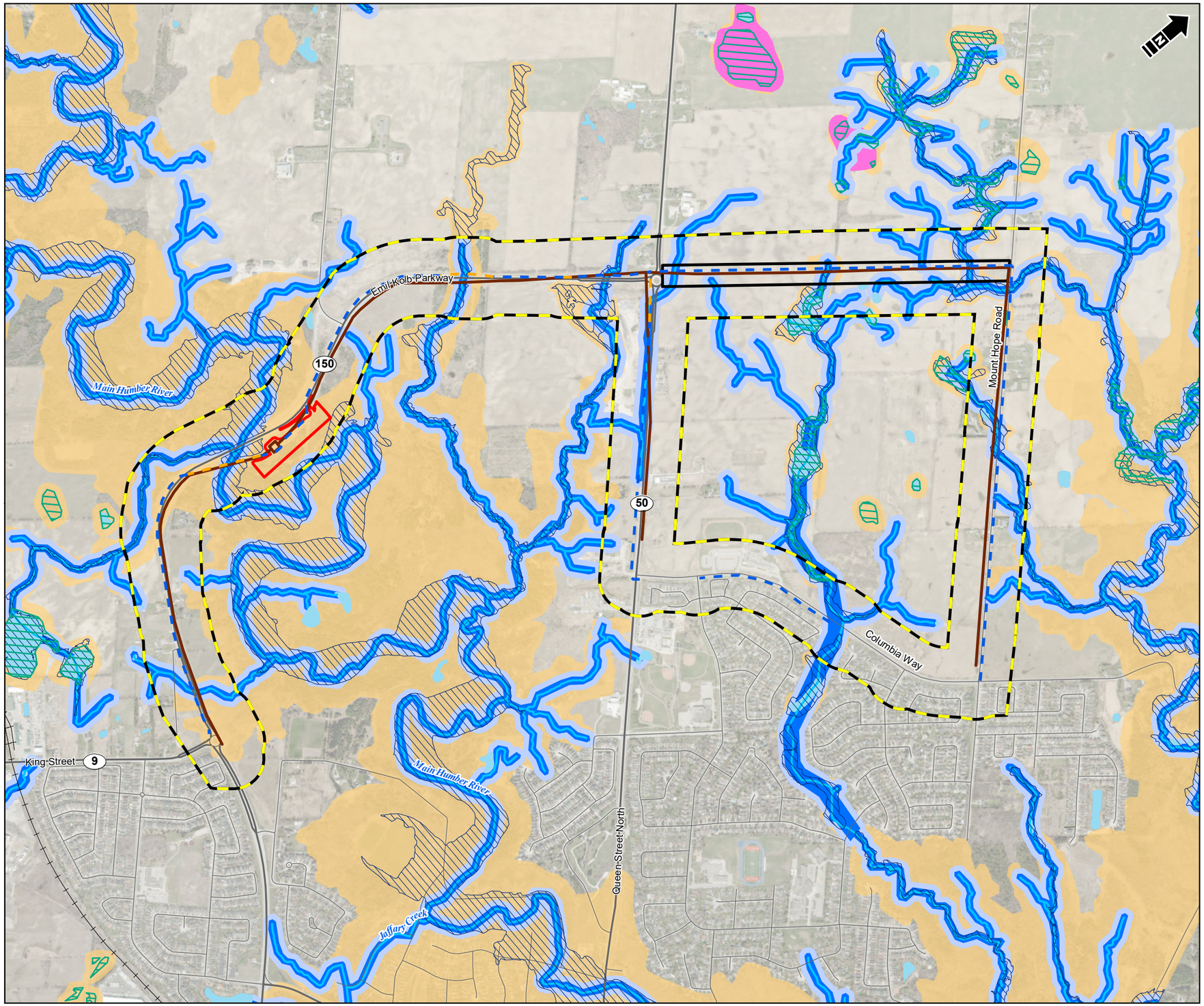
As part of the evaluation and selection of the water and wastewater servicing solutions, natural heritage studies were completed to further refine the preferred solution, determine potential impacts to natural features, and inform the development of appropriate mitigation strategies. The following natural environment reports have been prepared in support of the Class EA study:

- *Draft Natural Heritage Existing Conditions Report* (Matrix 2023), issued in July 2023, which summarized the results of a desktop review of background natural heritage information for the focus area.
- *Windshield Survey Technical Memo* (Matrix 2024a), issued in July 2024, which provided a high-level description of the findings from a windshield survey completed on June 5, 2024. This report represented an interim deliverable and is intended to be read in conjunction with the *Draft Natural Heritage Existing Conditions Report*.
- *Natural Heritage Existing Conditions – Interim Report* (Matrix 2024b), issued in August 2024, which provided a description of the results of breeding bird surveys completed in June and July 2024. This report represented an interim deliverable and is intended to be read in conjunction with the *Draft Natural Heritage Existing Conditions Report*.

This Natural Environment Impact Assessment builds on these earlier reports and should be read in conjunction with them. It summarizes the methodology and results of all field surveys completed, provides a validation of the natural features crossing or adjacent to the preferred solution (including woodlands, wetlands, and watercourses), identifies potential impacts that may result from the implementation of the preliminary preferred design concepts, recommends mitigation measures to avoid or minimize those impacts, and provides direction for future investigations to be completed at the detailed design stage.

1.1 Focus Area Overview

The focus area for this report includes the preliminary preferred water and wastewater alignments along Emil Kolb Parkway, Highway 50, Mount Hope Road, the Utility Corridor, and Columbia Way, in addition to the lands within approximately 120 m (Figure 1).



- Focus Area
- Utility Corridor
- Approximate Proposed SPS Footprint
- Provincially Significant Wetland
- Flood Hazard
- Meander Belt
- Meander Belt (+ 30 m)
- Region of Peel Environmentally Significant Area
- TRCA Regulation Limit
- Waterbody
- Watercourse
- Highway
- Road
- Railway
- Watermain Alignment (Open Cut)
- Watermain Alignment (Tunnelled)
- Sanitary Sewer Alignment

Reference: Contains information licensed under the Open Government Licence – Canada, Dace (Clinostomus elongatus) : recovery strategy and action plan (proposed) 2024. Contains information licensed under the Open Government Licence – The Regional Municipality of Peel. Contains information licensed under the Open Government Licence – The Toronto and Region Conservation Authority. Produced under Licence with the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry © Queen's Printer for Ontario (2024). Imagery (2021-2022) Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

1:16,000 metres

175 0 175 350

NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

GEI Consultants
Bolton EA

Focus Area and Natural Heritage Features

Date:	Project:	Submitter:	Reviewer:
April 2025	36069	D. Frey	S. Geddes

Disclaimer: The information contained herein may be compiled from numerous third party materials that are subject to periodic change without prior notification. While every effort has been made by Matrix Solutions Inc. to ensure the accuracy of the information presented at the time of publication, Matrix Solutions Inc. assumes no liability for any errors, omissions, or inaccuracies in the third

Figure 1

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The focus area is within the main Humber River watershed and Greenbelt Plan area, and contains numerous woodlands, watercourses, and unevaluated wetlands. Core Areas of the Greenlands System are mapped by the Region within the focus area, and Town of Caledon Environmental Policy Areas also overlap with the preferred alignments. The Humber River and its tributaries cross the preferred alignments throughout the focus area. The Bolton Resource Management Tract (BRMT) is a natural area owned and managed by the Toronto and Region Conservation Authority (TRCA) within the Humber River corridor that is also present within the focus area. Habitat for several terrestrial and aquatic species at risk (SAR) is confirmed or candidate within the focus area, as detailed later in this report.

1.2 Proposed Works

The preliminary preferred design concept includes the following elements:

- A new watermain on Emil Kolb Parkway, Highway 50, Mount Hope Road, Utility Corridor, and Columbia Way.
- A new SPS and associated access road northeast of the Humber River and adjacent to Emil Kolb Parkway.
- A new deep gravity sanitary sewer on Emil Kolb Parkway from the Highway 50/Emil Kolb Parkway intersection to the new SPS.
- New gravity sanitary sewers on Highway 50, Mount Hope Road, and along the Utility Corridor to connect with the sewer at Emil Kolb Parkway.
- A new twin forcemain from the new SPS south along Emil Kolb Parkway to King Street.

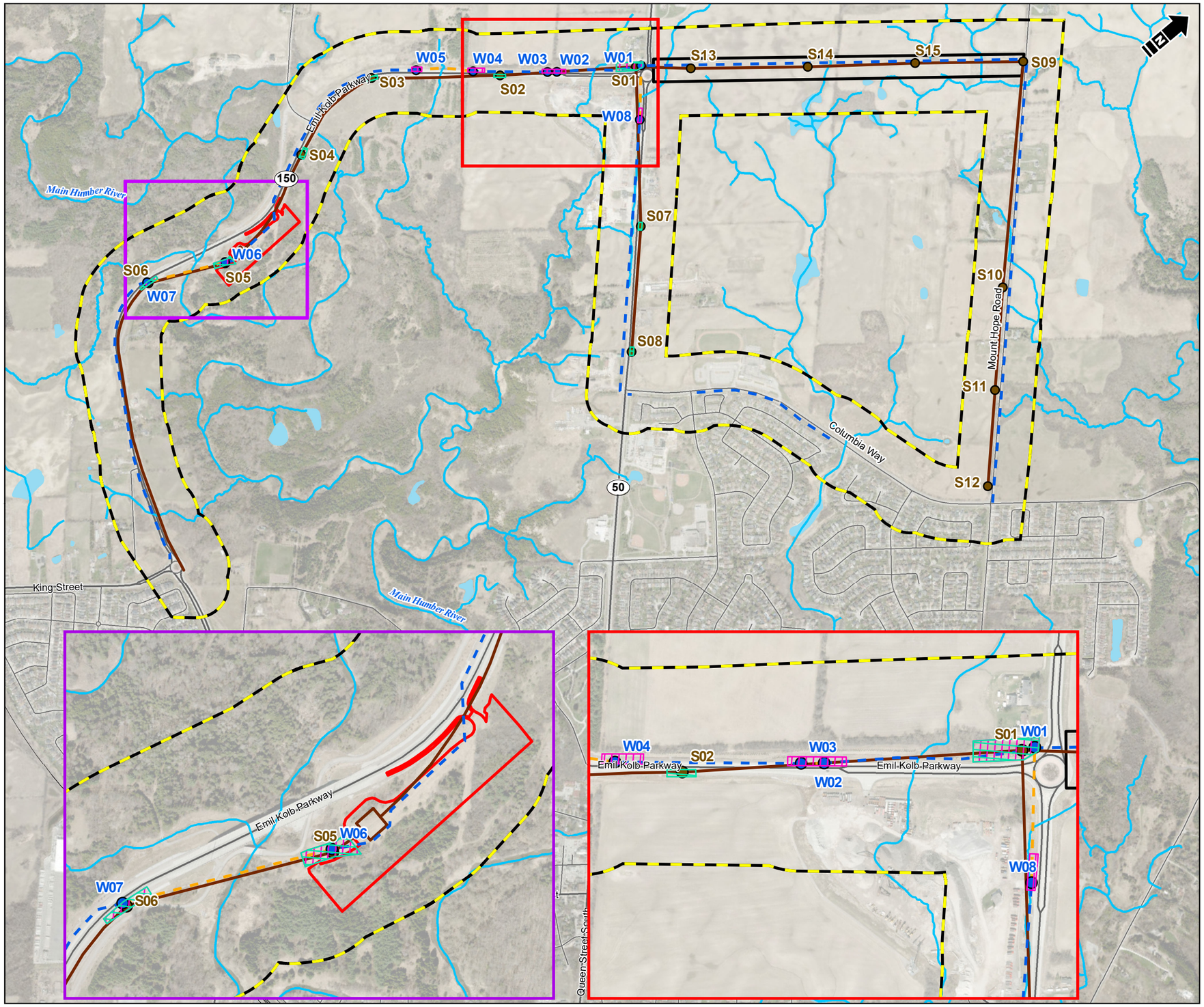
The preferred construction methods for implementing the preliminary preferred design concepts include both open cut and trenchless technologies. The preliminary preferred design is shown on **Figure 2**.

1.2.1 Preliminary Preferred Design Concept - Water

Watermains will generally be constructed using open cut methodology as they can be constructed at shallow depths. However, where the alignment crosses significant environmental or socio-cultural features, trenchless technology is proposed to minimize surface disturbance and impacts to these features. The following summarizes the preferred location of the watermain route and the proposed approach to implementing the design concept for each project component.

Emil Kolb Parkway: the watermain will be installed within the road right-of-way (ROW) on the north side of Emil Kolb Parkway between King Street and Mount Hope Road. The majority of the watermain alignment will be open cut, with two watercourse crossings being tunnelled to avoid impacts to fish and fish habitat and one existing box culvert crossing being tunnelled to avoid impacts to the existing structure. Watercourse crossings include the Humber River and the Humber River Tributary. Tunnelling is expected to occur at depths of over 3 m below watercourses and culverts. In total, seven shaft sites (i.e., launching or receiving shafts for tunnelled sections) are proposed along Emil Kolb Parkway:

- W01, which will connect to W08 further south on Highway 50.
- W02 and W03, for crossing under the existing concrete box culvert.
- W04 and W05, for crossing under the Humber River Tributary.
- W06 and W07, for crossing under the Humber River.



- Focus Area
- Utility Corridor
- Approximate Proposed SPS Footprint
- Approximate Shaft Compound Limit (Water)
- Approximate Shaft Compound Limit (Wastewater)
- Waterbody
- Watercourse
- Highway
- Road
- Railway
- Watermain Alignment (Open Cut)
- Watermain Alignment (Tunnelled)
- Sanitary Sewer Alignment
- Water Shaft Location
- Wastewater Shaft Location

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MONTROSE ENVIRONMENTAL

GEI Consultants
Bolton EA

Preliminary Preferred Water and Wastewater Design

Date:	Project:	Submitter:	Reviewer:
April 2025	36069	D. Frey	S. Geddes

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Figure 2

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Highway 50: the watermain will be installed within the road ROW on the west side of Highway 50 between Emil Kolb Parkway and Columbia Way. Most of the installation will be by open cut, with trenchless technology used to avoid the existing roundabout at Highway 50 and Emil Kolb Parkway. In total, one shaft site is proposed along Highway 50:

- W08, which will connect with W01 located to the north within the northern Emil Kolb Parkway ROW.

Mount Hope Road: the watermain will be installed within the road ROW on the east side of Mount Hope Road between the Utility Corridor and Columbia Way. The full extent of the alignment will be installed by open cut.

Utility Corridor: the watermain will be installed within a proposed future Utility Corridor that aligns with a Town of Caledon planned local road. The Utility Corridor extends through an agricultural field between the intersection of Highway 50 with Emil Kolb Parkway and Mount Hope Road. The full extent of the alignment will be installed by open cut.

Columbia Way: a new section of watermain will be installed within the road ROW on the south side of Columbia Way, generally between Kingsway Drive and another tributary to the Humber River that crosses Columbia Way approximately 600 m south of Mount Hope Road. The full extent of the alignment will be installed by open cut.

1.2.2 Preliminary Preferred Design Concept – Wastewater

New linear wastewater infrastructure (forcemain and gravity sanitary sewers) will generally be constructed using trenchless technology. The following summarizes the preferred location of the wastewater route and the proposed approach to implementing the design concept for each project component.

Emil Kolb Parkway: the preferred wastewater strategy along Emil Kolb Parkway includes the new SPS, a deep gravity sanitary sewer, and a new sanitary forcemain. The new deep gravity sanitary sewer along Emil Kolb Parkway between Highway 50 and the Humber River will be installed within the road ROW on the south side. The sewer will be tunnelled due to the depth of the pipe required to achieve minimum slope. Tunnelling is expected to occur at depths of over 7 m below watercourses. In total, six shaft sites are proposed along Emil Kolb Parkway for the installation of the gravity sewer:

- S01, which will connect with S02 to the west and S07 further south on Highway 50; S01 will be a shared shaft with W01.
- S02, S03, S04, S05, and S06, to support tunnelling of the new deep gravity sanitary sewer; S05 and S06 will be shared shafts with W06 and W07, respectively.

The new SPS and its access road are proposed on the south side of Emil Kolb Parkway immediately east of the Humber River on lands owned by the TRCA. The new sanitary forcemain between the new SPS and north of King Street will be installed by open cut due to the shallow depth of the pipe (no minimum slope is required).

Highway 50: the gravity sanitary sewer will be installed within the road ROW on the east side of Highway 50 between Emil Kolb Parkway and Columbia Way. The sewer will be installed via trenchless technology, with two shaft sites proposed:

- S07, which will connect with S01 located to the north within the northern Emil Kolb Parkway ROW.
- S08, to support tunnelling of the new gravity sanitary sewer south to Columbia Way.

Mount Hope Road: the gravity sanitary sewer will be installed within the road ROW on the west side of Highway 50 between the Utility Corridor and Columbia Way. The sewer will be installed via trenchless technology, with four shaft sites proposed:

- S09, S10, S11, and S12, to support tunnelling of the new gravity sanitary sewer.

Utility Corridor: the gravity sanitary sewer will be installed within the proposed future Utility Corridor that aligns with a Town of Caledon planned local road between the Emil Kolb/Highway 50 intersection and Mount Hope Road. The sewer will be installed via trenchless technology, with three shaft sites proposed:

- S13, S14, and S15, to support tunnelling of the new gravity sanitary sewer.

1.3 Agency Consultation

To support the proposed water and wastewater works, the following consultation processes have been completed or are currently underway:

- **Ministry of Natural Resources (MNR):** a request was submitted to the MNR for information from the Natural Heritage Information Centre (NHIC) regarding observations of the SAR Redside Dace (*Clinostomus elongatus*). Wetland evaluation records for Provincially Significant Wetlands (PSWs) within the focus area were also requested. The requested information was received from MNRF on June 21 and September 6, 2024.
- **Ministry of the Environment, Conservation, and Parks (MECP):** an Information Gathering Form (IGF) was submitted to the MECP on October 18, 2024, to initiate the consultation process regarding works near Redside Dace critical habitat along the Humber River and its tributaries, and potential impacts to SAR bats from tree removals. An initial response was received on January 21, 2025. Through follow-up correspondence, it was determined that the MECP does not have any concerns regarding SAR for the project. A copy of all MECP correspondence is provided in **Appendix A**.
- **Department of Fisheries and Oceans Canada (DFO):** no consultation with DFO has been undertaken at the EA stage of the project. This consultation is recommended to occur at the detailed design stage once the final design has been developed.

No additional agency consultation is required at this stage of the EA.

2 POLICY CONTEXT

The policy context provides guidance on the protection of natural heritage features and the evaluation of their significance. Features present within the focus area were evaluated against the relevant federal, provincial, and municipal planning policies (Table 1).

TABLE 1 Applicable Federal, Provincial, and Municipal Policies

Legislation	Policies, Regulations, Guidelines	Summary
Federal Acts, Regulations, and Policies		
Migratory Birds Convention Act, 1994 (MBCA) • Passed in 1994, last amended in 2017	• Migratory Bird Regulations, 2022 (MBR 2022) • Migratory Bird Sanctuary Regulations (2022)	The purpose of the MBCA and associated regulations is to ensure the protection and conservation of migratory birds, including their eggs and nests, in Canada. Environment and Climate Change Canada (ECCC) administers the MBCA through the MBR 2022, which came into force on July 30, 2022. Under the MBCA and MBR 2022, no person may: • Capture, kill, take, injure, or harass a migratory bird or attempt to do so. • Destroy, take, or disturb an egg. • Damage, destroy, remove, or disturb a nest, nest shelter, eider duck shelter or duck box, unless the following exceptions apply: 1. The nest does not contain a live migratory bird or a viable egg, and, 2. The nest was not built by a species that is listed in Schedule 1. The nests of all species of migratory birds are protected when they are occupied by a live migratory bird or a viable egg. Regional nesting periods are provided by ECCC; the focus area is located within Nesting Zone C2, in which migratory birds tend to nest between April 1 and August 31. During this nesting period, nest surveys to determine nest occupancy may be appropriate when the following conditions are met: • The survey is conducted by skilled and experienced observers using appropriate methodology. • Only a few nesting spots or a small community of migratory birds is expected. • The activities will take place in simple habitats. The nests of 18 species listed in Schedule 1 of the MBR 2022 are protected year-round and during a designated waiting period (which varies for each species and ranges between 12 and 36 months) until the nest can be deemed abandoned and subsequently removed. The waiting period for these 18 species remains in effect even if the nest is unoccupied. Nest protection for all other species which are not listed in Schedule 1 remains the same, with nest removal permitted once the young have fledged. **Applicability to Project:** All construction and vegetation removal activities will need to have regard for the MBCA. Vegetation removal should generally be avoided during the core bird nesting period between April 1 – August 31 to prevent disturbing active nests of migratory birds protected under the MBCA. When appropriate, nest surveys to determine nest occupancy may be conducted in advance of vegetation clearing provided that the conditions described above are met.

Legislation	Policies, Regulations, Guidelines	Summary
Fisheries Act • Passed in 1985, last amended in 2019	• Fish and Fish Habitat Protection Policy Statement, 2019 • Authorizations Concerning Fish and Fish Habitat Protection Regulations (SOR/2019-286) • Aquatic Invasive Species Regulations (SOR/2015-121)	The purpose of the *Fisheries Act* is to provide a framework for the proper management and control of fisheries, and the conservation and protection of fish and fish habitat (including by the prevention of pollution). Under Sections 34 to 42 of the *Fisheries Act*, the Fish and Fish Habitat Protection Program of the Department of Fisheries and Oceans Canada (DFO) administers the *Fisheries Act* as well as relevant provisions for aquatic species listed under the federal *Species at Risk Act* (SARA). The *Fisheries Act* prohibits the death of fish and the harmful alteration, disruption, or destruction (HADD) of fish habitat. The DFO interprets HADD as "any temporary or permanent change to fish habitat that directly or indirectly impairs the habitat's capacity to support one or more life processes of fish." When an activity has the potential to contravene the *Fisheries Act*, review by DFO is required to determine if an Authorization is necessary. **Applicability to Project:** There are several watercourses overlapping with the focus area that may support permanent or seasonal direct or indirect fish habitat. The *Fisheries* Act will apply to this project if any impacts to direct fish habitat are anticipated to result from the construction of the preferred route. A DFO Request for Review will be required for any activities that have the potential to cause HADD or the death of fish.
Species at Risk Act (SARA) • Passed in 2002, last amended in 2023	N/A	The purposes of the SARA are to prevent wildlife species in Canada from being extirpated or becoming extinct, to provide for the recovery of wildlife species that are extirpated, endangered, or threatened because of human activity, and to manage species of special concern to prevent them from becoming endangered or threatened. The SARA mandates the development of recovery strategies for extirpated, endangered, or threatened species, as well as management plans for special concern species. Species listed on Schedule 1 of the SARA are protected under the provisions of the Act. This includes protection for the species and its residence (e.g., nest, den). The SARA applies to species located on federal land, such as Canadian oceans and waterways, national parks, and First Nations reserve lands. The SARA also applies to at-risk migratory birds and aquatic species (fish and mussels) anywhere they occur, including on privately or provincially owned land. **Applicability to Project:** within the focus area (where federally owned lands are not present), the SARA is applicable to at-risk migratory birds and aquatic species listed on Schedule 1. Several bird and fish species have the potential to occur, and compliance with the SARA has been considered in the preparation of this report.

Legislation	Policies, Regulations, Guidelines	Summary
Provincial Acts, Regulations, and Policies		
Environmental Assessment Act, 1990 • Passed in 1990, last amended in 2024	• Municipal Class Environmental Assessment (MCEA 2023)	The purpose of the *Environmental Assessment* Act provides a framework for the planning and decision-making process to ensure that consideration is made towards potential environmental effects well before the design and implementation process. The environmental assessment (EA) process ensures that multiple alternatives are assessed to ensure that the most suitable solution is identified. There are two types of assessments: individual EAs and streamlined EAs. Individual EAs are specific to large-scale, complex projects where the potential for significant environmental effects is present (these require approval by the Ministry of the Environment, Conservation, and Parks). Streamlined EAs, including municipal class EAs, can be used for routine projects that have predictable and manageable environmental effects. These EAs follow a streamlined self-assessment process. Class EAs cover activities including municipal road, sewage, and water infrastructure projects, highway construction and maintenance, conservation authority works, transit projects, and other public sector activities. **Applicability to Project:** The *Environmental Assessment Act* applies to provincial municipalities and agencies as well as municipal entities such as towns, cities, counties, and regions.
Planning Act • Passed in 1990, last amended in 2024	• Provincial Planning Statement, 2024	Section 3 of the *Planning Act* requires that all decisions affecting planning matters be consistent with the Provincial Planning Statement (PPS) which came into effect on October 20, 2024 (MMAH 2024). Section 4.1 of the PPS established clear direction for the application of an ecosystem approach and the protection of 'significant' natural resources and the form, function, and connectivity of natural features. These features are broadly defined in the PPS and rely on the Ministry of Natural Resources and Forestry (MNRF) and the municipality to identify and delineate specific natural features. The Natural Heritage Reference Manual (OMNR 2010) and the Significant Wildlife Habitat Technical Guide (SWHTG) and Criteria Schedules (OMNR 2000, MNRF 2015a) were prepared by the MNRF to provide guidance on identifying natural features and in interpreting the Natural Heritage sections of the PPS. The significant features in Ecoregion 6E, within which the focus area is located, include: • Significant wetlands. • Significant and other coastal wetlands. • Fish habitat. • Significant woodlands. • Significant valleylands. • Habitat of endangered species and threatened species. • Candidate and confirmed significant wildlife habitat (SWH). • Significant areas of natural and scientific interest (ANSI).

Legislation	Policies, Regulations, Guidelines	Summary
		Applicability to Project: The 2024 PPS applies to projects requiring approval under the *Planning Act*, which does not include municipal class EAs. Nonetheless, it is the objective of the Peel Region to meet the intent of the 2024 PPS to the extent possible during this project. The focus area includes several significant natural features including wetlands, potential fish habitat, significant woodlands, candidate and confirmed habitat of Endangered or Threatened species, and candidate and confirmed SWH.
Greenbelt Act, 2005 • Passed in 2005, last amended in 2023	• Greenbelt Plan (2017)	The *Greenbelt Act, 2005* affords protection to natural heritage features by directing future urban growth and development planning within the Golden Horseshoe area. Lands within the Greenbelt Plan area are designated as Protected Countryside, Urban River Valleys, Niagara Escarpment Plan Area, or the Oak Ridges Moraine Area. The purpose of the Act is to protect against the loss or fragmentation of agricultural lands, and to provide a diverse range of economic and social benefits to rural communities through agriculture, tourism, recreational and resource uses. **Applicability to Project:** The focus area falls within the Greenbelt Plan area. The project involves the construction of infrastructure and has been deemed necessary to the public interest and will consider the goals of the Greenbelt Plan to the extent possible.
Conservation Authorities Act • Passed in 1990, last amended in 2024	• Ontario Regulation (O. Reg.) 41/24: Prohibited Activities, Exemptions, and Permits	The *Conservation Authorities Act* empowers Ontario's conservation authorities to regulate activities in natural and hazardous areas (such as streams, floodplains, wetlands, areas in, and near rivers, slopes, and lake shorelines) through Ontario Regulation (O. Reg.) 41/24: Prohibited Activities, Exemptions, and Permits. Section 28(1) of the *Conservation Authorities Act* prohibits activities that straighten, change, divert, or interfere in any way with the existing channel of a river, creek, stream, or watercourse or change or interfere with a wetland. A conservation authority's areas of jurisdiction include hazard lands, wetlands, river or stream valleys, and shorelines and lakes. Conservation authorities may issue a permit under Section 28 of the *Conservation Authorities Act* to allow approved activities to occur within their areas of jurisdiction. **Applicability to Project:** The focus area is located within lands regulated by the Toronto and Region Conservation Authority (TRCA). Any works that have the potential to contravene Section 28 of the *Conservation Authorities Act* will require a permit.
Endangered Species Act, 2007 (ESA) • Passed in 2007, last amended in 2020	O. Regs.: • 230/08 – Species at Risk in Ontario List • 242/08 – General	The ESA provides for the conservation and protection of fauna and flora species within the Province of Ontario that are at risk of extinction. Section 9(1) of the ESA prohibits the killing, harming, harassment, capture, taking, possession, transport, collection, buying, selling, leasing, trading, or offering to buy, sell, lease, or trade species listed as extirpated, endangered, or threatened on the Species at Risk in Ontario (SARO) list (O. Reg. 230/08). Section 10(1) of the ESA prohibits damaging or destroying habitat of endangered or threatened species on the

Legislation	Policies, Regulations, Guidelines	Summary
	• 829/21 – Species Conservation Charges • 830/21 – Exemptions: Species Subject to Species Conservation Charges • 832/21 – Habitat	SARO list. General habitat protection applies to all endangered and threatened species. Species specific habitat protection is also given to those species with regulated habitat, as identified in O. Reg. 242/08. Species designated as special concern are not provided species or habitat protection under the ESA; however, this designation aids in the identification of SWH at the municipal level. For species listed in O. Reg. 830/21, species conservation charges may be applicable when impacts to these species are proposed, as specified in O. Reg. 829/31. When impacts to threatened or endangered species protected under the ESA from a Project are unavoidable, and the conservation charges option is not available, a permit under Section 17 of the ESA may be required. **Applicability to Project**: Species listed as endangered or threatened under O. Reg. 230/08 have the potential to be present within the focus area. Where project activities cannot avoid impacts to these species, a permit under Section 17 of the ESA may be required.
Fish and Wildlife Conservation Act, 1997 (FWCA) • Passed in 1997, last amended in 2023	O. Regs.: • 669/98 – Wildlife Schedules • 664/98 – Fish Licensing	The intent of the FWCA is to conserve the fish and wildlife resources in Ontario by regulating hunting, trapping, and fishing, and related activities, the management of live wildlife and fish, and the sale, purchase, and transport of fish and wildlife. The FWCA prohibits the damage and destruction of a den or habitual dwelling of a furbearing mammal (as listed on Schedule 1 O. Reg. 669/98, except for foxes and skunks). Appropriate licenses are required to trap, handle, relocate, or possess certain birds, mammals, reptiles, and amphibians. **Applicability to Project:** At the construction stage of the project, a Wildlife Scientific Collector's Authorization (WSCA) and/or a License to Collect Fish for Scientific Purposes (LCF) permit may be required to facilitate the relocation of wildlife and fish from within construction areas as needed.

Legislation	Policies, Regulations, Guidelines	Summary
Municipal Policies, Guidelines, and By-Laws		
Peel Region Official Plan • Adopted by Council in 2022, Approved by MMAH in 2022, June 2024 Office Consolidation	N/A	Peel Region's Official Plan was adopted by Regional Council on April 28, 2022, and came into effect November 4, 2022. It provides an important framework for managing the competing demands between population growth and natural landscape protections. It adopts policies and programs on an ecosystem basis to protect ecological integrity and to enhance the natural environment. As of July 1, 2024, Peel Region's Official Plan is deemed to constitute an official plan of Peel's lower tier municipalities (Brampton, Caledon and Mississauga). The Greenlands System identifies Core Areas within the landscape. These include wetlands, woodlands, valleylands, stream corridors, shorelines and lakes, ANSIs, significant wildlife habitat and other natural or protected areas. **Applicability to Project:** The focus area contains Core Areas as part of the Greenlands System. These lands are subject to the natural heritage policies as outlined in the Peel Region Official Plan.
Town of Caledon Official Plan and Draft Future Caledon Official Plan		The existing Town of Caledon Official Plan dates to 1978 and is in the process of being replaced through the ongoing Official Plan Review project. A draft Future Caledon Official Plan was issued in February 2024 and represents the first phase of the preview project. The new draft official plan has established a Natural Environment System comprised of Natural Features and Areas (with 30 m buffers), Supporting Features and Areas, Potential Linkages, and Potential Enhancement Areas. **Applicability to Project:** The focus area overlaps with the Town's draft Natural Environment System.

3 METHODOLOGY

3.1 Background Information Review and Species at Risk Screening

As part of the *Draft Natural Heritage Existing Conditions Report* (Matrix 2023), a detailed review of online databases was completed to compile information on natural heritage features, species, and wildlife habitats present within the focus area. Master species lists were prepared for plants and wildlife reported within a 10 km radius of the focus area using the wildlife atlases and research-grade observations from reviewed databases. An initial desktop review of potential SAR was then completed. The results of the desktop review and SAR screening are summarized in this report, however for full master species lists and the detailed SAR screening, the reader is referred to the *Draft Natural Heritage Existing Conditions Report* (Matrix 2023).

3.1.1 Species at Risk Definition

Species at Risk (SAR) are defined as species that are listed as Extirpated, Endangered, Threatened, or Special Concern under O. Reg. 230/08 of the *Endangered Species Act, 2007* (ESA). Extirpated, Endangered and Threatened species and their habitats are protected under the ESA. Although Special Concern species do not receive the same protection under the ESA as Extirpated, Threatened or Endangered species, they are still considered as part of this study since they are the most likely to be uplisted to Threatened or Endangered, which can have implications for projects with lengthy timelines. SAR also include species that are listed as Endangered or Threated under Schedule 1 of the federal *Species at Risk Act* (SARA) if they are either fish or migratory birds protected under the *Migratory Birds Convention Act, 1994* (MBCA). The SARA applies to federal lands, but also applies to Schedule 1-listed fish and migratory birds anywhere they occur (including non-federal land).

3.2 Field Investigations

In 2024, a high-level windshield survey was completed followed by several targeted field surveys to characterize the existing conditions of the aquatic and terrestrial ecosystems within the focus area. Table 2 provides an overview of all field investigations completed, including dates, survey type, and information collected, general location, and Montrose personnel that completed the investigations. Where permission to enter privately owned property was not available, all investigations were conducted by observing from within the existing road ROW or adjacent lands.

A representative from the Haudenosaunee Development Institute (HDI) accompanied Montrose personnel during the November 7, 8, and December 5, 2024 field visits.

TABLE 2 Overview of Field Investigations and Information Collected

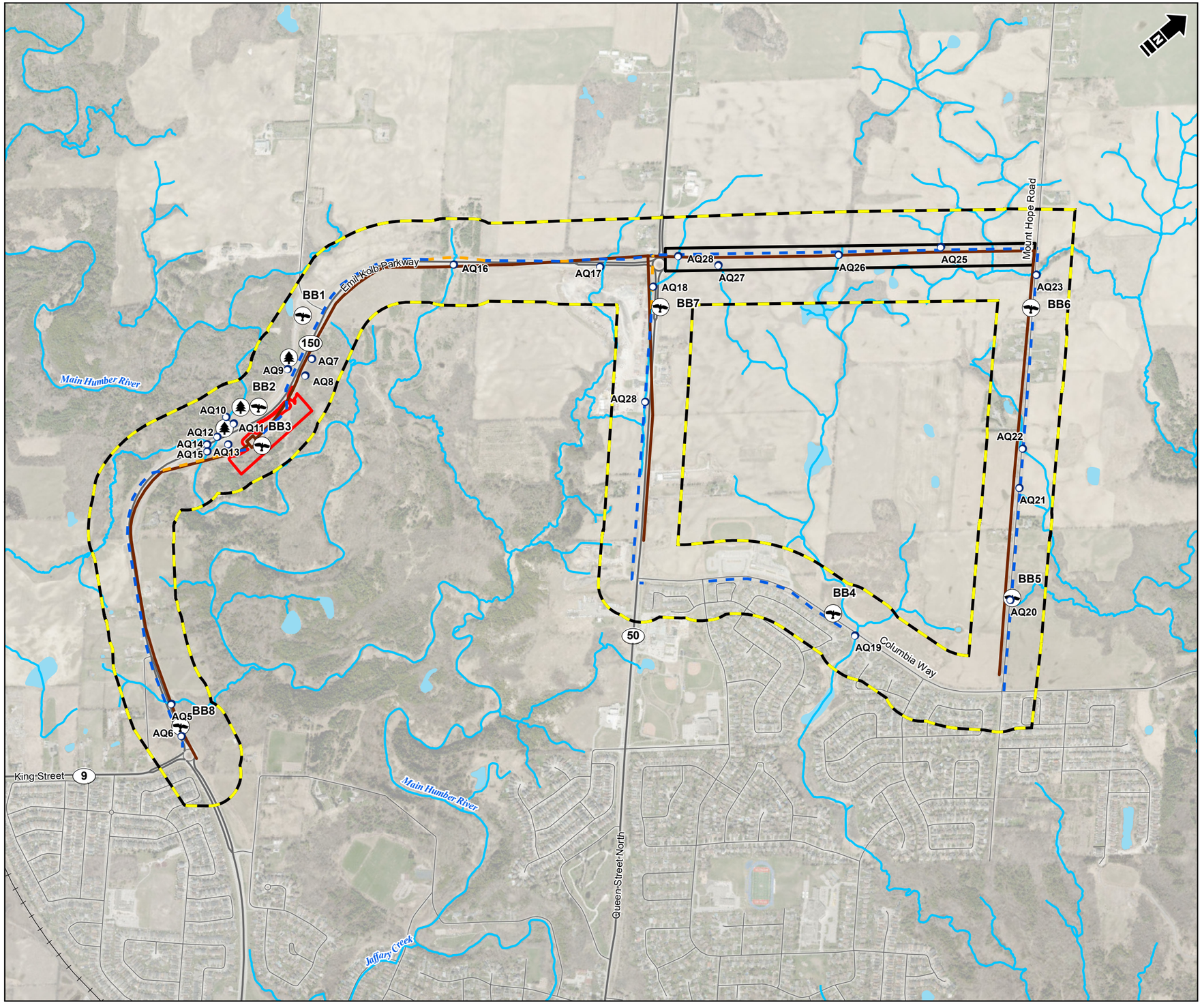
Date (2024)	Survey Type	Information Collected	Location	Personnel
June 5	Windshield Survey	• Ecological Land Classification • Invasive species presence • Water crossing inventory • High-level aquatic assessment (some water crossings only) • Incidental wildlife • High-level bat roost tree counts • General site observations	Full focus area	E. Ottens M. Roulston

Date (2024)	Survey Type	Information Collected	Location	Personnel
June 27 July 8	Breeding Bird Surveys	• Breeding bird point counts • Incidental wildlife • High-level bat roost tree counts • Woodpecker cavity observation and measurements • General site observations	Full focus area	A. Perez M. Roulston
August 8	Aquatic Habitat Assessment	• Water crossing inventory • Aquatic habitat assessment • Incidental wildlife • General site observations	Full focus area	B. Cole A. Perez
November 5	Site Reconnaissance, Wetland Delineation, Woodland Delineation,	• Wetland vegetation and boundaries • Headwater drainage feature locations • Bat roost tree counts • Woodland boundaries • Incidental wildlife • General site observations	Utility Corridor	A. Luke A. Perez
November 7, 8, 14	Tree Inventory	• Tree location and health data • Incidental wildlife • General site observations	SPS Footprint / TRCA-owned Lands	A. Luke A. Perez M. Roulston
December 5	Site Reconnaissance, Wetland Delineation	• Wetland vegetation and boundaries • Headwater drainage feature locations • Incidental wildlife • General site observations	Utility Corridor, SPS Footprint	A. Perez M. Roulston

3.2.1 Aquatic Habitat Assessments

An inventory of aquatic crossings was completed within the focus area to determine the number and location of potential water crossings within the proposed alignment. At each of the 19 crossings (AQ5 to AQ23 on Figure 3), information on habitat suitability and watercourse connectivity was collected to determine whether the crossing was considered potential fish habitat. Photographs were taken at each site, and information was collected on the dominant vegetation species and any other notable features within 15 m of the water crossing.

A high-level aquatic habitat assessment was completed based on *Ontario Stream Assessment Protocol* (OSAP; Stanfield 2017) methodologies at key water crossings. This included the main Humber River crossing, and others where Redside Dace habitat had the potential to be present. Detailed notes and photos were taken to document the channel conditions at these sites.



- Focus Area
- Utility Corridor
- Approximate Proposed SPS Footprint
- Waterbody
- Watercourse
- Highway
- Road
- Railway
- Watermain Alignment (Open Cut)
- Watermain Alignment (Tunnelled)
- Sanitary Sewer Alignment
- Breeding Bird Survey Point
- Woodpecker Cavity Tree Survey Point
- Water Crossing

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1:15,000 metres
150 0 150 300
NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

GEI Consultants
Bolton EA

Field Survey Locations

Date:	Project:	Submitter:	Reviewer:
April 2025	36069	D. Frey	S. Geddes

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Figure 3

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The following information was documented within the road ROW during assessments:

- Channel morphology.
- Flow conditions.
- Substrate type and composition.
- Instream habitat and cover.
- Riparian and aquatic vegetation.
- Potential fish habitat or presence of fish.
- Adjacent lands (vegetation community type, riparian habitat, canopy cover, land use, etc.).

3.2.2 Preliminary Headwater Drainage Feature Assessment

A field review of candidate headwater drainage features (HDFs) within the Utility Corridor was completed in December 2024 to determine if HDFs were present and to record preliminary information. This information supplemented the HDF assessments completed by Dillon Consulting Ltd. (Dillon) and summarized in the *Secondary Plan Natural Heritage Study Report – Option 1/2 Lands* (Dillon 2021). HDFs are typically assessed in the spring and summer, therefore these investigations were preliminary.

3.2.3 Ecological Land Classification and Vegetation

Vegetation communities overlapping with the focus area were characterized following the *Ecological Land Classification System for Southern Ontario First Approximation Methods* (Lee et al. 1998). A rapid vegetation assessment and plant list was completed for each identified community where site access was available. The inventory documented existing vascular flora, potential rare species, notes on community disturbance, and presence of invasive species.

3.2.4 Wetland Boundary Delineation

Wetland boundaries within the Utility Corridor were documented in the field on November 5 and December 5, 2024 using a Juniper Systems Geode GNS3S GPS receiver coupled with the FieldMaps application. Wetland community boundaries were determined following protocols outlined in the Ministry of Natural Resources and Forestry (MNRF) Ontario Wetland Evaluation System (OWES) for Southern Ontario (Fourth edition). Wetland delineation surveys are typically completed between May and September, and so this late-season investigation was preliminary. Preliminary wetland boundaries are show alongside ELC community mapping (see below).

3.2.5 Tree Inventory

An inventory of trees greater than 10 cm diameter at breast height (DBH) was completed within two specific areas located on lands owned by the TRCA: the proposed SPS Footprint, and a second parcel of land within a grassy island separating Emil Kolb Parkway from the parking lot that is south of Duffy's Lane. Information collected during the tree inventory included tree species, DBH, GPS location, crown spread, structural abnormalities, tree health/disease, and potential to support roosting bats. The results of the tree inventory are summarized in this report; however, the full details are provided under separate cover in the *Arborist Report – Sanitary Pumping Station* (Montrose 2025).

3.2.6 Wildlife Surveys

3.2.6.1 Breeding Bird Surveys

Early morning breeding bird surveys were completed at ten stations throughout the focus area (**Figure 3**)**.** Breeding bird surveys were carried out following the *Ontario Breeding Bird Atlas* (OBBA; 2001) and the *Forest Bird Monitoring Protocol* (FBMP, TRCA 2016).

As outlined in the OBBA and FBMP protocols, two 10-minute point-count surveys were completed at each station during the breeding bird period between May 24 and July 10. Surveys were completed between dawn and five hours after dawn under appropriate weather conditions (i.e., no precipitation, calm to light winds). Both visual and audible evidence of species were recorded, including the highest level of breeding evidence exhibited.

3.2.6.2 Bat Roost Tree Assessments

Simultaneously with breeding bird surveys and the tree inventory, high-level assessments were completed from the road ROW and where site access was available to identify trees with features that may support roosting bats within the focus area. Characteristics of each candidate tree were recorded, including tree size (DBH), decay class (as per Watt and Caceres 1999), and the presence of bat habitat features such as leaf clusters, cracks, cavities, and loose or peeling bark. The tree inventory within the proposed SPS Footprint and the Duffy's Lane parcel was completed during leaf-off conditions, which permitted a thorough examination of these trees for their potential to provide bat habitat.

3.2.6.3 Woodpecker Cavity Tree Assessments

During initial field surveys, woodpecker feeding cavities were observed in trees located within the woodlands near where the Emil Kolb Parkway crosses the Humber River. These trees were assessed further during subsequent surveys to determine if they had the potential to support nesting Pileated Woodpecker (*Dryocopus pileatus*). For each candidate tree, the number, size (length, width, and depth), height, and tree species were recorded.

3.2.6.4 Incidental Wildlife

Incidental wildlife data were collected during all site visits, and included direct observations as well as sign (e.g., scat, tracks, vocalizations) of any birds, mammals, amphibians, reptiles, bumble bees, odonates (dragonflies and damselflies), and butterflies.

4 SUMMARY OF EXISTING CONDITIONS

The following sections present a general summary of the existing natural heritage conditions within the focus area specific to the preliminary preferred watermain and sanitary sewer alignments. For additional details on the information presented below, the reader is referred to the *Windshield Survey Technical Memo* (Matrix 2024a) and the *Natural Heritage Existing Conditions – Interim Report* (Matrix 2024b).

4.1 Aquatic Systems

4.1.1 Watercourses

The focus area is within the main Humber River watershed and overlaps in various locations with the Humber River and its tributaries (including tributaries to Cold Creek, which is itself a tributary to the Humber River). In total, 19 aquatic habitat crossing locations are present within the focus area, as summarized in Table 3 and shown on Figure 3. Of these, eight crossing locations along six watercourses were observed to support direct fish habitat (Table 3): the Humber River (AQ10, AQ12, AQ15), three unnamed tributaries to the Main Humber River (AQ5, AQ14, and AQ16), and two unnamed tributaries to Cold Creek (AQ19 and AQ20).

4.1.2 Headwater Drainage Features

Within the Utility Corridor, several HDFs are present (Figure 4), as determined by Dillon (2021) and during December 2024 field investigations completed for this study. Dillon's HDF assessment was completed as outlined in the *Evaluation, Classification and Management of Headwater Drainage Features Guidelines* (TRCA and CVC 2014). Most of the lands within the Utility Corridor are comprised of regularly tilled agricultural fields, however four HDFs bisect the Corridor and flow from the north to the south across the preliminary preferred alignment:

- **Feature BN-15**: assigned a management strategy of 'Mitigation,' this feature contains emergent hydrophytic vegetation (e.g., cattails) and does not appear to be regularly tilled.
- **Feature BN-16:** assigned a management strategy of 'Mitigation,' this feature appears to be regularly tilled.
- **Feature BN-17**: assigned a management strategy of 'Conservation,' this feature has defined bed and banks and does not appear to be regularly tilled.
- **Unnamed Feature**: located 160 m southwest of Mount Hope Road, this feature has not yet been assigned a management strategy. However, based on December 2024 investigations, the feature appears to have defined bed and banks and is within a naturalized cultural meadow. The feature also connects downstream to a meadow marsh (MAM) that forms part of the Castlederg Provincially Significant Wetland (PSW) Complex.

Additional field investigations during the appropriate time of year (early spring, mid-spring, and summer) are necessary to determine if tunnelling below these features is recommended to preserve important hydrological and ecological functions.

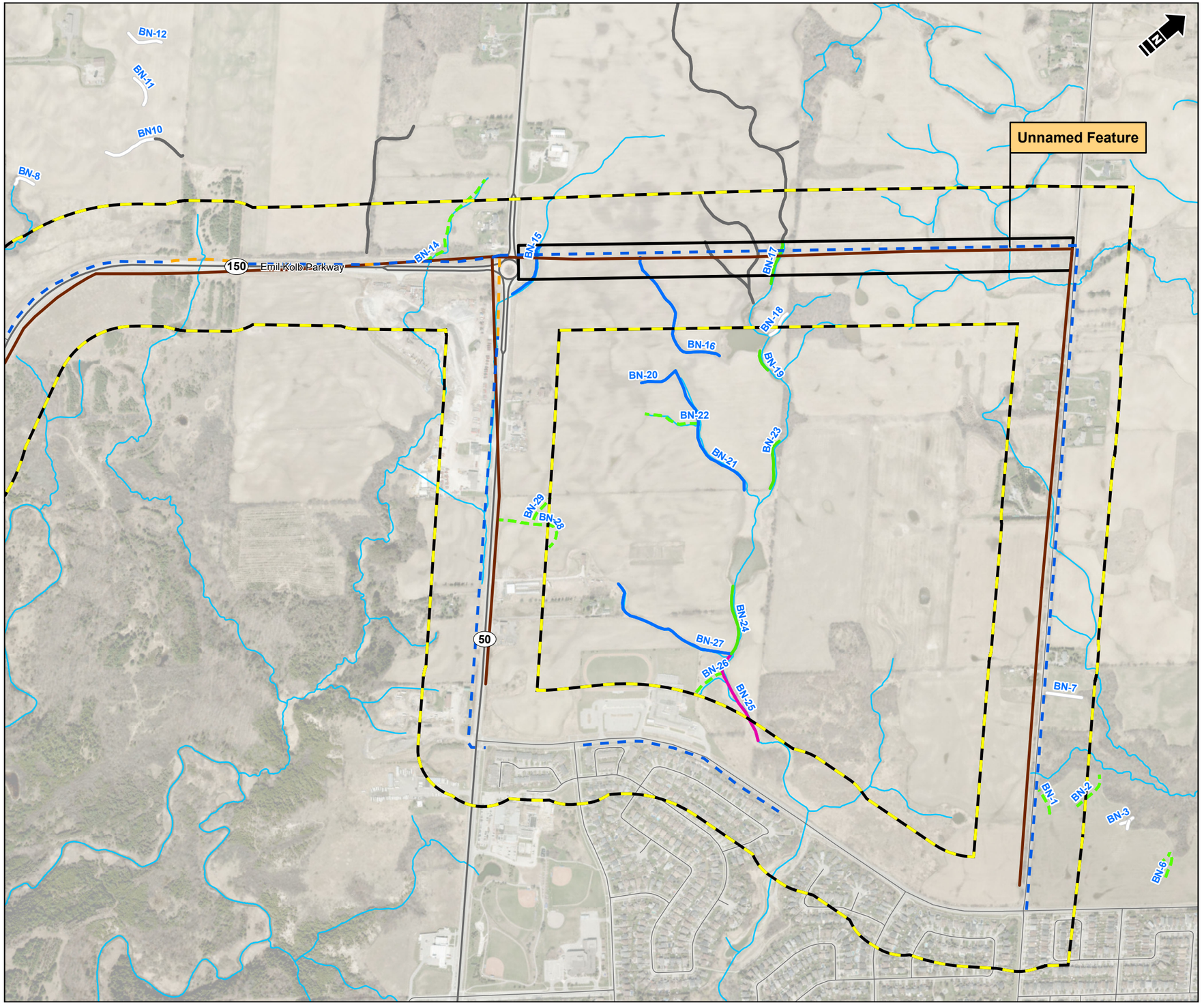
4.1.3 Fish and Freshwater Mussels

Based on the background review (Matrix 2023), records for 37 fish species and 5 freshwater mussel species are reported from within the focus area. Except for one SAR fish (Redside Dace), all species are common and secure in Ontario.

TABLE 3 Watercourses within Focus Area

Tributary Code	Feature	Location	Comments	Direct Fish Habitat Identified?	Redside Dace Critical Habitat?
Humber River					
AQ 5	Tributary to Humber River	Emil Kolb Parkway crossing. 190 m west of roundabout with King Street.	Connected culvert. 360 m upstream of Humber River through dense forest.	**Yes**	**Potential**
AQ 6	Drainage Ditch	Emil Kolb Parkway crossing. 75 m west of roundabout with King Street intersection.	Drainage pipe under Emil Kolb Parkway.	No	N/A
AQ 7 AQ 8 AQ 9	Isolated Wetland	Along Emil Kolb Parkway. AQ 7: 176 m southeast of intersection with Duffy's Lane. AQ 8: 251 m southeast of intersection with Duffy's Lane. AQ 9: 200 m southeast of the parking lot on Duffy's Lane.	Wetland feature with open water. Not connected to the Humber River through surface flow.	No	N/A
AQ 10 AQ 12 AQ 15	Main Humber River	Humber River. AQ 10: 96 m upstream of Emil Kolb overpass. AQ 12: under Emil Kolb overpass. AQ 15: under multiuse trail bridge.	Large watercourse. DFO has identified the feature as Redside Dace Critical Habitat.	**Yes**	**Confirmed**
AQ 11	Drainage Ditch	Emil Kolb Parkway. 484 m southeast of parking lot for Humber River at Duffy's Lane.	Drainage pipe under Emil Kolb Parkway.	No	N/A
AQ 13	Drainage Ditch	Emil Kolb Parkway. 538 m southeast of parking lot for Humber River, next to multi-use trail.	Drainage pipe under Emil Kolb Parkway.	No	N/A
AQ 14	Tributary to Humber River	Under the Emil Kolb Parkway overpass. 585 m south of parking lot for Humber River.	Watercourse is directly connected to Humber River. Crossing is approx. 18 m from the connection point. Watercourse dries in the summer, but evidence of flooding during high water events. Only a seasonal fish passage barrier.	**Yes**	**Potential**
AQ 16	Tributary to Humber River	Emil Kolb Parkway. 514 m northeast of intersection with Duffy's Lane.	Large watercourse. Heavily vegetated with minimal open water. 1,600 m upstream of Humber River.	**Yes**	**Potential**
AQ 17	Tributary to Humber River	Emil Kolb Parkway. 207 m southwest of roundabout with Highway 50.	Watercourse is buried under an industrial facility.	No	N/A

Tributary Code	Feature	Location	Comments	Direct Fish Habitat Identified?	Redside Dace Critical Habitat?
AQ 18 / AQ 28 / AQ 29 (BN-15)	Drainage Ditch / Headwater drainage feature	Highway 50 and Utility Corridor	Drainage ditch. No habitat present. Management of headwater drainage feature identified as 'Mitigation' (Dillon 2021).	No	N/A
Humber River – Cold Creek					
AQ 19	Tributary to Cold Creek	Columbia Way, at intersection with multiuse trail between Foxchase Drive and Schaefer Place cul-de-sacs. 825 m northeast of intersection with Highway 50.	Watercourse flows to the east. Culvert under Columbia Way may be a barrier to fish passage upstream.	Yes	No
AQ 20	Tributary to Cold Creek	Mount Hope Road. 350 m northwest of intersection with Columbia Way.	Upstream is forested. Flows east from Mount Hope Road.	Yes	No
AQ 21	Drainage Ditch	Mount Hope Road. 1,100 m northwest of intersection with Columbia Way.	Drainage ditch connected to an agricultural swale. No defined bed and bank.	No	N/A
AQ 22	Drainage Ditch	Mount Hope Road. 1,415 m northwest of intersection with Columbia Way.	Drainage pool connected to an agricultural swale. No defined bed and bank.	No	N/A
AQ 23	Agricultural Swale	Mount Hope Road. 2,883 m northwest of intersection with Columbia Way.	Has defined bed and bank. Is wet during part of the year. Upstream connection point is unclear. May be part of a headwater drainage feature.	No	N/A
AQ 24 (Unnamed Feature)	Headwater drainage feature	Utility Corridor. 190 m southwest of Mount Hope Road.	Defined bed and bank. Flows north to south towards wetland.	No	N/A
AQ 25	Headwater drainage feature	Utility corridor. 340 m southwest of Mount Hope Road.	Ponded water.	No	N/A
AQ 26 (BN-17)	Headwater drainage feature	Utility Corridor. 640 m northeast of Highway 50 roundabout with Emil Kolb Parkway.	Management of headwater drainage feature identified as 'Conservation' (Dillon 2021).	No	N/A
AQ 27 (BN-16)	Headwater drainage feature	Utility Corridor. 330 m northeast of Highway 50 roundabout with Emil Kolb Parkway.	Management of headwater drainage feature identified as 'Mitigation' (Dillon 2021).	No	N/A



- Focus Area
- Utility Corridor
- Watercourse
- Highway
- Road
- Watermain Alignment (Open Cut)
- Watermain Alignment (Tunnelled)
- Sanitary Sewer Alignment

Headwater Drainage Features (Dillon 2021)

- Protection
- Conservation
- Mitigation
- No Management
- Not an HDF
- No Feature Observed

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MONTROSE ENVIRONMENTAL

GEI Consultants
Bolton EA

Headwater Drainage Features

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 4

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4.1.3.1 Species at Risk

Aquatic SAR mapping provided by the DFO identifies critical habitat for one aquatic SAR, Redside Dace, within the Humber River (DFO 2024). Tributaries connected to the Humber River also have the potential to provide habitat for this species. Redside Dace are currently listed as Endangered under both the federal *Species at Risk Act* (SARA) and the provincial ESA due to the ongoing loss of suitable habitat and habitat modifications due to intensive urban development. Critical habitat for the species that is protected under the SARA and ESA includes:

- Run, riffle, or pool areas in stream reaches with moderate flow (juveniles), or fast flow (adults).
- The entire bankfull channel width.
- Meander belt width, including the riparian vegetation within it.
- 30 m of vegetated area extending from the meander belt width (but excluding any anthropogenic structures or features).

Confirmed and potential Redside Dace critical habitat within the focus area are both shown on Figure 5. The Meander Belt mapping available from the TRCA was used for the purposes of defining Redside Dace critical habitat, and confirmed habitat corresponds to that mapped by DFO in the Aquatic SAR Mapping tool (DFO 2024). Where a watercourse reach was functionally connected to a reach identified by DFO as critical habitat, and appropriate habitat characteristics were present, these reaches were identified as potential Redside Dace critical habitat.

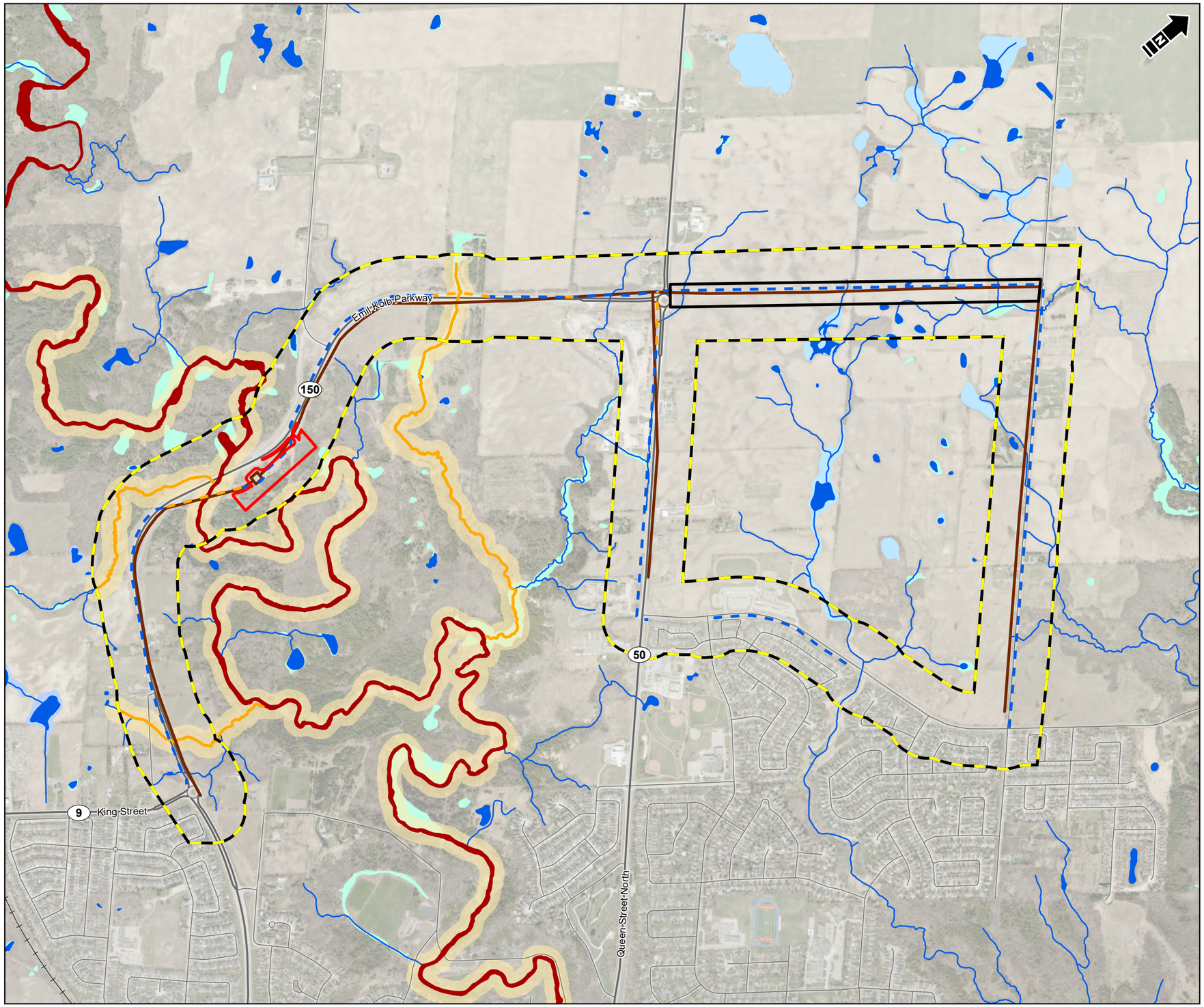
Based on the analyses completed, four watercourses provide confirmed or potential habitat for Redside Dace (Figure 5): the Humber River (AQ10, AQ12, AQ15), and three unnamed tributaries to the Humber River (AQ5, AQ14, and AQ16). There are no records of Redside Dace or their critical habitat within Cold Creek or its tributaries. Although the features at AQ19 and AQ20 are considered direct fish habitat, no habitat for aquatic SAR is present (Table 3).

4.2 Terrestrial Systems

4.2.1 Designated Natural Features

The following designated natural features are present within the focus area:

- Greenbelt Plan Protected Countryside and Natural Heritage System.
- Peel Region Greenlands System Core Areas.
- Town of Caledon Natural Environment System, inclusive of:
    - Significant Woodlands.
    - Evaluated and Unevaluated Wetlands.
    - Valley and Stream Corridors.
- Bolton Resource Management Tract (BRMT).
- TRCA-regulated lands and Flood Hazard areas.
- Humber River and associated Valleylands.
- Castlederg PSW Complex.



- Focus Area
- Utility Corridor
- Approximate Proposed SPS Footprint
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Watermain Alignment (Open Cut)
- Watermain Alignment (Tunnelled)
- Sanitary Sewer Alignment

Redside Dace Habitat

- Potential Redside Dace Critical Habitat (Matrix 2024)
- Redside Dace Critical Habitat (DFO, 2024)
- Potential Redside Dace Habitat (Matrix, 2024)

Wetland

- Castlederg Wetland Complex
- Bolton Wetland Complex
- Other Wetland

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NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

GEI Consultants
Bolton EA

Redside Dace Critical Habitat

Date:	Project:	Submitter:	Reviewer:
May 2025	36069	D. Frey	S. Geddes

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Figure 5

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4.2.2 Vegetation Communities

In total, 11 vegetation communities were documented within the focus area (**Table 4, Figure 6**). No locally rare vegetation communities, locally rare plants, or SAR plants were observed during field investigations.

TABLE 4 Vegetation Communities within Focus Area

ELC Code	ELC Community Type
AG	Agriculture
CUW	Cultural Woodland
CUM	Cultural Meadow
CUP	Plantation
CUS	Cultural Savannah
CUT	Cultural Thicket
CVC	Commercial and Institutional
CVR	Residential
FOD	Deciduous Forest
MAM	Meadow Marsh
SWT	Thicket Swamp

4.2.3 Wildlife

The focus area provides habitat for a diversity of wildlife species. Based on the background review (Matrix 2023), secondary sources report records of 157 bird species, 22 herpetofauna species (reptiles and amphibians), 45 mammal species, and 1,315 insect species from the vicinity of the focus area. Most of these wildlife species are common in southern Ontario; however, provincially rare species are also reported.

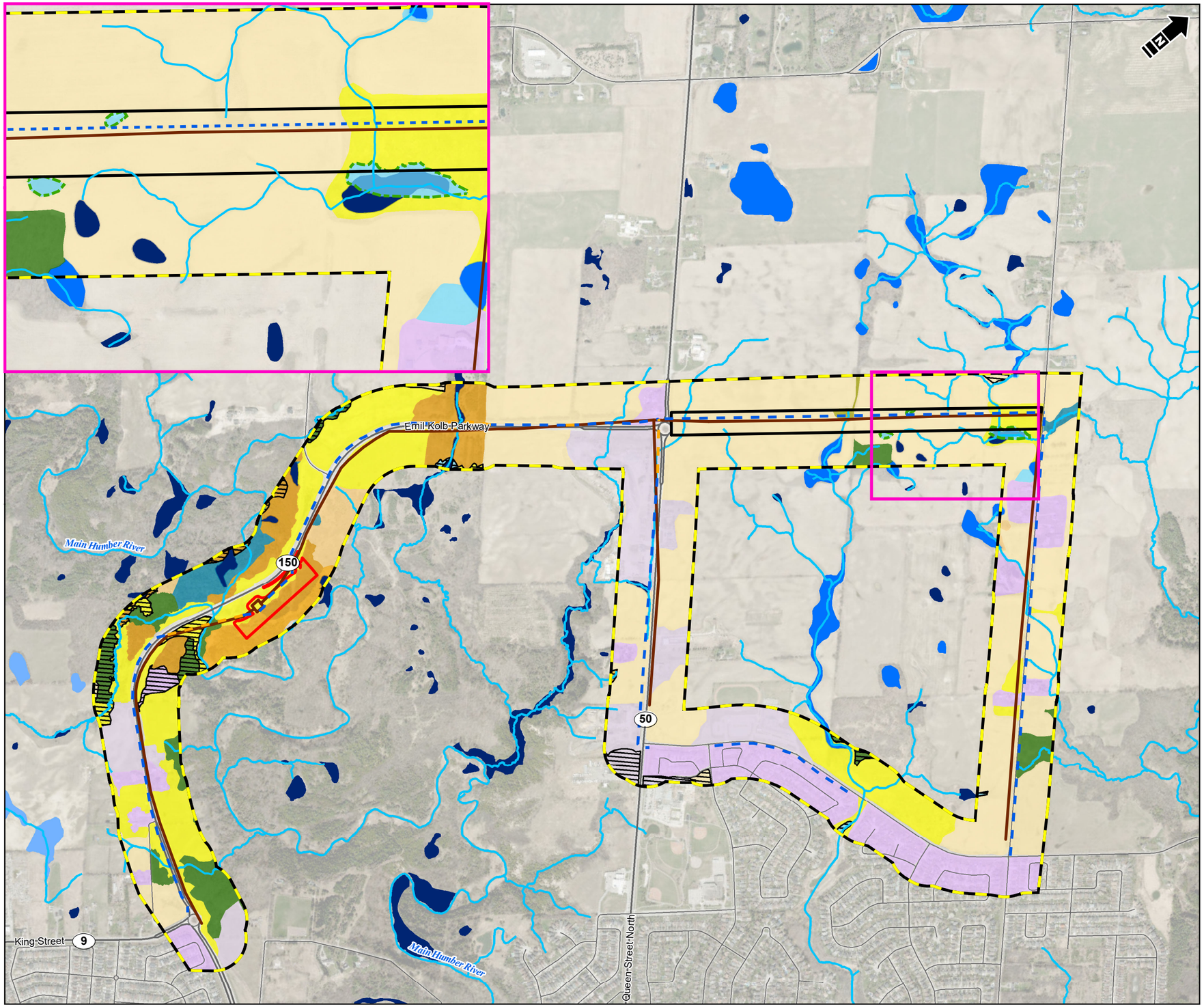
During 2024 field investigations, 53 species of wildlife were observed (Table 5). Three of the observed species are listed under the ESA:

- Wood Thrush (*Hylocichla mustelina*) – Special Concern.
- Bank Swallow (*Riparia riparia*) – Threatened.
- Barn Swallow (*Hirundo rustica*) – Special Concern.

The remaining species are all common and secure within Ontario.

Results of the woodpecker cavity tree assessments completed within the focus area did not indicate that Pileated Woodpecker nesting cavities are present in areas that may be impacted by project activities. This species was also not observed during breeding bird surveys.

During 2024 breeding bird surveys within the focus area, 19 avian species were observed. Except for the species listed under the ESA, all species have stable populations in Ontario.



- Focus Area
- Utility Corridor
- Approximate Proposed SPS Footprint
- Wetland (Field Verified)
- Watercourse
- Highway
- Road
- Watermain Alignment (Open Cut)
- Watermain Alignment (Tunnelled)
- Sanitary Sewer Alignment

Ecological Land Classification

- AG: Agriculture
- CUW: Cultural Woodland
- CUM: Cultural Meadow
- CUP: Plantation
- CUS: Cultural Savannah
- CUT: Cultural Thicket
- CVC: Commercial and Institutional
- CVR: Residential
- FOD: Deciduous Forest
- MAM: Shallow Marsh
- SWT: Thicket Swamp

Wetland

- Castlederg Wetland Complex
- Bolton Wetland Complex
- Other Wetland

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NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

GEI Consultants
Bolton EA

Ecological Land Classification

Date:	Project:	Submitter:	Reviewer:
April 2025	36069	D. Frey	S. Geddes

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Figure 6

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TABLE 5 Wildlife Species Observed during 2024 Field Investigations

Common Name	Scientific Name	ESA Status	SARA Status
Birds			
American Crow	*Corvus brachyrhynchos*	-	-
American Goldfinch	*Spinus tristis*	-	-
American Robin	*Turdus migratorius*	-	-
American Tree Sparrow	*Spizella arborea*	-	-
Baltimore Oriole	*Icterus galbula*	-	-
Bank Swallow	*Riparia riparia*	**THR**	**THR**
Barn Swallow	*Hirundo rustica*	**SC**	-
Black-capped Chickadee	*Poecile atricapillus*	-	-
Blue Jay	*Cyanocitta cristata*	-	-
Brown-headed Cowbird	*Molothrus ater*	-	-
Canada Goose	*Branta canadensis*	-	-
Carolina Wren	*Thyrothorus ludovicianus*	-	-
Cedar Waxwing	*Bombycilla cedrorum*	-	-
Chestnut-sided Warbler	*Setophaga pensylvanica*	-	-
Chipping Sparrow	*Spizella passerina*	-	-
Common Grackle	*Quiscalus quiscala*	-	-
Common Raven	*Corvus corax*	-	-
Common Yellowthroat	*Geothylupis trichas*	-	-
Eastern Phoebe	*Sayornis phoebe*	-	-
European Starling	*Stumus vulgaris*	-	-
Field Sparrow	*Spizella pusilla*	-	-
Gold-crested Kinglet	*Regulus satrapa*	-	-
Great Blue Heron	*Ardea Herodias*	-	
Great Crested Flycatcher	*Myiarchus crinitus*	-	-
House Sparrow	*Passer domesticus*	-	-
House Wren	*Troglodytes aedon*	-	-
Indigo Bunting	*Passerina cyanea*	-	-
Killdeer	*Charadrius vociferus*	-	-
Mallard	*Anas platyrhynchos*	-	-
Mourning Dove	*Zenaida macroura*	-	-
Northern Cardinal	*Cardinalis cardinalis*	-	-
Northern Flicker	*Colaptes auratus*	-	-
Pine Warbler	*Setophaga pinus*	-	-
Red-eyed Vireo	*Vireo olivaceus*	-	-
Red-winged Blackbird	*Agelaius phoeniceus*	-	-
Ring-billed Gull	*Larus delawarensis*	-	-
Rose-breasted Grosbeak	*Pheucticus melanocephalus*	-	-
Savannah Sparrow	*Passerculus sandwichensis*	-	-
Song Sparrow	*Melospiza melodia*	-	-
Tree Swallow	*Tachycineta bicolor*	-	-
Turkey Vulture	*Cathartes aura*	-	-
Vesper Sparrow	*Pooecetes gramineus*	-	-

Common Name	Scientific Name	ESA Status	SARA Status
Wood Thrush	*Hylocichla mustelina*	**SC**	**THR**
Herpetofauna			
Eastern Gartersnake	*Thamnophis sirtalis sirtalis*	-	-
Green Frog	*Lithobates clamitans*	-	-
Mammals			
Eastern Cottontail	*Sylvilagus floridanus*	-	-
Grey Squirrel	*Sciurus carolinensis*	-	-
Invertebrates			
Cabbage White	*Pieris rapae*	-	-
Common Green Darner	*Anax junius*	-	-
Eastern Tiger Swallowtail	*Papilio glaucus*	-	-
Green Stink Bug	*Chinavia hilaris*	-	-
Spittlebug	Superfamily Cercopoidea	-	-
Spring Azure	*Celastrina ladon*	-	-

Notes:
ESA – *Endangered Species Act*
SARA – *Species at Risk Act*
SC – Special Concern
THR - Threatened

4.2.3.1 Species at Risk

During the background review (Matrix 2023, 2024a), 29 SAR were identified as having records within the vicinity of the focus area. Of these species, three were observed during field investigations, and an additional seven species are considered to have potential habitat within the focus area based on the vegetation communities present, as summarized in Table 6.

TABLE 6 Species at Risk with Confirmed or Potential Habitat within the Focus Area.

Common Name	Scientific Name	ESA Status	Location of Confirmed or Potential Habitat within Focus area
Bank Swallow	*Riparia riparia*	THR	Species was observed at BB7 during both surveys. Multiple large aggregate piles were present within a construction site near BB7, and it is considered likely that the species is nesting in these piles. Wetlands and agricultural fields provide foraging habitat.
Barn Swallow	*Hirundo rustica*	SC	Species was observed at BB6 and BB7. Human-made structures within the focus area may support nesting habitat, and wetlands and agricultural fields provide foraging habitat.
Wood Thrush	*Hylocichla mustelina*	SC	Species was observed near BB1. Woodland habitats along the Humber River are confirmed habitat for the species.
Rapids Clubtail	*Phanogomphus quadricolor*	THR	A known population of the species is present on the Humber River between Nashville Road at Kleinburg and King Street West at Bolton. Suitable habitat is present within the focus area where Emil Kolb Parkway crosses the Humber River.

Common Name	Scientific Name	ESA Status	Location of Confirmed or Potential Habitat within Focus area
Little Brown Myotis	*Myotis lucifugus*	END	Buildings and treed habitats within the focus area may provide suitable habitat for these species.
Northern Myotis	*Myotis septentrionalis*	END	
Tri-colored Bat	*Perimyotis subflavus*	END	Treed habitats within the focus area may provide suitable habitat for these species.
Silver-haired Bat	*Lasionycteris noctivagans*	END	
Eastern Red Bat	*Lasiurus borealis*	END	
Hoary Bat	*Lasiurus cinereus*	END	

Notes:
ESA – *Endangered Species Act*
END – Endangered
THR – Threatened
SC – Special Concern

5 IMPACT ASSESSMENT

5.1 Summary of Proposed Works

The preliminary preferred design is shown on **Figure 2** and includes the installation of a new watermain (predominantly via open cut), construction of a new SPS, installation of new gravity sanitary sewers (predominantly via trenchless technology), and the installation of a twin forcemain (entirely via open cut). Additional information on the proposed works is provided in **Section 1.2.**

Although the watermain will be installed mostly by open cut technology, seven launching or receiving shafts (W01 to W07) are proposed to accommodate the use of trenchless technology for installation of the watermain below fish habitat and existing infrastructure. Five shaft compound areas are needed to accommodate W01 to W07 (**Figure 2**).

New gravity sanitary sewers will be installed using trenchless technology, with a total of 15 shafts (S01 to S15) proposed and six shaft compound areas (**Figure 2**). Several shafts will also be used for both watermain and sanitary sewer installation (W01/S01, W06/S05, and W07/S06 pairings will share shafts).

Watermain, forcemain, and sanitary sewer installation will occur entirely within the road ROW of Emil Kolb Parkway, Highway 50, Mount Hope Road, and the Utility Corridor. The new SPS is proposed to be located on the east side of Emil Kolb Parkway, approximately 500 m south of Duffy's Lane.

The design will adhere to the required setbacks and minimum depths required to minimize impacts to natural features.

5.2 Approach to Impact Assessment

The elements of the preliminary preferred water and wastewater solutions that have the potential to result in impacts to natural heritage features include:

- Open cut installation methods.
- Construction of shafts and shaft compounds.
- Construction of the new SPS.

The following sections identify, describe, and discuss the existing and potential impacts to the identified natural heritage features within the focus area from the preliminary preferred design. The construction stage of the project will have short-term impacts, which are temporary and generally preventable through appropriate construction practices and site inspection. Long-term impacts are related to post-construction activities, which can be mitigated by careful planning, construction design and good environmental management practices.

Since the tunnelled segments will be at a minimum of 3 m depth under natural environment features, these tunnelled segments are not anticipated to have any impacts and will not require specific mitigation measures during construction.

5.3 Existing Impacts

To adequately assess the potential impacts of the proposed preliminary water and wastewater solutions within the focus area, it is necessary to identify existing impacts that are currently present prior to the initiation of the proposed work. The identification of these impacts will assist in determining whether, following construction, impacts are a result of the proposed works or a result of previous and unrelated activities within the focus area. Additionally, some existing impacts may provide an opportunity to implement restoration measures. Through the completion of field surveys in 2024, the following existing impacts to natural heritage features were identified:

- **Fragmentation of Natural Vegetation and Habitat:** lands within the focus area are heavily influenced by human activities, including historical clearing for agriculture and residential purposes, and construction of roadways that bisect natural features. This has resulted in the fragmentation of local natural heritage features and a reduction in the size of naturalized vegetation communities.
- **Introduction of Non-Native and Invasive Species:** culturally influenced vegetation communities dominate the landscape within the focus area, with non-native and invasive species being present in some locations and including patches of common buckthorn (*Rhamnus cathartica*) and common reed (*Phragmites australis*). The presence of invasive plant species generally decreases the quality and ecological functioning of a vegetation community, particularly when abundant.
- **Trails:** a portion of the Humber Valley Heritage Trail is present within the focus area, within the BRMT and along the Humber River. The presence of walking trails within a natural feature can create minor impacts to edge vegetation and increase the potential for litter and soil compaction.
- **Road ROW Use and Maintenance:** lands within the ROW of a road are often completely or partially mowed to maintain vehicle sightlines and are subject to contamination by road salt and other substances originating from the roadway.

5.4 Anticipated Environmental Impacts

5.4.1 Aquatic Systems

Potential impacts to watercourses, fish habitat, and Critical Habitat for Redside Dace that may result from the implementation of the preliminary preferred solution are summarized in Table 7. Where watermains and sanitary sewers will be installed by trenchless technology, surface disturbance will be limited to the shaft and shaft compound areas. Infrastructure is proposed to be installed a minimum of 3 m below the Humber River and other

watercourses. Additional fluvial geomorphological studies at the detailed design stage may be necessary to ensure that installed infrastructure does not become exposed in the future due to natural riverine processes. The requirement for these additional studies is to be confirmed with TRCA.

Should dewatering be required during construction, impacts to any watercourses receiving these flows will require consideration. Detailed hydrogeological studies are not yet available to inform this component of the impact assessment, as these are being completed at the detailed design stage. Appropriate mitigation measures should be developed as needed once additional information is available.

TABLE 7 Potential Impacts to Aquatic Systems

Aquatic Feature(s)	Project Component	Potential Impacts	Recommended Construction Methodology and Setbacks
Emil Kolb Parkway			
• Humber River (AQ10, AQ12, AQ15), four unnamed Humber River tributaries (AQ5, AQ14, and AQ16, AQ17) • Direct Fish Habitat • Potential and Confirmed SAR Critical Habitat for Redside Dace	• Watermain Installation (Open Cut) – Highway 50 to King Street • Forcemain Installation (Open Cut) – New SPS to King Street	Surface disturbance is anticipated to be limited to the road ROW. Open cut installation is not proposed to cross any watercourses (watermain to be tunnelled below these features), except for two tributaries, AQ5 and AQ16. Open cut installation will occur across these features but above the existing culverts (sufficient clearance is present), so no direct impacts to aquatic features will occur. The following potential impacts are possible, however can be minimized or avoided through the implementation of mitigation measures (see Section 6): • Runoff containing sediment and contaminants originating from within active construction areas has the potential to enter watercourses and damage fish habitat. • Spills of deleterious substances may occur. • Accidental encroachment of machinery into Redside Dace Critical Habitat.	• Crossings AQ10, AQ12, AQ15, AQ17:– ○ *Recommended construction methodology:* trenchless technology ○ *Recommended setbacks*: locate all shafts and shaft compounds outside of the meander belt + 30 m • Crossings AQ5 and AQ16:– ○ *Recommended construction methodology:* open cut technology (sufficient clearance above feature is present) ○ *Recommended setbacks*: locate all shafts and shaft compounds outside of the meander belt + 30 m
	• Watermain Installation (Trenchless) ○ Shafts W01 to W07 and associated shaft compounds • Sanitary Sewer Installation (Trenchless) ○ Shafts S01 to S06 and associated shaft compounds	Three watermain segments are proposed to be installed by trenchless technology along Emil Kolb Parkway (W02-W03, W04-W05, and W06-W07). Shafts and shaft compounds are proposed to be located outside of confirmed or potential Redside Dace Critical Habitat (i.e., Meander Belt +30 m), and are therefore located at least 30 m from watercourses. The following potential impacts are possible, however can be minimized or avoided through the implementation of mitigation measures (see Section 6): • Runoff containing sediment and contaminants originating from within active	

Aquatic Feature(s)	Project Component	Potential Impacts	Recommended Construction Methodology and Setbacks
		construction areas has the potential to enter watercourses and damage fish habitat. • Spills of deleterious substances may occur • Frac-out / hydraulic fracture (i.e., the unintentional return of drilling fluids to the surface) may occur during directional drilling. • Accidental encroachment of machinery into Redside Dace Critical Habitat.	
Highway 50			
Drainage Ditch / Headwater drainage feature (AQ18, AQ29)	• Watermain Installation (Open Cut) – Emil Kolb Parkway to Columbia Way • Watermain Installation (Trenchless) ○ Shafts W01 and W08 and associated shaft compounds • Sanitary Sewer Installation (Trenchless) ○ Shafts S01, S07, and S08 and associated shaft compounds	A roadside drainage ditch is present, which may require consideration at the construction stage of the project. The following potential impacts are possible, however can be minimized or avoided through the implementation of mitigation measures (see Section 6): • Runoff containing sediment and contaminants originating from within active construction areas has the potential to enter watercourses and damage fish habitat in downstream receivers.	• Crossings AQ18, AQ29 – ○ *Recommended construction methodology:* open cut technology during dry conditions (to avoid potential sedimentation of downstream receivers), restore ditch to pre-construction form following construction. ○ *Recommended setbacks*: none
Mount Hope Road			
• Unnamed Cold Creek tributaries (AQ20, AQ21, AQ22, AQ23) • Fish Habitat	• Watermain Installation (Open Cut) – Utility Corridor to Columbia Way • Sanitary Sewer Installation (Trenchless) ○ Shafts S09 to S12 and associated shaft compounds	Surface disturbance is anticipated to be limited to the road ROW. Open cut installation is proposed across the feature (AQ20); at the detailed design stage, it should be determined if there is sufficient clearance above the existing culvert in this location to accommodate open cut methods. Trenchless technology should be considered if clearance is insufficient. The following potential impacts are possible, however can be minimized or avoided through the implementation of mitigation measures (see Section 6):	• Crossing AQ20, AQ23 – ○ *Recommended construction methodology:* trenchless technology, unless sufficient clearance above existing culverts is present (to be confirmed at detailed design), in which case open cut may be appropriate. ○ *Recommended setbacks*: none • Crossing AQ21, AQ22 – ○ *Recommended construction methodology:* open cut technology during dry conditions

Aquatic Feature(s)	Project Component	Potential Impacts	Recommended Construction Methodology and Setbacks
		• Runoff containing sediment and contaminants originating from within active construction areas has the potential to enter watercourses and damage fish habitat. • Spills of deleterious substances may occur. • Accidental encroachment of machinery into the watercourse/fish habitat.	(to avoid potential sedimentation of downstream receivers), restore ditch to pre-construction form following construction. ○ *Recommended setbacks*: none
Utility Corridor			
• Headwater Drainage Features (AQ24, AQ25, AQ26, AQ27, AQ28)	• Watermain Installation (Open Cut) – Emil Kolb Parkway to Mount Hope Road • Sanitary Sewer Installation (Trenchless) ○ Shafts S13 to S15 and associated shaft compounds	Several HDFs are present throughout the Utility Corridor, including one feature (BN-17) that has been identified for Conservation and two (BN-15 and BN-16) identified for Mitigation (Figure 4). In their current locations, shafts S13 to S15 avoid HDFs; consideration of HDFs is recommended during the determination of final shaft locations at the detailed design stage. The following potential impacts are possible, however can be minimized or avoided through the implementation of mitigation measures (see Section 6): • Interference with the form and function of the Conservation HDF and its riparian corridor. • Spills of deleterious substances may occur. • Frac-out may occur during directional drilling.	• Crossing AQ24, AQ26 – ○ *Recommended construction methodology:* trenchless technology ○ *Recommended setbacks*: none • Crossing AQ25, AQ27 – ○ *Recommended construction methodology:* avoid features by shifting alignment; otherwise, trenchless technology. ○ *Recommended setbacks*: none • Crossing AQ28 – ○ *Recommended construction methodology:* open cut technology during dry conditions (to avoid potential sedimentation of downstream receivers), restore ditch to pre-construction form following construction. ○ *Recommended setbacks*: none
Columbia Way			
Tributary to Cold Creek (AQ19)	• Watermain Installation (Open Cut) – Kingsway Drive to Humber River tributary	No aquatic features overlap with project components. Open cut watermain installation is proposed nearby, but no impacts to the feature are anticipated.	• Crossing AQ19 – ○ *Recommended construction methodology:* trenchless technology (however, crossing of the feature is not currently proposed) ○ *Recommended setbacks*: none

5.4.2 Designated Natural Features

The preliminary preferred water and wastewater alignments overlap with the designated natural features listed in **Section 4.2.1**. Direct impacts will include minor tree and vegetation removal within these designated natural features. During construction there is the possibility for several negative and indirect impacts. Accidental intrusion into natural features by heavy equipment, which can result in the loss of, or damage to vegetation. Equipment and tools could result in further spread of invasive plant species. Oils, gasoline, grease, and other materials from construction equipment, material storage, and material handling could cause damage to vegetation within natural features.

5.4.3 Vegetation and Vegetation Communities

Open cut installation, shafts and shaft compounds, and the construction of the new SPS have the potential to result in impacts to vegetation and vegetation communities. Effects on vegetation could include:

- Displacement of or disturbance to vegetation and vegetation communities.
- Introduction of invasive species.
- Edge effects such as increased competition from invasive species and adverse microclimate conditions (e.g., changes in wind and sun exposure).

For most of the proposed alignment, installation of water and wastewater infrastructure will be completed within the road ROW where naturalized vegetation communities are generally absent. However, project components overlap with naturalized vegetation communities and hedgerows in a few areas where the removal of culturally influenced vegetation communities will be necessary. Of these, the proposed SPS footprint is where the most vegetation clearing will occur. In this location, approximately 2.53 ha of plantation (CUP), cultural savannah (CUS), and cultural meadow (CUM) will require removal (that is, if the entire area covered by the proposed SPS footprint will be cleared of vegetation, which may be refined at the detailed design stage). Based on the results of tree inventory and analysis completed for the proposed SPS footprint, 158 trees will require removal to accommodate the access road, pumping station, and the W06/S05 shaft compound within the footprint.

The removal of roadside vegetation will also be required for the installation of the shafts and shaft compound areas. Removals will be relatively minor, however, ranging between 0.037 ha and 0.289 ha and totalling an area of 1.114 ha (Table 8).

TABLE 8 Shaft Compound Vegetation Removal Areas

Shaft Compound	Roadside Vegetation Removal Area (ha)
W01 / S01	0.289
W02 /W03	0.114
W04	0.090
W05	0.058
W06 / S05	0.161
W07 /S06	0.081
W08	0.066
S02	0.046
S03	0.060

Shaft Compound	Roadside Vegetation Removal Area (ha)
S04	0.071
S07	0.037
S08	0.041
Total	**1.114**

Minimizing the amount of vegetation removal to the extent possible and implementing a robust restoration plan following the completion of the project will help to limit the severity of impacts to vegetation and vegetation communities.

Trenchless technology has the potential to cause impacts to tree roots if tunnelling depths are shallow (i.e., within 2 m of the ground surface). However, due to the proposed tunnelling depth of 3 m or greater, no impacts to trees or their roots are anticipated.

5.4.4 Wildlife and Wildlife Habitat

The implementation of the preliminary preferred solution has the potential to result in impacts to wildlife and wildlife habitat. Effects on wildlife may include:

- Displacement of wildlife and wildlife habitat.
- Wildlife-vehicle interactions.
- Disturbance to wildlife from noise, light, and visual intrusion.
- Potential impacts to migratory birds.
- Displacement of rare, threatened, or endangered wildlife.

Naturalized areas within the focus area support a variety of wildlife and their habitats (Matrix 2023, 2024a, 2024b). In general, vegetation communities within and adjacent to the road ROW do not represent good quality habitat due to the regular passage of vehicles and the associated noise, dust, and potential for wildlife-vehicle interactions. Wildlife occupying these areas are generally tolerant of human activities. During construction, these species may be temporarily displaced, and the potential for wildlife-vehicle interactions may increase. Noise, light, and visual intrusion may alter wildlife activities and behavioural patterns. However, given that wildlife living in the vicinity of the water and wastewater alignments are likely to be acclimatized to anthropogenic conditions, no adverse effects are expected. Mitigation measures for minimizing wildlife-vehicle interactions, noise, and light disturbance are summarized later in this report.

5.4.4.1 Potential Impacts to Migratory Birds

Migratory birds protected under the MBCA and the 2022 Migratory Bird Regulations (MBR 2022) have the potential to nest in vegetation within the focus area. Under the MBCA and MBR 2022, no person may:

- capture, kill, take, injure, or harass a migratory bird or attempt to do so.
- destroy, take, or disturb an egg.
- damage, destroy, remove, or disturb a nest, nest shelter, eider duck shelter or duck box, unless:
    - The nest does not contain a live migratory bird or a viable egg.
    - The nest was not built by a species that is listed in Schedule 1.

The nests of all species of migratory birds are protected when they are occupied by a live migratory bird or a viable egg. Regional nesting periods are provided by ECCC; the focus area is located within Nesting Zone C2, in which migratory birds tend to nest between April 1 and August 31. During this nesting period, nest surveys to determine nest occupancy may be appropriate when the following conditions are met:

- The survey is conducted by skilled and experienced observers using appropriate methodology.
- Only a few nesting spots or a small community of migratory birds is expected.
- The activities will take place in simple habitats.

Impacts to migratory birds can be avoided by completing vegetation removal activities outside of the core bird nesting period between April 1 and August 31.

The nests of 18 species listed in Schedule 1 of the MBR 2022 are protected year-round and during a designated waiting period (which varies for each species and ranges between 12 and 36 months) until the nest can be deemed abandoned and subsequently removed. The waiting period for these 18 species remains in effect even if the nest is unoccupied. Nest protection for all other species which are not listed in Schedule 1 remains the same, with nest removal permitted once the young have fledged. Of the species listed on Schedule 1 of the MBR 2022, Pileated Woodpecker had the highest potential to be present within the focus area; however, targeted surveys (including breeding bird surveys and woodpecker cavity tree assessments) did not detect the species or any trees with nesting cavities. No further consideration for this species is necessary.

5.4.4.2 Potential Impacts to Species at Risk

As described in **Section 4.2.3.1** and **Table 6** above, candidate and confirmed habitats of several wildlife SAR (3 birds, 1 insect, and 6 mammals) listed as Extirpated, Endangered, Threatened, or Special Concern under O. Reg. 230/08 of the ESA are present within the focus area.

- **SAR Birds:** Bank Swallow (Threatened), Barn Swallow (Special Concern), and Wood Thrush (Special Concern) were confirmed as present within the focus area during breeding bird surveys. These species and their habitats are not anticipated to be impacted by the proposed water and wastewater alignments, as all vegetation removal will be generally limited to the road ROW and the removal of any structures (for Barn Swallow nesting) or aggregate piles (for Bank Swallow nesting) is not occurring as part of project activities. Direct impacts to birds, including these SAR, can be minimized by avoiding removing vegetation during the core bird nesting period (April 1 to August 31).

- **SAR Insects:** Rapids Clubtail (Threatened) may have suitable habitat present along the Humber River and its riparian corridor. However, the installation of infrastructure under the Humber River via trenchless technology will avoid any potential impacts to the species.

- **SAR Bats:** Little Brown Myotis, Northern Myotis, Tri-colored Bat, Silver-haired Bat, Eastern Red Bat, and Hoary Bat (all six species are Endangered) may have suitable habitat present within treed areas. Although candidate roost trees were observed during field surveys, consultation with the MECP through the submission of the IGF confirmed that as long as tree removal occurs outside of the bat active season (April 1 to September 30), no impacts to these species are anticipated to occur due to project activities.

5.4.5 Construction-Related Impacts

Construction activities as part of the proposed works will potentially have short-term environmental impacts, including:

- Impacts to the root zone of remaining trees due to grading and construction activities.
- Soil compaction and soil contamination potential as a result of heavy machinery operation, spills, or leaks.
- Disturbance to wildlife by increased noise, construction traffic, and human activity.
- Increased level of sediment and erosion potential, impacting adjacent natural areas.
- Introduction of non-native species from equipment, increased site activity and disturbance to site.

Through the implementation of mitigation measures, the above listed potential impacts are preventable. Ongoing maintenance to ensure all controls and mitigation measures are monitored for effectiveness will reduce the potential for negative impacts to the natural heritage features.

6 AVOIDANCE AND MITIGATION

The following general mitigation measures are recommended to minimize the potential impacts to the natural environment described above. Site-specific mitigation measures will be developed at the detailed design stage.

6.1 Aquatic Habitat Protection

- **Erosion and Sediment Control (ESC):** An ESC plan shall be developed with the integration of best management practices. Mitigation measures must be used for ESC to prevent sediment from entering watercourses within the focus area. The primary principles associated with sedimentation and erosion protection measures are to minimize the duration of soil exposure, retain existing vegetation (where feasible), encourage re-vegetation, divert runoff away from exposed soils, keep runoff velocities low, and trap sediment as close to the source as possible. Stabilization of soils should occur following vegetation removal and grading by seeding the area with appropriate annual cover crop or by installing erosion control blankets to reduce the potential for sedimentation and erosion.

- **Contaminant and Spill Response Plan**: A plan shall be developed and implemented immediately in the event of a sediment release or spill of a deleterious substance and an emergency spill kit must be kept onsite. No storage of construction equipment, materials, chemicals, stockpiled resources of soil or storage of any other objects associated with site alteration is to occur within the delineated natural area, or within 30 m of any watercourse. Maintenance of machinery during construction shall also occur a minimum of 30 m away from any watercourse.

- **Construction Zone Delineation:** To avoid accidental encroachment of machinery into adjacent natural features and Redside Dace Critical Habitat, all construction zones shall be clearly delineated in the field prior to the commencement of site disturbance.

- **Construction Vehicle Refueling and Washing:** Construction vehicle refueling stations shall be centralized at least 30 m away from watercourses. Vehicle washing shall be prohibited in areas adjacent to naturalized vegetation communities and watercourses.

- **Frac-Out Contingency Plan**: Should directional drilling methods be used, a Frac-out Contingency Plan will be required. Frac-out or hydraulic fracture refers to the unintentional return of drilling fluids to the surface during drilling activities. A frac-out contingency plan (FCP) establishes operational procedures and responsibilities for the prevention, containment, and clean up of frac-outs in case they should occur. An FCP should be developed prior to construction, in the event that the directional drill cannot be completed as planned or there is a spill as a result of the drilling activities.
- **HDF Mitigation Measures**: Where the preliminary preferred alignments will need to cross existing HDF features within the Utility Corridor, any open cut construction is recommended to take place during dry periods of the year (July – September), and the restoration of the feature's form should be completed post-construction. Additional studies should be completed at the detailed design stage to determine if portions of the watermain alignment within the Utility Corridor will need to be tunnelled instead of open cut to avoid conflicts with any hydrologically or ecologically important HDFs (refer to **Table 7**).

6.2 Vegetation Protection

- **Controlled Construction Vehicle Access:** Vehicle access shall be limited to the areas within the focus area to prevent soil compaction and/or the initiation of soil erosion events.
- **Tree Removals:** Tree removal shall be completed by or overseen by a certified arborist using proper arboricultural techniques. Tree removal should occur outside of the breeding bird window of April 1 to August 31 and bat roosting window of April 1 to September 30. Tree removals shall be completed in keeping with TRCA guidelines when they occur within lands owned or regulated by TRCA.
- **Protective Fencing**: The installation of protective fencing such as sediment and erosion fencing (silt fencing), and exclusion fencing shall be considered. These fences can minimize construction impacts, such as damage to trees or sediment transport into adjacent natural heritage features. Protective fencing should be installed adjacent to vegetation communities being protected and including around all trees not identified for removal. Proper installation and maintenance of installed fencing is necessary to reduce the risk of potential impacts.
- **Tree Pruning:** If pruning is required, this should be conducted by a certified arborist. Pruning should be conducted according to ISA standards. The minimum amount of pruning should be conducted to avoid negative effects to the structure and integrity of the tree. Pruning may include both the branches and roots depending on the extent of the dripline. Extra care should be taken when pruning roots to not impact the structure of the tree or its ability to uptake water and nutrients.
- **Exposed Soil:** Any soils exposed during construction shall be seeded, with an approved seed mix, as soon as possible once grading is complete. Should any soils be left exposed after November 15, erosion control blankets or similar material shall be used to stabilize the soils.
- **Invasive Species Management and Control:** Construction shall follow the Clean Equipment Protocol (Halloran et al. 2013) during construction activities to prevent the further spread of invasive species. Removal of all invasive species within the construction limits shall occur, including root systems. Disposal of invasive species

shall be administered in an appropriate manner following accepted and approved disposal guidelines from governing agencies.

- **Restoration Material:** Any areas disturbed by construction are recommended to be restored to pre-disturbance conditions, where appropriate. Recommended species to be incorporated into a restoration plan include (but are not limited to) sugar maple, black maple, American basswood, chinquapin oak, bur oak, blue-beech, black cherry, and shagbark hickory.

6.3 Wildlife, Species at Risk, and Significant Wildlife Habitat

- **Timing Restrictions for Wildlife**: Restricting construction-related activities outside of sensitive periods for local or significant wildlife species can limit disturbance during life cycle stages. Construction-related activities shall be limited to the daylight hours (i.e., 7 a.m. to 7 p.m.) to reduce the amount of noise disturbance to resident wildlife. Any vegetation clearing shall occur outside of the breeding bird period (i.e., April 1 to August 31) as well as the bat roosting period (April 1 to September 30) to reduce impacts and incidental take.
- **Active Nest**: Should an active nest be observed during construction, a minimum 15 m setback shall be delineated and designated as a no work area. The nest shall be monitored by a qualified biologist until no eggs or live birds are present. Work may resume once the nest is vacant under the advice of a qualified biologist.
- **On-Call Biologist**: A qualified biologist/ecologist shall be retained to be on-call should any wildlife be encountered. The biologist/ecologist shall provide appropriate recommendations in the identification, relocation, or transport of any encountered wildlife.
- **Visual Encounter Surveys**: Contractor shall complete daily inspection of work areas to confirm no wildlife is present in the work area prior to commencing activities for the day. When wildlife is encountered the on-call biologist shall be contacted.
- **Protective Fencing**: Protective fencing shall be installed adjacent to construction zone to prevent wildlife entry into the areas of impact and shall be periodically inspected by qualified environmental specialists.
- **Wildlife or Sensitive Species Encounters**: A Wildlife Management Plan shall be implemented to assist contractors or environmental monitors in the procedures to be followed in the event of an encounter. Procedures to be followed include:
    - Upon observation of wildlife in the work area, work in the vicinity is to stop immediately.
    - On-call biologist/ecologist shall be contacted immediately to inquire on next steps for the wildlife encountered.
    - On-call biologist/ecologist shall identify the species and provide appropriate recommendations.
    - A setback shall be established to protect the species until guidance has been received either from the qualified biologist/ecologist or the MECP.
    - Details regarding the size and implementation of the setback for SAR shall be determined in consultation with the MECP and the on-call biologist.

- Should the species be identified within the construction footprint, a relocation strategy shall be developed in consultation with the appropriate agencies.
- Any observation of SAR shall be reported to the on-call biologist immediately and to the MECP within 48 hours.

7 RECOMMENDED STUDIES FOR THE DETAILED DESIGN STAGE

The following studies are recommended to inform the detailed design stage:

- HDF assessment within the appropriate seasons (spring and summer) following the protocols outlined in the *Evaluation, Classification and Management of Headwater Drainage Features Guidelines* (TRCA and CVC 2014) and the provincial standard OSAP Section 4 Module 11 (Gorenc and Stanfield 2017). This study will document the existing form and function of each HDF which will then be used to inform the need to tunnel below any of the HDFs located within the Utility Corridor. Specifically, water crossings AQ24, AQ25, AQ26, AQ27, and AQ28 should be investigated.
- Investigations targeting the aquatic crossings at AQ20 and AQ23 to determine if tunnelling below these features will be required to avoid the existing culvert and minimize impacts. From the ecological perspective, no minimum clearance above the existing culvert is defined and therefore engineering requirements are anticipated to drive the determination of the approach to infrastructure installation.
- Development of the ESC plan and the Contaminant and Spill Response Plan is recommended to occur once the detailed design has been finalized.
- Hydrogeological studies are recommended at the detailed design stage to determine groundwater elevations, potential impacts of construction and installation of services, and the need for a dewatering plan.
- Fluvial geomorphological studies may be necessary to confirm that the proposed drilling depth below the Humber River is adequate. The requirement for these studies should be determined at detailed design in consultation with TRCA.

8 PERMITTING

Based on the results of this natural environment assessment, the following permits and/or consultation processes are anticipated to be required for the preliminary preferred water and wastewater solutions at the detailed design stage:

- **Section 28 Permit:** a permit under Section 28.1 of the *Conservation Authorities Act* will be required due to the proposed tunnelling below wetlands and watercourses that are regulated by TRCA under O. Reg. 41/24.
- **MECP Consultation:** consultation with MECP has been completed (refer to Appendix A). No permits under the ESA will be required, and no further consultation with MECP is needed provided that no major changes to the construction methodologies, shaft and compound locations, or proposed SPS footprint occur, and that all vegetation is removed outside of the bat active season (April 1 to September 30).

- **DFO Request for Review:** the need for a DFO Request for Review is recommended to be considered once the project has reached the detailed design stage and additional information on the construction methodology and footprint is available.
- **Wildlife Scientific Collector's Authorization Permit:** should the handling of any wildlife be required at any stage in the project, a WSCA permit issued by the MNRF under the *Fish and Wildlife Conservation Act* will be required.

9 CONCLUSIONS

This Natural Environment Assessment Report provides supporting documentation for the natural heritage components of the Bolton Water and Wastewater Capacity Improvements Schedule C Class EA. It is intended to be read in conjunction with the natural environment existing conditions reports prepared in 2023 and 2024 for the project (Matrix 2023, 2024a, 2024b). This report supports the natural heritage requirements of the EA process by providing the following information:

- A description of the existing natural heritage features within the focus area as delineated through a combination of field investigation and review of available background information.
- The identification of vegetation communities, plants, wildlife, and natural heritage features.
- An assessment of potential impacts on natural heritage features and functions.
- Recommendations to protect natural heritage features, where feasible, including recommended mitigation measures to reduce or avoid risk of impacts on natural features.
- Recommendations for additional studies to be completed at the detailed design stage.

The preliminary preferred design includes the installation of a new infrastructure within the road ROW by both open cut and trenchless technologies. The footprint of the new proposed SPS is the project element that may result in the largest amount of vegetation removal (up to 2.53 ha); however, it is anticipated that further refinements to the area of impact can be made at the detailed design stage. In general, it is recommended that vegetation removal for the project be limited as much as possible.

Minor, localized impacts to wildlife and their habitats may occur during construction, however these impacts are expected to be temporary provided that the mitigation measures outlined in this report are implemented. Impacts to watercourses, fish habitat, and Redside Dace Critical Habitat are not anticipated as most project elements have been designed to be more than 30 m beyond the meander belt of the Humber River and its tributaries (or have been designed to tunnel below these features), and the application of the listed mitigation measures will aid in avoiding any indirect or unplanned impacts to aquatic features.

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APPENDIX A
Agency Consultation Records

Outlook

[External] RE: Information Gathering Form - Bolton water and wastewater EA

From Species at Risk (MECP) <SAROntario@ontario.ca>
Date Wed 2/12/2025 12:56 PM
To Desta Frey <dfrey@montrose-env.ca>
Cc Sean Geddes <sgeddes@montrose-env.ca>

1 attachment (73 KB)
RE: [External] RE: Information Gathering Form - Bolton water and wastewater EA;

This is the first time you received an email from this sender (SAROntario@ontario.ca). Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Hi Desta,

I did provide a response to Bailey Cole on January 21, 2025 – see attached and below.

Below are the Ministry of Environment Conservation and Parks (MECP), Species at Risk Branch (SARB) comments and recommendations regarding the Information Gathering Form (IGF) that was submitted for the proposed installation of water and wastewater infrastructure with an alignment located in north Bolton, in the Town of Caledon, Regional Municipality of Peel.

1. While MECP recognizes that the proposal is in its early stages, the sections related Activity Overview (Section 2) includes essential project details (i.e., brief description, purpose, general location, current land uses etc.) that are required to complete a fulsome review of the proposal. In the future, if any section of the IGF is removed by the consultant the submission will be deemed incomplete and sent back.
2. MECP does not recognize this reach of the Humber River (i.e., as depicted on Figure 7a and 7b as federally protected critical habitat) as occupied or recovery habitat for Redside Dace.
3. The Ministry agrees that direct impacts to any species at risk bats that may be using the suitable habitat trees identified along the proposed alignment can be avoided by removing trees outside of the bat active season. Should any of the project details change, such as tree removal occurring within the active season or changes to the proposed alignment or footprint of the infrastructure, please notify MECP immediately to obtain advice on whether the changes require authorization under the ESA.
4. Several other endangered and threatened SAR and/or their habitat have been identified as having the potential to occur within 1km of the study area and yet have not been discussed in the IGF. I recommend conducting the necessary surveys and re-sending the IGF with information concerning all endangered and threatened SAR. At that point I can provide fulsome comments, if required.

Let me know if you have any questions.

Devon Fowler
A/Management Biologist | Permissions Section, Species at Risk Branch
Ministry of the Environment, Conservation & Parks | Ontario Public Service

705-427-2409 | devon.fowler@ontario.ca

Ontario

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---

From: Desta Frey <dfrey@montrose-env.ca>
Sent: Tuesday, February 11, 2025 12:10 PM
To: Species at Risk (MECP) <SAROntario@ontario.ca>
Cc: Sean Geddes <sgeddes@montrose-env.ca>
Subject: Re: Information Gathering Form - Bolton water and wastewater EA

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.
Good afternoon,

I am following up on the submission of the IGF for the Bolton Water and Wastewater EA that was submitted by Baily Cole on October 18, 2024. Bailey is no longer with Matrix (now Montrose), and Kierian Keele (who was copied on the submission as well) is also currently away on leave. Any correspondence sent to these individuals would unfortunately not have been received. Therefore, I am hoping to touch base with the biologist assigned to the project and continue with the consultation process.

Thank you for your assistance!
Desta

Operating as Montrose Environmental starting Jan. 1, 2025!

Desta Frey, M.Sc., P.Biol. *(she/her)*

Ecologist

Montrose Environmental

Mobile: +1-226-821-5970

From: Bailey Cole
Sent: Friday, October 18, 2024 12:15 PM
To: Species at Risk (MECP) <SAROntario@ontario.ca>
Cc: Kierian Keele <kkeele@montrose-env.ca>
Subject: Information Gathering Form - Bolton water and wastewater EA

Good Morning,

Matrix Solutions Inc. has been retained by GEI on behalf of the Region of Peel, to complete the Bolton water and wastewater capacity improvements EA. (Bolton water and wastewater capacity improvements - Region of Peel

(peelregion.ca)).

Please find attached our IGF and supporting documentation for works within the Redside dace critical habitat on the Humber River.

Thank you,

Bailey Cole, B.Sc., CAN-CISEC (She/Her) | Environmental Planner

MATRIX SOLUTIONS INC. | A Montrose Environmental Company
7B, 650 Woodlawn Road. W, Guelph, ON, N1K 1B8
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ARBORIST REPORT

BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS
REGIONAL MUNICIPALITY OF PEEL, ONTARIO

Prepared for: **GEI CONSULTANTS CANADA LTD.**

Prepared by: **MONTROSE ENVIRONMENTAL SOLUTIONS CANADA INC.**

Version 0.2
May 2025
Guelph, Ontario

Unit 7B, 650 Woodlawn Road West
Guelph, ON N1K 1B8
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ARBORIST REPORT

BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS

REGIONAL MUNICIPALITY OF PEEL, ONTARIO

Prepared for GEI Consultants, May 2025

Adam Luke, ISA ON-2853A
Restoration Specialist
Montrose Environmental Solutions Canada Inc.

reviewed by
Sean Geddes, B.Sc.
Senior Ecologist
Montrose Environmental Solutions Canada Inc.

CONTRIBUTORS

Name	Job Title	Role
Adam Luke, ISA ON-2853A	Restoration Specialist	Primary Author
Andrea Perez, B.Sc	Terrestrial Ecologist	Secondary Author
Sean Geddes, B.Sc.	Senior Ecologist	Primary Reviewer
Desta Frey, M.Sc., P.Biol.	Ecologist	Reviewer

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VERSION CONTROL

Version	Date	Issue Type	Filename	Description
V0.1	25-Feb-2025	Draft	36069 Arborist Report 2025-02-25 draft v0.1.docx	Issued to client for review
V0.2	13-May-2025	Draft Revised	36069 Arborist R 2025-05-13 draft V0.2.docx	Addressing comments. Issued to client for review.

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APPENDIX C Town of Caledon Tree Preservation Zone Details and Specifications

TABLE 1 Terms and Acronyms

Term or Acronym	Definition
Arborist	An expert in the care and maintenance of trees. An arborist is an individual who is: • An arborist as qualified by the Ontario Ministry of Training, Colleges, and Universities • A Forest Technician • A Forestry Technologist with an applicable college diploma and a minimum of two years or urban forestry experience • A certified arborist qualified by the International Society of Arboriculture, a consulting arborist registered with the International Society of Arboriculture • A consulting arborist registered with the American Society of Consulting Arborists • A Registered Professional Forester as defined in the *Professional Foresters Act*, 2000, S.O. 2000, c. 18, as amended or replaced from time to time.
Co-dominant Stem	Forked branches nearly the same size in diameter, arising from a common junction and lacking a normal branch union.
CRZ	Critical Root Zone - Area of soil around a tree where the minimum number of roots considered critical to the structural stability or health of the tree are located.
CS	Canopy Structure
CV	Canopy Vigour
DBH	Diameter at Breast Height - a measurement taken at 1.4 m from the ground.
Hazard Tree	Any tree that has been determined by the Director to be, or has the potential to be, a danger to persons or property.
Included Bark	Bark that becomes embedded in a crotch (union) between branch and trunk or between co-dominant stems. Causes a weakened structure.
Invasive Tree	Means any tree that: i) Is listed or considered a non-native invasive species in the "Landowners Guide to Managing and Controlling Invasive Plants in Ontario." ii) Which if left unmanaged, poses a threat to the natural environment.
ISA	International Society of Arboriculture
ISA-Certified Arborist	An arborist who has passed an independent exam administered by the International Society of Arboriculture and maintains the credential through continuing education.
SAR	Species at Risk
TI	Trunk Integrity
Tree Protection Zone	The minimum setback from a Public Tree or Tree (including above, below and at ground level) required to protect the biological health and maintain the structural integrity of a Public Tree, as determined by the Commissioner.
Trunk	The part of a tree from its point of growth away from its roots up to where it branches out to limbs and foliage.
Root Zone	(1) horizon or layer within the soil profile where roots exist. (2) volume of soil containing tree roots. (3) horizontal spread of tree roots from the trunk. Typically, the root zone of a tree extends well beyond the drip line.
Sp.	Species

1 INTRODUCTION

Montrose Environmental Solutions Canada Inc. (Montrose; formerly Matrix Solutions Inc.) was retained by GEI Consultants Canada Ltd. (GEI; formerly GM BluePlan Engineering Limited) on behalf of Peel Region (the Region) to complete a natural heritage impact assessment in support of the Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment (EA).

Peel Region completed a Water and Wastewater Master Servicing Plan Update (2020) which identified the need to construct new water and wastewater linear distribution and collection pipes and pumping facilities to service future planned population growth in the community of Bolton. The Class EA study has developed, evaluated, and identified the optimal water and wastewater servicing solutions to meet existing needs and growth. Preliminary preferred design concepts have been determined and include new watermains, gravity sanitary sewers, a sanitary forcemain, and a sanitary pumping station (SPS). New water and wastewater infrastructure is proposed in the area north of the community of Bolton along Emil Kolb Parkway, Highway (Regional Road) 50, Mount Hope Road, along a proposed new utility corridor between Highway 50 and Mount Hope Road, and along Columbia Way.

This Arborist Report provides an analysis of the trees that may be impacted by the construction of a new SPS and associated access road adjacent to Emil Kolb Parkway. Mitigation measures and tree protection recommendations for this area are also provided. The assessments within this report are based on the preliminary preferred solution details provided by GEI in January 2025. The results of this Arborist Report will require confirmation at the detailed design stage.

1.1 Study Area

In this report, the term ‘study area’ is used to indicate the specific areas where tree removals may be proposed, and does not refer to the overall EA study area. For this report, two separate study areas are located on Emil Kolb Parkway (**Figure 1**). The Duffy’s Lane study area is located on the grassy island that separates Emil Kolb Parkway from the parking lot that is south of Duffy’s Lane, and will potentially be used as a staging area. The SPS study area is approximately 200 m south of the Duffy’s Lane study area and is on the east side of Emil Kolb Parkway. In the SPS study area, the access road to the SPS is proposed to connect to the east of Emil Kolb Parkway and run south of and adjacent to it for approximately 250 m. The surrounding area is predominately forested and characterized by pine and spruce plantation.

2 METHODOLOGY

Montrose personnel were required to comply with legislated, Montrose, and GEI health and safety standards. A tree inventory was completed on November 5, 7, 8, and 14, 2024 under the supervision of ISA-Certified Arborist Adam Luke (ON-2853A). The assessment followed the International Society of Arboriculture (ISA) and forestry standard protocols for tree inventory and health assessment techniques.

Easting (m)

598250 598375 598500 598625 598750 598875 599000

Northing (m)

4860250 4860125 4860000 4859875 4859750

Duffys Lane

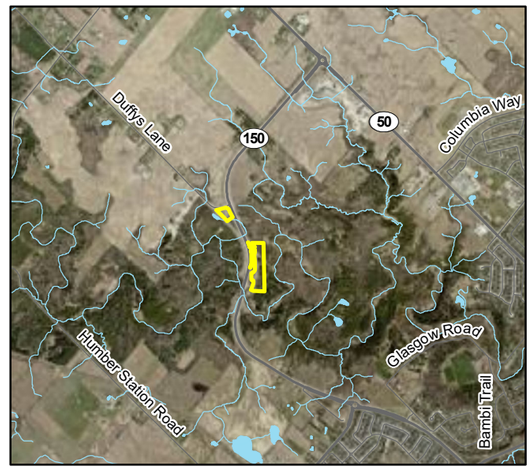
150

Emil Kolb Parkway

Humber River (rivière Humber)

N

Study Area
Proposed Works
Woodland (LIO)
Water Body (LIO)
Watercourse (LIO)
Highway
Road



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1:2,750 metres

25 0 25 50

NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

GEI Consultants
Bolton Tract Arborist Report

Study Area Overview

Date:	Project:	Submitter:	Reviewer:
February 2025	36069	A. Perez	D. Frey

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Figure 1

I:\GM\BluePlain\Engineering\Jobs\36069\FiguresAndTables\VEGI2025\Arborist\Figure-1-Study_Area_Overview.mxd - Tabloid_L - 14-Feb-25, 10:03 AM - aperez - TLD005

2.1 Tools and Equipment

The following tools and equipment were used to complete the assessment:

- GPS unit: Juniper Geode GNSS Receiver
- Stainless steel nails
- Aluminum tree tags
- Hammer
- Binoculars
- DBH tape
- Camera
- Tool belt
- iPad and Fieldmaps application

2.2 Tree Inventory

All trees 10 centimeters (cm) or greater in Diameter at Breast Height (DBH) were included in the inventory, and the following information was collected for each tree:

- Genus or species identification based on physical characteristics of each tree.
- Measurement of DBH which is the diameter of the trunk at 1.4 m above the ground.
- Radial dripline estimation based on spread of canopy from trunk to limit of overhead branches:
    - Radial dripline often extends beyond the limit of branches or can be limited by infrastructure such as curbs and sidewalks. Radial dripline is used as a starting point to determine the minimum limits of a tree protection zone (TPZ) for a particular tree as part of tree protection planning.
- General rating ("Good," "Fair," "Poor") of trunk integrity, crown structure, and crown vigour based on observations of overall physical appearance of tree, such as existing defects or injuries, leaf colour and quantity, as well as general health. No detailed structural assessments of roots, trunk, or branches were conducted.
- Condition observations including presence of multiple or co-dominant stems, percentage of crown dieback, lean direction, presence or absence of pathogens (fungus or rot), insect pests, epicormics growth, cavities or wounds, and other physical anomalies (i.e., Emerald Ash Borer).
- Other general comments relating to unique conditions or surrounding growing conditions.

Dead trees were included in the inventory (if greater than 10 cm DBH); their presence within the site was noted and used to assess wildlife habitat. No shrubs were inventoried within the study areas.

All trees within the study areas were inventoried. Trees may not have been tagged due to access, or tree health reasons, and are identified with a "NT" identifier, where NT stands for not tagged.

2.2.1 Definitions of Tree Condition Assessment

TABLE 2 Standard Arboriculture Measurements

Heading	Guidelines
DBH	Measurement, in centimetres, of the diameter of the trunk at 1.4 m above grade.
Dripline	A radius equal to the horizontal distance from the trunk of the tree to the end of the longest branch. When the canopy gets wet, any excess water is shed to the ground along this dripline. Commonly referred to as the tree's CRZ.
mTPZ	Minimum distance of tree protection zone required to protect trees based on DBH.
Trunk Integrity (TI)	An assessment of the trunk for any defects or weaknesses. It is measured on a scale of poor, fair, good.
Canopy Structure (CS)	An assessment of the scaffold branches, unions, and the canopy of the tree. It is measured on a scale of poor, fair, good.
Canopy Vigour (CV)	An assessment of the health of the tree and the amount of deadwood and live growth in the crown as compared to a 100% healthy tree. It is measured on a scale of poor, fair, good.

2.2.2 Tree Condition Ranking

TABLE 3 Standard Arboriculture Ratings

Rating	Guidelines
Good	Minimal to no wounds on trunk and branches; ≤15% crown dieback; crown structure is appropriate for tree species and is not influenced by infrastructure.
Fair	Wound on trunk or branches that has little impact on integrity; 15% to 40% crown dieback; crown structure is potentially impacted by infrastructure or is naturally not appropriate for tree species (i.e., trunk has inappropriate lean angle).
Poor	Extensive wounds on trunk or branches that have an impact on integrity; >41% crown dieback; crown structure is impacted by infrastructure (i.e., pruned to avoid hydro lines) or is naturally not appropriate for tree species.

Easting (m)

598250 598375 598500 598625 598750 598875 599000

Northing (m)

4860250 4860125 4860000 4859875 4859750

Duffys Lane

Emil Kolb Parkway

150

N

Study Area
Proposed Works
Highway
Road

Tree Collection Point

Retain
Injure
Remove
Candidate Bat Tree



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1:2,750 metres

25 0 25 50

NAD 1983 UTM Zone 17N

MONTROSE ENVIRONMENTAL

GEI Consultants
Bolton Tract Arborist Report

Tree Inventory Overview

Date:	Project:	Submitter:	Reviewer:
February 2025	36069	A. Perez	D. Frey

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Figure 2

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3 TREE INVENTORY RESULTS

A total of 1,180 trees across 29 different species were inventoried within the study areas. None of the identified species were SAR. Trees ranged in size from 10 cm to 86 cm DBH. A summary of the tree species is provided in Table 4 below. The full inventory table can be found in Appendix A. Inventoried trees are shown on Figure 2, and a tree preservation plan showing detailed locations and TPZs of trees is provided in Appendix B.

Among the identified species, red pine, white pine and white spruce were the most abundant. This can be attributed to the presence of a coniferous plantation within the majority of the SPS study area.

TABLE 4 Tree Inventory Summary

Common Name	Latin Name	Quantity
Amur Maple	*Acer ginnala*	3
Apple sp.	*Malus spp.*	29
Ash sp.*	*Fraxinus spp.*	155
Basswood	*Tilia americana*	18
Black Cherry	*Prunus serotina*	5
Black Locust	*Robinia pseudoacacia*	8
Black Walnut	*Juglans nigra*	2
Eastern Cottonwood	*Populus deltoides*	31
Eastern Hemlock	*Tsuga canadensis*	2
Eastern White Cedar	*Thuja occidentalis*	35
European Buckthorn	*Rhamnus cathartica*	7
Hawthorn sp.	*Crataegus spp.*	42
Manitoba Maple	*Acer negundo*	7
Maple sp.	*Acer spp.*	1
Norway Maple	*Acer platanoides*	1
Norway Spruce	*Picea abies*	36
Red Pine	*Pinus resinosa*	371
Scots Pine	*Pinus sylvestris*	31
Silver Maple	*Acer saccharinum*	3
Sugar Maple	*Acer saccharum*	7
Sweet Crabapple	*Malus coronaria*	2
Tamarack	*Larix laricina*	2
Trembling Aspen	*Populus tremuloides*	50
Unknown Species	*Unknown species*	14
White Ash	*Fraxinus americana*	42
White Birch	*Betula papyrifera*	1
White Elm	*Ulmus americana*	18
White Pine	*Pinus strobus*	149
White Spruce	*Picea glauca*	108
	Total	**1,180**

Note:
*No black ash (*Fraxinus nigra*) identified

3.1 Bat Habitat Assessment

The tree inventory also included a bat habitat assessment, with a focus on identifying high-quality bat habitat trees within the area. Key features assessed for bat habitat suitability included trees with structural features such as cavities, cracks, exfoliating bark, and other decay features that can provide roosting sites for bats. The assessment aimed to document these tree features in relation to known bat preferences, ensuring the conservation of suitable habitats for at-risk bat populations.

Nine inventoried trees exhibited suitable habitat for bat roosting, including white ash, black cherry and sugar maples with DBHs ranging between 17 cm and 86 cm (Table 5).

TABLE 5 Candidate Bat Habitat Trees

Tree Tag	Common Name	Latin Name	DBH (cm)
464	Sugar Maple	*Acer saccharum*	85
477	Sugar Maple	*Acer saccharum*	86
827	White Ash	*Fraxinus americana*	24
832	White Ash	*Fraxinus americana*	20
834	White Ash	*Fraxinus americana*	31
868	White Ash	*Fraxinus americana*	17
874	White Ash	*Fraxinus americana*	52
899	Black Cherry	*Prunus serotina*	47
1830	Unknown Species	*Unknown species*	20

The main mitigation measure that should be implemented if any of the above candidate bat habitat trees will be impacted by the proposed works is to remove trees outside of the bat active season (April 1 to September 30).

3.2 Tree Removals

A total of 158 trees are anticipated to be removed within the SPS study area as a result of the proposed works, 45 of which are already dead. An additional 23 trees are anticipated to require pruning (i.e., injury). At this stage, the remaining 999 trees will be protected and retained, including all nine candidate bat trees.

No trees are anticipated to be removed or injured within the Duffy's Lane study area.

Final tree removals will require confirmation at the detailed design stage. If the proposed SPS area changes, additional field surveys should be completed to confirm that all trees potentially impacted by the proposed works have been inventoried and assessed.

4 TREE PRESERVATION MEASURES

Initial tree health, size, and location are three important factors when considering when a tree should be recommended for protection. Individual trees should be considered for retention when the survival of the tree is likely through the construction process. This includes assessing each tree's potential for near future structural decline to minimize potential risks to public safety from hazard trees. If trees have a high likelihood of survival, but are near to construction activities with a potential to be injured, a tree can be considered for retention with the application of a tree injury permit.

Protection fencing is to be installed according to the Town of Caledon Tree Preservation Specifications and Details and approved prior to the commencement of any construction activities including grading. All protection measures shall be monitored throughout the duration of the construction activities by the project team's arborist or landscape architect.

4.1 Pruning

Pruning is to be conducted by a certified ISA arborist and be completed according to ISA standards. Where possible, the minimum amount of pruning should be conducted to avoid negative effects to the structure and integrity of the tree. Pruning may include both the branches and roots, depending on the extent of the dripline. Extra care should be taken when pruning roots so as to not impact the structure of the tree or its ability to uptake water and nutrients.

4.2 Prohibited Activities Within Tree Protection Zones (TPZ)

Except where authorized by the Town of Caledon, a number of activities are prohibited within the TPZ. A tree preservation plan showing which trees require TPZ is provided in Appendix B. The following are recommendations regarding protection of trees and the TPZ:

- All areas within the TPZ shall remain undisturbed for the duration of construction. There will be no grade changes, dumping, and storage of any materials, structures or equipment within these areas. The Tree Protection Barrier must not be removed without the written authorization of the Town of Caledon.
- Minor grading works will be permitted at the edge of the preservation zone as required to correct localized depressions, and blend to existing grades. This work is to be undertaken under the direct supervision of an ISA-certified arborist.
- A certified ISA arborist will undertake proper root pruning in accordance with acceptable arboriculture practices when and if roots of retained trees are to be exposed, damaged, or severed by construction work. The exposed roots will be backfilled with appropriate material as soon as possible to prevent desiccation. Root pruning prior to excavation will help prevent necessary damage to tree roots. The use of low pressure hydrovac to expose roots is recommended, at no additional cost.
- The Town of Caledon must be notified for all work that impact the TPZ for temporary removal of a section of hoarding to gain access for fine grading or other works. All works are to be supervised by the Town of Caledon.
- No cables, wire, or ropes of any kind shall be wrapped around or installed in trees to be preserved.
- No contaminants will be dumped or flushed in the TPZ areas or where feeder roots of trees exist (generally beyond the TPZ areas).
- Irrigate tree protection zones during drought conditions, June to September to reduce drought stress.
- Inspect the site daily to ensure hoarding is in place and in good condition. Inspect trees to monitor condition.

Further TPZ details and specifications from the Town of Caledon are included in Appendix C.

5 IMPACT OFFSETTING

A total of 152 compensation trees are required to be planted for the 113 living trees removed from the site. There are an additional 45 dead trees that require removal; however, no compensation trees are required for these. Refer to Table 6 below for a breakdown of the tableland tree removal compensation requirements set out by the Town of Caledon (Town of Caledon, n.d.).

TABLE 6 Compensation Trees

DBH of Tree to be Removed	Compensation Ratio	Number of Trees to be Removed	Total Compensation Trees
10-20	1:1	75	75
21-35	2:1	37	74
36-50	3:1	1	3
51-65	4:1	0	0
>65	5:1	0	0
		Total	**152**

6 MITIGATION MEASURES

In addition to the Town of Caledon by-laws, it is expected that all tree removals and pruning will be conducted in accordance with *the Migratory Birds Convention Act* (MBCA) and the *Endangered Species Act* (ESA). It is recommended that all tree removals be avoided during the breeding bird season (April 1 to August 31) and the bat roosting period (April 1 to September 30) to reduce impacts and avoid incidental harm under the MBCA and/or the ESA.

If it is necessary to remove vegetation during the breeding bird and bat roosting seasons, mitigation measures to avoid incidental harm must be in place, such as pre-clearing nest sweeps, daily visual encounters, and wildlife salvages, conducted by a qualified biologist. For additional mitigation measures, the reader is referred to the Natural Environment Impact Assessment report (Montrose 2025).

7 CONCLUSION

Based on the preliminary preferred solution for the new SPS, is expected that 158 trees are to be removed, 23 injured, and 999 retained as a result of the proposed works. A total of 152 compensation trees are to be planted. Tree removals may change over the course of the design process; however, tree protection and retention will remain a priority.

Total tree removals will require confirmation at the detailed design stage. This includes any tree removals that will be required for other aspects of the project, including any trees within or adjacent to any drilling shaft compounds. Opportunities to retain as many trees as possible should be explored.

8 DISCLAIMER

8.1 Limitations of Assessment

This assessment is based on the circumstances and observations as they existed at the time of the site inspection of the study area and the trees situated thereon and upon information provided by the client to Montrose. The opinions in this assessment are given based on observations made and using generally accepted professional judgement. However, because trees are living organisms and subject to change, damage and disease, the results, observations, recommendations, and analysis as set out in this assessment are valid only as at the date any such observations and analysis took place and no guarantee, warranty, representation, or opinion is offered or made as to the length of validity of the results, observations, recommendations, and analysis contained within this assessment. As a result, the client shall not rely upon this assessment, save and except for representing the circumstances and observations, analysis, and recommendations that were made as at the date of such inspections. It is recommended that the trees discussed in this assessment should be re-assessed periodically.

8.2 Restrictions of Assessment

The assessment carried out was restricted to the study area provided by the client. No assessment of any other trees or plants has been undertaken by Montrose. Montrose is not legally liable for any other trees or plants within the study area except those expressly discussed herein. The conclusions of this assessment do not apply to any areas, trees, plants, or any other property not covered or referenced in this assessment.

8.3 Professional Responsibility

In carrying out this assessment, Montrose has exercised a reasonable standard of care, skill, and diligence as would customarily and normally provided in carrying out this assessment. The assessment has been made using accepted arboricultural techniques. These include visual examination of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of insect attack, discoloured foliage, the condition of any visible root structures, the direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the current or planned proximity of property and people.

9 REFERENCES

Montrose Environmental Solutions Canada Inc. (Montrose). 2025. “Natural Environment Impact Assessment Report.” Version 0.2. Guelph, Ontario. May 2025.

Town of Caledon. N.D. Terms of Reference: Tree Preservation. Retrieved from: https://www.caledon.ca/en/town-services/resources/Documents/business-planning-development/Plans_of_Subdivision/Terms-of-Reference---Tree-Preservation-ACCESSIBLE.pdf

APPENDIX A
Tree Inventory Table

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
1	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.97	4859834.45
2	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.86	4859833.01
3	Retain	Red Pine	*Pinus resinosa*	18	1.8		D	D	D	1	100	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-		598785.95	4859829.47
4	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.96	4859828.37
5	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.79	4859825.95
6	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	P	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598784.85	4859823.97
7	Retain	Red Pine	*Pinus resinosa*	19	1.8		F	P	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598785.66	4859821.03
8	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.53	4859817.88
9	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.40	4859821.54
10	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.35	4859819.97
11	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.97	4859815.58
12	Retain	Red Pine	*Pinus resinosa*	15	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.92	4859814.13
13	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.98	4859809.50
14	Retain	White Pine	*Pinus strobus*	27	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.48	4859822.26
15	Retain	White Pine	*Pinus strobus*	25	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.19	4859819.80
16	Retain	White Pine	*Pinus strobus*	22	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.61	4859817.11
17	Retain	Norway Spruce	*Picea abies*	25	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.17	4859826.30
18	Retain	Norway Spruce	*Picea abies*	18	1.8		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.11	4859822.33
19	Retain	Norway Spruce	*Picea abies*	20	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.64	4859820.25
20	Retain	Norway Spruce	*Picea abies*	19	1.8		G	G	G	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.35	4859818.27
21	Retain	Red Pine	*Pinus resinosa*	12	1.8		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.88	4859809.66
21	Retain	Norway Spruce	*Picea abies*	20	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.55	4859815.44
22	Retain	Norway Spruce	*Picea abies*	15	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.16	4859814.16
23	Retain	Norway Spruce	*Picea abies*	19	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.50	4859811.15
24	Retain	Norway Spruce	*Picea abies*	28	1.8	21	G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.48	4859809.68
25	Retain	Norway Spruce	*Picea abies*	39	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.64	4859805.44
26	Retain	Red Pine	*Pinus resinosa*	26	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.39	4859828.98
27	Retain	Red Pine	*Pinus resinosa*	15	1.8		F	P	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.95	4859820.87
28	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.90	4859815.02
30	Retain	White Pine	*Pinus strobus*	43	3		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.19	4859809.88
31	Retain	White Pine	*Pinus strobus*	28	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.02	4859815.53
32	Retain	White Pine	*Pinus strobus*	26	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.85	4859821.18
33	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.07	4859822.99
34	Retain	White Pine	*Pinus strobus*	15	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.19	4859824.29
35	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.58	4859829.63
36	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	P	P	1	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.38	4859827.39
37	Retain	Red Pine	*Pinus resinosa*	17	1.8		F	P	P	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.90	4859824.62
38	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	P	P	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.60	4859822.04
39	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.46	4859820.82
40	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.53	4859819.48
41	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	F	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.02	4859810.59
42	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.72	4859808.90
43	Retain	Red Pine	*Pinus resinosa*	19	1.8		F	F	P	3	45	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598790.80	4859807.41
44	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.10	4859814.47
45	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.89	4859816.74
46	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.69	4859819.59
47	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.52	4859824.48
48	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.29	4859827.29
49	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.24	4859835.83
50	Retain	White Pine	*Pinus strobus*	34	2.4		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.26	4859855.24
52	Retain	White Pine	*Pinus strobus*	19	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.11	4859857.74
53	Retain	Red Pine	*Pinus resinosa*	21	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.49	4859862.19
54	Retain	Red Pine	*Pinus resinosa*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.52	4859866.34
55	Retain	Red Pine	*Pinus resinosa*	22	1.8	16	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Stem union at base	598796.83	4859868.83
56	Retain	Red Pine	*Pinus resinosa*	26	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.38	4859840.58
57	Retain	Red Pine	*Pinus resinosa*	26	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.80	4859842.07
58	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.96	4859843.16
59	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.08	4859851.83
60	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	3	25	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.76	4859849.21
61	Retain	White Pine	*Pinus strobus*	20	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.21	4859856.71

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
61	Retain	Red Pine	*Pinus resinosa*	26	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.62	4859845.80
62	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.41	4859842.82
63	Retain	Ash sp.	*Fraxinus spp.*	34	2.4		D	D	D	1	100	-	-	-	-	-	-	Yes	-	-	-	-	-	-	-	Significant rot 2m up trunk at branch union	598774.32	4859843.24
64	Retain	Ash sp.	*Fraxinus spp.*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.98	4859846.47
65	Retain	Red Pine	*Pinus resinosa*	18	1.8		D	D	D	1	100	-	-	-	-	-	-	Yes	-	-	-	-	-	-	-	Topped at 5m. Signs of significant rot	598772.55	4859847.35
66	Retain	Red Pine	*Pinus resinosa*	17	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 5m	598772.32	4859845.46
67	Retain	White Elm	*Ulmus americana*	22	1.8		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.37	4859852.16
68	Retain	Ash sp.	*Fraxinus spp.*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.26	4859852.49
69	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.99	4859838.69
70	Retain	Red Pine	*Pinus resinosa*	30	2.4		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.94	4859840.32
71	Retain	White Pine	*Pinus strobus*	31	2.4		F	P	P	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.26	4859841.02
72	Retain	Red Pine	*Pinus resinosa*	13	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.62	4859841.99
73	Retain	Red Pine	*Pinus resinosa*	15	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.96	4859841.86
74	Retain	White Pine	*Pinus strobus*	26	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.03	4859843.55
75	Retain	Ash sp.	*Fraxinus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.87	4859853.38
76	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.48	4859849.14
77	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.01	4859852.77
78	Retain	Red Pine	*Pinus resinosa*	26	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.41	4859850.78
79	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.19	4859832.91
80	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.78	4859831.69
81	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.78	4859829.79
82	Retain	White Pine	*Pinus strobus*	12	1.8		F	F	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598787.12	4859830.73
83	Retain	White Pine	*Pinus strobus*	22	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.03	4859833.13
84	Retain	White Pine	*Pinus strobus*	23	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.19	4859835.05
85	Retain	White Ash	*Fraxinus americana*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	Yes	Yes	-	-	-		598788.15	4859835.60
86	Retain	White Pine	*Pinus strobus*	27	1.8		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.67	4859837.97
87	Retain	White Pine	*Pinus strobus*	33	2.4		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.33	4859839.55
88	Retain	White Pine	*Pinus strobus*	31	2.4		F	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-		598788.69	4859841.11
89	Retain	Red Pine	*Pinus resinosa*	21	1.8		F	F	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.88	4859841.10
90	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.48	4859841.12
91	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.27	4859844.24
92	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.68	4859844.15
93	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.17	4859847.72
94	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.38	4859848.33
95	Retain	Red Pine	*Pinus resinosa*	28	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.13	4859852.69
96	Retain	White Pine	*Pinus strobus*	37	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.90	4859856.58
97	Retain	Red Pine	*Pinus resinosa*	21	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.17	4859855.66
98	Retain	Red Pine	*Pinus resinosa*	18	1.8		D	D	D	1	100	-	-	-	-	Yes	-	-	-	-	-	-	-	-	-		598789.64	4859859.54
99	Retain	White Pine	*Pinus strobus*	27	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.97	4859857.64
100	Retain	White Pine	*Pinus strobus*	27	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598792.73	4859860.84
101	Retain	Norway Spruce	*Picea abies*	54	3.6		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.45	4859923.29
102	Retain	Eastern White Cedar	*Thuja occidentalis*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.48	4859923.37
103	Retain	Ash sp.	*Fraxinus spp.*	27	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No scaffolding branching. Topped at 8m	598762.63	4859921.81
104	Retain	Ash sp.	*Fraxinus spp.*	21	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.23	4859917.37
105	Retain	Ash sp.	*Fraxinus spp.*	24	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.92	4859917.36
106	Retain	Ash sp.	*Fraxinus spp.*	21	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.11	4859919.87
107	Retain	Eastern White Cedar	*Thuja occidentalis*	14	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.20	4859919.16
108	Retain	Silver Maple	*Acer saccharinum*	13	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	Heavily canopy suppressed by adjacent silver maple 109	598759.60	4859915.31
109	Retain	Silver Maple	*Acer saccharinum*	47	3		G	G	G	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.31	4859915.41
110	Retain	Norway Spruce	*Picea abies*	33	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.25	4859915.39
111	Retain	Silver Maple	*Acer saccharinum*	51	3.6	40, 32, 30, 19	G	G	G	9	10	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	All stems co-dominant at 0.5m	598760.05	4859913.31
112	Retain	Ash sp.	*Fraxinus spp.*	40	2.4		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 7m	598758.21	4859912.74
113	Retain	Scots Pine	*Pinus syvlestris*	17	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.06	4859914.89
114	Retain	Ash sp.	*Fraxinus spp.*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 5m	598757.62	4859907.02
115	Retain	Apple sp.	*Malus spp.*	16	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.62	4859902.42
116	Retain	Ash sp.	*Fraxinus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.15	4859899.47
117	Retain	Ash sp.	*Fraxinus spp.*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598755.74	4859900.47
118	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.20	4859899.13

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
119	Retain	Ash sp.	*Fraxinus spp.*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.38	4859896.84
120	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.05	4859901.80
122	Retain	White Pine	*Pinus strobus*	32	2.4		G	F	F	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.96	4859905.22
123	Retain	Red Pine	*Pinus resinosa*	11	1.8		G	F	F	1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.28	4859908.81
124	Retain	White Pine	*Pinus strobus*	24	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.70	4859894.16
125	Retain	Red Pine	*Pinus resinosa*	15	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.43	4859891.63
126	Retain	Red Pine	*Pinus resinosa*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.57	4859888.55
127	Retain	Red Pine	*Pinus resinosa*	11	1.8		G	G	G	1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.43	4859888.58
128	Retain	Red Pine	*Pinus resinosa*	11	1.8		G	G	G	1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.42	4859890.07
129	Retain	Scots Pine	*Pinus syvlestris*	18	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.99	4859889.47
130	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.76	4859892.00
131	Retain	Ash sp.	*Fraxinus spp.*	17	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.32	4859892.17
132	Retain	Ash sp.	*Fraxinus spp.*	20	1.8	18	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.51	4859885.44
133	Retain	Scots Pine	*Pinus syvlestris*	22	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.12	4859877.20
134	Retain	Red Pine	*Pinus resinosa*	15	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.00	4859888.04
135	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.11	4859886.40
136	Retain	White Pine	*Pinus strobus*	34	2.4		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.90	4859887.53
137	Retain	White Pine	*Pinus strobus*	25	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.16	4859886.57
139	Retain	White Pine	*Pinus strobus*	43	3		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.59	4859885.09
140	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.44	4859886.05
141	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.01	4859883.89
142	Retain	White Pine	*Pinus strobus*	38	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.07	4859884.42
143	Retain	White Pine	*Pinus strobus*	24	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Woodpecker damage. Downy woodpecker observed feeding on tree	598774.16	4859880.13
144	Retain	White Pine	*Pinus strobus*	41	3		G	G	G	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.59	4859877.49
145	Retain	White Pine	*Pinus strobus*	38	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.73	4859873.01
146	Retain	White Pine	*Pinus strobus*	36	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.15	4859871.65
147	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.75	4859871.35
148	Retain	White Pine	*Pinus strobus*	44	3		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.09	4859868.47
149	Retain	Red Pine	*Pinus resinosa*	15	1.8		F	P	P	1	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10% or less LCR	598768.12	4859867.90
150	Retain	White Pine	*Pinus strobus*	27	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.98	4859866.98
151	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.83	4859869.79
152	Retain	Red Pine	*Pinus resinosa*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.96	4859866.81
152	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.60	4859863.91
154	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.99	4859865.07
155	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.23	4859863.34
156	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.98	4859862.75
157	Retain	White Pine	*Pinus strobus*	23	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.04	4859866.33
158	Retain	White Pine	*Pinus strobus*	33	2.4		G	G	G	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.75	4859867.47
159	Retain	Red Pine	*Pinus resinosa*	12	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.48	4859864.01
160	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.04	4859863.36
161	Retain	Red Pine	*Pinus resinosa*	21	1.8		F	P	P	2	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.39	4859858.50
162	Retain	Red Pine	*Pinus resinosa*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.00	4859856.84
163	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.28	4859855.46
164	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.08	4859855.14
165	Remove	Ash sp.	*Fraxinus spp.*	18	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.14	4859850.70
166	Remove	Amur Maple	*Acer ginnala*	10	N/A	10, 10	G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.34	4859850.36
167	Remove	Amur Maple	*Acer ginnala*	12	N/A		G	F	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bow lean.	598758.58	4859849.87
168	Remove	Ash sp.	*Fraxinus spp.*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.22	4859849.05
169	Injure	Red Pine	*Pinus resinosa*	23	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.60	4859847.13
170	Injure	Red Pine	*Pinus resinosa*	25	1.8		G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.41	4859846.66
171	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.39	4859843.37
172	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.09	4859845.66
173	Retain	White Pine	*Pinus strobus*	31	2.4	18	G	G	G	4	10	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598761.74	4859842.83
174	Retain	Ash sp.	*Fraxinus spp.*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.47	4859849.64
175	Retain	Red Pine	*Pinus resinosa*	18	1.8	12	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.49	4859849.21
176	Retain	Red Pine	*Pinus resinosa*	33	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.80	4859854.73
177	Injure	White Pine	*Pinus strobus*	28	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.25	4859853.12
178	Injure	White Pine	*Pinus strobus*	30	2.4		G	F	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.33	4859852.98
179	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.78	4859858.25

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
180	Retain	Ash sp.	*Fraxinus spp.*	15	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.24	4859857.66
181	Retain	White Pine	*Pinus strobus*	37	2.4		G	G	G	4	10	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Co-dominant at 4m.	598780.78	4859877.54
182	Retain	Red Pine	*Pinus resinosa*	18	1.8		F	P	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.69	4859875.62
183	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.47	4859871.82
184	Retain	Red Pine	*Pinus resinosa*	15	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.13	4859871.16
185	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.67	4859868.78
186	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.56	4859867.50
187	Retain	White Pine	*Pinus strobus*	23	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.61	4859865.99
188	Retain	Red Pine	*Pinus resinosa*	12	1.8		F	P	P	1	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.80	4859862.84
189	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	P	P	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.77	4859864.91
190	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.18	4859863.74
191	Retain	Ash sp.	*Fraxinus spp.*	18	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.51	4859862.56
192	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.02	4859859.69
193	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.35	4859862.10
194	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.38	4859862.96
195	Retain	Apple sp.	*Malus spp.*	23	1.8		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.18	4859862.90
196	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.98	4859857.27
197	Retain	White Pine	*Pinus strobus*	40	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.77	4859858.32
198	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.41	4859857.14
199	Retain	White Pine	*Pinus strobus*	38	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.94	4859853.82
200	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.56	4859855.94
201	Remove	White Elm	*Ulmus americana*	30	N/A		G	G	G	6	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598748.14	4859784.99
202	Remove	White Spruce	*Picea glauca*	16	N/A		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.22	4859784.27
203	Remove	White Spruce	*Picea glauca*	14	N/A		G	G	G	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.57	4859783.32
204	Remove	White Spruce	*Picea glauca*	14	N/A		G	F	G	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.34	4859780.82
206	Remove	White Spruce	*Picea glauca*	12	N/A		G	F	P	2	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598751.12	4859783.11
207	Remove	Eastern Cottonwood	*Populus deltoides*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598751.39	4859782.68
208	Remove	Eastern Cottonwood	*Populus deltoides*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598754.61	4859782.59
209	Remove	White Spruce	*Picea glauca*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.21	4859781.65
210	Injure	White Spruce	*Picea glauca*	13	1.8		G	G		3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.97	4859778.93
211	Retain	White Spruce	*Picea glauca*	14	1.8		G	G	G	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.56	4859777.46
212	Retain	Eastern Cottonwood	*Populus deltoides*		1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Woodpecker, topped off	598760.59	4859776.98
213	Retain	Eastern Cottonwood	*Populus deltoides*	13	1.8		G	G	G	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.35	4859777.09
214	Injure	Eastern Cottonwood	*Populus deltoides*	20	1.8		G	G	G	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.87	4859779.66
215	Injure	White Spruce	*Picea glauca*	16	1.8		G	G	G	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.73	4859781.59
216	Injure	White Spruce	*Picea glauca*	14	1.8		G	G	G	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.74	4859781.99
217	Remove	Ash sp.	*Fraxinus spp.*	12	N/A		F	F	F	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.36	4859783.36
218	Remove	White Spruce	*Picea glauca*	14	N/A		G	G	G	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.65	4859784.30
219	Remove	Eastern Cottonwood	*Populus deltoides*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598757.06	4859784.04
220	Remove	White Spruce	*Picea glauca*	28	N/A		G	G	G	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598755.00	4859784.53
221	Remove	Eastern Cottonwood	*Populus deltoides*	13	N/A		G	G	G	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.17	4859780.59
221	Remove	Eastern Cottonwood	*Populus deltoides*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598755.69	4859784.37
222	Retain	Eastern Cottonwood	*Populus deltoides*	11	1.8		G	G	G	2	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.28	4859773.84
223	Retain	Eastern Cottonwood	*Populus deltoides*	13	1.8		G	G	G	2	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.33	4859778.57
224	Retain	Eastern Cottonwood	*Populus deltoides*	13	1.8		G	F	F	3	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.99	4859786.25
225	Remove	Eastern Cottonwood	*Populus deltoides*	28	N/A		G	G	G	5	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.99	4859785.99
226	Remove	Eastern Cottonwood	*Populus deltoides*	22	N/A		G	G		5	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.55	4859787.50
227	Remove	Eastern Cottonwood	*Populus deltoides*	24	N/A		G	G	G	5	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.79	4859789.32
228	Injure	Ash sp.	*Fraxinus spp.*	11	1.8		F	F	F	3	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.21	4859788.87
229	Remove	Ash sp.	*Fraxinus spp.*	10	N/A		F	F	F	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.79	4859790.85
230	Remove	Eastern Cottonwood	*Populus deltoides*	22	N/A		G	G	G	3	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.55	4859791.77
231	Remove	Ash sp.	*Fraxinus spp.*	11	N/A		F	F	F	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.60	4859789.46
232	Remove	Ash sp.	*Fraxinus spp.*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.39	4859790.77
233	Remove	Ash sp.	*Fraxinus spp.*	10	N/A		F	F	F	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.59	4859791.59
234	Remove	Ash sp.	*Fraxinus spp.*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.52	4859793.02
235	Remove	Ash sp.	*Fraxinus spp.*	10	N/A		F	F	F	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.28	4859793.80
236	Remove	Unknown Species	*Unknown species*	16	N/A		F	F	F	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.66	4859800.14
237	Remove	Ash sp.	*Fraxinus spp.*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598764.39	4859799.33
238	Remove	Ash sp.	*Fraxinus spp.*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.40	4859800.08
239	Remove	Ash sp.	*Fraxinus spp.*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.80	4859800.44

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
240	Remove	White Pine	*Pinus strobus*	25	N/A		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.83	4859803.04
241	Remove	Ash sp.	*Fraxinus spp.*	10	N/A		G	G	G	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.82	4859802.66
242	Remove	Ash sp.	*Fraxinus spp.*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.75	4859802.56
243	Remove	Eastern Cottonwood	*Populus deltoides*	24	N/A		G	P	P	5	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.32	4859803.38
243	Remove	Eastern Cottonwood	*Populus deltoides*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.88	4859803.11
244	Remove	White Pine	*Pinus strobus*	25	N/A		G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.55	4859803.03
245	Remove	White Pine	*Pinus strobus*	20	N/A		G	F	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.50	4859804.39
246	Remove	White Pine	*Pinus strobus*	18	N/A		G	G	G	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.44	4859806.52
247	Remove	White Pine	*Pinus strobus*	18	N/A		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.23	4859807.93
248	Remove	Red Pine	*Pinus resinosa*	19	N/A		G	G	G	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.16	4859807.15
249	Remove	Red Pine	*Pinus resinosa*	19	N/A		G	F	F	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.42	4859811.58
250	Remove	Red Pine	*Pinus resinosa*	16	N/A		G	F	F	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.86	4859811.75
251	Remove	Red Pine	*Pinus resinosa*	22	N/A		G	G	G	5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.19	4859810.55
252	Remove	Red Pine	*Pinus resinosa*	22	N/A		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.73	4859814.31
253	Remove	Red Pine	*Pinus resinosa*	34	N/A		G	G	G	8	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.55	4859813.27
254	Remove	White Pine	*Pinus strobus*	24	N/A		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.94	4859814.83
255	Remove	White Pine	*Pinus strobus*	19	N/A		G	G	G	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.47	4859816.02
256	Remove	Red Pine	*Pinus resinosa*	24	N/A		G	F	G	7	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.22	4859817.66
257	Remove	Red Pine	*Pinus resinosa*	21	N/A		G	P	F	5	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.05	4859816.98
258	Remove	Red Pine	*Pinus resinosa*	24	N/A		G	G	G	6	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.52	4859818.50
259	Remove	Red Pine	*Pinus resinosa*	20	N/A		G	P	F	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.72	4859818.74
260	Remove	Red Pine	*Pinus resinosa*	21	N/A		G	G	G	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.15	4859821.82
261	Retain	White Elm	*Ulmus americana*	37	2.4		G	G	G	8	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.28	4859826.47
262	Injure	Red Pine	*Pinus resinosa*	33	2.4		G	G	G	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.87	4859822.42
263	Remove	Red Pine	*Pinus resinosa*	18	N/A		G	P	F	3	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.86	4859822.45
265	Remove	Red Pine	*Pinus resinosa*	13	N/A		F	F	F	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.91	4859823.03
266	Remove	Red Pine	*Pinus resinosa*	25	N/A		G	G	G	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.51	4859822.53
267	Remove	Red Pine	*Pinus resinosa*	26	N/A		G	G	G	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.86	4859826.15
268	Remove	Red Pine	*Pinus resinosa*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.38	4859832.10
270	Remove	Red Pine	*Pinus resinosa*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.68	4859830.96
271	Remove	Red Pine	*Pinus resinosa*	17	N/A		G	F	F	3	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.47	4859830.23
272	Remove	Red Pine	*Pinus resinosa*	27	N/A		G	F	F	5	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.80	4859832.91
273	Remove	Red Pine	*Pinus resinosa*	24	N/A		G	P	F	4	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.01	4859834.29
274	Remove	Red Pine	*Pinus resinosa*	20	N/A		G	P	P	2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.66	4859835.69
274	Remove	Red Pine	*Pinus resinosa*	21	N/A		G	F	G	5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.53	4859823.18
275	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	P	P	3	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.80	4859836.76
276	Retain	Red Pine	*Pinus resinosa*		1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.34	4859838.96
277	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	P	F	5	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.86	4859839.33
278	Retain	Red Pine	*Pinus resinosa*	33	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.14	4859845.42
279	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	G	G	5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.57	4859843.47
281	Retain	Red Pine	*Pinus resinosa*	15	1.8		G	G	F	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.50	4859842.01
282	Remove	Trembling Aspen	*Populus tremuloides*	12	N/A		G	G	G	1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598745.72	4859791.88
282	Retain	Red Pine	*Pinus resinosa*	15	1.8	14	G	F	F	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.36	4859840.21
283	Retain	Manitoba maple	*Acer negundo*	25	1.8	22, 19	F	F	F	7	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598714.21	4859774.49
284	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	G	G	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598700.70	4859793.13
285	Injure	Red Pine	*Pinus resinosa*	17	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598705.25	4859795.05
286	Remove	Red Pine	*Pinus resinosa*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598707.92	4859816.59
287	Remove	Red Pine	*Pinus resinosa*	17	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598710.29	4859822.99
288	Remove	Trembling Aspen	*Populus tremuloides*	13	N/A	10	F	P	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Second trunk is dead	598706.78	4859822.62
289	Remove	Trembling Aspen	*Populus tremuloides*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598707.09	4859823.15
290	Remove	Trembling Aspen	*Populus tremuloides*	20	N/A		G	F	F	1	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598706.45	4859824.53
291	Remove	White Spruce	*Picea glauca*	12	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598708.42	4859825.08
292	Remove	White Spruce	*Picea glauca*	10	N/A		G	G	G	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598705.62	4859828.17
293	Remove	Ash sp.	*Fraxinus spp.*	26	N/A	21	P	F	F	5	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598707.67	4859829.91
294	Remove	Red Pine	*Pinus resinosa*	14	N/A		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598709.69	4859829.93
295	Remove	Trembling Aspen	*Populus tremuloides*	10	N/A		F	F	F	1	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598711.39	4859831.39
296	Remove	Eastern Cottonwood	*Populus deltoides*	14	N/A		F	G	F	1	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598709.75	4859833.79
296	Remove	Red Pine	*Pinus resinosa*	22	N/A		G	G	G	3	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.03	4859830.80
297	Remove	Red Pine	*Pinus resinosa*	12	N/A		G	F	F	1	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598710.52	4859834.33
298	Injure	Tamarack	*Larix laricina*	14	1.8		F	G	G	1	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598709.64	4859836.56

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
299	Retain	Ash sp.	*Fraxinus spp.*		1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598717.67	4859888.58
300	Retain	Ash sp.	*Fraxinus spp.*		1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598716.90	4859893.44
301	Retain	Ash sp.	*Fraxinus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598718.90	4859898.67
302	Retain	White Elm	*Ulmus americana*	11	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598721.24	4859894.52
303	Retain	Manitoba maple	*Acer negundo*	33	2.4	22, 20	G	F	F	6	15	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Canker at union of three stems at base of tree	598776.17	4859805.17
304	Remove	Trembling Aspen	*Populus tremuloides*	23	N/A		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598719.83	4859808.14
305	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598717.98	4859892.58
306	Retain	Scots Pine	*Pinus syvlestris*	18	1.8		G	G	G	1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598707.98	4859836.34
307	Injure	Scots Pine	*Pinus syvlestris*	12	1.8		F	P	P	1	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598711.46	4859836.85
308	Remove	Trembling Aspen	*Populus tremuloides*	15	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598713.75	4859833.17
309	Remove	White Spruce	*Picea glauca*	14	N/A		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598717.73	4859834.56
310	Remove	White Elm	*Ulmus americana*	16	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598717.17	4859832.76
311	Remove	White Elm	*Ulmus americana*	20	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598716.23	4859829.71
312	Remove	Black Cherry	*Prunus serotina*	29	N/A	28	G	G	G	7	10	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598716.39	4859828.73
313	Remove	Ash sp.	*Fraxinus spp.*	18	N/A	17, 14	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598712.92	4859829.50
314	Remove	Ash sp.	*Fraxinus spp.*	20	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598712.19	4859829.61
315	Remove	Scots Pine	*Pinus syvlestris*	18	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598711.21	4859829.21
316	Remove	Tamarack	*Larix laricina*	18	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598712.81	4859827.50
317	Remove	Scots Pine	*Pinus syvlestris*	26	N/A		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598716.96	4859822.46
318	Remove	Trembling Aspen	*Populus tremuloides*	11	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Canker on base. Significant response wood	598721.51	4859820.00
319	Remove	Trembling Aspen	*Populus tremuloides*	12	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	50cm canker near base. Good response wood	598723.50	4859818.71
320	Remove	Scots Pine	*Pinus syvlestris*	32	N/A	28	G	G	G	4	15	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	Co-dominance starts at 1m	598718.52	4859817.18
321	Remove	Ash sp.	*Fraxinus spp.*	13	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598718.33	4859817.84
322	Remove	Unknown Species	*Unknown species*	10	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 5m. Woodpecker feeding damage	598716.08	4859815.39
323	Remove	White Spruce	*Picea glauca*	15	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598715.44	4859814.00
324	Remove	Trembling Aspen	*Populus tremuloides*	25	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598712.73	4859812.77
325	Remove	Trembling Aspen	*Populus tremuloides*	14	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598714.36	4859812.78
326	Remove	Trembling Aspen	*Populus tremuloides*	14	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598713.22	4859811.54
327	Remove	Trembling Aspen	*Populus tremuloides*	14	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598714.77	4859809.79
327	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598743.20	4859745.45
328	Remove	Trembling Aspen	*Populus tremuloides*	18	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598714.41	4859808.40
329	Remove	Ash sp.	*Fraxinus spp.*	10	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	Yes	-	-	-	-	Heavy suckering at base	598717.35	4859810.82
330	Remove	Unknown Species	*Unknown species*	18	N/A		D	D	D	1	100	-	-	-	-	-	-	Yes	-	-	-	-	-	-	-	Heavy rot throughout. Topped at 5m. Woodpecker feeding damage.	598718.82	4859812.02
331	Remove	Trembling Aspen	*Populus tremuloides*	13	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 5m	598719.68	4859807.49
332	Remove	Trembling Aspen	*Populus tremuloides*	11	N/A		F	P	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Main leader dead and topped at 5m. Remaining scaffolding branching living. Bird box tied to tree, causing significant girdling damage	598720.61	4859806.54
333	Remove	Trembling Aspen	*Populus tremuloides*	16	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598723.60	4859806.32
334	Remove	Ash sp.	*Fraxinus spp.*	10	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598723.19	4859808.85
335	Remove	Trembling Aspen	*Populus tremuloides*	15	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598713.57	4859806.69
336	Remove	Basswood	*Tilia americana*	25	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598715.68	4859798.36
337	Remove	White Spruce	*Picea glauca*	21	N/A	21	G	G	G	3	5	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	Co-dominant starting at base	598714.42	4859795.49
338	Remove	White Spruce	*Picea glauca*	12	N/A		G	G	G	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598715.05	4859790.74
339	Remove	Trembling Aspen	*Populus tremuloides*	22	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598719.99	4859782.32
341	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.37	4859820.68
342	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.04	4859818.46
343	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.91	4859816.20
344	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.11	4859826.27
345	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.47	4859824.93
346	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.37	4859842.50
347	Retain	Red Pine	*Pinus resinosa*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.84	4859840.45
348	Retain	Red Pine	*Pinus resinosa*	17	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.22	4859839.02
349	Retain	White Pine	*Pinus strobus*	20	1.8		G	G	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.74	4859840.04
350	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.11	4859836.62
351	Retain	Red Pine	*Pinus resinosa*	19	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 5m	598774.52	4859833.26
352	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.94	4859833.95
353	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	P	P	1	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.96	4859831.99
354	Retain	Red Pine	*Pinus resinosa*	19	1.8		F	P	P	1	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.51	4859831.16

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
355	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	P	P	1	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.46	4859829.90
356	Retain	White Pine	*Pinus strobus*	14	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.14	4859836.25
357	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	F	P	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.00	4859834.22
358	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.34	4859831.48
359	Retain	Red Pine	*Pinus resinosa*	21	1.8		F	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.43	4859833.56
360	Retain	Red Pine	*Pinus resinosa*	24	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.34	4859831.01
361	Retain	Red Pine	*Pinus resinosa*	13	1.8		G	F	F	1	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.11	4859828.22
362	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.59	4859825.77
363	Retain	White Pine	*Pinus strobus*	22	1.8		G	F	F	1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.67	4859826.67
364	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	1	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.52	4859824.90
365	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.50	4859823.77
366	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.85	4859822.16
367	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.55	4859823.00
368	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.36	4859821.78
369	Retain	White Pine	*Pinus strobus*	38	2.4		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.50	4859816.55
370	Retain	White Pine	*Pinus strobus*	13	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.89	4859814.75
371	Retain	Unknown Species	*Unknown species*	24	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 5m. No bark. Woodpecker feeding damage.	598776.57	4859812.96
372	Retain	White Pine	*Pinus strobus*	17	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.44	4859812.94
373	Retain	Red Pine	*Pinus resinosa*	23	1.8		F	P	P	2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.43	4859818.53
374	Injure	White Elm	*Ulmus americana*	28	1.8	21	G	G	G	5	10	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	co-dominant at base of tree	598767.82	4859819.16
375	Retain	Red Pine	*Pinus resinosa*	18	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.65	4859821.26
376	Retain	Ash sp.	*Fraxinus spp.*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.12	4859801.78
377	Retain	Eastern White Cedar	*Thuja occidentalis*	24	1.8	24	G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11 stems ranging from 5-10cm Dbh. All within 4m2.	598786.64	4859798.52
378	Retain	Red Pine	*Pinus resinosa*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.18	4859801.93
379	Retain	Red Pine	*Pinus resinosa*	17	1.8		F	P	P	1	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.79	4859815.62
380	Retain	Red Pine	*Pinus resinosa*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.59	4859813.43
381	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	P	P	1	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.29	4859809.27
382	Retain	White Pine	*Pinus strobus*	17	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.43	4859810.55
383	Retain	White Pine	*Pinus strobus*	43	3		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.64	4859807.87
384	Retain	White Pine	*Pinus strobus*	26	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.76	4859808.73
384	Retain	White Pine	*Pinus strobus*	28	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80% bark loss	598771.25	4859811.23
386	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.89	4859811.03
387	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.19	4859808.05
388	Retain	Ash sp.	*Fraxinus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.17	4859806.21
390	Retain	Red Pine	*Pinus resinosa*	29	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.39	4859796.43
391	Retain	Red Pine	*Pinus resinosa*	22	1.8		F	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.03	4859795.92
392	Retain	Red Pine	*Pinus resinosa*	18	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.18	4859793.15
393	Retain	Red Pine	*Pinus resinosa*	18	1.8		D	D	D	1	100	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-	Fruiting bodies throughout trunk	598788.68	4859797.42
394	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	P	P	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.35	4859791.12
395	Retain	Red Pine	*Pinus resinosa*	17	1.8		F	P	P	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.50	4859790.17
396	Retain	Basswood	*Tilia americana*	26	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.89	4859789.70
397	Retain	Red Pine	*Pinus resinosa*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.77	4859790.27
398	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.06	4859789.21
399	Retain	Unknown Species	*Unknown species*	52	3.6		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.37	4859788.72
400	Retain	Scots Pine	*Pinus syvlestris*	58	3.6		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.11	4859793.84
401	Remove	Scots Pine	*Pinus syvlestris*	16	N/A		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598748.67	4859772.53
402	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598747.73	4859775.25
403	Remove	White Spruce	*Picea glauca*	20	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.97	4859768.82
404	Remove	White Spruce	*Picea glauca*	20	N/A		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598751.39	4859765.34
405	Remove	White Spruce	*Picea glauca*	14	N/A		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.48	4859768.29
406	Remove	White Spruce	*Picea glauca*	11	N/A		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.56	4859767.15
407	Remove	White Spruce	*Picea glauca*	28	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598748.59	4859768.09
408	Remove	Trembling Aspen	*Populus tremuloides*	26	N/A		P	P	P	2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Aspen bracket throughout trunk	598749.56	4859767.89
409	Remove	Basswood	*Tilia americana*	19	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598745.66	4859761.96
410	Remove	Trembling Aspen	*Populus tremuloides*	27	N/A		P	P	P	3	50	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-	Aspen bracket throughout trunk	598748.94	4859766.87
411	Remove	Ash sp.	*Fraxinus spp.*	11	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598745.21	4859761.05
412	Remove	White Spruce	*Picea glauca*	13	N/A		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598747.25	4859760.93
413	Remove	Basswood	*Tilia americana*	14	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598745.58	4859759.90

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
414	Remove	Basswood	*Tilia americana*	12	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.66	4859759.67
415	Injure	White Spruce	*Picea glauca*	14	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598750.27	4859759.63
416	Injure	Basswood	*Tilia americana*	14	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598750.03	4859759.34
417	Retain	Trembling Aspen	*Populus tremuloides*	12	1.8		F	P	P	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598751.73	4859756.52
418	Retain	White Spruce	*Picea glauca*	11	1.8		F	P	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.57	4859755.93
419	Retain	White Spruce	*Picea glauca*	16	1.8		G	G	G	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.04	4859755.51
420	Retain	White Spruce	*Picea glauca*	14	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Very narrow canopy growth	598750.98	4859754.81
421	Retain	Eastern White Cedar	*Thuja occidentalis*	10	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.43	4859755.75
422	Retain	White Spruce	*Picea glauca*	24	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.94	4859754.96
423	Retain	White Spruce	*Picea glauca*	10	1.8		G	F	F	1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598747.38	4859754.33
424	Retain	Basswood	*Tilia americana*	14	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.58	4859756.46
425	Injure	White Spruce	*Picea glauca*	16	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598748.53	4859756.37
426	Remove	Basswood	*Tilia americana*	21	N/A		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.56	4859756.12
427	Remove	Ash sp.	*Fraxinus spp.*	13	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598745.41	4859757.79
428	Remove	Trembling Aspen	*Populus tremuloides*	19	N/A		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598741.63	4859750.38
429	Remove	Basswood	*Tilia americana*	17	N/A		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598745.16	4859754.37
430	Injure	Basswood	*Tilia americana*	14	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598745.47	4859753.97
431	Remove	Basswood	*Tilia americana*	18	N/A		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598744.67	4859754.03
432	Retain	White Spruce	*Picea glauca*	20	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.97	4859753.54
433	Retain	White Spruce	*Picea glauca*	22	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598747.48	4859752.33
434	Retain	White Spruce	*Picea glauca*	28	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598747.12	4859751.43
435	Retain	Basswood	*Tilia americana*	17	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.17	4859749.43
436	Retain	Ash sp.	*Fraxinus spp.*	24	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.63	4859745.78
438	Retain	Manitoba maple	*Acer negundo*	36	2.4	12, 12	P	P	P	3	75	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Large canker at base of tree. One major stem dead	598742.15	4859742.94
439	Retain	Manitoba maple	*Acer negundo*	15	1.8	13	P	P	P	1	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Old main stem decaying and removed at 1m.	598739.90	4859736.71
440	Retain	Trembling Aspen	*Populus tremuloides*	26	1.8		G	F	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598733.02	4859725.76
441	Retain	White Spruce	*Picea glauca*	14	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598731.95	4859704.62
442	Retain	White Spruce	*Picea glauca*	25	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598728.64	4859706.12
443	Retain	White Spruce	*Picea glauca*	12	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598735.47	4859711.05
444	Retain	Scots Pine	*Pinus syvlestris*	12	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598738.11	4859712.99
445	Retain	White Spruce	*Picea glauca*	12	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598738.54	4859711.77
446	Retain	White Spruce	*Picea glauca*	11	1.8		G	G	G	11	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.72	4859714.01
447	Retain	Manitoba maple	*Acer negundo*	12	1.8		F	P	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.47	4859734.59
448	Retain	White Spruce	*Picea glauca*	24	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598747.94	4859730.31
449	Retain	White Spruce	*Picea glauca*	32	2.4		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.56	4859731.48
450	Retain	White Spruce	*Picea glauca*	24	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.75	4859733.82
451	Retain	White Spruce	*Picea glauca*	28	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.78	4859735.17
452	Retain	White Spruce	*Picea glauca*	30	2.4		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.73	4859736.20
453	Retain	White Spruce	*Picea glauca*	28	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.99	4859737.17
454	Retain	White Spruce	*Picea glauca*	24	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598751.95	4859739.19
455	Retain	White Spruce	*Picea glauca*	22	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.10	4859738.73
456	Retain	White Spruce	*Picea glauca*	21	1.8	15	G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.71	4859737.29
457	Retain	White Spruce	*Picea glauca*	17	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.85	4859741.52
458	Retain	Basswood	*Tilia americana*	16	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.79	4859756.86
459	Retain	White Spruce	*Picea glauca*	30	2.4		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.70	4859741.00
460	Retain	White Spruce	*Picea glauca*	32	2.4		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598757.15	4859742.92
461	Retain	Norway Spruce	*Picea abies*	14	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598757.87	4859742.72
462	Retain	Norway Spruce	*Picea abies*	15	1.8		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.10	4859747.96
463	Retain	Norway Spruce	*Picea abies*	14	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.14	4859752.78
464	Retain	Sugar Maple	*Acer saccharum*	85	5.4		G	F	F	8	25	-	-	-	-	-	Yes	-	-	-	-	-	Yes	-	Yes	Declining live tree, several lead stems dead and decaying. Woodpecker feeding cavities. Crack, knot hole, loose bark.	598769.38	4859751.40
465	Retain	Norway Spruce	*Picea abies*	22	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.96	4859761.58
466	Retain	Norway Spruce	*Picea abies*	32	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.60	4859761.52
467	Retain	Norway Spruce	*Picea abies*	25	1.8	24	G	G	G	4	5	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.77	4859763.33
468	Retain	Norway Spruce	*Picea abies*	33	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.75	4859766.32
469	Retain	Norway Spruce	*Picea abies*	17	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.88	4859769.02
471	Retain	Norway Spruce	*Picea abies*	27	1.8	13	G	G	G	4	15	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.37	4859768.85
473	Retain	Norway Spruce	*Picea abies*	30	2.4		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.74	4859767.11

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
474	Retain	Norway Spruce	*Picea abies*	22	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.51	4859770.35
475	Retain	Norway Spruce	*Picea abies*	17	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.79	4859767.16
476	Retain	Ash sp.	*Fraxinus spp.*	17	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.88	4859779.36
477	Retain	Sugar Maple	*Acer saccharum*	86	5.4		G	G	F	10	20	-	-	-	-	-	Yes	-	-	-	-	-	Yes	-	Yes	Potential bat habitat. Declining live tree, middle leader dead and decaying. Woodpecker feeding damage. Several knot hole and cavities brownout canopy. On edge of trail. Crack, loose bark.	598785.90	4859774.90
478	Retain	Eastern Hemlock	*Tsuga canadensis*	20	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.34	4859779.96
479	Retain	Eastern Hemlock	*Tsuga canadensis*	18	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.05	4859781.38
480	Retain	Norway Spruce	*Picea abies*	30	2.4	19	G	G	G	4	10	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598796.76	4859788.84
481	Retain	Norway Spruce	*Picea abies*	32	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.29	4859786.38
482	Retain	Norway Spruce	*Picea abies*	34	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.22	4859784.19
483	Retain	Norway Spruce	*Picea abies*	22	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.96	4859782.62
484	Retain	Scots Pine	*Pinus sylvestris*	18	1.8		F	F	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.16	4859783.50
485	Remove	White Spruce	*Picea glauca*	18	N/A		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.56	4859766.45
486	Remove	White Spruce	*Picea glauca*	18	N/A		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598748.73	4859767.06
487	Retain	Scots Pine	*Pinus sylvestris*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.98	4859785.70
488	Retain	Scots Pine	*Pinus sylvestris*	32	2.4		P	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.87	4859785.73
489	Retain	Red Pine	*Pinus resinosa*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.72	4859784.17
490	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.96	4859783.58
492	Retain	Scots Pine	*Pinus sylvestris*	30	2.4		F	F	P	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.70	4859788.18
493	Retain	Scots Pine	*Pinus sylvestris*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.13	4859789.11
494	Retain	Scots Pine	*Pinus sylvestris*	19	1.8		F	P	P	2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.25	4859790.59
495	Retain	Red Pine	*Pinus resinosa*	19	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.80	4859792.78
496	Retain	Scots Pine	*Pinus sylvestris*	20	1.8		F	F	P	2	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.38	4859793.45
497	Retain	Scots Pine	*Pinus sylvestris*	32	2.4		F	P	P	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.63	4859792.95
498	Retain	Scots Pine	*Pinus sylvestris*	20	1.8		F	F	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.34	4859799.46
499	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	G	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598800.68	4859800.17
500	Retain	Scots Pine	*Pinus sylvestris*	15	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 5m. No scaffolding branching	598793.02	4859800.30
501	Retain	Black Locust	*Robinia pseudoacacia*	11	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598517.03	4860248.27
502	Retain	Black Locust	*Robinia pseudoacacia*	11	1.8		G	G	G	2	5	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	3 stems at 1.4m.	598518.35	4860247.54
503	Retain	Black Locust	*Robinia pseudoacacia*	10	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598521.64	4860249.65
504	Retain	Black Locust	*Robinia pseudoacacia*	11	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Secondary stem formed at base. Approx 5cm DBH	598525.78	4860250.08
505	Retain	Apple sp.	*Malus spp.*	17	1.8	17, 17	G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598524.35	4860230.53
506	Retain	Apple sp.	*Malus spp.*	19	1.8	14	G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598520.55	4860230.04
507	Retain	White Elm	*Ulmus americana*	20	1.8		D	D	D	1	100	-	-	-	Yes	-	-	-	-	-	-	Yes	-	-	-	90% of bark removed. Fruiting bodies on first 1m. Dutch elms disease damage throughout	598531.18	4860231.49
508	Retain	White Elm	*Ulmus americana*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598533.96	4860227.75
509	Retain	Red Pine	*Pinus resinosa*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Secondary stem snapped at base and laying on ground	598534.18	4860226.22
510	Retain	White Spruce	*Picea glauca*	30	2.4		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598533.16	4860224.36
511	Retain	White Elm	*Ulmus americana*	26	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60% of bark removed	598540.49	4860220.28
512	Retain	Apple sp.	*Malus spp.*	16	1.8		G	F	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unbalanced canopy	598546.19	4860216.14
513	Retain	Apple sp.	*Malus spp.*	34	2.4	24	G	G	G	5	5	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Canker at base of smaller stem	598546.84	4860215.16
514	Retain	Apple sp.	*Malus spp.*	21	1.8		G	G	G	4	5	-	-	North	-	-	-	-	-	-	-	-	-	-	-	30 degree lean to northeast	598548.22	4860216.73
515	Retain	Red Pine	*Pinus resinosa*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598541.92	4860225.22
516	Retain	Red Pine	*Pinus resinosa*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598542.40	4860228.44
517	Retain	Red Pine	*Pinus resinosa*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598546.72	4860228.08
518	Retain	White Spruce	*Picea glauca*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598548.98	4860229.09
519	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	G	G	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598548.42	4860224.24
520	Retain	White Elm	*Ulmus americana*	14	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598547.82	4860223.96
521	Retain	Apple sp.	*Malus spp.*	22	1.8		G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598550.09	4860225.60
522	Retain	Red Pine	*Pinus resinosa*	19	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598546.26	4860226.74
523	Retain	Red Pine	*Pinus resinosa*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Older dead tree.	598542.52	4860236.81
524	Retain	Hawthorn sp.	*Crataegus spp.*	14	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598541.01	4860239.36
525	Retain	White Pine	*Pinus strobus*	20	1.8		G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598537.03	4860240.63
526	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	F	P	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598538.30	4860235.43
527	Retain	Hawthorn sp.	*Crataegus spp.*	11	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598709.71	4860047.04

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
528	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	F	P	1	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598715.55	4860049.30
529	Retain	Red Pine	*Pinus resinosa*	12	1.8		F	F	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598717.13	4860047.52
530	Retain	European Buckthorn	*Rhamnus cathartica*	14	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598722.33	4860048.07
531	Retain	White Pine	*Pinus strobus*	29	1.8		G	G	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598722.99	4860054.02
532	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598728.60	4860054.01
533	Retain	Apple sp.	*Malus spp.*	23	1.8		G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598730.48	4860054.69
534	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	F	F	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598731.05	4860049.36
535	Retain	Ash sp.	*Fraxinus spp.*	29	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598734.63	4860047.72
536	Retain	Ash sp.	*Fraxinus spp.*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598741.01	4860045.43
537	Retain	Ash sp.	*Fraxinus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598741.02	4860042.17
538	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598754.52	4860037.07
539	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.13	4860039.31
540	Retain	European Buckthorn	*Rhamnus cathartica*	14	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.63	4860040.97
541	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	Yes	-	-	-	-	-	-	-	Heavily rotting at base of tree with heavy frass deposits	598762.19	4860039.34
542	Retain	European Buckthorn	*Rhamnus cathartica*	25	1.8	15	P	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.68	4860047.13
543	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.53	4860054.79
544	Retain	European Buckthorn	*Rhamnus cathartica*	22	1.8		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598753.69	4860059.95
545	Retain	Hawthorn sp.	*Crataegus spp.*	13	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.78	4860052.29
546	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.01	4860049.79
547	Retain	White Pine	*Pinus strobus*	26	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.15	4860054.84
548	Retain	Red Pine	*Pinus resinosa*	18	1.8		F	F	P	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.04	4860055.84
549	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	F	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.06	4860056.25
550	Retain	Red Pine	*Pinus resinosa*	12	1.8		P	P	P	2	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.75	4860055.38
551	Retain	Red Pine	*Pinus resinosa*	22	1.8		F	P	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.27	4860054.99
552	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.47	4860053.31
553	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	Heavily suppressed canopy	598791.38	4860051.06
554	Retain	Eastern White Cedar	*Thuja occidentalis*	16	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.48	4860048.01
555	Retain	Ash sp.	*Fraxinus spp.*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-	Not black ash	598789.12	4860047.29
556	Retain	Red Pine	*Pinus resinosa*	32	2.4		G	G	F	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.82	4860049.39
557	Retain	Eastern White Cedar	*Thuja occidentalis*	20	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.94	4860036.81
558	Retain	Eastern White Cedar	*Thuja occidentalis*	15	1.8	14	G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.17	4860036.12
559	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	F	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.40	4860035.08
560	Retain	Eastern White Cedar	*Thuja occidentalis*	15	1.8		G	G	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.94	4860033.80
561	Retain	Eastern White Cedar	*Thuja occidentalis*	16	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.23	4860033.80
562	Retain	Eastern White Cedar	*Thuja occidentalis*	11	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.05	4860033.41
563	Retain	Eastern White Cedar	*Thuja occidentalis*	17	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.21	4860030.78
564	Retain	Ash sp.	*Fraxinus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598784.10	4860029.09
565	Retain	Ash sp.	*Fraxinus spp.*	19	1.8	17	D	D	D	1	100	Yes	Yes	-	-	-	-	-	-	-	-	Yes	-	-	-		598782.80	4860030.06
566	Retain	Ash sp.	*Fraxinus spp.*	23	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598777.93	4860028.78
567	Retain	Ash sp.	*Fraxinus spp.*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598778.98	4860025.91
568	Retain	Ash sp.	*Fraxinus spp.*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598778.66	4860035.92
569	Retain	Black Cherry	*Prunus serotina*	25	1.8		G	G	G	4	20	-	-	South	-	-	-	-	-	-	-	-	-	-	-	Sweep lean southwards.	598779.16	4860041.04
570	Retain	Red Pine	*Pinus resinosa*	29	1.8		G	G	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598711.45	4860043.55
571	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Spare canopy	598715.27	4860043.17
572	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598713.76	4860040.87
573	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	G	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598715.12	4860037.85
574	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598715.02	4860035.80
575	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598713.30	4860035.32
576	Retain	Red Pine	*Pinus resinosa*	12	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598715.30	4860031.24
577	Retain	Sweet Crabapple	*Malus coronaria*	11	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unknown fruit tree with thorns	598717.62	4860031.18
578	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	F	P	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598725.36	4860040.66
579	Retain	Red Pine	*Pinus resinosa*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598726.19	4860044.62
580	Retain	Hawthorn sp.	*Crataegus spp.*	14	1.8		F	F	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598727.08	4860040.69
581	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	F	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598728.17	4860033.07
582	Retain	Red Pine	*Pinus resinosa*	14	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598732.65	4860038.03
583	Retain	Eastern White Cedar	*Thuja occidentalis*	12	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598741.86	4860038.93
584	Retain	Apple sp.	*Malus spp.*	28	1.8		G	F	F	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Main stem dead at 3m, new lead stem 0% dieback	598750.26	4860027.89
585	Retain	Apple sp.	*Malus spp.*	31	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598748.96	4860024.93

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
586	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598750.16	4860028.32
587	Retain	Apple sp.	*Malus spp.*	27	1.8	16	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.98	4860033.92
588	Retain	Apple sp.	*Malus spp.*	29	1.8	17, 12	G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.90	4860039.37
589	Retain	Hawthorn sp.	*Crataegus spp.*	15	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.73	4860024.98
590	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8		F	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.12	4860022.75
591	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8	11	G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.74	4860022.72
592	Retain	Hawthorn sp.	*Crataegus spp.*	14	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.22	4860020.20
593	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598781.93	4860019.86
594	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		P	P	P	1	75	-	-	-	-	-	-	-	-	-	Yes	Yes	-	-	-	Suckering first 3m	598779.48	4860012.63
595	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		P	P	P	2	50	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598780.17	4860013.40
596	Retain	Ash sp.	*Fraxinus spp.*	23	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.38	4860011.36
597	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.58	4860010.27
598	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8	12, 10	F	F	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	One stem dead and snapped at 3m.	598774.34	4860011.07
599	Retain	Apple sp.	*Malus spp.*	26	1.8	19	G	G	G	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.89	4860015.18
600	Retain	Hawthorn sp.	*Crataegus spp.*	14	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.87	4860007.23
601	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.68	4860009.12
602	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.54	4860011.63
603	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.23	4860012.20
604	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.77	4860013.49
605	Retain	Hawthorn sp.	*Crataegus spp.*	29	1.8		G	G	G	5	10	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598770.67	4860014.09
606	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Covered in large grapevine	598771.59	4860017.72
607	Retain	Hawthorn sp.	*Crataegus spp.*	13	1.8		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.19	4860023.14
608	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8		F	F	F	3	30	-	-	-	-	-	-	Yes	-	-	-	-	Yes	-	-	Older wound at base of secondary stem, showing signs of rot.	598765.17	4860018.16
609	Retain	Hawthorn sp.	*Crataegus spp.*	14	1.8		F	F	F	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.50	4860020.46
610	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		G	G	G	4	20	-	-	North	-	-	-	-	-	-	-	-	-	-	-	Lean to north.	598767.36	4860015.02
611	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.23	4860015.50
612	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.71	4860006.10
613	Retain	Ash sp.	*Fraxinus spp.*	17	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-	Older dead tree	598759.36	4859998.34
614	Retain	Hawthorn sp.	*Crataegus spp.*	18	1.8	15	P	P	P	3	50	-	-	-	-	-	-	Yes	-	-	-	-	Yes	-	-	Large canker at base of tree with substantial rot. Larger stem dead and decaying.	598752.91	4859998.86
615	Retain	Ash sp.	*Fraxinus spp.*	24	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598754.14	4859997.53
616	Retain	Hawthorn sp.	*Crataegus spp.*	14	1.8		G	G	G	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598755.93	4860002.39
617	Retain	Ash sp.	*Fraxinus spp.*	46	3		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	No	Low quality bat tree. Topped at 8m, recently dead, crack.	598751.28	4860001.67
618	Retain	Ash sp.	*Fraxinus spp.*	28	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.08	4859999.27
619	Remove	Black Cherry	*Prunus serotina*	45	N/A		D	D	D	1	100	-	-	-	-	-	-	Yes	-	-	-	-	-	-	-	Broken at 4m. Hollowed core with wasp nest. Signs of rot throughout.	598741.20	4859996.43
620	Retain	Apple sp.	*Malus spp.*	27	1.8	26, 16, 14	F	F	F	5	25	Yes	Yes	-	-	-	-	-	-	-	-	-	Yes	-	-	Two smallest stems dead.	598753.36	4859987.06
621	Retain	Hawthorn sp.	*Crataegus spp.*	11	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.29	4859991.69
622	Retain	Manitoba maple	*Acer negundo*	22	1.8		F	F	F	6	35	-	-	South	-	-	-	-	-	-	-	-	-	-	-	45 degree lean to south. Epicormic shoots throughout top facing trunk.	598759.47	4859993.26
623	Retain	Hawthorn sp.	*Crataegus spp.*	13	1.8		F	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	Canopy suppressed	598764.87	4859992.66
624	Retain	Hawthorn sp.	*Crataegus spp.*	16	1.8	14, 10	G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.32	4859991.21
625	Retain	Ash sp.	*Fraxinus spp.*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Recently dead tree	598764.93	4859990.52
626	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.58	4859986.43
627	Retain	Hawthorn sp.	*Crataegus spp.*	11	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6 additional stems under 10cm	598767.69	4859987.71
628	Retain	Ash sp.	*Fraxinus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.01	4859988.74
629	Retain	Red Pine	*Pinus resinosa*	27	1.8		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.86	4859990.05
630	Retain	Hawthorn sp.	*Crataegus spp.*	12	1.8	10	G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2 stems less than 10cm	598765.19	4859997.54
631	Retain	Apple sp.	*Malus spp.*	34	2.4	14	G	G	G	4	20	-	-	-	-	-	-	Yes	-	-	-	-	-	-	-	Small cavity west side 3m up. Evidence of rot with significant response wood.	598765.52	4859998.81
632	Retain	Ash sp.	*Fraxinus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598767.46	4859998.42
633	Retain	Hawthorn sp.	*Crataegus spp.*	11	1.8	10	G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.18	4859997.68
634	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.68	4860000.82
635	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.65	4860003.33
636	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.41	4860002.36
637	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.30	4860002.08
638	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.89	4860002.54
639	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	G	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.12	4860003.49

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
640	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	G	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.32	4860002.17
641	Retain	Red Pine	*Pinus resinosa*	14	1.8		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.91	4860003.71
642	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.44	4860001.79
643	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.45	4860002.93
644	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.68	4860002.35
645	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.68	4860001.57
646	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.41	4860006.79
647	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.05	4860004.60
648	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.76	4860001.74
649	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.79	4860003.32
650	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.88	4860000.95
651	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.89	4860007.30
652	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.69	4860007.28
653	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.01	4860010.56
654	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.03	4860013.46
655	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.43	4860012.19
656	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.26	4860013.46
657	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	2	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.12	4860013.50
658	Retain	Red Pine	*Pinus resinosa*	15	1.8		F	P	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.37	4860012.54
659	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.81	4860014.70
660	Retain	Red Pine	*Pinus resinosa*	14	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.44	4860015.94
661	Retain	Red Pine	*Pinus resinosa*	27	1.8		F	F	P	4	50	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	co-dominant starting at 3m	598785.15	4860020.71
662	Retain	Red Pine	*Pinus resinosa*	19	1.8		F	P	P	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.30	4860021.28
663	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.04	4860021.16
664	Retain	Red Pine	*Pinus resinosa*	13	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.68	4860020.16
665	Retain	Red Pine	*Pinus resinosa*	14	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.53	4860022.66
666	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.19	4860020.63
667	Retain	White Pine	*Pinus strobus*	47	3		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.23	4860026.46
668	Retain	Eastern White Cedar	*Thuja occidentalis*	11	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	Canopy suppressed	598790.44	4860028.78
669	Retain	Eastern White Cedar	*Thuja occidentalis*	12	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.66	4860028.58
670	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.75	4860023.85
671	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.11	4860014.53
672	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.28	4860013.27
673	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.73	4860013.09
674	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	P	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.07	4860013.40
675	Retain	Red Pine	*Pinus resinosa*	15	1.8		F	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.47	4860012.46
676	Retain	Red Pine	*Pinus resinosa*	15	1.8		F	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.09	4860011.08
677	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	P	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.64	4860008.74
678	Retain	Red Pine	*Pinus resinosa*	12	1.8		F	P	P	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.17	4860009.17
679	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.49	4860011.24
680	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.74	4860010.68
681	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	P	P	1	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.88	4860009.20
682	Retain	Red Pine	*Pinus resinosa*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.25	4860008.40
683	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.39	4860006.21
684	Retain	Red Pine	*Pinus resinosa*	13	1.8		F	P	P	1	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.43	4860005.80
685	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.13	4860005.99
687	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.86	4859999.24
688	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.11	4859997.34
689	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.31	4859996.47
690	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.81	4859994.53
692	Retain	Red Pine	*Pinus resinosa*	27	1.8		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.68	4859995.42
693	Retain	Red Pine	*Pinus resinosa*	15	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.66	4859991.61
694	Retain	Red Pine	*Pinus resinosa*	24	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.61	4859988.57
695	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.13	4859985.69
696	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.10	4859987.70
697	Retain	Red Pine	*Pinus resinosa*	15	1.8		D	D	D	1	100	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-	Fresh woodpecker feeding	598779.64	4859983.80
698	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.77	4859987.00
699	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.00	4859981.93
700	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.08	4859983.25
701	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.82	4859986.91

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
702	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.31	4859986.12
703	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.71	4859985.52
704	Retain	Red Pine	*Pinus resinosa*	12	1.8		F	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-		598778.13	4859984.75
705	Retain	Red Pine	*Pinus resinosa*	13	1.8		D	D	D	7	100	-	-	East	-	-	-	-	-	-	-	-	-	-	-		598779.86	4859983.49
706	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.36	4859982.46
707	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.05	4859980.97
708	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	F	F	3	30	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598780.88	4859982.29
709	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.34	4859980.01
710	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.19	4859977.36
711	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.91	4859975.33
713	Retain	Apple sp.	*Malus spp.*	18	1.8	17, 15	F	F	F	7	20	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598783.17	4859976.68
714	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.25	4859979.47
714	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.94	4859980.65
715	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.78	4859980.12
716	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.58	4859983.55
717	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.53	4859987.28
718	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		P	P	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.65	4859987.86
719	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	P	P	2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.51	4859987.69
720	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	F	P	4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.67	4859985.96
721	Retain	Red Pine	*Pinus resinosa*	12	1.8		F	P	P	1	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.84	4859989.92
722	Retain	Red Pine	*Pinus resinosa*	14	1.8		P	P	P	2	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.80	4859991.00
723	Retain	Red Pine	*Pinus resinosa*	13	1.8		F	P	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.16	4859989.76
724	Retain	Red Pine	*Pinus resinosa*	13	1.8	13	G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.56	4859985.13
725	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.10	4859984.57
726	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.47	4859989.31
727	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	P	2	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.22	4859993.46
728	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.76	4859996.06
729	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	F	F	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.85	4859996.87
730	Retain	Red Pine	*Pinus resinosa*	14	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.15	4859997.73
731	Retain	Red Pine	*Pinus resinosa*	18	1.8		F	F	F	3	30	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598787.55	4859996.54
732	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.62	4859999.49
733	Retain	Eastern White Cedar	*Thuja occidentalis*	11	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598725.05	4860027.67
734	Retain	Hawthorn sp.	*Crataegus spp.*	14	1.8	11, 10	G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2 additional stems under 10cm	598725.63	4860027.86
735	Retain	Apple sp.	*Malus spp.*	18	1.8	17, 15	G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598734.18	4860026.34
736	Retain	Red Pine	*Pinus resinosa*	14	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598736.24	4860022.09
737	Remove	Apple sp.	*Malus spp.*	17	N/A	13	G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598737.39	4860008.77
738	Remove	Ash sp.	*Fraxinus spp.*	12	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	Yes	-	-	-	-	3-5 epicormic growths within first 2m of trunk	598729.76	4860004.22
739	Remove	Ash sp.	*Fraxinus spp.*	14	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598731.70	4860002.42
740	Remove	Ash sp.	*Fraxinus spp.*	17	N/A		D	D	D	1	100	-	-	South	-	-	-	-	-	-	-	-	-	-	-	Lean south	598731.61	4860001.47
741	Remove	Ash sp.	*Fraxinus spp.*	11	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598731.93	4859993.71
742	Remove	Ash sp.	*Fraxinus spp.*	18	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598734.27	4859997.04
743	Remove	Ash sp.	*Fraxinus spp.*	10	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598735.24	4859997.15
744	Remove	Ash sp.	*Fraxinus spp.*	13	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598735.34	4859997.54
745	Remove	Ash sp.	*Fraxinus spp.*	18	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598739.73	4859992.66
746	Remove	Ash sp.	*Fraxinus spp.*	15	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 3m	598740.29	4859992.45
747	Remove	Ash sp.	*Fraxinus spp.*	17	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598740.59	4859991.90
748	Remove	Black Walnut	*Juglans nigra*	20	N/A		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598740.70	4859991.34
749	Remove	Ash sp.	*Fraxinus spp.*	20	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 3.5m	598742.56	4859991.56
750	Injure	Ash sp.	*Fraxinus spp.*	18	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598742.90	4859990.26
751	Remove	Ash sp.	*Fraxinus spp.*	16	N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598742.22	4859989.70
752	Retain	Ash sp.	*Fraxinus spp.*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 8m. No branching	598743.79	4859990.02
753	Retain	Ash sp.	*Fraxinus spp.*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.39	4859987.67
754	Retain	Ash sp.	*Fraxinus spp.*	23	1.8	23	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Secondary stem topped at 3m. Stems join at base of tree	598747.45	4859982.80
755	Retain	Ash sp.	*Fraxinus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 4m	598748.01	4859983.07
756	Retain	Ash sp.	*Fraxinus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.19	4859980.44
757	Retain	Ash sp.	*Fraxinus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598754.78	4859978.44
758	Retain	Ash sp.	*Fraxinus spp.*	15	1.8	15	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Secondary stem broken at 2m and snagged in adjacent tree suspended	598759.97	4859973.28

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
759	Retain	Ash sp.	*Fraxinus spp.*	46	3		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	No	Large recently dead tree. Not considered bat habitat	598766.15	4859967.02
760	Retain	Ash sp.	*Fraxinus spp.*	29	1.8	12	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Larger stem topped at 5m	598766.98	4859966.28
761	Retain	Ash sp.	*Fraxinus spp.*	15	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.84	4859957.97
762	Retain	White Elm	*Ulmus americana*	16	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.37	4859957.99
763	Retain	Ash sp.	*Fraxinus spp.*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.69	4859957.20
764	Retain	Ash sp.	*Fraxinus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.70	4859959.98
765	Retain	Ash sp.	*Fraxinus spp.*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.24	4859958.89
766	Retain	Black Walnut	*Juglans nigra*	24	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 6m. No branching	598771.71	4859959.03
767	Retain	Ash sp.	*Fraxinus spp.*	24	1.8	17, 15	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Secondary and tertiary stems topped at 5m	598780.10	4859953.32
768	Retain	Ash sp.	*Fraxinus spp.*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 4m	598775.07	4859956.31
769	Retain	Unknown Species	*Unknown species*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.70	4859955.92
770	Retain	Apple sp.	*Malus spp.*	18	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.29	4859949.94
771	Retain	Ash sp.	*Fraxinus spp.*	33	2.4		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Both stems topped at various heights. No scaffolding branching	598782.75	4859948.37
772	Retain	Ash sp.	*Fraxinus spp.*	21	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.25	4859946.64
773	Retain	Ash sp.	*Fraxinus spp.*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 4m	598785.92	4859946.94
774	Retain	Eastern White Cedar	*Thuja occidentalis*	14	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.80	4859941.90
775	Retain	Ash sp.	*Fraxinus spp.*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 4m. No scaffolding branches.	598792.73	4859943.46
776	Retain	Ash sp.	*Fraxinus spp.*	29	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Woodpecker feeding damage.	598791.70	4859943.64
777	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.86	4859946.51
778	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.09	4859943.94
779	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.39	4859974.33
780	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.76	4859974.62
781	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.29	4859977.24
782	Retain	Ash sp.	*Fraxinus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.92	4859987.75
783	Retain	Red Pine	*Pinus resinosa*	16	1.8		G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.22	4859984.83
784	Retain	Red Pine	*Pinus resinosa*	12	1.8		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598770.98	4859981.60
785	Retain	Amur Maple	*Acer ginnala*	17	1.8	13	G	G	G	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598751.65	4859955.29
786	Retain	Eastern White Cedar	*Thuja occidentalis*	29	1.8	27, 20	G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-	Canker on west side on largest trunk.	598754.16	4859951.24
787	Retain	Eastern White Cedar	*Thuja occidentalis*	37	2.4		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598754.30	4859950.46
788	Retain	White Elm	*Ulmus americana*	23	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Lower branches dying off	598753.54	4859949.47
789	Retain	Ash sp.	*Fraxinus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598755.75	4859950.04
790	Retain	Eastern Cottonwood	*Populus deltoides*	39	2.4		G	G	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.59	4859948.77
791	Retain	Ash sp.	*Fraxinus spp.*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.72	4859951.67
792	Retain	Ash sp.	*Fraxinus spp.*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598750.41	4859942.84
793	Retain	Ash sp.	*Fraxinus spp.*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No scaffold branches	598755.43	4859926.25
794	Retain	Ash sp.	*Fraxinus spp.*	30	2.4		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.73	4859926.50
795	Retain	Ash sp.	*Fraxinus spp.*	34	2.4		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.52	4859929.61
796	Retain	Ash sp.	*Fraxinus spp.*	19	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.42	4859925.42
797	Retain	Ash sp.	*Fraxinus spp.*	16	1.8	16	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598750.46	4859926.69
798	Retain	Ash sp.	*Fraxinus spp.*	34	2.4		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.51	4859925.02
799	Retain	Norway Spruce	*Picea abies*	47	3		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 6m	598759.60	4859925.07
800	Retain	Norway Spruce	*Picea abies*	49	3		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598757.21	4859921.26
801	Retain	Black Locust	*Robinia pseudoacacia*	10	1.8		F	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-		598529.47	4860273.76
802	Retain	Black Locust	*Robinia pseudoacacia*	12	1.8		F	G	G	3	10	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Two branches fused together at DBH height	598531.58	4860270.53
803	Retain	Black Locust	*Robinia pseudoacacia*	11	1.8		F	G	G	3	10	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598538.81	4860262.16
804	Retain	Apple sp.	*Malus spp.*	23	1.8		G	G	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598548.52	4860240.60
805	Retain	Red Pine	*Pinus resinosa*	11	1.8		G	F	P	3	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598553.19	4860229.25
806	Retain	Red Pine	*Pinus resinosa*	15	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped off at 5m, close to falling over	598556.09	4860225.58
807	Retain	White Elm	*Ulmus americana*	17	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598555.48	4860226.01
808	Retain	White Spruce	*Picea glauca*	15	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598556.07	4860225.44
809	Retain	Red Pine	*Pinus resinosa*	23	1.8		F	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598541.30	4860229.74
810	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598537.30	4860231.62
811	Retain	White Elm	*Ulmus americana*	17	1.8		G	G	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598543.28	4860227.00
812	Retain	Red Pine	*Pinus resinosa*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598543.66	4860226.27
813	Retain	Apple sp.	*Malus spp.*	11	1.8	10	F	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598543.79	4860223.86
814	Retain	White Spruce	*Picea glauca*	14	1.8		F	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Branch rubbing on trunk	598542.39	4860226.18
815	Retain	White Spruce	*Picea glauca*	13	1.8		P	F	F	3	20	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Rubbing against adjacent tree trunk	598543.81	4860225.98
816	Retain	White Spruce	*Picea glauca*	15	1.8		P	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Rubbing against adjacent tree trunk	598543.13	4860227.04

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
817	Retain	White Pine	*Pinus strobus*	27	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598537.73	4860243.47
818	Retain	Black Locust	*Robinia pseudoacacia*	12	1.8	11	D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598707.46	4860044.29
819	Retain	Red Pine	*Pinus resinosa*	15	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	No	Exfoliating bark, too decomposed, low quality	598717.05	4860047.17
820	Retain	Red Pine	*Pinus resinosa*	15	1.8		P	P	P	3	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598718.50	4860045.63
821	Retain	Red Pine	*Pinus resinosa*	20	1.8		P	P	P	5	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598717.61	4860043.64
822	Retain	Eastern White Cedar	*Thuja occidentalis*	11	1.8		G	G	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598725.56	4860051.93
823	Retain	Eastern White Cedar	*Thuja occidentalis*	23	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598736.67	4860061.69
824	Retain	Red Pine	*Pinus resinosa*	13	1.8		P	P	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598734.57	4860045.86
825	Retain	Sugar Maple	*Acer saccharum*	16	1.8		F	F	F	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598738.33	4860045.74
826	Retain	Unknown Species	*Unknown species*	17	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Woodpecker feeding. Topped off at 2 m	598743.49	4860045.14
827	Retain	White Ash	*Fraxinus americana*	24	1.8		D	D	D	5	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Yes	Exfoliating bark, candidate bat, recently dead.	598751.03	4860044.51
828	Retain	European Buckthorn	*Rhamnus cathartica*	11	1.8		F	F	F	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.84	4860045.26
829	Retain	European Buckthorn	*Rhamnus cathartica*	10	1.8		F	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.66	4860047.42
830	Retain	Unknown Species	*Unknown species*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.26	4860048.45
831	Retain	White Elm	*Ulmus americana*	14	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.48	4860054.18
832	Retain	White Ash	*Fraxinus americana*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Exfoliating bark	598758.15	4860058.56
833	Retain	European Buckthorn	*Rhamnus cathartica*	11	1.8		F	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.71	4860053.07
834	Retain	White Ash	*Fraxinus americana*	31	2.4		D	D	D	5	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Yes	Exfoliating bark	598765.58	4860044.05
835	Retain	Unknown Species	*Unknown species*	19	1.8	16, 10	D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	-	-	-	No	Exfoliating bark, too decayed	598772.07	4860050.50
836	Retain	Red Pine	*Pinus resinosa*	13	1.8		F	F	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.10	4860052.34
837	Retain	Red Pine	*Pinus resinosa*	17	1.8		F	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.33	4860054.18
838	Retain	Red Pine	*Pinus resinosa*	19	1.8		F	F	P	3	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.70	4860058.15
839	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	F	P	4	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.24	4860059.40
840	Retain	Eastern White Cedar	*Thuja occidentalis*	22	1.8	21	F	G	G	4	10	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598795.23	4860053.88
841	Retain	Eastern White Cedar	*Thuja occidentalis*	15	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.61	4860048.38
842	Retain	Eastern White Cedar	*Thuja occidentalis*	17	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.06	4860046.96
843	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	P	P	3	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Drey	598794.17	4860044.95
844	Retain	Eastern White Cedar	*Thuja occidentalis*	18	1.8	17	F	F	F	4	30	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598795.41	4860040.55
845	Retain	Eastern White Cedar	*Thuja occidentalis*	22	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.71	4860036.36
846	Retain	Eastern White Cedar	*Thuja occidentalis*	17	1.8		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.77	4860036.75
847	Retain	Eastern White Cedar	*Thuja occidentalis*	11	1.8		P	P	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598794.12	4860034.04
848	Retain	Eastern White Cedar	*Thuja occidentalis*	20	1.8		P	P	P	3	70	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598794.40	4860033.10
849	Retain	Eastern White Cedar	*Thuja occidentalis*	14	1.8		P	P	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.69	4860031.38
850	Retain	White Pine	*Pinus strobus*	25	1.8		F	G	F	4	30	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Canker at 1 m	598795.60	4860032.19
851	Retain	Apple sp.	*Malus spp.*	15	1.8	12, 12	P	P	P	5	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.93	4860033.35
852	Retain	Sweet Crabapple	*Malus coronaria*	15	1.8		G	F	F	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Fruit tree? Thorns	598712.73	4860044.84
853	Retain	Red Pine	*Pinus resinosa*	19	1.8		F	P	P	4	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598717.19	4860041.16
854	Retain	Red Pine	*Pinus resinosa*	11	1.8		F	P	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598719.31	4860036.08
855	Retain	Red Pine	*Pinus resinosa*	18	1.8		F	P	P	5	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598720.01	4860034.13
856	Retain	Eastern White Cedar	*Thuja occidentalis*	17	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598723.19	4860034.56
857	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	F	F	5	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598724.63	4860036.45
858	Retain	White Ash	*Fraxinus americana*	10	1.8		D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598724.25	4860034.42
859	Retain	Red Pine	*Pinus resinosa*	13	1.8		P	P	P	2	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598731.83	4860036.05
860	Retain	White Ash	*Fraxinus americana*	10	1.8		F	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598734.92	4860037.89
861	Retain	Apple sp.	*Malus spp.*	25	1.8	24	F	F	F	5	20	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598763.53	4860025.57
862	Retain	Apple sp.	*Malus spp.*	18	1.8		F	F	F	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.31	4860034.12
863	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		G	G	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.93	4860035.04
864	Retain	Red Pine	*Pinus resinosa*	10	1.8		F	P	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.93	4860019.86
865	Retain	Red Pine	*Pinus resinosa*	26	1.8		P	P	P	4	80	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598782.93	4860020.15
866	Retain	White Ash	*Fraxinus americana*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-	Topped off at 4m	598781.09	4860007.83
867	Retain	Red Pine	*Pinus resinosa*	19	1.8		F	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.21	4860006.22
868	Retain	White Ash	*Fraxinus americana*	17	1.8		D	D	D	4	100	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Exfoliating bark	598778.55	4860009.09
869	Retain	White Ash	*Fraxinus americana*	16	1.8	13	D	D	D	3	100	-	Yes	-	-	-	-	-	-	-	Yes	-	-	-	-		598773.54	4860006.04
870	Retain	White Ash	*Fraxinus americana*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.71	4860003.49
871	Retain	White Ash	*Fraxinus americana*	12	1.8		F	F	F	4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.22	4860008.72
872	Retain	White Ash	*Fraxinus americana*	10	1.8		D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598764.38	4860005.93
873	Retain	Hawthorn sp.	*Crataegus spp.*	18	1.8	17, 12, 11	F	F	F	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Drey	598762.64	4860006.67
874	Retain	White Ash	*Fraxinus americana*	52	3.6		D	D	D	6	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Yes	Exfoliating bark. High quality. Above 10m, recently dead.	598756.22	4860008.64
875	Retain	White Ash	*Fraxinus americana*	19	1.8		D	D	D	4	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598755.28	4860008.85

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
876	Retain	Hawthorn sp.	*Crataegus spp.*	17	1.8	15, 13, 10	D	D	D	5	100	-	-	-	-	Yes	-	-	-	-	-	-	-	-	-		598754.01	4860006.30
877	Retain	Hawthorn sp.	*Crataegus spp.*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped off at 4m	598751.16	4860004.53
878	Retain	White Ash	*Fraxinus americana*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.60	4859990.90
879	Retain	Hawthorn sp.	*Crataegus spp.*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598757.05	4859984.22
880	Retain	Basswood	*Tilia americana*	66	4.2	21, 21, 20	G	G	F	7	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Additional stems: 16,16,10. Has a couple of small knotholes but cannot see any high quality bat features	598755.98	4859981.28
881	Retain	White Ash	*Fraxinus americana*	17	1.8		D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598758.58	4859978.34
882	Retain	White Ash	*Fraxinus americana*	24	1.8		D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-	Exfoliating bark	598763.00	4859973.00
883	Retain	Apple sp.	*Malus spp.*	16	1.8		F	P	P	3	40	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598763.78	4859968.32
884	Retain	White Ash	*Fraxinus americana*	13	1.8		D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598765.07	4859969.92
885	Retain	Hawthorn sp.	*Crataegus spp.*	10	1.8		P	P	P	7	40	-	-	East	-	-	-	-	-	-	-	-	-	-	-		598772.56	4859964.62
886	Retain	Hawthorn sp.	*Crataegus spp.*	17	1.8		F	F	F	4	30	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Two stems fused at DBH height	598776.88	4859966.96
887	Retain	Red Pine	*Pinus resinosa*	23	1.8		F	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.85	4859968.04
888	Retain	Red Pine	*Pinus resinosa*	21	1.8		F	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.70	4859961.68
889	Retain	Red Pine	*Pinus resinosa*	26	1.8		F	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.01	4859966.05
890	Retain	Apple sp.	*Malus spp.*	29	1.8		F	G	F	6	20	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Sapsucker holes	598785.43	4859967.71
891	Retain	White Ash	*Fraxinus americana*	20	1.8		P	P	P	4	40	Yes	Yes	-	-	-	-	-	-	-	-	Yes	-	-	-		598787.07	4859969.41
892	Retain	Apple sp.	*Malus spp.*	13	1.8		F	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.54	4859973.52
893	Retain	White Ash	*Fraxinus americana*	18	1.8		D	D	D	4	100	Yes	Yes	-	-	Yes	-	-	-	-	-	-	-	-	-	Unknown insect damage	598787.57	4859973.36
894	Retain	White Ash	*Fraxinus americana*	13	1.8		P	P	P	5	90	-	-	East	-	-	-	-	-	-	Yes	Yes	-	-	-		598789.59	4859973.18
895	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	F	F	4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.54	4859964.25
896	Retain	Red Pine	*Pinus resinosa*	19	1.8		F	F	P	5	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.86	4859963.51
897	Retain	White Pine	*Pinus strobus*	20	1.8		G	F	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598779.51	4859962.08
898	Retain	White Pine	*Pinus strobus*	26	1.8		G	G	G	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.86	4859963.14
899	Retain	Black Cherry	*Prunus serotina*	47	3		D	D	D	5	100	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Exfoliating bark. Termite frass. High quality. Hollow, entrance at 2 m	598773.85	4859961.54
900	Retain	Black Cherry	*Prunus serotina*	41	3		P	F	F	6	30	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	Large canker at base where dead stem has fallen off	598778.89	4859959.21
901	Retain	Red Pine	*Pinus resinosa*	11	1.8		G	G	G	2	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598731.84	4860027.37
902	Retain	White Ash	*Fraxinus americana*	15	1.8		D	D	D	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Exfoliating bark. Low quality, all bark gone after 4m	598730.00	4860031.15
903	Retain	White Ash	*Fraxinus americana*	17	1.8	11, 10, 10	D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598746.89	4860021.79
904	Retain	White Ash	*Fraxinus americana*	17	1.8		D	D	D	4	100	-	-	-	-	Yes	-	-	-	-	-	-	-	-	-		598769.79	4859993.53
905	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.58	4859996.87
906	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.44	4859995.23
907	Retain	Red Pine	*Pinus resinosa*	22	1.8		F	F	F	3	30	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598773.02	4859993.85
908	Retain	White Ash	*Fraxinus americana*	17	1.8		D	D	D	2	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598773.85	4859992.15
909	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.44	4859990.50
910	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	F	F	5	20	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598771.49	4859990.73
911	Retain	White Ash	*Fraxinus americana*	11	1.8		D	D	D	2	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598774.77	4859987.49
912	Retain	Red Pine	*Pinus resinosa*	19	1.8		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.75	4859985.85
913	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598775.00	4859982.69
914	Retain	Red Pine	*Pinus resinosa*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Large vine	598778.78	4859986.34
915	Retain	Red Pine	*Pinus resinosa*	11	1.8		F	F	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.50	4859978.93
916	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.76	4859978.01
917	Retain	Red Pine	*Pinus resinosa*	21	1.8		G	F	F	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.89	4859977.15
918	Retain	Red Pine	*Pinus resinosa*	26	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.14	4859978.22
919	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.25	4859979.37
920	Retain	Red Pine	*Pinus resinosa*	20	1.8		F	F	F	4	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.26	4859981.89
921	Retain	Red Pine	*Pinus resinosa*	15	1.8		D	D	D	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped off 8 m	598775.09	4859983.64
922	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.91	4859983.92
923	Retain	White Ash	*Fraxinus americana*	11	1.8		D	D	D	2	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598776.22	4859994.94
924	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.00	4859995.36
925	Retain	Red Pine	*Pinus resinosa*	16	1.8		F	F	P	3	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.87	4859997.52
926	Retain	Red Pine	*Pinus resinosa*	22	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.90	4859999.15
927	Retain	Red Pine	*Pinus resinosa*	12	1.8		P	P	P	5	60	-	-	West	-	-	-	-	-	-	-	-	-	-	-		598793.89	4859988.75
928	Retain	White Elm	*Ulmus americana*	23	1.8		G	G	F	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.79	4859960.78
929	Retain	White Ash	*Fraxinus americana*	10	1.8		P	P	P	3	45	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-		598788.81	4859959.56
930	Retain	White Ash	*Fraxinus americana*	16	1.8		P	P	P	4	45	-	-	-	-	-	-	-	-	-	Yes	Yes	-	-	-		598787.88	4859958.16

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
931	Retain	White Ash	*Fraxinus americana*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598792.82	4859952.93
932	Retain	White Ash	*Fraxinus americana*	11	1.8		P	P	P	3	75	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598794.66	4859950.51
933	Retain	White Ash	*Fraxinus americana*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598794.92	4859949.08
934	Retain	White Ash	*Fraxinus americana*	12	1.8		D	D	D	2	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598797.02	4859948.67
935	Retain	Eastern White Cedar	*Thuja occidentalis*	15	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.74	4859953.90
936	Retain	Norway Spruce	*Picea abies*	55	3.6		G	G	G	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598754.73	4859932.37
937	Retain	Norway Spruce	*Picea abies*	48	3		G	G	G	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.03	4859929.32
938	Retain	Norway Spruce	*Picea abies*	30	2.4		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Very close to neighbour	598755.86	4859931.11
939	Retain	Norway Spruce	*Picea abies*	28	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Very close to neighbour	598755.49	4859928.52
940	Retain	Scots Pine	*Pinus syvlestris*	38	2.4		G	F	F	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Most of crown is on west side	598755.08	4859929.88
941	Retain	Sugar Maple	*Acer saccharum*	26	1.8	10	F	F	F	4	20	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598755.43	4859928.26
942	Retain	Red Pine	*Pinus resinosa*	34	2.4		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.05	4859931.97
943	Retain	Red Pine	*Pinus resinosa*	34	2.4		G	F	F	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.14	4859932.73
944	Retain	Unknown Species	*Unknown species*	13	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.16	4859932.78
945	Retain	White Pine	*Pinus strobus*	35	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.51	4859934.08
946	Retain	Red Pine	*Pinus resinosa*	38	2.4		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.37	4859933.42
947	Retain	Red Pine	*Pinus resinosa*	30	2.4		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.89	4859934.60
948	Retain	White Pine	*Pinus strobus*	69	4.2		G	G	G	6	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.00	4859933.79
949	Retain	Red Pine	*Pinus resinosa*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.39	4859932.80
950	Retain	Eastern White Cedar	*Thuja occidentalis*	19	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Drey	598768.92	4859930.09
951	Retain	Red Pine	*Pinus resinosa*	37	2.4		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.25	4859929.50
952	Retain	Red Pine	*Pinus resinosa*	33	2.4		G	G	G	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.27	4859932.23
953	Retain	Eastern White Cedar	*Thuja occidentalis*	13	1.8		F	F	P	3	40	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598768.89	4859925.28
954	Retain	Norway Spruce	*Picea abies*	33	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.72	4859923.73
955	Retain	White Ash	*Fraxinus americana*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598771.78	4859924.24
956	Retain	White Ash	*Fraxinus americana*	10	1.8		D	D	D	2	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598765.40	4859915.05
958	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	G	F	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.65	4859904.88
959	Retain	Red Pine	*Pinus resinosa*	14	1.8		F	P	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	Crown to north mostly	598769.43	4859906.44
960	Retain	White Pine	*Pinus strobus*	36	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.86	4859905.11
961	Retain	Red Pine	*Pinus resinosa*	17	1.8		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598772.30	4859904.68
962	Retain	Red Pine	*Pinus resinosa*	17	1.8		F	P	P	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.38	4859907.41
963	Retain	Basswood	*Tilia americana*	34	2.4		G	G	G	5	10	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598776.99	4859910.74
964	Retain	White Ash	*Fraxinus americana*	13	1.8		D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598774.82	4859911.33
965	Retain	White Ash	*Fraxinus americana*	15	1.8		D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598776.47	4859913.72
966	Retain	White Ash	*Fraxinus americana*	14	1.8		D	D	D	3	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598774.42	4859913.22
967	Retain	White Pine	*Pinus strobus*	18	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.98	4859915.33
968	Retain	Basswood	*Tilia americana*	36	2.4		G	G	G	5	15	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598782.12	4859911.43
969	Retain	Scots Pine	*Pinus syvlestris*	13	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Crown mostly on east side	598784.40	4859907.48
970	Retain	White Pine	*Pinus strobus*	26	1.8		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.91	4859904.27
971	Retain	White Ash	*Fraxinus americana*	32	2.4		P	P	P	4	70	Yes	Yes	-	-	-	-	-	-	-	Yes	Yes	-	-	-	Exfoliating bark	598784.19	4859900.73
972	Retain	White Ash	*Fraxinus americana*	18	1.8		D	D	D	2	100	-	-	-	Yes	-	-	-	-	-	-	Yes	-	-	-	Exfoliating bark	598789.30	4859902.44
973	Retain	Red Pine	*Pinus resinosa*	14	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598778.90	4859907.74
974	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.34	4859906.46
975	Retain	White Pine	*Pinus strobus*	29	1.8		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.96	4859901.29
976	Retain	Red Pine	*Pinus resinosa*	27	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.12	4859884.44
977	Retain	White Pine	*Pinus strobus*	36	2.4		G	G	G	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.46	4859880.32
978	Retain	Red Pine	*Pinus resinosa*	26	1.8		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.51	4859879.01
979	Retain	White Ash	*Fraxinus americana*	13	1.8		F	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.17	4859876.56
980	Retain	Unknown Species	*Unknown species*	36	2.4		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.02	4859873.19
981	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	G	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.67	4859874.68
982	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.11	4859877.29
983	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.21	4859880.08
984	Retain	White Pine	*Pinus strobus*	29	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.27	4859882.16
985	Retain	White Pine	*Pinus strobus*	31	2.4		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.12	4859881.87
986	Retain	White Pine	*Pinus strobus*	22	1.8		G	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.85	4859881.04
987	Retain	White Pine	*Pinus strobus*	30	2.4		G	F	F	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.59	4859876.97
988	Retain	White Pine	*Pinus strobus*	32	2.4		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.18	4859875.93
989	Retain	Red Pine	*Pinus resinosa*	20	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.64	4859873.75
990	Retain	Red Pine	*Pinus resinosa*	26	1.8		G	F	F	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.18	4859870.21
991	Retain	Red Pine	*Pinus resinosa*	18	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.19	4859868.95

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
992	Retain	White Pine	*Pinus strobus*	28	1.8		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.24	4859873.58
993	Retain	Red Pine	*Pinus resinosa*	23	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.47	4859872.30
994	Retain	Red Pine	*Pinus resinosa*	25	1.8		G	F	F	3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.78	4859868.07
995	Retain	White Pine	*Pinus strobus*	35	2.4		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.98	4859867.28
996	Retain	White Pine	*Pinus strobus*	20	1.8		F	F	P	3	45	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-		598791.89	4859865.29
997	Retain	Red Pine	*Pinus resinosa*	18	1.8		D	D	D	1	100	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-		598792.92	4859864.88
998	Retain	White Ash	*Fraxinus americana*	26	1.8		P	P	P	3	80	-	-	-	-	-	-	-	-	-	Yes	Yes	-	-	-		598792.24	4859862.69
999	Retain	White Pine	*Pinus strobus*	18	1.8		F	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.53	4859862.70
1000	Retain	Red Pine	*Pinus resinosa*	18	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.03	4859862.92
1001	Retain	Eastern White Cedar	*Thuja occidentalis*	23	1.8	12	G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.68	4859702.19
1002	Retain	Eastern White Cedar	*Thuja occidentalis*	24	1.8	16	G	G	G	3	0	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-		598751.49	4859701.99
1002	Retain	White Pine	*Pinus strobus*	33	2.4		G	F	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.94	4859828.76
1003	Retain	White Pine	*Pinus strobus*	25	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.18	4859700.07
1004	Retain	White Pine	*Pinus strobus*	21	1.8		D	D	D	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598757.43	4859697.12
1005	Retain	Sugar Maple	*Acer saccharum*	86	5.4		G	G	G	7	10	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	No cavities observed.	598755.96	4859712.28
1006	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.40	4859707.61
1007	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.91	4859708.04
1008	Retain	Trembling Aspen	*Populus tremuloides*	18	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598767.01	4859704.37
1009	Retain	White Pine	*Pinus strobus*	19	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598768.70	4859705.71
1010	Retain	Unknown Species	*Unknown species*	12	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dead snag with 70% bark loss	598769.40	4859709.22
1011	Retain	Scots Pine	*Pinus syvlestris*	30	2.4		F	P	P	2	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.63	4859703.90
1013	Retain	Trembling Aspen	*Populus tremuloides*	14	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Woodpecker feeding damage.	598770.28	4859703.39
1013	Retain	Apple sp.	*Malus spp.*	22	1.8	22	G	F	F	4	25	-	-	-	-	-	-	-	-	-	Yes	-	-	-	-	Significant epicormic growth on top of trunks.	598771.10	4859698.69
1014	Retain	Norway Spruce	*Picea abies*	15	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.29	4859703.15
1015	Retain	White Elm	*Ulmus americana*	12	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598776.28	4859705.97
1016	Retain	Trembling Aspen	*Populus tremuloides*	26	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.21	4859707.34
1017	Retain	Trembling Aspen	*Populus tremuloides*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.79	4859702.34
1018	Retain	Trembling Aspen	*Populus tremuloides*	24	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Aspen brackets throughout trunk	598784.48	4859704.67
1019	Retain	Trembling Aspen	*Populus tremuloides*	22	1.8		F	F	F	4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bow lean south	598785.25	4859700.19
1021	Retain	Scots Pine	*Pinus syvlestris*	13	1.8		F	P	P	2	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.98	4859698.06
1021	Retain	Scots Pine	*Pinus syvlestris*	21	1.8		F	P	P	2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.83	4859696.38
1022	Retain	Scots Pine	*Pinus syvlestris*	12	1.8		G	G	G	2	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.98	4859696.46
1023	Retain	White Pine	*Pinus strobus*	21	1.8		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.11	4859695.78
1027	Retain	White Spruce	*Picea glauca*	16	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.87	4859694.03
1028	Retain	Manitoba maple	*Acer negundo*	12	1.8	10	G	G	G	3	10	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	co-dominant starting at ground level	598787.00	4859700.91
1029	Retain	Trembling Aspen	*Populus tremuloides*	18	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598786.25	4859707.22
1030	Retain	Trembling Aspen	*Populus tremuloides*	29	1.8		F	F	F	3	30	-	-	-	Yes	-	-	-	-	-	-	-	-	-	-	Fruiting bodies on trunk, aspen brackets. Likely some trunk rot	598786.18	4859710.54
1031	Retain	Trembling Aspen	*Populus tremuloides*	22	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.14	4859715.92
1032	Retain	White Spruce	*Picea glauca*	17	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.30	4859713.80
1033	Retain	White Spruce	*Picea glauca*	40	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.56	4859716.42
1034	Retain	Norway Maple	*Acer platanoides*	14	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.38	4859716.33
1035	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.20	4859734.66
1036	Retain	White Pine	*Pinus strobus*	35	2.4		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.43	4859734.03
1037	Retain	White Pine	*Pinus strobus*	28	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598799.05	4859734.48
1038	Retain	White Pine	*Pinus strobus*	17	1.8		G	G	G	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598799.36	4859736.31
1039	Retain	White Pine	*Pinus strobus*	17	1.8		G	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.09	4859739.79
1040	Retain	White Pine	*Pinus strobus*	28	1.8	16	G	G	G	3	10	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.11	4859740.60
1042	Retain	Trembling Aspen	*Populus tremuloides*	28	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.67	4859737.29
1043	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.99	4859740.53
1044	Retain	Trembling Aspen	*Populus tremuloides*	16	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.54	4859742.86
1045	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.06	4859742.00
1046	Retain	White Pine	*Pinus strobus*	25	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.95	4859746.01
1047	Retain	White Pine	*Pinus strobus*	15	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.64	4859746.99
1048	Retain	White Pine	*Pinus strobus*	35	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598783.97	4859748.16
1049	Retain	White Pine	*Pinus strobus*	31	2.4	30	G	G	G	5	10	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	co-dominant at ground level	598785.14	4859752.19
1050	Retain	White Pine	*Pinus strobus*	28	1.8		F	P	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.23	4859744.01
1051	Retain	White Pine	*Pinus strobus*	23	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.80	4859749.69
1053	Retain	Trembling Aspen	*Populus tremuloides*	30	2.4		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.48	4859756.82
1054	Retain	White Pine	*Pinus strobus*	27	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.33	4859758.21

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
1055	Retain	Trembling Aspen	*Populus tremuloides*	29	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.04	4859752.86
1056	Retain	White Pine	*Pinus strobus*	28	1.8		G	G	F	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.03	4859753.92
1057	Retain	Trembling Aspen	*Populus tremuloides*	15	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.20	4859752.03
1058	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.56	4859760.56
1059	Retain	White Pine	*Pinus strobus*	26	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.54	4859762.68
1060	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.96	4859764.86
1061	Retain	White Pine	*Pinus strobus*	20	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.22	4859767.70
1062	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.93	4859770.89
1063	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598799.31	4859767.87
1064	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.52	4859766.64
1065	Retain	White Pine	*Pinus strobus*	36	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.17	4859765.37
1066	Retain	White Pine	*Pinus strobus*	25	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.13	4859763.68
1067	Retain	Scots Pine	*Pinus syvlestris*	19	1.8		F	F	F	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598800.58	4859763.14
1068	Retain	Scots Pine	*Pinus syvlestris*	34	2.4		F	F	P	4	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598801.53	4859764.15
1069	Retain	Scots Pine	*Pinus syvlestris*	28	1.8		F	F	P	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598801.95	4859762.83
1070	Retain	White Pine	*Pinus strobus*	10	1.8		F	P	P	1	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598798.79	4859759.18
1071	Retain	White Pine	*Pinus strobus*	12	1.8		F	F	F	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598799.97	4859759.05
1072	Retain	Scots Pine	*Pinus syvlestris*	14	1.8		F	P	P	2	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598799.67	4859756.11
1073	Retain	Trembling Aspen	*Populus tremuloides*	35	2.4	35	G	G	G	6	10	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-		598802.13	4859756.25
1074	Retain	White Pine	*Pinus strobus*	31	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.55	4859755.79
1075	Retain	White Pine	*Pinus strobus*	34	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.00	4859744.84
1076	Retain	White Pine	*Pinus strobus*	35	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598782.15	4859739.96
1077	Retain	White Pine	*Pinus strobus*	31	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598774.44	4859737.63
1078	Retain	White Pine	*Pinus strobus*	31	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598773.02	4859735.42
1079	Retain	White Pine	*Pinus strobus*	17	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.57	4859732.58
1080	Retain	White Birch	*Betula papyrifera*	12	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.14	4859731.55
1081	Retain	White Pine	*Pinus strobus*	12	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.85	4859730.38
1082	Retain	White Pine	*Pinus strobus*	26	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.01	4859728.34
1083	Retain	White Spruce	*Picea glauca*	15	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.53	4859727.10
1084	Retain	White Spruce	*Picea glauca*	11	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598771.24	4859726.65
1085	Retain	White Spruce	*Picea glauca*	11	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.68	4859726.64
1086	Retain	White Spruce	*Picea glauca*	13	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598769.82	4859725.09
1087	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598766.75	4859726.51
1088	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598764.38	4859725.37
1089	Retain	White Pine	*Pinus strobus*	15	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.83	4859724.21
1090	Retain	White Pine	*Pinus strobus*	20	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.02	4859723.15
1091	Retain	White Pine	*Pinus strobus*	20	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598762.12	4859721.96
1092	Retain	Trembling Aspen	*Populus tremuloides*	12	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.17	4859721.20
1093	Retain	White Pine	*Pinus strobus*	28	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.34	4859720.73
1094	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598760.03	4859719.22
1095	Retain	Trembling Aspen	*Populus tremuloides*	21	1.8		G	F	F	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598801.01	4859705.53
1096	Retain	Trembling Aspen	*Populus tremuloides*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Woodpecker feeding damage.	598795.28	4859709.24
1097	Retain	Trembling Aspen	*Populus tremuloides*	19	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 3m.	598796.51	4859708.68
1098	Retain	Trembling Aspen	*Populus tremuloides*	20	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598800.89	4859701.24
1099	Retain	Trembling Aspen	*Populus tremuloides*	28	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598777.83	4859719.66
1100	Retain	Trembling Aspen	*Populus tremuloides*	25	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped at 5m	598796.13	4859721.13
1101	Retain	White Pine	*Pinus strobus*	23	1.8		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.40	4859757.87
1801	Remove	Trembling Aspen	*Populus tremuloides*	11	N/A		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.07	4859770.42
1802	Injure	Trembling Aspen	*Populus tremuloides*	20	1.8		P	P	P	1	95	-	-	-	-	-	-	Yes	-	-	-	-	-	-	-	Aspen bracket throughout trunk. Trunk rot evidence	598750.99	4859772.85
1803	Remove	White Spruce	*Picea glauca*	14	N/A		G	F	F	1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598750.94	4859770.46
1804	Remove	White Spruce	*Picea glauca*	10	N/A		G	F	F	1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598749.93	4859769.79
1805	Remove	White Pine	*Pinus strobus*	36	N/A		G	G	G	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.31	4859767.47
1806	Remove	White Spruce	*Picea glauca*	11	N/A		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598754.42	4859767.35
1807	Remove	White Spruce	*Picea glauca*	10	N/A		G	F	F	2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.92	4859769.98
1809	Retain	Ash sp.	*Fraxinus spp.*	82	5.4		F	F	F	10	100	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-		598764.91	4859940.61
1810	Retain	Hawthorn sp.	*Crataegus spp.*	15	1.8		G	G	G	3	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598765.88	4859939.20
1811	Retain	Ash sp.	*Fraxinus spp.*		1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.13	4859928.25
1812	Retain	Red Pine	*Pinus resinosa*	27	1.8		F	F	F	3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598772.20	4859929.33
1813	Retain	Ash sp.	*Fraxinus spp.*		1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598778.29	4859925.31

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
1814	Retain	Sugar Maple	*Acer saccharum*	12	1.8		G	G	G	3	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.75	4859918.60
1815	Retain	Sugar Maple	*Acer saccharum*	22	1.8		G	G		6	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598780.48	4859919.88
1816	Retain	Maple sp.	*Acer spp.*	19	1.8		G	G	G	7	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.91	4859918.11
1817	Retain	White Spruce	*Picea glauca*	17	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598781.74	4859925.35
1818	Retain	White Spruce	*Picea glauca*	25	1.8		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598784.15	4859923.32
1820	Retain	White Spruce	*Picea glauca*	19	1.8		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.07	4859931.22
1821	Retain	White Pine	*Pinus strobus*	21	1.8		G	G	G	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598779.32	4859931.24
1822	Retain	Eastern Cottonwood	*Populus deltoides*	33	2.4	31	F	F	F	10	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.24	4859918.73
1823	Retain	Eastern Cottonwood	*Populus deltoides*	15	1.8		P	P	P	7	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.86	4859919.44
1824	Retain	White Spruce	*Picea glauca*	14	1.8		G	G	G	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598785.82	4859921.21
1825	Retain	White Spruce	*Picea glauca*	25	1.8		G	G	G	8	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.13	4859917.82
1826	Retain	White Spruce	*Picea glauca*	20	1.8		G	G	G	7	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.34	4859917.21
1827	Retain	White Pine	*Pinus strobus*	23	1.8		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.79	4859917.32
1828	Retain	White Spruce	*Picea glauca*	14	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.75	4859915.64
1829	Retain	White Spruce	*Picea glauca*	15	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598794.42	4859916.57
1830	Retain	Unknown Species	*Unknown species*	20	1.8		D	D	D	1	100	Yes	-	-	-	-	-	-	-	-	-	-	-	-	Yes	co-dominant, both dead, pileated feeding, potential bat tree	598791.60	4859912.90
1831	Retain	White Spruce	*Picea glauca*	10	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.06	4859913.25
1831	Retain	White Spruce	*Picea glauca*	14	1.8		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598793.79	4859913.34
1832	Retain	White Pine	*Pinus strobus*	23	1.8		G	F	G	7	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.12	4859913.34
1833	Retain	Basswood	*Tilia americana*	13	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.04	4859912.87
1834	Retain	Basswood	*Tilia americana*	29	1.8	13	G	G	G	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598789.62	4859911.07
1835	Retain	White Pine	*Pinus strobus*	34	2.4		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.66	4859902.87
1836	Retain	White Pine	*Pinus strobus*	28	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598795.48	4859899.95
1838	Retain	White Pine	*Pinus strobus*	30	2.4		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.76	4859896.85
1839	Retain	Ash sp.	*Fraxinus spp.*	18	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.89	4859893.09
1840	Retain	Ash sp.	*Fraxinus spp.*	15	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.74	4859890.75
1841	Retain	Ash sp.	*Fraxinus spp.*	15	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598797.42	4859888.63
1842	Retain	Ash sp.	*Fraxinus spp.*	31	2.4		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598796.15	4859886.82
1843	Retain	Ash sp.	*Fraxinus spp.*	20	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598787.77	4859888.98
1844	Retain	White Pine	*Pinus strobus*	32	2.4		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598790.62	4859890.23
1845	Retain	Unknown Species	*Unknown species*	23	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Woodpecker feeding damage.	598789.29	4859886.95
1846	Retain	White Pine	*Pinus strobus*	20	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598791.55	4859887.33
1847	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598788.12	4859894.81
1848	Retain	Ash sp.	*Fraxinus spp.*	15	1.8		P	P	P	2	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598792.11	4859898.94
1973	Remove	White Spruce	*Picea glauca*	18	N/A		G	G	G	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598755.73	4859780.17
1974	Remove	White Spruce	*Picea glauca*	23	N/A		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598754.21	4859779.15
1975	Injure	White Spruce	*Picea glauca*	12	1.8		G	G	G	2	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598754.20	4859777.70
1976	Remove	White Spruce	*Picea glauca*	18	N/A		G	G	G	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.56	4859779.71
1977	Retain	Eastern Cottonwood	*Populus deltoides*		1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598746.41	4859776.04
1978	Retain	White Spruce	*Picea glauca*	18	1.8		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598751.31	4859776.80
1979	Retain	White Spruce	*Picea glauca*	17	1.8		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.13	4859776.81
1980	Retain	White Spruce	*Picea glauca*	12	1.8	12	G	G	G	6	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598752.94	4859775.96
1981	Retain	White Spruce	*Picea glauca*	14	1.8		G	G	G	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598754.91	4859775.85
1982	Retain	White Spruce	*Picea glauca*	16	1.8		G	G	G	3	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598755.19	4859777.12
1984	Remove	Eastern Cottonwood	*Populus deltoides*		N/A		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Topped off	598754.76	4859771.64
1985	Remove	White Spruce	*Picea glauca*	16	N/A		G	G	G	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598755.17	4859771.46
1986	Injure	Eastern Cottonwood	*Populus deltoides*	11	1.8		F	F	F	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.82	4859768.70
1988	Retain	White Spruce	*Picea glauca*	19	1.8		G	G	G	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.67	4859764.13
1989	Retain	White Spruce	*Picea glauca*	14	1.8		G	F	G	5	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.10	4859763.31
1990	Retain	White Spruce	*Picea glauca*	17	1.8		G	G	G	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.88	4859765.38
1991	Retain	White Spruce	*Picea glauca*	12	1.8		G	G	G	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598758.57	4859768.71
1992	Retain	White Spruce	*Picea glauca*	16	1.8		G	G	G	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598759.09	4859769.90
1993	Injure	Eastern Cottonwood	*Populus deltoides*	16	1.8		P	P	P	2	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598757.07	4859773.29
1993	Retain	White Spruce	*Picea glauca*	20	1.8		P	F	F	7	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Trunk is a squiggle	598759.94	4859769.77
1994	Retain	Eastern Cottonwood	*Populus deltoides*	29	1.8		F	F	F	7	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Other DBH: 22, 28, 24, 15, 24, 11, 14, rest less than 10, woodpecker	598763.50	4859767.27
1995	Retain	Eastern Cottonwood	*Populus deltoides*	24	1.8		G	G	G	4	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598761.46	4859770.29
1996	Retain	White Spruce	*Picea glauca*	13	1.8		G	G	G	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598763.03	4859772.39
1997	Retain	Eastern Cottonwood	*Populus deltoides*	11	1.8		G	F	F	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-		598756.46	4859764.93

Tree Tag	Action	Common Species	Scientific Name	DBH (cm)	TPZ (m)	Additional Stems	Trunk Integrity	Crown Structure	Crown Vigour	Radial Dripline	Canopy Dieback	Co-dominant Stems	Included Bark	Lean Direction	Fungus	Insects	Cavity	Rot	Wound	Frost Crac	Epicormic	EAB	Canker	Suppressed	Candidate Bat Tree	Comments	Northing	Easting
1997	Retain	Eastern Cottonwood	*Populus deltoides*	27	1.8		F	P	P	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598762.12	4859771.48
1998	Retain	Eastern Cottonwood	*Populus deltoides*	14	1.8		P	F	F	3	95	-	-	-	-	-	-	Yes	-	-	-	-	Yes	-	-	598760.17	4859775.23
1999	Retain	Eastern Cottonwood	*Populus deltoides*	13	1.8		G	G	G	3	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598758.33	4859775.59
2000	Retain	White Spruce	*Picea glauca*	14	1.8		G	G	G	5	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598757.86	4859777.14
2058	Retain	White Pine	*Pinus strobus*	26	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598786.38	4859826.87
NT01	Retain	Norway Spruce	*Picea abies*	30	2.4		G	G	G	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598798.14	4859791.59
NT02	Retain	Trembling Aspen	*Populus tremuloides*	10	1.8		P	P	P	1	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Lowering branching living. Main stem dead and snapped at 6m.	598776.43	4859786.86
NT03	Retain	White Spruce	*Picea glauca*	23	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598744.93	4859728.80
NT04	Retain	White Spruce	*Picea glauca*	15	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598743.35	4859726.48
NT05	Retain	White Spruce	*Picea glauca*	22	1.8	16	G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598740.58	4859723.95
NT06	Retain	White Spruce	*Picea glauca*	15	1.8	15	G	G	G	2	5	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	598741.04	4859721.34
NT07	Retain	White Spruce	*Picea glauca*	17	1.8		G	G	G	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598741.84	4859723.16
NT08	Retain	White Spruce	*Picea glauca*	13	1.8		G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598744.13	4859721.84
NT09	Retain	White Spruce	*Picea glauca*	16	1.8	10	G	G	G	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598744.88	4859723.82
NT10	Retain	White Spruce	*Picea glauca*	18	1.8		G	G	G	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598746.11	4859722.57
NT11	Retain	White Spruce	*Picea glauca*	19	1.8	12	G	G	G	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598745.90	4859726.02
NT12	Retain	White Spruce	*Picea glauca*	28	1.8		G	G	G	2	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598735.56	4859714.62
NT13	Retain	White Spruce	*Picea glauca*	24	1.8		G	G	G	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598731.74	4859709.68
NT14	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598776.91	4859713.33
NT15	Retain	Ash sp.	*Fraxinus spp.*	10	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598793.07	4859709.15
NT16	Retain	Ash sp.	*Fraxinus spp.*	11	1.8		D	D	D	1	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598798.01	4859713.41
NT17	Retain	Trembling Aspen	*Populus tremuloides*	13	1.8		G	G	G	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	598777.26	4859733.80

APPENDIX B
Tree Preservation Plan

Easting (m)

598700 598720 598740 598760 598780 598800

Northing (m)

4860060 4860040 4860020 4860000 4859980

N

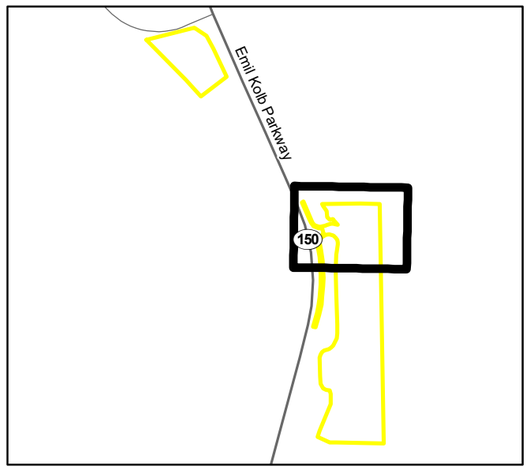
Emil Kolb Parkway

150

Study Area
Proposed Works
Highway

Removal
- Retain
- Injure
- Remove
- Candidate Bat Tree

Tree Protection Zone (TPZ)
- Retain
- Injure



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1:400 metres
4 0 4 8
NAD 1983 UTM Zone 17N

[redacted]

GEI Consultants
Bolton Tract Arborist Report

Tree Inventory

Date:	Project:	Submitter:	Reviewer:
February 2025	36069	A. Perez	D. Frey

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Figure 2-A

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Easting (m)

598700 598720 598740 598760 598780 598800

Northing (m)

4859960 4859940 4859920 4859900 4859880

Emil Kolb Parkway

150

N

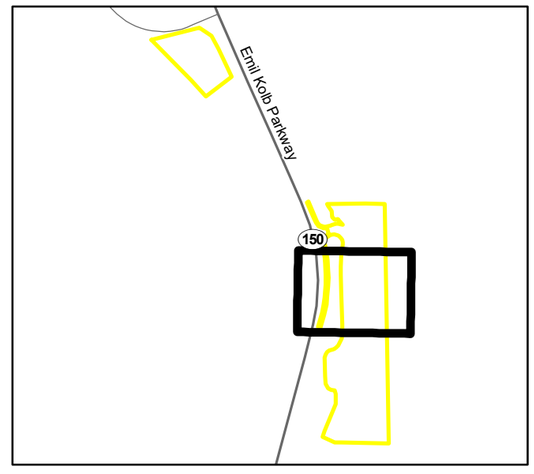
Study Area
Proposed Works
Highway

Removal

Retain
Candidate Bat Tree

Tree Protection Zone (TPZ)

Retain



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1:400 metres

4 0 4 8

NAD 1983 UTM Zone 17N

[redacted]

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Bolton Tract Arborist Report

Tree Inventory

Date:	Project:	Submitter:	Reviewer:
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Figure 2-B

I:\GM\BluePlainEngineering\Jobs\36069\FiguresAndTables\VEGs2025\Arborist\Figure-2-x-Tree_Inventory.mxd – Tablold_L – 18-Feb-25, 02:30 PM – aperez – TID0.5

Easting (m)

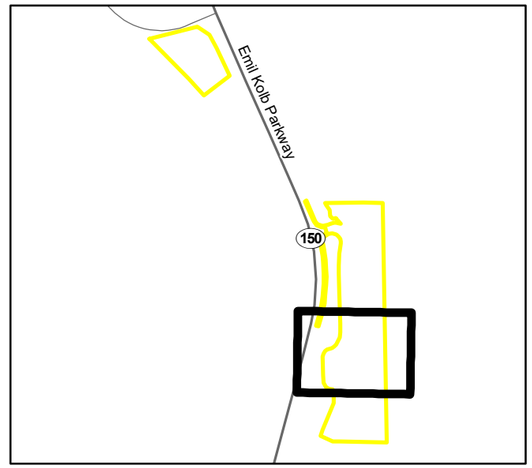
598700 598720 598740 598760 598780 598800

Northing (m)

4859880 4859860 4859840 4859820 4859800

N

Study Area
Proposed Works
Removal
Retain
Injure
Remove
Tree Protection Zone (TPZ)
Retain
Injure



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1:400 metres
4 0 4 8
NAD 1983 UTM Zone 17N

[redacted]

GEI Consultants
Bolton Tract Arborist Report

Tree Inventory

Date:	Project:	Submitter:	Reviewer:
February 2025	36069	A. Perez	D. Frey

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Figure 2-C

I:\GM\BluePlan Engineering\Ltd\36069\Figures\Arb\Tables\VEG\2025\Arborist\Figure-2-x-Tree_Inventory.mxd - Tabloid_L - 18-Feb-25, 02:30 PM - aperez - TID005

Easting (m)

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Northing (m)

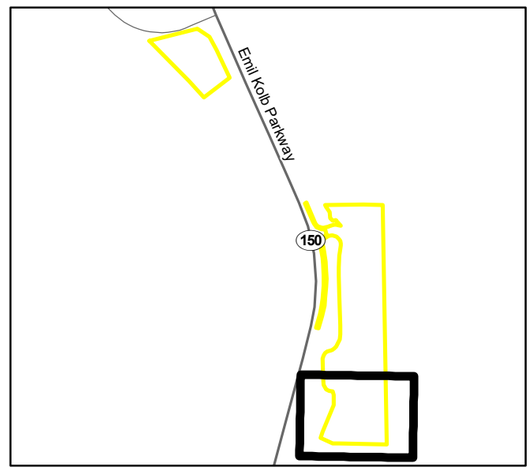
4859780 4859760 4859740 4859720 4859700

N

Study Area
Proposed Works

Removal
- Retain
- Injure
- Remove
- Candidate Bat Tree

Tree Protection Zone (TPZ)
- Retain
- Injure



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1:400 metres
4 0 4 8
NAD 1983 UTM Zone 17N

[redacted]

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Bolton Tract Arborist Report

Tree Inventory

Date:	Project:	Submitter:	Reviewer:
February 2025	36069	A. Perez	D. Frey

Disclaimer: The information contained herein may be compiled from numerous third party materials that are subject to periodic change without prior notification. While every effort has been made by Montrose Environmental Solutions to ensure the accuracy of the information presented at the time of publication, Montrose Environmental Solutions assumes no liability for any errors, omissions, or inaccuracies in the third party material.

Figure 2-D

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Easting (m)

598460 598480 598500 598520 598540 598560

Northing (m)

4860300 4860280 4860260 4860240 4860220

Duffys Lane

Emil Kolb Parkway

150

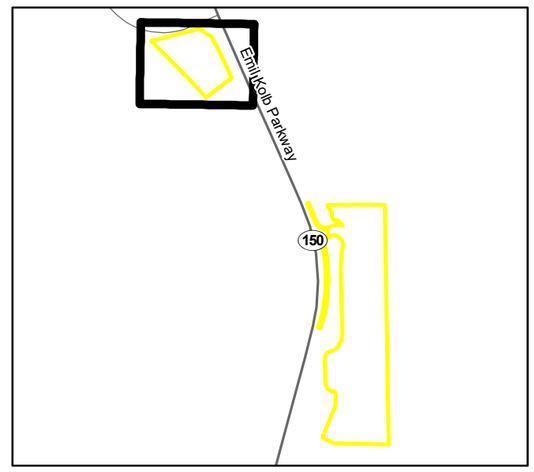
N

801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526

Study Area
Highway
Road

Removal
Retain

Tree Protection Zone (TPZ)
Retain



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1:400 metres
4 0 4 8
NAD 1983 UTM Zone 17N

[redacted]

GEI Consultants
Bolton Tract Arborist Report

Tree Inventory

Date:	Project:	Submitter:	Reviewer:
February 2025	36069	A. Perez	D. Frey

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Figure
2-E

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APPENDIX C
Town of Caledon Tree Preservation Zone Details and Specifications

SPECIFICATIONS

A. General

The following Tree Preservation and Protection Measures will be undertaken to help eliminate and/or significantly reduce construction injury to all trees recommended for preservation. All temporary tree protection measures cited for retained trees must comply with the Town of Caledon Tree Protection Specifications and Details. Any variation from the standard tree protection measures must be approved in writing by the Town of Caledon.

B. Pre-Construction Phase

1. Prior to construction, the trees to be preserved shall be protected with a Tree Protection Barrier. The barrier shall consist of 1.2m (4ft) high orange plastic snow fence wired to T-bars (see Town of Caledon Tree Preservation Fencing, STD 606).
2. If applicable, attach a filter cloth 600mm high to the construction side of the hoarding to act as sediment control. Sediment control fencing shall meet or exceed OPSD-219.110, and be installed to the satisfaction of the Town of Caledon.
3. All supports and bracing used to safely secure the barrier should be located outside the Tree Protection Zone (TPZ). All supports and bracing should minimize damage to roots.
4. The TPZ fence is to be installed along the edge of the tree protection zones. This hoarding is to remain in place and remain in good condition throughout the entire duration of the project. Dismantling the tree protection barrier prior to approval by the Town of Caledon staff may constitute a contravention.
5. The applicant shall notify the Town of Caledon and the consulting certified arborist or landscape architect to confirm that the tree protection barriers are in place.
6. Where fill or excavated material must be temporarily located near a TPZ, a wooden barrier must be used to ensure no material enters the TPZ.
7. Remove any garbage and foreign debris from the tree protection zones, daily.
8. For the trees that were recommended for removal and/or crown pruning that are within the TPZ limits, these activities are to be performed by a qualified ISA certified arborist prior to the installation of the Tree Protection Zone barriers and prior to the commencement of any construction activities. Install the Tree Protection Zone barrier as per Tree Preservation Fencing, STD 606 at the limits shown on the tree inventory and protection plan after the tree removal, whichever is greater, and crown pruning activities are completed.
9. A **Tree Protection Zone** sign must be mounted on all sides of the tree protection barrier for the duration of site construction. The sign should be a minimum of 40cm x 60cm and made of white gator board or equivalent material.
10. The sign must be similar to the illustration shown below, or as directed by the Town of Caledon.

TREE PROTECTION ZONE

No work is permitted in the Tree Protection Zone

This includes construction works, grading, storage of trash or materials.

The tree protection barrier must not be removed without written authorization of the Town of Caledon.

11. All contractors and site visitors should be informed of the tree preservation and protection measures at a pre-construction meeting.

specifications continued on next panel...

TOWN OF CALEDON						
TREE PRESERVATION STANDARD NOTES - PART 1					APR'D: B.B.	DATE: AUGUST 17
					DRAWN: B.M.	SCALE: NTS
	NO.	REVISION	APR'D	DATE	STANDARD No. 710	

SPECIFICATIONS continued from previous panel

C. During Construction Phase

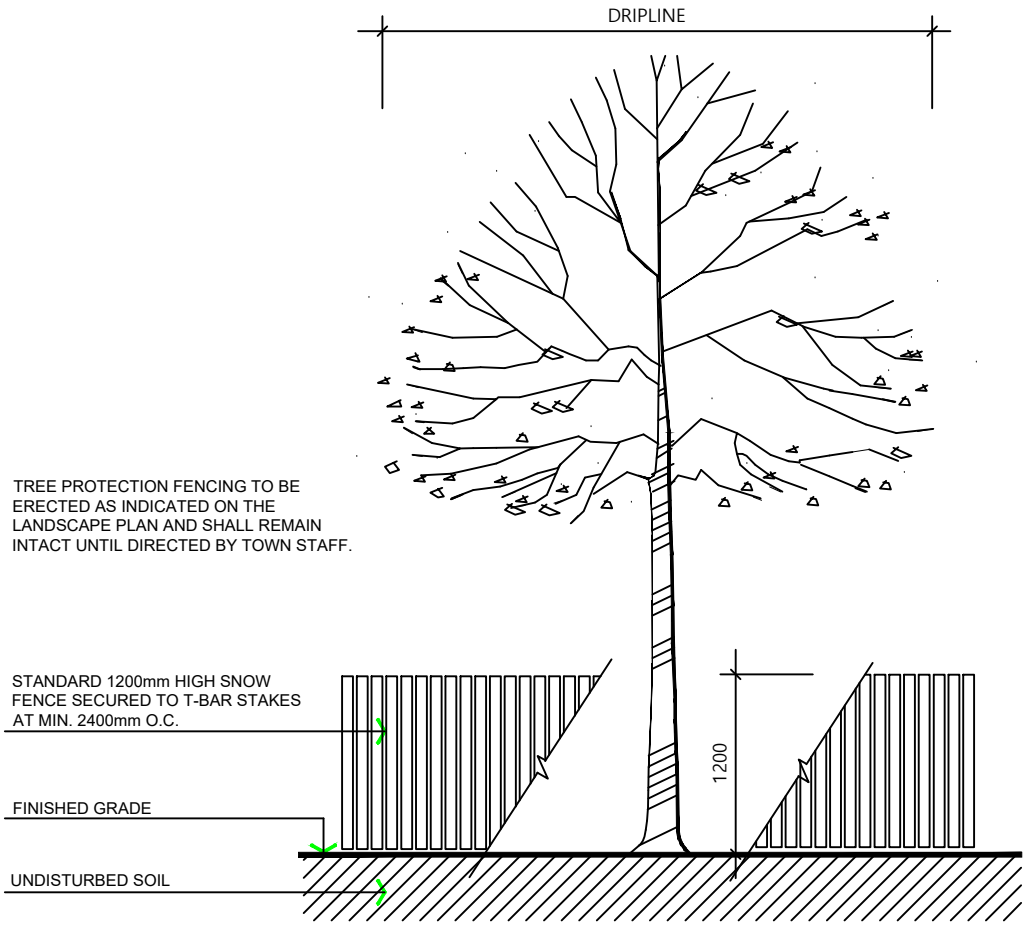
1. All areas within the TPZ shall remain undisturbed for the duration of construction. There will be no grade changes, dumping, and storage of any materials, structures or equipment within these areas. The Tree Protection Barrier must not be removed without the written authorization of the Town of Caledon.
2. Minor grading works will be permitted at the edge of the preservation zone as required to correct localized depressions, and blend to existing grades.This work to be undertaken under the direct supervision of an ISA certified arborist.
3. A certified ISA arborist will undertake proper root pruning in accordance with acceptable arboriculture practices when and if roots of retained trees are to be exposed, damaged, or severed by construction work. The exposed roots will be backfilled with appropriate material as soon as possible to prevent desiccation. Root pruning prior to excavation will help prevent necessary damage to tree roots.The use of low pressure hydrovac to expose roots is recommended, at no additional cost.
4. The Town of Caledon must be notified for all work that impacts the TPZ for temporary removal of a section of hoarding to gain access for fine grading or other works. All works are to be supervised by the Town of Caledon.
5. No cables, wire or ropes of any kind shall be wrapped around or installed in trees to be preserved.
6. No contaminants will be dumped or flushed in the TPZ areas or where feeder roots of trees exist (generally beyond the TPZ areas).
7. Irrigate tree protection zones during drought conditions, June to September to reduce drought stress.
8. Inspect the site daily to ensure hoarding is in place and in good condition. Inspect trees to monitor condition.

D. Post Construction Phase

1. Following the completion of all site works including landscaping, and after review and approval by the Town of Caledon staff, the protective hoarding may be removed.
2. After removal of the protective hoarding, the Tree Preservation Zones shall be inspected by the Town of Caledon staff. Any remaining dead, diseased, or hazardous limbs or trees are to be removed by an ISA certified arborist as directed by the consulting arborist or Town of Caledon staff.

end of specifications

TOWN OF CALEDON					APR'D: B.B.	DATE: AUGUST 17
TREE PRESERVATION STANDARD NOTES - PART 2					DRAWN: B.M.	SCALE: NTS
	NO.	REVISION	APR'D	DATE	STANDARD No. 711	



SPECIFICATIONS FOR THE PROTECTION AND PRESERVATION OF EXISTING VEGETATION:

1. PRIOR TO ISSUANCE OF THE GRADING AND SERVICING OR BUILDING PERMIT, ALL EXISTING TREES THAT ARE TO BE PRESERVED SHALL BE FULLY PROTECTED WITH HOARDING (IE SNOW FENCING) OUTSIDE THEIR 'DRIPLINES', OR AS DIRECTED THROUGH ADDITIONAL GOVERNING DOCUMENTS,TO THE SATISFACTION OF THE TOWN.
2. GROUPS OF TREES AND OTHER EXISTING PLANTINGS TO BE PROTECTED SHALL BE TREATED IN A LIKE MANNER WITH HOARDING AROUND THE ENTIRE CLUMP(S).
3. TREE PRESERVATION FENCE IS TO BE INSPECTED BY THE CONSULTING ARBORIST OR LANDSCAPE ARCHITECT AND APPROVED BY THE TOWN PRIOR TO CONSTRUCTION COMMENCING.
4. SILTATION CONTROL FENCING MAY BE USED AS A TREE PRESERVATION FENCING SUBSTITUTE IF REQUIRED BY ENGINEERING AT THE DISCRETION OF THE TOWN.
5. AREAS WITHIN PROTECTIVE FENCING SHALL REMAIN UNDISTURBED AND SHALL NOT BE USED FOR THE STORAGE OF BUILDING MATERIALS OR EQUIPMENT. NO CONTAMINANTS SHALL BE DUMPED OR FLUSHED WHERE FEEDER ROOTS OF TREES EXIST. NO GARBAGE OR BUILDING MATERIALS ARE TO BE PLACED ON OR AGAINST THE TREE PRESERVATION FENCE.
6. PRUNE BRANCHES TO REMOVE DAMAGED LIMBS ONLY. DO NOT DAMAGE LEADERS. ALL CUTS OVER 25mm SHALL BE TREATED IN ACCORDANCE WITH APPROPRIATE HORTICULTURAL PRACTICES AS APPROVED BY THE TOWN. NO MORE THAN 20% OF THE TREE SHALL BE PRUNED UNLESS DIRECTED BY THE TOWN.
7. CUTTING OF ROOTS OR CHANGING OF GRADES AROUND EXISTING TREES TO BE PRESERVED WILL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE PUBLIC WORKS AND ENGINEERING DEPARTMENT.
8. IF TREES ARE BEING ADVERSELY AFFECTED BY CONSTRUCTION, A WATERING AND FERTILIZING PROGRAM IS TO BE SET UP TO THE SATISFACTION OF THE TOWN.
9. PRIOR TO FINAL APPROVAL TREES THAT HAVE DIED OR HAVE BEEN DAMAGED BEYOND REPAIR PRIOR DURING OR POST CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH TREES OF A SIZE AND SPECIES APPROVED BY THE TOWN, AT THE SOLE COST OF THE DEVELOPER.

TOWN OF CALEDON

TREE PRESERVATION

NO.	REVISION	APR'D	DATE
3	STANDARD 707 NOW 606		JAN 18
2	STANDARD No. 1135 NOW 707, NOTES EDIT		JUNE 08
1	NOTE NO. 9 ADDED		MARCH 08

APR'D: C.C. DATE: JUNE 08

DRAWN: abal SCALE: NTS

STANDARD No. 606

Appendix 2B

Geotechnical Reports

WWW.THURBER.CA

THURBER ENGINEERING LTD.

Bolton Water & Wastewater Capacity Improvements

Geotechnical Desktop Study

Client Name: GM BluePlan Engineering Ltd.
Date: May 9, 2025
File: 48561

Suite 202 - 1908 Ironoak Way, Oakville, ON L6H 0N1 | Phone: (905) 829-8666

THURBER ENGINEERING LTD.

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Figure 3 PHYSIOGRAPHIC REGIONS
Figure 4 SURFICIAL GEOLOGY
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THURBER ENGINEERING LTD.

1. INTRODUCTION

Thurber Engineering Ltd. (Thurber) was retained by GM BluePlan Engineering Limited (GM BluePlan) on behalf of the Region of Peel (Region) to prepare a background Geotechnical Desktop Study and a Hydrogeological Desktop Study in support of the Bolton Water and Wastewater Capacity Improvements Schedule C Municipal Class Environmental Assessment (EA), Regional Municipality of Peel, Ontario.

This EA builds off a Feasibility Study recently completed by the Region which outlined conceptual water and wastewater projects that service the additional development proposed within both the intensification and greenfield growth areas in the vicinity of Bolton.

The Study Area is located in the Town of Caledon, within the Region of Peel as presented on the attached 'Figure 1: Site Location Plan' for the EA Study Area along with alternative alignments for the proposed water and wastewater infrastructure.

This report presents findings of the Geotechnical Desktop Study. A Hydrogeological Desktop Study is prepared as a separate document. The purpose of the geotechnical study is to provide a description of the local geology and anticipated subsurface conditions along the potential route for the new water transmission main and sanitary trunk sewer based on available background information; evaluate alternative alignments from a geotechnical perspective, and provide input regarding issues that may affect the design and construction. This report should not be used for final design, recommendations will be included for future investigations to support detailed design.

It is a condition of this report that Thurber's performance of its professional services is subject to the attached Statement of Limitations and Conditions.

2. STUDY AREA, SITE DESCRIPTION AND BACKGROUND

The general limits of the EA Study Area is generally bounded by Albion-Vaughan Road to the east, about 100 meters south of Countryside Drive to the south, west of Centreville Creek Road to the west and about 100 meters north of Castlederg St to the north. This Desktop Study focuses on the proposed alternative wastewater and water alignments, including the areas within a distance of approximately 500 m from the proposed alignments (the Study Area).

Current land use varies across the Study Area with industrial/commercial between 600 m west of Coleraine Drive and the railway line, residential from the railway line to Columbia Way, and primarily agricultural for the remainder of the Study Area.

Three potential alignments are proposed for the area south of King Street and are described as follows:

- The Gore Road from Mayfield Road to King Street; King Street from The Gore Road to Emil Kolb Parkway
- Humber Station Road from Mayfield Road to King Street; King Street from Humber Station Road to Emil Kolb Parkway
- Coleraine Drive from Mayfield Road to Emil Kolb Parkway

Two potential alignments are proposed for the area north of King Street

- Emil Kolb Parkway from King Street to Queen Street North, east across fields to Mount Hope Road, and south along Mount Hope Road to Columbia Way
- Emil Kolb Parkway from King Street to Queen Street North, south along Queen Street North to Columbia Way, east along Columbia Way to Mount Hope Road, and North along Mount Hope Road to approximately 2 km north of Columbia Way

3. REFERENCE INFORMATION

The following data sources were reviewed in preparation of this report:

1. York, Peel, Durham, Toronto and The Conservation Authorities Moraine Coalition (YPDT-CAMC) Oak Ridges Moraine
2. Ministry of the Environment, Conservation and Parks (MECP) well records
3. Ontario Geological Survey geologic and topographic mapping
4. Ontario Geological Survey geotechnical borehole databases
5. Natural Heritage and Information Centre mapping

4. DESCRIPTION OF SUBSURFACE CONDITIONS

4.1 Topography

The Study Area is located in the West Humber River and Main Humber Subwatersheds, as a part of the Humber River Watershed, which fall under the jurisdiction of Toronto and Region Conservation Authority (TRCA). The regional topography slopes in a southwesterly direction, and locally towards surrounding watercourses. Ground surface elevations within the Study Area range from approximately 280 m to 220 m. A topographic map of the Study Area is shown on Figure 2. Regional overland flow in the Study Area is interpreted to follow the existing topography in a general southwesterly direction, and local overland flow is interpreted to flow towards the water courses, including Lindsay Creek, the West Humber River, and The Humber River.

4.2 Physiography

The Study Area is located within the physiographic regions of Southern Ontario known as the South Slope and the Peel Plain. The majority of the Study Area is located in the South Slope and the southern end of the Study Area is located in the Peel Plain. The South Slope is typically a drumlinized area consisting of areas of thin (<1 m) aeolian sand deposits underlain by glacial deposits, primarily till. The Peel Plain is characterized by a level to undulating topography gradually sloping towards Lake Ontario with surficial soil comprising a thin lacustrine clay underlain by till (Chapman and Putnam, 1984). A physiographic region map of the Study Area is shown on Figure 3. The predominant physiographic landform found within the Study Area is till plains (drumlinized) and a smaller area of Bevelled Till Plains is located in the southern end of the Study Area.

4.3 Regional Geology and Hydrogeology

Geological and hydrogeological conditions were based on publicly available information obtained from the Ontario Geological Survey (OGS), and York, Peel, Durham, Toronto and the Conservation Authorities Moraine Coalition (YPDT-CAMC) Oak Ridges Moraine Groundwater Program (ORMGP), and TRCA.

The surficial geology of the Study Area consists primarily of clay to silt-textured till, derived from glaciolacustrine deposits or shale. A smaller area located in the southeast corner of the Study Area consists of fine-textured glaciolacustrine deposits, consisting of silt and clay with minor sand and gravel with interbedded silt and clay. The surficial geology in areas bordering on the major watercourses consists of modern alluvial deposits and older alluvial deposits, comprised of clay,

silt, sand, and gravel, with organic remains (OGS, 2010). The surficial geology of the Study Area is shown in Figure 4.

The predominant bedrock of the Study Area consists of shale and limestone of the Georgian Bay Formation and a relatively small portion in the northwest corner of the Study Area is composed of shale, siltstone, sandstone, and limestone of the Queenston Formation (OGS, 2007).

The bedrock geology of the Study Area is shown in Figure 5.

Regional geological cross sections are provided on Figures 6A, 6B, and 6C, using the ORMGP's cross section tool. A brief description of each alignment is provided below:

- Cross Section A (Figure 6A): Cross-section along Gore Road, Emil Kolb Parkway and Mount Hope Road
- Cross Section B (Figure 6B): Cross-section along Humber Station Road
- Cross Section C (Figure 6C): Cross-section along Coleraine Drive

Based on a review of the regional geological cross sections, the following units overlie the bedrock in the Study Area, from youngest to oldest:

- Undifferentiated Upper Sediments;
- Halton Till;
- Oak Ridges Moraine;
- Upper Newmarket Till;
- Inter-Newmarket Sediment;
- Lower Newmarket Till;
- Thorncliffe Formation;
- Sunnybrook Drift;
- Scarborough Formation.

A description of each unit provided below:

- Undifferentiated Upper Sediments – This unit consists of a thin veneer of glaciolacustrine deposits of fine sands, silts, and clays or modern alluvial or organic deposits. Locally, undifferentiated upper sediments can reach several metres thick (TRCA, 2010).
- Halton Till – The Halton Till was deposited approximately 13,000 years before present (B.P.) during the last glacial advance in the area. The Halton Till is typically 3 m to 15 m thick and comprises of sandy silt to clayey silt till.
- Oak Ridges Moraine – The Oak Ridges Moraine Aquifer was deposited approximately 12,000 to 13,000 years B.P. Regionally, the aquifer is 160 km long and 5 to 20 km wide

with a maximum thickness of approximately 150 m. The unit consists of fine sands and silt materials, with coarse sand and gravel occurring locally.

- Newmarket Till – The Newmarket Till including the Upper Newmarket Till, Inter-Newmarket Sediment, and Lower Newmarket Till was deposited by the Laurentide ice sheet approximately 18,000 to 20,000 years B.P. It consists of mainly sandy silt to silty sand with limestone clasts. Discontinuous sand units up to 2 m thick may be present (TRCA, 2010).
- Thorncliffe Formation – The Thorncliffe Formation was deposited approximately 45,000 years B.P. and consists of glaciofluvial deposits of sand and silty sand. Regionally, it acts as an aquifer with variable grain size and thickness.:
- Sunnybrook Drift (Aquitard) – The Sunnybrook Drift was deposited approximately 45,000 years ago B.P. and consists of clast-poor mud (silt and clay) deposited on the floor of a glacially dammed lake (TRCA, 2010).
- Scarborough Formation – The Scarborough Formation marks the start of the Wisconsinan glaciation which started approximately 70,000 to 90,000 years ago B.P. The Scarborough Formation deposits consist of organic-rich (peat) sands over silts and clays (TRCA, 2010).

Information obtained from the ORMGP shows that the regional groundwater flow is in a southeasterly direction, towards Lake Ontario. Anticipated groundwater conditions for each alignment are summarized below:

- Cross Section A: the water table is anticipated to be encountered between elevation 205 m and 263 m, or between 2 m and 29 m below ground surface.
- Cross Section B: the water table is anticipated to be encountered between elevation 216 m and 263 m, or between 1 m and 12 m below ground surface.
- Cross Section C: the water table is anticipated to be encountered between 213 m and 242 m, or between 5 m and 25 m below ground surface.

4.4 Environmental Features

A review of the Natural Heritage Map by the Ministry of Natural Resources and Forestry (MNRF) in February 2024 indicated that one Areas of Natural Scientific Interest (ANSIs) is located within the Study Area, specifically located along The Gore Road alignment, between the intersection of Healey Road and The Gore Road, and King Street and The Gore Road. Provincially Significant Wetlands, Non-Provincially Significant Wetlands and wetlands not evaluated per the Ontario Wetland Evaluation System (OWES) are located through the Study Area along water courses. The Gore Road alignment transects unevaluated and non-provincially significant wetlands. Woodlands are found dispersed throughout the Study Area, often located around watercourses.

The Study Area is not located within the designated areas of the Niagara Escarpment Planning and Development Act. The Study Area is located within the Oak Ridges Moraine Conservation Act at the northern end of the Study Area. The Toronto and Region Conservation Authority (TRCA) regulated areas exist within the Study Area, generally situated around the watercourses.

The environmental features located within the Study Area are illustrated on Figure 7.

5. TECHNICAL EVALUATION OF POTENTIAL ALIGNMENT OPTIONS

A geotechnical review of the horizontal alignment options for the water and wastewater infrastructure is provided in the Table 5.1, below. The first three rows discuss the wastewater alignments south of King Street and the last two rows discuss the wastewater and water alignments north of King Street.

Table 5.1: Geotechnical Review of Alignment Options

ALIGNMENT	ADVANTAGES	DISADVANTAGES

Gore Road from Mayfield Road to King Street; King Street from the Gore Road to Emil Kolb Parkway	• Not many structures near alignment that could be impacted by open cut or tunnelling.
	• Bedrock greater than 20 m from ground surface.
		• Trenchless methods may be required at several stream/river crossings:
		  ○ Intersects the West Humber River at multiple locations along the alignment.
		  ○ Intersects Lindsay Creek near the Gore Road and King Street.
		• Trenchless methods likely required at rail crossing on King Street
		• Permitting for open cut or shaft excavations likely required at several locations:
		  ○ Intersects Area of Natural Scientific Interest – Gooseville Moraine north of Healey Road and the Gore Road.
		  ○ Intersects a Natural Heritage System found along the banks of the West Humber River and Lindsay Creek
		  ○ Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval.
		  ○ Intersects Greenbelt Areas (O.Reg 59/05) along the banks of the West Humber River and Lindsay Creek.
		• Oak Ridges Moraine (an aquifer) is relatively shallow (5 m deep at shallowest point). It is anticipated high dewatering rates would be required for any open excavations below the groundwater table that encounter aquifers.
		• Water table near surface in some locations (2 m deep at shallowest point). There is a risk for artesian conditions, particularly in any low-lying areas or depressions.

ALIGNMENT	ADVANTAGES	DISADVANTAGES
		• Potential for mixed face conditions if trenchless is deeper than 20 m near Mayfield Road
Humber Station Road from Mayfield Road to King Street; King Street from Humber Station Road to Emil Kolb Parkway	• Not many structures near alignment that could be impacted by open cut or tunnelling.	• Trenchless methods may be required at several stream/river crossings: o Intersects the West Humber River at multiple locations along the alignment. o Intersects Lindsay Creek near the Gore Road and King Street. • Trenchless methods likely required at rail crossing on King Street • Permitting for open cut or shaft excavations likely required at several locations: o Rail crossing o Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval. • Oak Ridges Moraine (an aquifer) is relatively shallow in some locations (4 m deep at shallowest point, located approximately 90 m north of King Street). It is anticipated high dewatering rates would be required for any open excavations below the groundwater table that encounter aquifers. • Thorncliffe Formation (an aquifer) is relatively shallow in some locations (3 m deep at shallowest point, located approximately 350 m north of Mayfield Road). It is anticipated high dewatering rates would be required for any open excavations below the groundwater table that encounter aquifers. • Water table shallower relative to other alignment options, ranging between 1 – 12 m. There is a risk for artesian conditions, particularly in any low-lying areas or depressions • Potential for mixed face conditions if open cut or trenchless is deeper than 5 m near Mayfield Road
Coleraine Drive from Mayfield Road to Emil Kolb Parkway	• Open cut excavations not anticipated to encounter Oak Ridges Moraine or Thorncliffe Formation aquifers and remain within low permeability Till layer (Halton Till)	• Trenchless methods may be required at several stream/river crossings: o Intersects the West Humber River at multiple locations along the alignment. • Trenchless methods likely required at rail crossing on Coleraine Drive • Permitting for open cut or shaft excavations likely required at several locations: o Rail crossing o Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval.

ALIGNMENT	ADVANTAGES	DISADVANTAGES
	• Water table deeper relative to other alignment options, ranging between 5 – 25 m. • Bedrock greater than 25 m from ground surface.	• Many structures near alignment that could be impacted by open cut or tunnelling.
Emil Kolb Parkway from King Street to Queen Street North, east across fields to Mount Hope Road, and south along Mount Hope Road to Columbia Way	• Excavations within 10 m depth anticipate to encounter low permeability soils or unsaturated aquifers • Avoids residential areas along Columbia way • Bedrock greater than 50 m from ground surface.	• Trenchless methods may be required at several stream/river crossings: o Intersects Humber River at multiple locations along the alignment. • Permitting for open cut or shaft excavations likely required at several locations: o Intersects Greenbelt Areas (O.Reg 59/05) along the banks of the Humber River. o Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval.
Emil Kolb Parkway from King Street to Queen Street North, south along Queen Street North to Columbia Way, east along Columbia Way to Mount Hope Road, and North along Mount Hope Road to approximately 2 km north of Columbia Way	• Excavations within 10 m depth anticipate to encounter low permeability soils or unsaturated aquifers • Bedrock greater than 50 m from ground surface.	• Trenchless methods may be required at several stream/river crossings: o Intersects Humber River at multiple locations along the alignment. • Permitting for open cut or shaft excavations likely required at several locations: o Intersects Greenbelt Areas (O.Reg 59/05) along the banks of the Humber River. o Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval.

Based on the ORMGP geological cross section along Gore Road from Mayfield Road to King Street and King Street from the Gore Road to Emil Kolb Parkway (Portion of cross section A-A', in Figure 6A from Mayfield Road to Emil Kolb Parkway), conditions within the upper 10 m are either lower permeability Halton Till or Oak Ridges Moraine. Along King Street near Humber Station Road, both the Oak Ridges Moraine and water table appear to be within 5 m of ground surface, dewatering volumes during construction could be high for open cut or shaft construction in this area. Open excavations within aquifers below the ground water table would require dewatering prior to excavation.

Based on the ORMGP geological cross section along Humber Station Road from Mayfield Road to King Street (cross section B-B', in Figure 6B), conditions within the upper 10 m are either lower permeability Halton Till or Oak Ridges Moraine. Approximately 1 km south of Healy Road and near King Street, both the Oak Ridges Moraine and water table appear to be within 5 m of ground surface, dewatering volumes during construction could be high for open cut or shaft construction in these areas. Open excavations within aquifers below the ground water table would require dewatering prior to excavation.

Based on the ORMGP geological cross section along Coleraine Drive Road from Mayfield Road to King Street (cross section C-C', in Figure 6C), open cut construction appears feasible as the upper 10 m consists of either low permeability Halton Till or the unsaturated Oak Ridges Moraine.

A mix of open cut and trenchless options were provided by GM BluePlan for the wastewater sewer main north of King Street. Based on the ORMGP geological cross section along Emil Kolb Parkway from King Street to Queen Street North, east across fields to Mount Hope Road, and south along Mount Hope Road to Columbia Way (portion of cross section A-A', in Figure 6A from Emil Kolb Parkway to Columbia Way), open cut construction appears feasible as the upper 10 m consists of either low permeability Halton Till or unsaturated Oak Ridges Moraine. Trenchless options are also considered feasible as it is anticipated to encounter within Halton Till or Oak Ridges Moraine, cobbles and boulders may be encountered in both deposits. The appropriate trenchless method will need to be assessed based on the size, drive length, alignment, cover, and soil conditions as determined through a detailed subsurface investigation.

6. FUTURE GEOTECHNICAL INVESTIGATIONS

Once preliminary planning has been completed and the preferred water and wastewater alignments have been determined, further geotechnical investigation and analysis should be completed in support of the preliminary and detailed design.

Typical investigations for trenchless and open cut utilities are provided below, however, the field program will need to be designed to suit the particular alignment and proposed works. External approval agencies (such as rail crossings and conservation authorities) may have additional requirements as well.

Open Cut

Boreholes spaced up to 200 m along the alignment, with a minimum depth of 3 m or 2 pipe diameters, whichever is greater, below the invert when in soil, and a minimum depth of 1 m below the invert when in rock. Monitoring wells should be installed with a maximum spacing of 400 m.

Trenchless

Boreholes spaced up to 100 m along the alignment, with a minimum depth of 3 m or 2 pipe diameters, whichever is greater, below the invert when in soil or rock. Boreholes should be advanced at each shaft location, the minimum borehole depth is a function of the anticipated conditions, shaft depth, and diameter but is typically a minimum of 10 m below the base of the shaft or up to 2x shaft depth. Monitoring wells should be installed at each shaft and with a maximum spacing of 300 m along the alignment.

The geotechnical investigation should be performed as part of a combined field investigation with any hydrogeological and environmental subsurface investigations.

7. CLOSURE

We trust this information meets your present needs. If you have any questions, please contact the undersigned at your convenience.





Thomas Ring, M.A.Sc, P. Eng., PMP
Senior Geotechnical Engineer

Renato Pasqualoni, P.Eng., QP(esa)
Review Engineer

Date: May 9, 2025
File: ***48561***

8. REFERENCES

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THURBER

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This Report has been prepared in accordance with generally accepted engineering or environmental consulting practices in the applicable jurisdiction. No other warranty, expressed or implied, is intended or made.

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All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report, which is of a summary nature and is not intended to stand alone without reference to the instructions given to Thurber by the Client, communications between Thurber and the Client, and any other reports, proposals or documents prepared by Thurber for the Client relative to the specific site described herein, all of which together constitute the Report.

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The Report has been prepared for the specific site, development, design objectives and purposes that were described to Thurber by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the Report, subject to the limitations provided herein, are only valid to the extent that the Report expressly addresses proposed development, design objectives and purposes, and then only to the extent that there has been no material alteration to or variation from any of the said descriptions provided to Thurber, unless Thurber is specifically requested by the Client to review and revise the Report in light of such alteration or variation.

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a) Nature and Exactness of Soil and Contaminant Description: Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature. Comprehensive sampling and testing programs implemented with the appropriate equipment by experienced personnel may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and the Client and all other persons making use of such documents or records with our express written consent should be aware of this risk and the Report is delivered subject to the express condition that such risk is accepted by the Client and such other persons. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. If special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

b) Reliance on Provided Information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to Thurber. Thurber has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, Thurber does not accept responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of the Client or other persons providing information relied on by Thurber. Thurber is entitled to rely on such representations, information and instructions and is not required to carry out investigations to determine the truth or accuracy of such representations, information and instructions.

c) Design Services: The Report may form part of design and construction documents for information purposes even though it may have been issued prior to final design being completed. Thurber should be retained to review final design, project plans and related documents prior to construction to confirm that they are consistent with the intent of the Report. Any differences that may exist between the Report's recommendations and the final design detailed in the contract documents should be reported to Thurber immediately so that Thurber can address potential conflicts.

d) Construction Services: During construction Thurber should be retained to provide field reviews. Field reviews consist of performing sufficient and timely observations of encountered conditions in order to confirm and document that the site conditions do not materially differ from those interpreted conditions considered in the preparation of the report. Adequate field reviews are necessary for Thurber to provide letters of assurance, in accordance with the requirements of many regulatory authorities.

6. RELEASE OF POLLUTANTS OR HAZARDOUS SUBSTANCES

Geotechnical engineering and environmental consulting projects often have the potential to encounter pollutants or hazardous substances and the potential to cause the escape, release or dispersal of those substances. Thurber shall have no liability to the Client under any circumstances, for the escape, release or dispersal of pollutants or hazardous substances, unless such pollutants or hazardous substances have been specifically and accurately identified to Thurber by the Client prior to the commencement of Thurber's professional services.

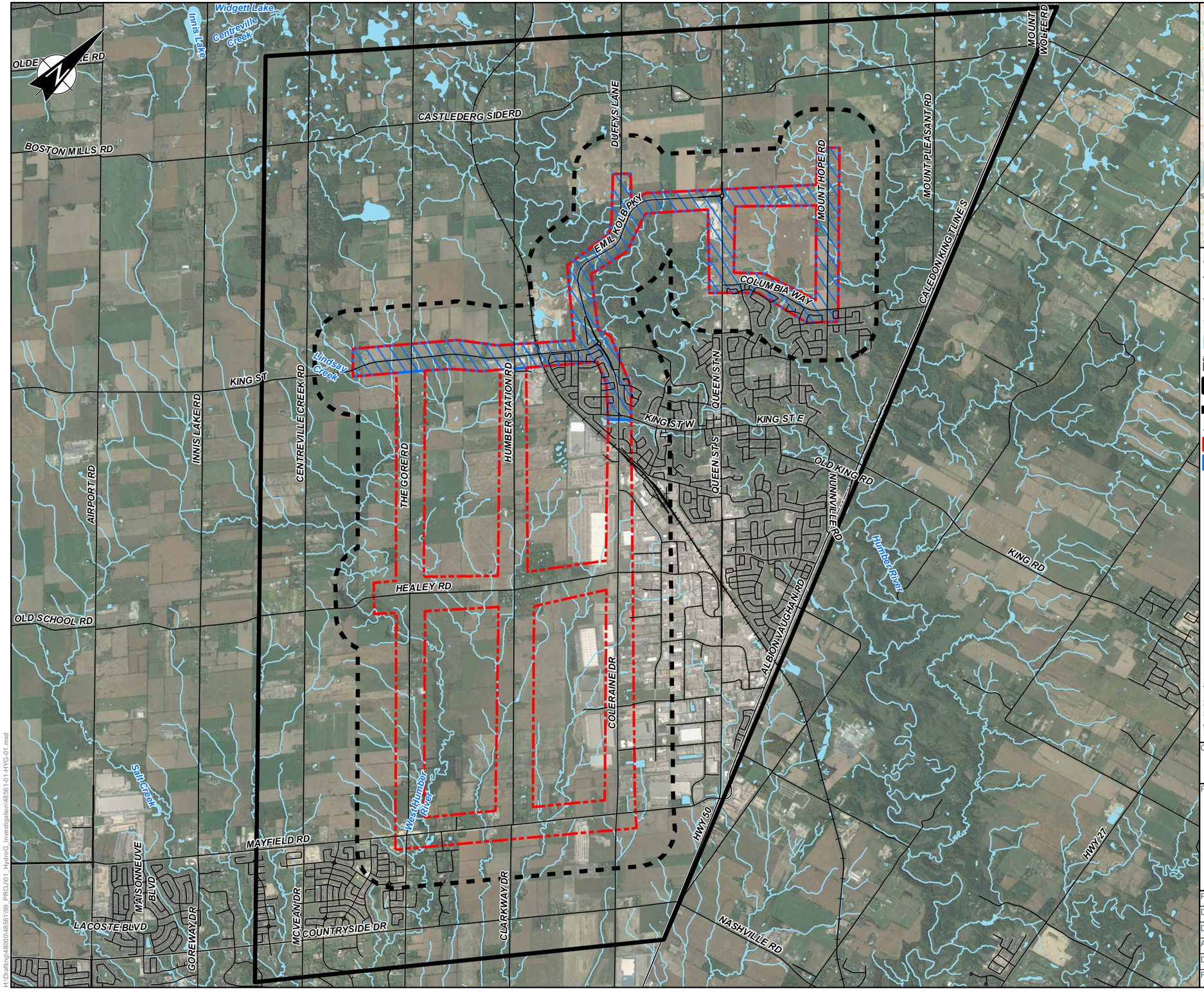
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APPENDIX A

Figures





LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

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PROJECT

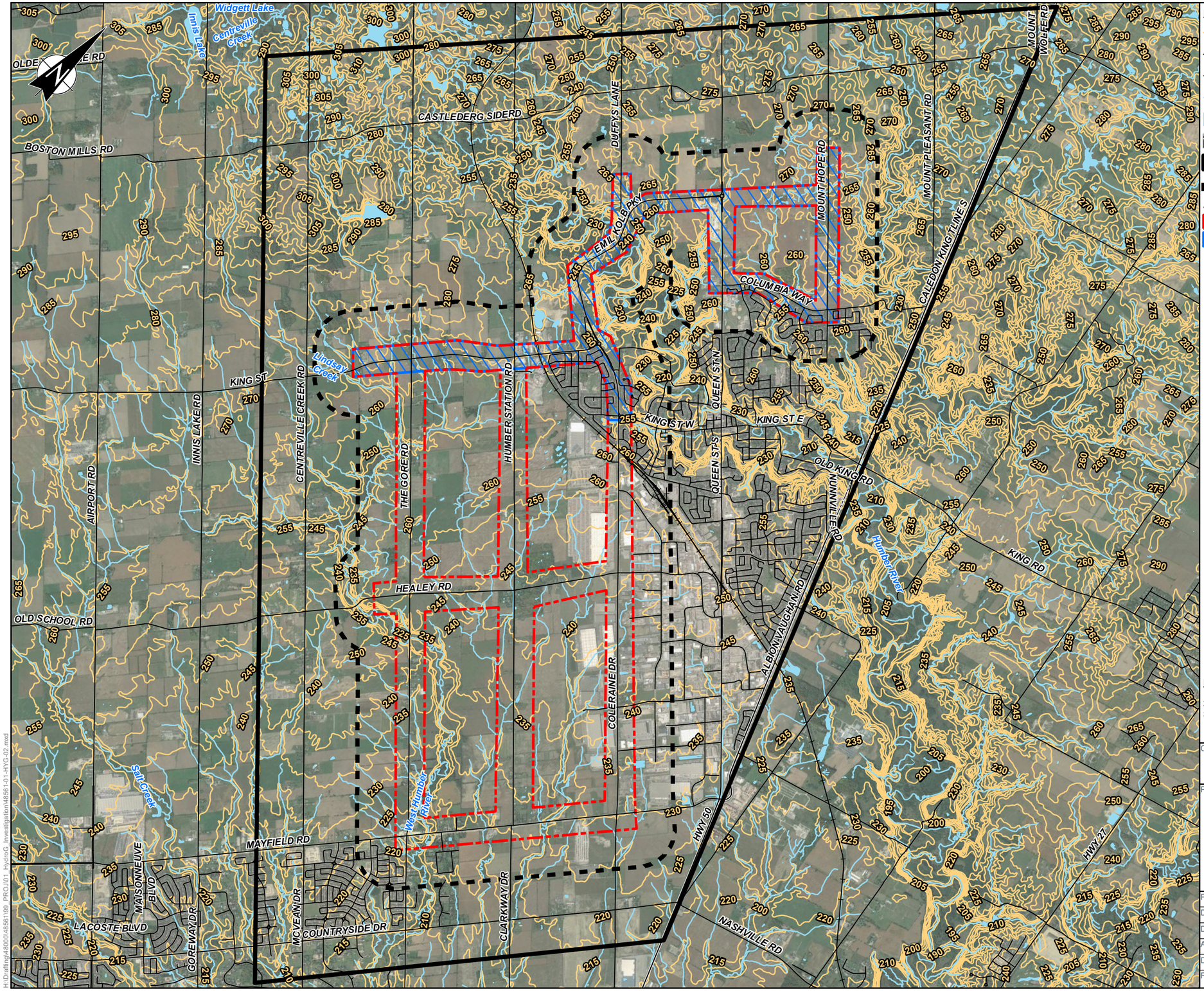
GEOTECHNICAL DESKTOP STUDY BOLTON
WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

SITE LOCATION PLAN

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-04-05
FIGURE No.	1

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LEGEND

- TOPOGRAPHIC CONTOUR, metres
- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

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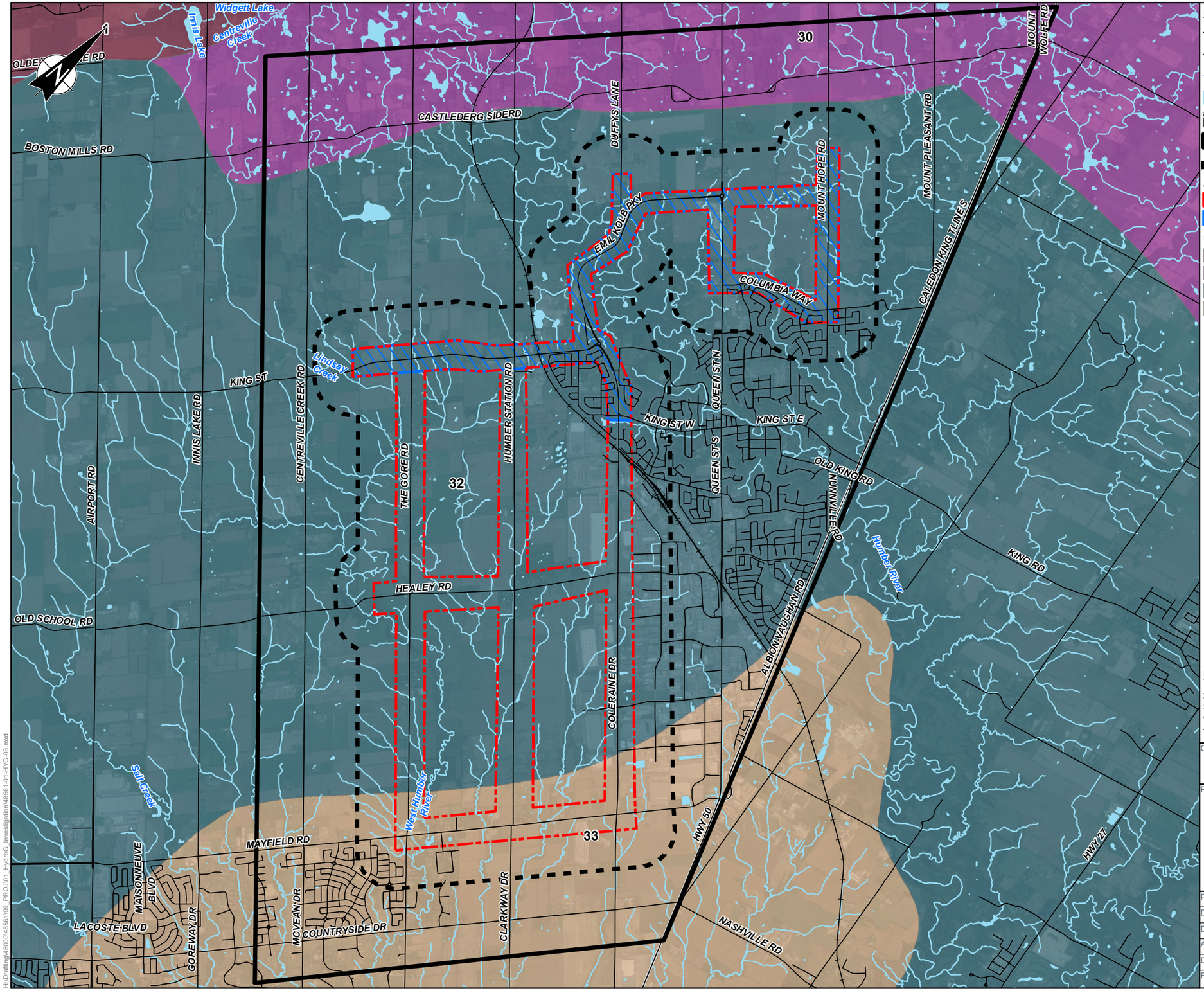
GEOTECHNICAL DESKTOP STUDY BOLTON
WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

TOPOGRAPHY

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FIGURE No.	2

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

UNIT, REGION

- 1. NIAGARA ESCARPMENT
- 30. OAK RIDGE MORAINE
- 32. SOUTH SLOPE
- 33. PEEL PLAIN

0 625 1,250 2,500

1:50,000 METRES

NOTES

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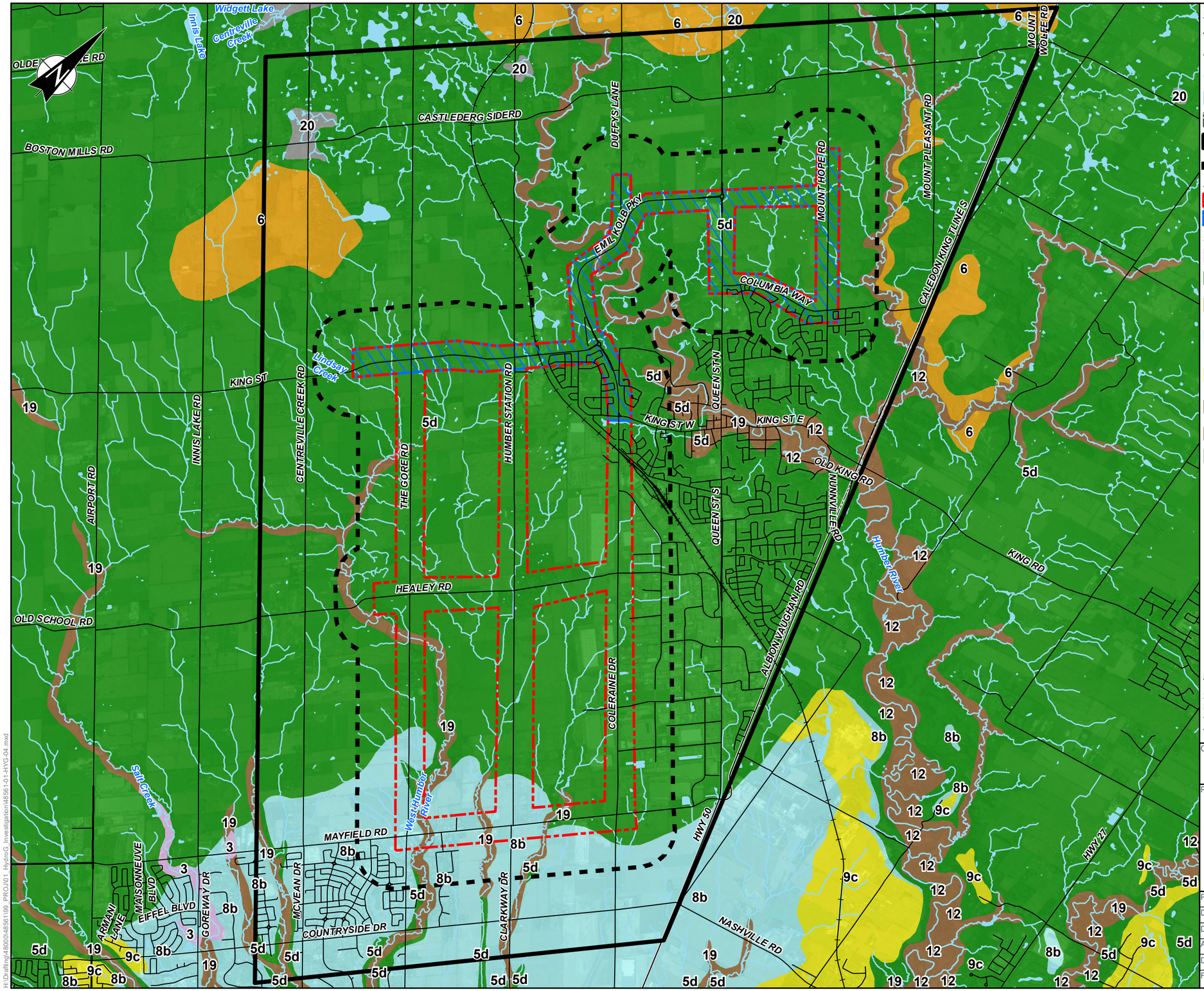
GEOTECHNICAL DESKTOP STUDY BOLTON
WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

PHYSIOGRAPHIC REGIONS

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FIGURE No.	3

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

SURFICIAL GEOLOGY

- 3. **PALEOZOIC BEDROCK**
- 5d. **TILL:** CLAY TO SILT-TEXTURED TILL (DERIVED FROM GLACIOLACUSTRINE DEPOSITS OR SHALE)
- 6. **ICE-CONTACT STRATIFIED DEPOSITS:** SAND AND GRAVEL, MINOR SILT, CLAY AND TILL
- 8b. **FINE-TEXTURED GLACIOLACUSTRINE DEPOSITS:** SILT AND CLAY, MINOR SAND AND GRAVEL; INTERBEDDED SILT AND CLAY AND GRITTY, PEBBLY FLOW TILL AND RAINOUT DEPOSITS
- 9c. **COARSE-TEXTURED GLACIOLACUSTRINE DEPOSITS:** SAND, GRAVEL, MINOR SILT AND CLAY; FORESHORE AND BASINAL DEPOSITS
- 12. **OLDER ALLUVIAL DEPOSITS:** CLAY, SILT, SAND, GRAVEL, MAY CONTAIN ORGANIC REMAINS
- 19. **MODERN ALLUVIAL DEPOSITS:** CLAY, SILT, SAND, GRAVEL, MAY CONTAIN ORGANIC REMAINS
- 20. **ORGANIC DEPOSITS:** PEAT, MUCK, MARL

0 625 1,250 2,500

1:50,000 METRES

NOTES

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PROJECT

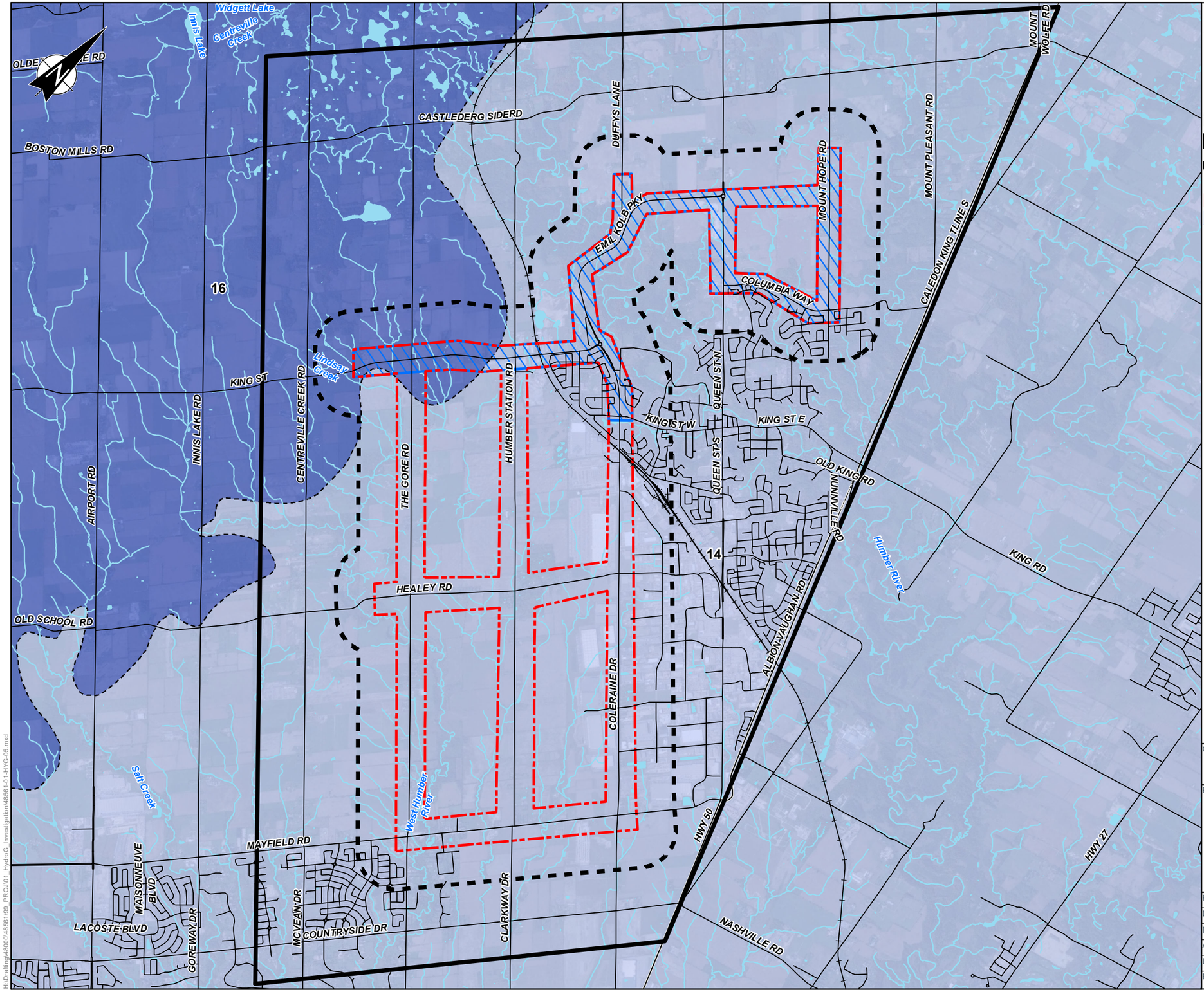
GEOTECHNICAL DESKTOP STUDY BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT

SURFICIAL GEOLOGY

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DESIGNED	PC
DRAWN	JEM
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DATE	2024-03-19
FIGURE No.	4

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

BEDROCK FORMATION

- 16. **QUEENSTON FORMATION:** SHALE, SILTSTONE, MINOR LIMESTONE AND SANDSTONE
- 14. **GEORGIAN BAY FORMATION:** SHALE AND LIMESTONE

0 625 1,250 2,500

1:50,000 METRES

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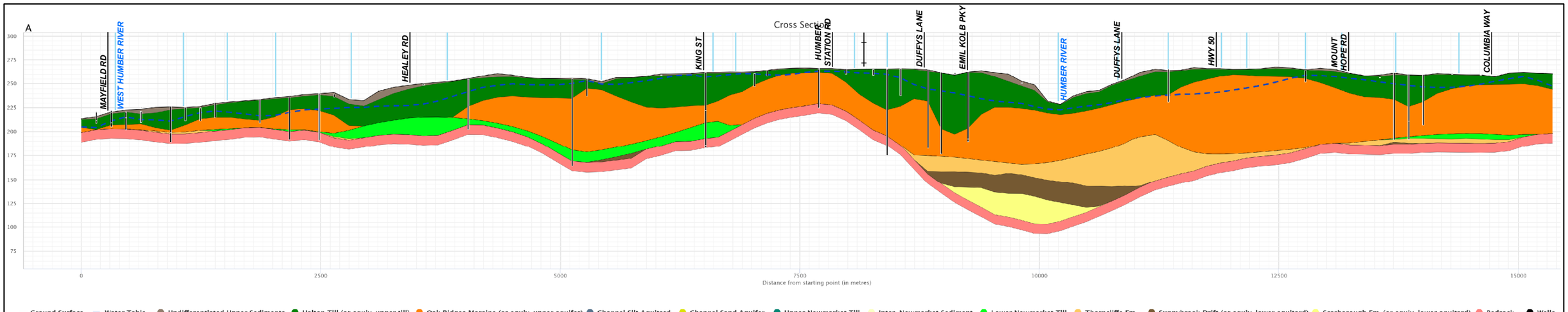
GEOTECHNICAL DESKTOP STUDY BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT

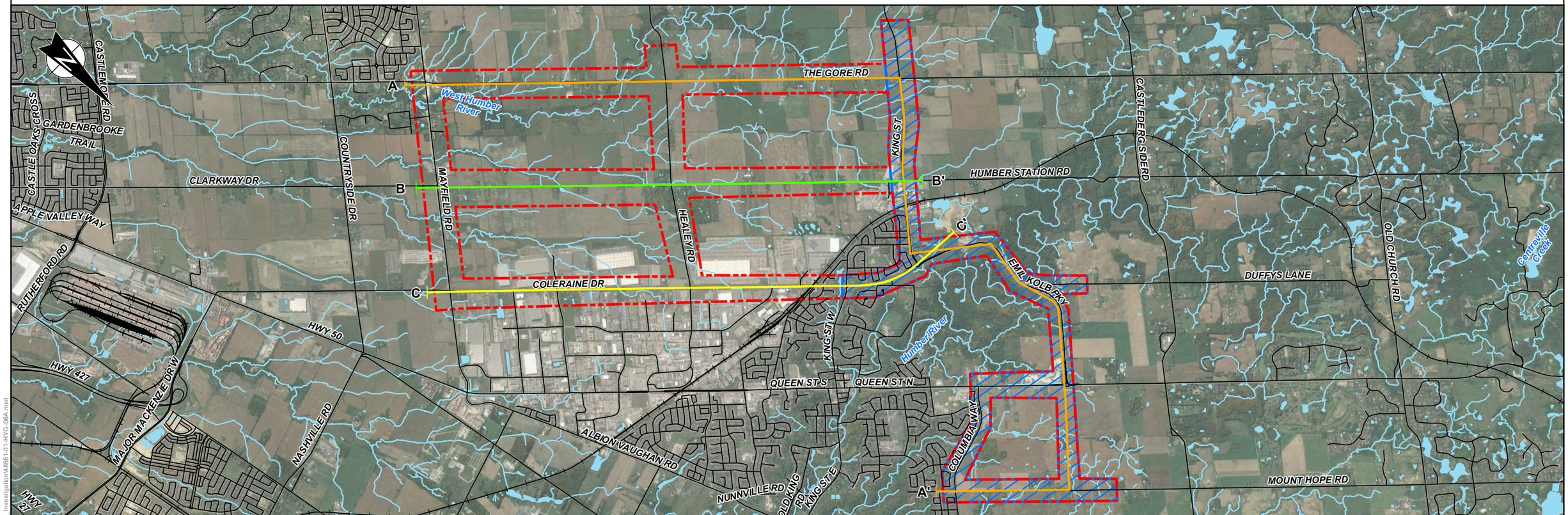
BEDROCK GEOLOGY

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FIGURE No.	5

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

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PROJECT

GEOTECHNICAL DESKTOP STUDY BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT

REGIONAL GEOLOGICAL CROSS-SECTION A-A'

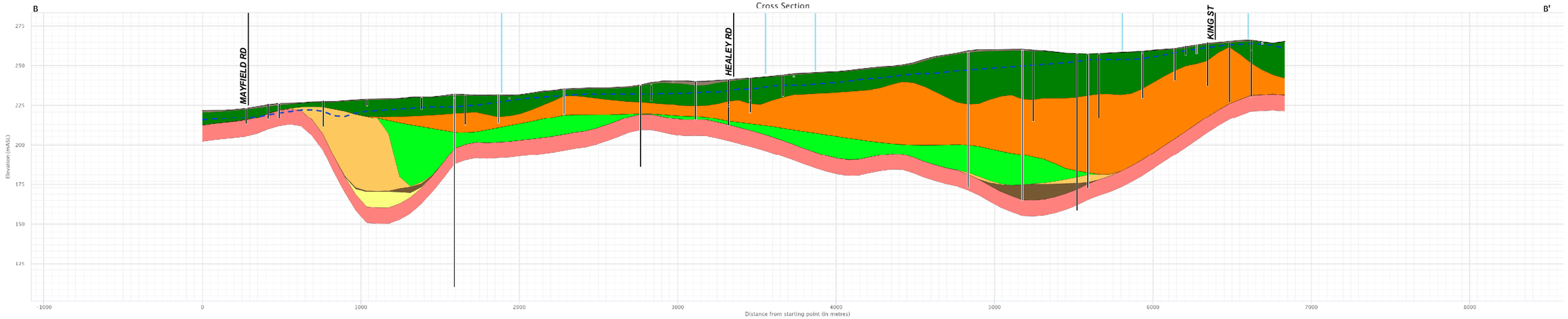
CLIENT

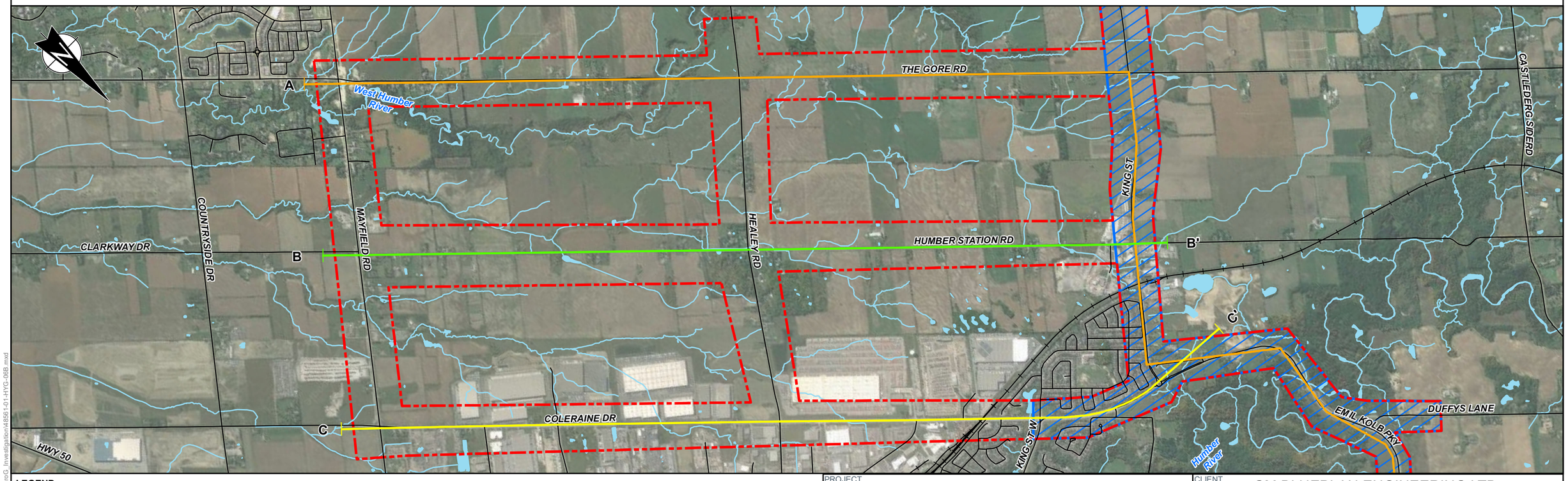
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ON BEHALF OF THE REGION OF PEEL

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
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DATE	2024-02-15
FIGURE No.	6A

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 375 750 1,500

1:30,000 METRES

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4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

PROJECT

GEOTECHNICAL DESKTOP STUDY BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT

REGIONAL GEOLOGICAL CROSS-SECTION B-B'

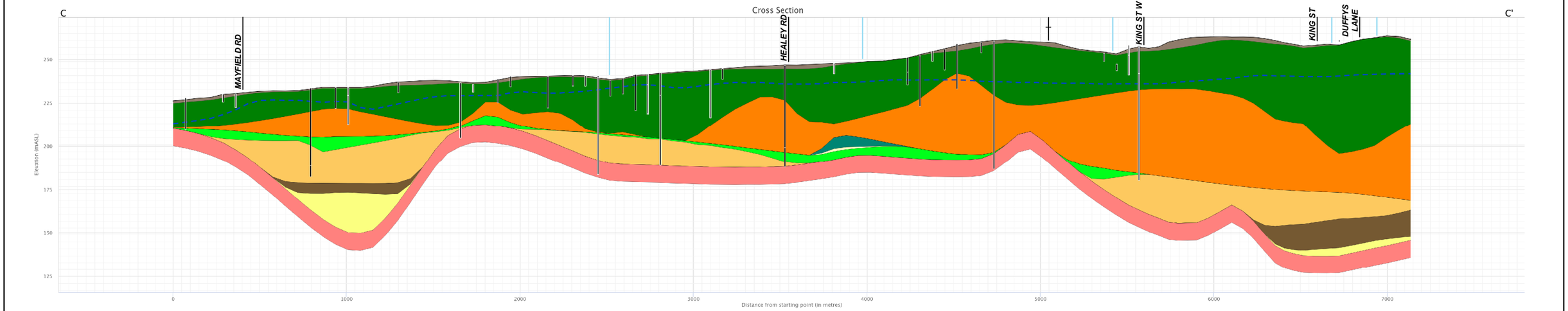
CLIENT

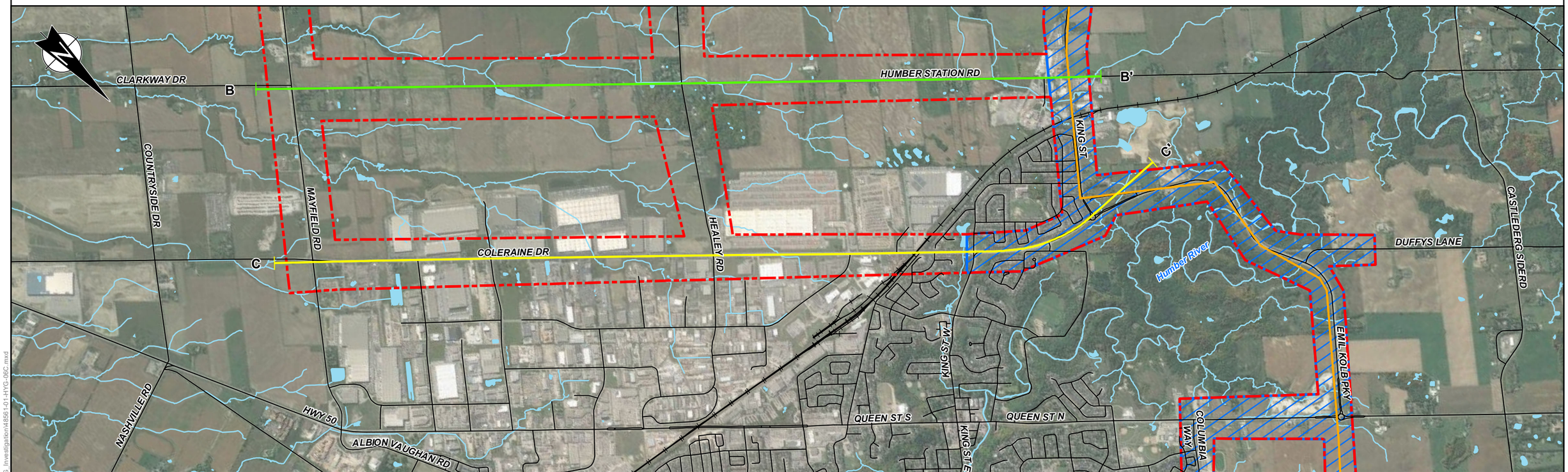
GM BLUEPLAN ENGINEERING LTD.
ON BEHALF OF THE REGION OF PEEL

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-02-15
FIGURE No.	6B

THURBER ENGINEERING LTD.

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 375 750 1,500

1:30,000 METRES

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4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

PROJECT

GEOTECHNICAL DESKTOP STUDY BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT

REGIONAL GEOLOGICAL CROSS-SECTION C-C'

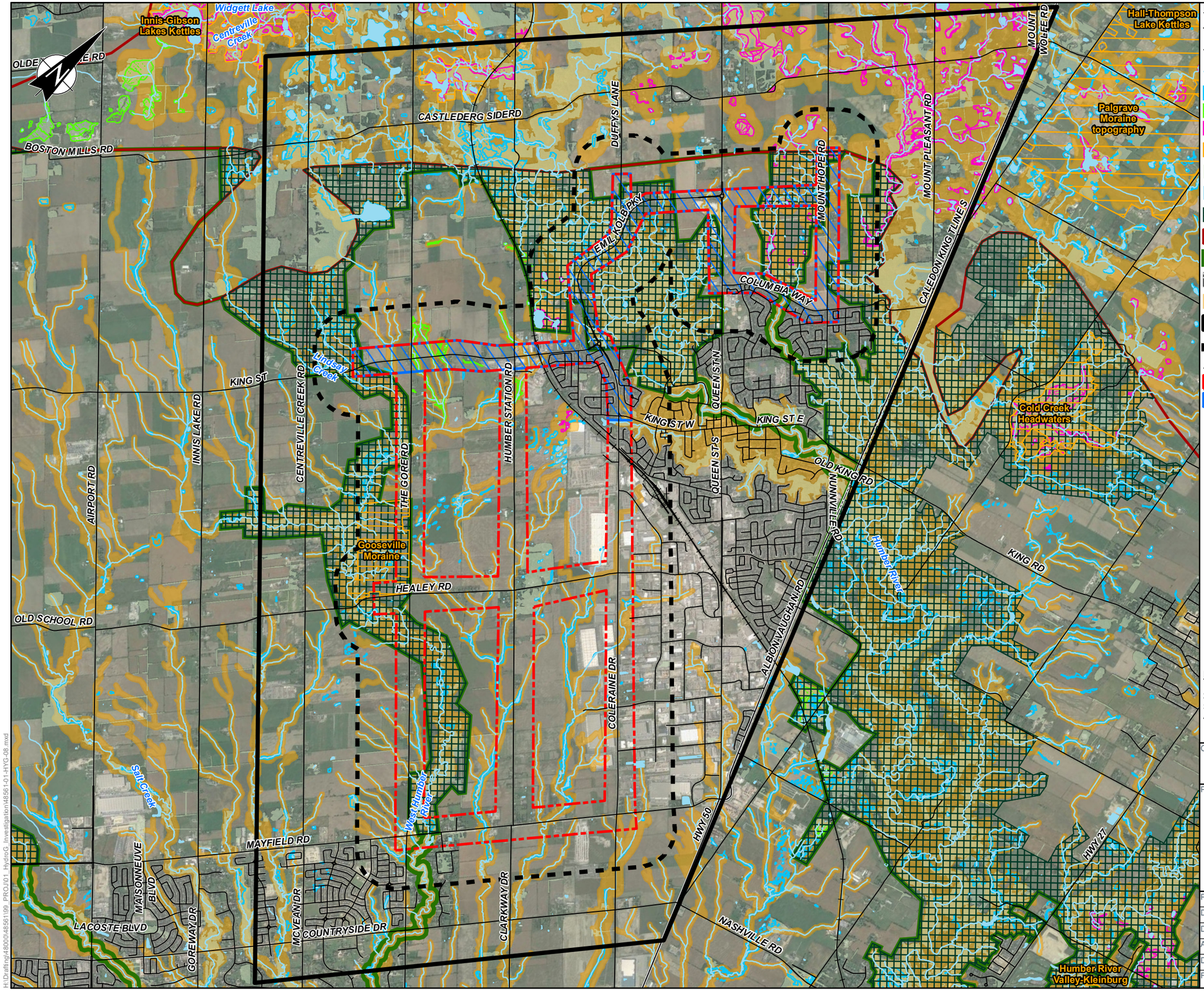
CLIENT

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ON BEHALF OF THE REGION OF PEEL

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-02-12
FIGURE No.	6C

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WETLAND (UNEVALUATED)
- WETLAND (NON-PROVINCIALLY SIGNIFICANT)
- WETLAND (PROVINCIALLY SIGNIFICANT - PSW)
- AREA OF NATURAL AND SCIENTIFIC INTEREST (ANSI)
- WOODED AREA
- WATERBODY
- NATURAL HERITAGE SYSTEM
- OAK RIDGES MORAINE AREA
- GREENBELT AREA (O.REG. 59/05)
- MUNICIPAL BOUNDARY
- TRCA REGULATED AREA
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

NOTES

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ON BEHALF OF THE REGION OF PEEL

PROJECT

GEOTECHNICAL DESKTOP STUDY BOLTON
WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

NATURAL FEATURES

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
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DATE	2024-03-19
FIGURE No.	7

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Appendix 2C

Hydrogeological Reports

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THURBER ENGINEERING LTD.

Bolton Water & Wastewater Capacity Improvements

Hydrogeological Desktop Study

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1. INTRODUCTION

Thurber Engineering Ltd. (Thurber) was retained by GM BluePlan Engineering Limited (GM BluePlan) on behalf of the Region of Peel (Region) to prepare a background Geotechnical Desktop Study and a Hydrogeological Desktop Study in support of the Bolton Water and Wastewater Capacity Improvements Schedule C Class Municipal Class Environmental Assessment (EA), Regional Municipality of Peel, Ontario.

This EA builds off a Feasibility Study recently completed by the Region which outlined conceptual water and wastewater projects that service the additional development proposed within both the intensification and greenfield growth areas in the vicinity of the Town of Bolton.

The Study Area is located in the Town of Caledon, within the Region of Peel as presented on the attached 'Figure 1: Site Location Plan' for the EA Study Area, along with alternative alignments for the proposed water and wastewater infrastructure.

This report presents findings of the Hydrogeological Desktop Study. A Geotechnical Desktop Study is prepared as a separate document. The purpose of the hydrogeological study is to provide a description of the local hydrostratigraphy and anticipated subsurface conditions along the potential route for the new water transmission main and sanitary trunk sewer based on available background information; evaluate alternative alignments from a hydrogeological perspective, and provide input regarding issues that may affect the design and construction. This report should not be used for final design, recommendations will be included for future investigations to support detailed design.

It is a condition of this report that Thurber's performance of its professional services is subject to the attached Statement of Limitations and Conditions.

2. STUDY AREA, SITE DESCRIPTION AND BACKGROUND

The general limits of the EA Study Area is generally bounded by Albion-Vaughan Road to the east, about 100 meters south of Countryside Drive to the south, west of Centreville Creek Road to the west and about 100 meters north of Castlederg St to the north. This Desktop Study focuses on the proposed alternative wastewater and water alignments, including the areas within a distance of approximately 500 m from the proposed alignments (the Study Area).

Current land use varies across the Study Area with industrial/commercial between 600 m west of Coleraine Drive and the railway line, residential from the railway line to Columbia Way, and primarily agricultural for the remainder of the Study Area.

Three potential alignments are proposed for the area south of King Street and are described as follows:

- The Gore Road from Mayfield Road to King Street; King Street from The Gore Road to Emil Kolb Parkway
- Humber Station Road from Mayfield Road to King Street; King Street from Humber Station Road to Emil Kolb Parkway
- Coleraine Drive from Mayfield Road to Emil Kolb Parkway

Two potential alignments are proposed for the area north of King Street:

- Emil Kolb Parkway from King Street to Queen Street North, east across fields to Mount Hope Road, and south along Mount Hope Road to Columbia Way
- Emil Kolb Parkway from King Street to Queen Street North, south along Queen Street North to Columbia Way, east along Columbia Way to Mount Hope Road, and North along Mount Hope Road to approximately 2 km north of Columbia Way

3. REFERENCE INFORMATION

The following data sources were reviewed in preparation of this report:

1. York, Peel, Durham, Toronto and The Conservation Authorities Moraine Coalition (YPDT-CAMC) Oak Ridges Moraine
2. Ministry of the Environment, Conservation and Parks (MECP) well records and water taking permits
3. Ontario Geological Survey geologic and topographic mapping
4. Ontario Geological Survey geotechnical borehole databases
5. Natural Heritage and Information Centre mapping
6. Source Water Protection mapping
7. Toronto and Region Conservation Authority (TRCA) Regulated Area mapping

4. DESCRIPTION OF SUBSURFACE CONDITIONS

4.1 Topography and Drainage

The Study Area is located in the West Humber River and Main Humber Subwatersheds, as a part of the Humber River Watershed, which fall under the jurisdiction of Toronto and Region Conservation Authority (TRCA). The regional topography slopes in a southwesterly direction, and locally towards surrounding watercourses. Ground surface elevations within the Study Area range from approximately 280 m to 220 m. A topographic map of the Study Area is shown on Figure 2. Regional overland flow in the Study Area is interpreted to follow the existing topography in a general southwesterly direction, and local overland flow is interpreted to flow towards the water courses, including Lindsay Creek, the West Humber River, and The Humber River.

4.2 Physiography

The Study Area is located within the physiographic regions of Southern Ontario known as the South Slope and the Peel Plain. The majority of the Study Area is located in the South Slope and the southern end of the Study Area is located in the Peel Plain. The South Slope is typically a drumlinized area consisting of areas of thin (<1 m) aeolian sand deposits underlain by glacial deposits, primarily till. The Peel Plain is characterized by a level to undulating topography gradually sloping towards Lake Ontario with surficial soil comprising a thin lacustrine clay underlain by till (Chapman and Putnam, 1984). A physiographic region map of the Study Area is shown on Figure 3. The predominant physiographic landform found within the Study Area is till plains (drumlinized) and a smaller area of Bevelled Till Plains is located in the southern end of the Study Area.

4.3 Regional Geology and Hydrogeology

Geological and hydrogeological conditions were based on publicly available information obtained from the Ontario Geological Survey (OGS), and York, Peel, Durham, Toronto and the Conservation Authorities Moraine Coalition (YPDT-CAMC) Oak Ridges Moraine Groundwater Program (ORMGP), and TRCA.

The surficial geology of the Study Area consists primarily of clay to silt-textured till, derived from glaciolacustrine deposits or shale. A smaller area located in the southeast corner of the Study Area consists of fine-textured glaciolacustrine deposits, consisting of silt and clay with minor sand and gravel with interbedded silt and clay. The surficial geology in areas bordering on the major watercourses consists of modern alluvial deposits and older alluvial deposits, comprised of clay,

silt, sand, and gravel, and may contain organic remains (OGS, 2010). The surficial geology of the Study Area is shown in Figure 4.

The predominant bedrock of the Study Area consists of shale and limestone of the Georgian Bay Formation and a relatively small portion in the northwest corner of the Study Area is composed of shale, siltstone, sandstone, and limestone of the Queenston Formation (OGS, 2007). The bedrock geology of the Study Area is shown in Figure 5.

Regional geological cross sections are provided on Figures 6A, 6B, and 6C, using the ORMGP's cross section tool. A brief description of each alignment is provided below:

- Cross Section A (Figure 6A): Cross-section along Gore Road, Emil Kolb Parkway and Mount Hope Road
- Cross Section B (Figure 6B): Cross-section along Humber Station Road
- Cross Section C (Figure 6C): Cross-section along Coleraine Drive

Based on a review of the regional geological cross sections, the following units overlie the bedrock in the Study Area, from youngest to oldest:

- Undifferentiated Upper Sediments;
- Halton Till;
- Oak Ridges Moraine;
- Upper Newmarket Till;
- Inter-Newmarket Sediment;
- Lower Newmarket Till;
- Thorncliffe Formation;
- Sunnybrook Drift;
- Scarborough Formation.
- Bedrock.

A description of each hydrostratigraphic unit provided below:

- Undifferentiated Upper Sediments – This unit consists of a thin veneer of glaciolacustrine deposits of fine sands, silts, and clays or modern alluvial or organic deposits. Locally, undifferentiated upper sediments can reach several metres thick (TRCA, 2010).
- Halton Till – The Halton Till was deposited approximately 13,000 years before present (B.P.) during the last glacial advance in the area. The Halton Till is typically 3 m to 15 m thick and comprises of sandy silt to clayey silt till. A summary of anticipated thickness and elevations for each alignment are as follows:
    - Cross Section A: the Halton Till is between 4 m and 60 m thick, and is encountered at approximate elevation 264 m.

  - Cross Section B: the Halton Till is between 3 m and 32 m thick, and is encountered at approximate elevation 263 m.
  - Cross Section C: the Halton Till is between 13 m 63 m thick, and is encountered at approximate elevation 261 m.

- Oak Ridges Moraine – The Oak Ridges Moraine Aquifer was deposited approximately 12,000 to 13,000 years B.P. Regionally, the aquifer is 160 km long and 5 to 20 km wide with a maximum thickness of approximately 150 m. The unit consists of fine sands and silt materials, with coarse sand and gravel occurring locally. A summary of anticipated thickness and elevations for each alignment are as follows:
  - Cross Section A: the Oak Ridges Moraine is intermittent with a maximum thickness of 80 m, and encountered at approximate elevation 260 m.
  - Cross Section B: the Oak Ridges Moraine is intermittent with a maximum thickness of 50 m thick, and is encountered at approximate elevation 260 m.
  - Cross Section C: the Oak Ridges Moraine is intermittent with a maximum thickness of 52 m thick, and is encountered at approximate elevation 240 m.
- Newmarket Till – The Newmarket Till including the Upper Newmarket Till, Inter-Newmarket Sediment, and Lower Newmarket Till was deposited by the Laurentide ice sheet approximately 18,000 to 20,000 years B.P. It consists of mainly sandy silt to silty sand with limestone clasts. Discontinuous sand units up to 2 m thick may be present (TRCA, 2010). A summary of anticipated thickness and elevations for each alignment are as follows:
  - Cross Section A: the Newmarket Till is intermittent with a maximum thickness of 18 m thick, and is encountered at approximate elevation 215 m.
  - Cross Section B: the Newmarket Till is intermittent with a maximum thickness of 39 m thick, and is encountered at approximate elevation 220 m.
  - Cross Section C: the Newmarket Till is intermittent with a maximum thickness of 12 m thick, and is encountered at approximate elevation 217 m.
- Thorncliffe Formation – The Thorncliffe Formation was deposited approximately 45,000 years B.P. and consists of glaciofluvial deposits of sand and silty sand. Regionally, it acts as an aquifer with variable grain size and thickness. A summary of anticipated thickness and elevations for each alignment are as follows:
  - Cross Section A: the Thorncliffe Formation is intermittent with a maximum thickness of 47 m thick, and is encountered at approximate elevation 200 m.
  - Cross Section B: the Thorncliffe Formation is intermittent with a maximum thickness of 46 m thick, and is encountered at approximate elevation 223 m.
  - Cross Section C: the Thorncliffe Formation is intermittent with a maximum thickness of 26 m thick, and is encountered at approximate elevation 210 m.
- Sunnybrook Drift (Aquitard) – The Sunnybrook Drift was deposited approximately 45,000 years ago B.P. and consists of clast-poor mud (silt and clay) deposited on the floor of a

glacially dammed lake (TRCA, 2010). A summary of anticipated thickness and elevations for each alignment is as follows:

  - Cross Section A: the Sunnybrook Drift is intermittent with a maximum thickness of 22 m thick, and is encountered at approximate elevation 187 m.
  - Cross Section B: the Sunnybrook Drift is intermittent with a maximum thickness of 10 m thick, and is encountered at approximate elevation 180 m.
  - Cross Section C: the Sunnybrook Drift is intermittent with a maximum thickness of 16 m thick, and is encountered at approximate elevation 185 m.

- Scarborough Formation – The Scarborough Formation marks the start of the Wisconsinan glaciation which started approximately 70,000 to 90,000 years ago B.P. The Scarborough Formation deposits consist of organic-rich (peat) sands over silts and clays (TRCA, 2010). A summary of the anticipated thickness and elevation for each alignment is as follows:
  - Cross Section A: the Scarborough Formation is centralized around the proximity of the Humber River, with a maximum thickness of 27 m, and is encountered at approximate elevation 145 m.
  - Cross Section B: the Scarborough Formation is intermittent, with a maximum thickness of 10 m, and is encountered at approximate elevation 180 m.
  - Cross Section C: the Scarborough Formation is intermittent with a maximum thickness of 24 m, and is encountered at approximate elevation 181 m.
- Anticipated bedrock elevations for each Cross Section are as follows:
  - Cross Section A: the bedrock surface is expected to be at approximate elevation of 103 m to 229 m, or between 15 m to 143 m below ground surface.
  - Cross Section B: the bedrock surface is expected to be at approximate elevation of 160 m to 232 m, or between 4 m to 94 m below ground surface.
  - Cross Section C: the bedrock surface is expected to be at approximate elevation of 137 m and 212 m, or between 16 m and 120 m below ground surface.

Information obtained from the ORMGP shows that the regional groundwater flow is in a southeasterly direction, towards Lake Ontario. Anticipated groundwater conditions for each cross section are summarized below:

- Cross Section A: the water table is anticipated to be encountered between elevation 205 m and 263 m, or between 2 m and 29 m below ground surface. Considering water levels are close to ground surface in some locations, there is a risk for artesian conditions, particularly in any low-lying areas or depressions.

- Cross Section B: the water table is anticipated to be encountered between elevation 216 m and 263 m, or between 1 m and 12 m below ground surface. Considering water levels are close to ground surface in some locations, there is a risk for artesian conditions, particularly in any low-lying areas or depressions.

- Cross Section C: the water table is anticipated to be encountered between 213 m and 242 m, or between 5 m and 25 m below ground surface.

4.4 MECP Water Well Records Review

A search of the Ministry of Environment, Conservation and Parks (MECP) well records database conducted with the Study Area returned a total of 808 records. The approximate location of the well records is shown in Figure 7. A summary of the well record details is provided in Table B1, Appendix B.

Of the available 808 well records, 275 wells are recorded as water supply wells, 284 wells are recorded as monitoring, observation, or test holes, 114 wells are recorded as abandoned wells, one well record is recorded as 'other status', and 134 well records have an unknown status.

The shallowest water supply well based on the well records was 4.3 m and is located near Columbia Way, approximately 700 m west of the intersection of Caledon King Townline South and Columbia Way. The deepest water supply well based on the well records was 144.8 m and is located at Jack Garrett Soccer Park, near Glasgow Road, approximately 300 m north of Emil Kolb Parkway. The average depth of the water supply wells within the Study Area is approximately 34 m.

The shallowest depth to bedrock recorded on the well records was 2.1 m, and the deepest depth to bedrock recorded on the well records was 149.4 m, with the average depth to bedrock within the Study Area based on the well records to be approximately 36 m.

The shallowest static water level recorded on the well records was 2.1 m above grade surface, suggesting that artesian conditions may exist in some locations in the Study Area. The deepest static water level recorded was 52.7 m and the average static water level within the Study Area based on the well records to be approximately 13 m.

Considering water supply wells are found within 500 m of all route options, dewatering activities for any of the routes could impact the quantity and/or quality of water obtained by water well users within the radius of influence. A baseline private well survey is recommended to be conducted during final design stages.

4.5 Existing Water Taking Permits

A search of permitted water takers within the Study Area was conducted in February 2024 and indicated that one active PTTW water taking registration for construction (approval number 0500-AL6PWV), registered under the Corporation of the Town of Caledon, located approximately 700

m north of the intersection of Clarkway Drive and Mayfield Road. The location of the PTTW registration is illustrated on Figure 7. A summary of active PTTW registration is shown in Table 4.1 below:

Table 4.1: Active PTTW Registration

Permit No.	Permit Holder Name	Purpose	Expiry Date	UTM Zone 17		Max Rate (L/day)
				Easting	Northing	
0500-AL6PWV	The Corporation of the Town of Caledon	Construction	2022-09-30	603473	4854321	50,000

A search of the MECPs Environmental Activity and Sector Registry (EASR) mapping application in February 2024 indicated two registered EASR water taking registrations for construction dewatering. Approval number R-009-7112528652 is registered under the Regional Municipality of Peel and located approximately 60 m northeast of the intersection of The Gore Road and Mayfield Road and there are nine registrations associated with this approval number. Approval number R-009-1110130448 is registered under King Station Facility Inc., located approximately 770 m southwest of the intersection of King Street West and Queen Street South. The locations of the EASR registrations are illustrated on Figure 7. A summary of active EASR registration is provided in Table B2, Appendix B.

4.6 Environmental Features

The MECP mandates the protection of existing and future sources of drinking water under the Clean Water Act, 2006 (CWA). Initiatives undertaken under the CWA include the delineation of wellhead protection areas (WHPAs), significant groundwater recharge areas (SGRAs) and highly vulnerable aquifers (HVAs) as well as the assessment of drinking water quality and quantity threats within Source Protection Regions. A review of the MECP Source Protection Information Atlas mapping indicated that SGRAs are located in the northern portions of the Study Area. HVAs were found throughout the Study Area. A review of the MECP Source Protection Information Atlas mapping indicated that no WHPAs the Study Area. The Source Water Protection Areas are illustrated on Figure 9.

A review of the Natural Heritage Map by the Ministry of Natural Resources and Forestry (MNRF) in February 2024 indicated that one Areas of Natural Scientific Interest (ANSIs) is located within the Study Area, specifically located along The Gore Road alignment, between the intersection of Healy Road and The Gore Road, and King Street and The Gore Road. Provincially Significant Wetlands, Non-Provincially Significant Wetlands and wetlands not evaluated per the Ontario Wetland Evaluation System (OWES) are located through the Study Area along water courses.

The Gore Road alignment transects unevaluated and non-provincially significant wetlands. Woodlands are found dispersed throughout the Study Area, often located around watercourses.

The West Humber River and Lindsey Creek are found in the western portion of the Study Area and the alignment along The Gore Road directly intersects these watercourses. The West Humber River and Lindsey Creek are interpreted to flow in a general southeasterly direction. Linsey Creek flows into the West Humber River, which in turn eventually merges with the Humber River further downstream. The Humber River is located in the northeastern portion of the Study Area and the alignments along Emil Kolb Parkway directly intersect the river. The Humber River is interpreted to flow in a general easterly direction through the Study Area and eventually flows into Lake Ontario further to the South. Tributaries of the aforementioned watercourses exist throughout the Study Area and intersect all alignments.

The Study Area is not located within the designated areas of the Niagara Escarpment Planning and Development Act. The Study Area is located within the Oak Ridges Moraine Conservation Act at the northern end of the Study Area. The Study Area is located within the Toronto Source Protection Area (SPA). The Toronto and Region Conservation Authority (TRCA) regulated areas exist within the Study Area, generally situated around the watercourses.

The environmental features located within the Study Area are illustrated on Figure 8.

5. TECHNICAL EVALUATION OF ALIGNMENT OPTIONS

A hydrogeological review of the alignment options for the water and wastewater infrastructure is provided in the Table 5.1, below. The first three rows discuss the wastewater alignments south of King Street and the last two rows discuss the wastewater and water alignments north of King Street.

Table 5.1: Hydrogeological Review of Alignment Options

ALIGNMENT	ADVANTAGES	DISADVANTAGES
Gore Road from Mayfield Road to King Street; King Street from the Gore Road to Emil Kolb Parkway	• Not many structures near site that could be impacted by dewatering operations (if required). • Relatively low volume of commercial or industrial properties suggests that	• Intersects the West Humber River at multiple locations along the alignment. • Intersects Lindsay Creek near the Gore Road and King Street. • Intersects Area of Natural Scientific Interest – Gooseville Moraine north of Healey Road and the Gore Road.

ALIGNMENT	ADVANTAGES	DISADVANTAGES
	risk of groundwater contamination is low. • Thorncliffe Formation (an aquifer) is relatively deep (approximately 82 m deep at the shallowest point).	• Intersects a Natural Heritage System found along the banks of the West Humber River and Lindsay Creek • Intersects non-provincially significant wetlands. Additional approvals may be required if a wetland is within the zone of influence of dewatering activity. • Intersects unevaluated wetlands. • Portion of the alignment from approximately 1.8 km north of Healey Road along the Gore Road and along King Street is within a SGRA. Potential for significant impacts (and costs) due to any contaminants or spills during construction. • Significant portion of the alignment is within an HVA. A HVA is susceptible to impacts from any contaminants or spills during construction. • Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval. • Intersects Greenbelt Areas (O.Reg 59/05) along the banks of the West Humber River and Lindsay Creek. • Oak Ridges moraine (an aquifer) is relatively shallow (5 m deep at shallowest point). It is anticipated high dewatering rates would be required for any open excavations below the groundwater table that encounter aquifers. • Water table near surface in some locations (2 m deep at shallowest point). There is a risk for artesian conditions, particularly in any low-lying areas or depressions. • Nearby private water supply well records. Private well survey recommended to be conducted.

ALIGNMENT	ADVANTAGES	DISADVANTAGES
Humber Station Road from Mayfield Road to King Street; King Street from Humber Station Road to Emil Kolb Parkway	• Not many structures near alignment that could be impacted by dewatering operations (if required). • Relatively low volume of commercial or industrial properties suggests that risk of groundwater contamination is low.	• Intersects non-provincially significant wetlands. Additional approvals may be required if a wetland is within the zone of influence of dewatering activity. • Intersects unevaluated wetlands. • Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval. • Oak Ridges Moraine (an aquifer) is relatively shallow in some locations (4 m deep at shallowest point, located approximately 90 m north of King Street). It is anticipated high dewatering rates would be required for any open excavations below the groundwater table that encounter aquifers. • Thorncliffe Formation (an aquifer) is relatively shallow in some locations (3 m deep at shallowest point, located approximately 350 m north of Mayfield Road). It is anticipated high dewatering rates would be required for any open excavations below the groundwater table that encounter aquifers. • Water table shallower relative to other alignment options, ranging between 1 – 12 m. There is a risk for artesian conditions, particularly in any low-lying areas or depressions. • Nearby private water supply well records. Private well survey recommended to be conducted.
Coleraine Drive from Mayfield Road to Emil Kolb Parkway	• Oak Ridges Moraine (an aquifer) is relatively deep in comparison to the other options (approximately 12 m deep at the shallowest point). • Thorncliffe Formation (an aquifer) is relatively deep	• Many structures near site that could be impacted by dewatering operations (if required). • Many Commercial and industrial properties located throughout the alignment may be a source of groundwater contamination.

ALIGNMENT	ADVANTAGES	DISADVANTAGES
	(approximately 22 m deep at the shallowest point). • Excavation anticipated to extend into Halton Till only, which is expected to have relatively low dewatering volumes. • Water table deeper relative to other alignment options, ranging between 5 – 25 m.	• Intersects unevaluated wetlands. • Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval. • Nearby private water supply well records. Private well survey recommended to be conducted.
Emil Kolb Parkway from King Street to Queen Street North, east across fields to Mount Hope Road, and south along Mount Hope Road to Columbia Way	• Avoids residential areas along Columbia way	• Intersects Humber River at multiple locations along the alignment. • Intersects Provincially Significant Wetlands. Additional approvals may be required if a wetland is within the zone of influence of dewatering activity. • Intersects a Natural Heritage System found along the banks of the Humber River. • Intersects Greenbelt Areas (O.Reg 59/05) along the banks of the Humber River. • Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval. • Significant portion of the alignment is within a SGRA. Potential for significant impacts (and costs) due to any contaminants or spills during construction. • Nearby private water supply well records. Private well survey recommended to be conducted
Emil Kolb Parkway from King Street to Queen Street North, south along Queen Street North to Columbia Way, east	• Avoids directly intersecting provincially significant wetlands and unevaluated wetlands located in the field between Queen	• Intersects Humber River at multiple locations along the alignment. • Provincially significant wetlands are located adjacent to Columbia Way.

ALIGNMENT	ADVANTAGES	DISADVANTAGES
along Columbia Way to Mount Hope Road, and North along Mount Hope Road to approximately 2 km north of Columbia Way	Street North and Mount Hope Road. • SGRA are less prevalent on Columbia Way than in the field between Queen Street North and Mount Hope Road	Additional approvals may be required if a wetland is within the zone of influence of dewatering activity. • Intersects a Natural Heritage System found along the banks of the Humber River. • Intersects Greenbelt Areas (O.Reg 59/05) along the banks of the Humber River. • Transects TRCA regulated areas around water courses. Project would be subject to TRCA approval. • Significant portion of the alignment is within a SGRA. Potential for significant impacts (and costs) due to any contaminants or spills during construction. • Nearby private water supply well records. Private well survey recommended to be conducted.

Based on the ORMGP geological cross section along Gore Road from Mayfield Road to King Street and King Street from the Gore Road to Emil Kolb Parkway (Portion of cross section A-A', in Figure 6A from Mayfield Road to Emil Kolb Parkway), conditions within the upper 10 m are either lower permeability Halton Till or Oak Ridges Moraine. Along King Street near Humber Station Road, both the Oak Ridges Moraine and water table appear to be within 5 m of ground surface, dewatering volumes during construction could be high for open cut or shaft construction in this area.

Based on the ORMGP geological cross section along Humber Station Road from Mayfield Road to King Street (cross section B-B', in Figure 6B), conditions within the upper 10 m are either lower permeability Halton Till or Oak Ridges Moraine. Approximately 1 km south of Healy Road and near King Street, both the Oak Ridges Moraine and water table appear to be within 5 m of ground surface, dewatering volumes during construction could be high for open cut or shaft construction in these areas.

Based on the ORMGP geological cross section along Coleraine Drive Road from Mayfield Road to King Street (cross section C-C', in Figure 6C), open cut construction appears feasible as the upper 10 m consists of either low permeability Halton Till or the unsaturated Oak Ridges Moraine.

Based on the ORMGP geological cross section along Emil Kolb Parkway from King Street to Queen Street North, east across fields to Mount Hope Road, and south along Mount Hope Road to Columbia Way (Portion of cross section A-A', in Figure 6A from Emil Kolb Parkway to Columbia Way), open cut construction appears feasible as the upper 10 m consists of either low permeability Halton Till or the unsaturated Oak Ridges Moraine.

Based on all the aforementioned ORMGP geological cross sections, the trenchless construction appears feasible so long as sufficient overburden cover above the tunnel is maintained. From a hydrogeological perspective, trenchless construction methods are anticipated to require significantly lower volume of construction dewatering relative to open cut construction, depending on the horizontal and vertical alignment, the type of trenchless technology selected and the design of the trenchless method, including methods for control of groundwater and ground loss.

6. FUTURE HYDROGEOLOGICAL INVESTIGATIONS

Once preliminary planning has been completed and the preferred water and wastewater alignments have been determined, further hydrogeological investigation and analysis should be completed in support of the preliminary and detailed design.

Typical investigations for trenchless and open cut utilities are provided below, however, the field program will need to be designed to suit the particular alignment and proposed works. External approval agencies (such as rail crossings and conservation authorities) may have additional requirements as well.

A private well survey should be conducted for both open cut and trenchless options and would consist of canvassing well users within the Study Area for background information on their wells and to collect water level measurements and non-treated well water baseline samples. The results of the private well survey will assist in assessing the risk of design alternatives and verifying potential impacts on well users during construction.

Open Cut

Monitoring wells should be installed with a maximum spacing of 300 m along the alignment and should be screened within the most representative hydrostratigraphic water bearing units within the footprint of the cut. As noted in Section 4.3, multiple aquifers are present below the Study

Area (i.e. Oak Ridges Moraine, Thorncliffe Formation) and installation of multilevel monitoring wells to determine the hydrogeological properties of each aquifer that excavations may extend into will likely be required in these areas. Slug tests should be conducted in the installed monitoring wells and groundwater quality samples should be collected from select monitoring wells to assess discharge options.

Trenchless

Monitoring wells should be installed at each shaft location and with a maximum spacing of 500 m and should be screened within the most representative hydrostratigraphic water bearing units within the footprint of the shaft. Multiple aquifers are present below the Study Area and installation of multilevel monitoring wells to determine the hydrogeological properties of each aquifer that excavations may extend into will likely be required in these areas. Slug tests should be conducted in the installed monitoring wells and groundwater quality samples should be collected from select monitoring wells to assess discharge options.

The hydrogeological investigation should be performed as part of a combined field investigation with any geotechnical and environmental subsurface investigations.

7. CLOSURE

We trust this information meets your present needs. If you have any questions, please contact the undersigned at your convenience.



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Date: May 9, 2025
File: ***48561***

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STATEMENT OF LIMITATIONS AND CONDITIONS

1. STANDARD OF CARE

This Report has been prepared in accordance with generally accepted engineering or environmental consulting practices in the applicable jurisdiction. No other warranty, expressed or implied, is intended or made.

2. COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report, which is of a summary nature and is not intended to stand alone without reference to the instructions given to Thurber by the Client, communications between Thurber and the Client, and any other reports, proposals or documents prepared by Thurber for the Client relative to the specific site described herein, all of which together constitute the Report.

IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. THURBER IS NOT RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT.

3. BASIS OF REPORT

The Report has been prepared for the specific site, development, design objectives and purposes that were described to Thurber by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the Report, subject to the limitations provided herein, are only valid to the extent that the Report expressly addresses proposed development, design objectives and purposes, and then only to the extent that there has been no material alteration to or variation from any of the said descriptions provided to Thurber, unless Thurber is specifically requested by the Client to review and revise the Report in light of such alteration or variation.

4. USE OF THE REPORT

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT THURBER'S WRITTEN CONSENT AND SUCH USE SHALL BE ON SUCH TERMS AND CONDITIONS AS THURBER MAY EXPRESSLY APPROVE. Ownership in and copyright for the contents of the Report belong to Thurber. Any use which a third party makes of the Report, is the sole responsibility of such third party. Thurber accepts no responsibility whatsoever for damages suffered by any third party resulting from use of the Report without Thurber's express written permission.

5. INTERPRETATION OF THE REPORT

a) Nature and Exactness of Soil and Contaminant Description: Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature. Comprehensive sampling and testing programs implemented with the appropriate equipment by experienced personnel may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and the Client and all other persons making use of such documents or records with our express written consent should be aware of this risk and the Report is delivered subject to the express condition that such risk is accepted by the Client and such other persons. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. If special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

b) Reliance on Provided Information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to Thurber. Thurber has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, Thurber does not accept responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of the Client or other persons providing information relied on by Thurber. Thurber is entitled to rely on such representations, information and instructions and is not required to carry out investigations to determine the truth or accuracy of such representations, information and instructions.

c) Design Services: The Report may form part of design and construction documents for information purposes even though it may have been issued prior to final design being completed. Thurber should be retained to review final design, project plans and related documents prior to construction to confirm that they are consistent with the intent of the Report. Any differences that may exist between the Report's recommendations and the final design detailed in the contract documents should be reported to Thurber immediately so that Thurber can address potential conflicts.

d) Construction Services: During construction Thurber should be retained to provide field reviews. Field reviews consist of performing sufficient and timely observations of encountered conditions in order to confirm and document that the site conditions do not materially differ from those interpreted conditions considered in the preparation of the report. Adequate field reviews are necessary for Thurber to provide letters of assurance, in accordance with the requirements of many regulatory authorities.

6. RELEASE OF POLLUTANTS OR HAZARDOUS SUBSTANCES

Geotechnical engineering and environmental consulting projects often have the potential to encounter pollutants or hazardous substances and the potential to cause the escape, release or dispersal of those substances. Thurber shall have no liability to the Client under any circumstances, for the escape, release or dispersal of pollutants or hazardous substances, unless such pollutants or hazardous substances have been specifically and accurately identified to Thurber by the Client prior to the commencement of Thurber's professional services.

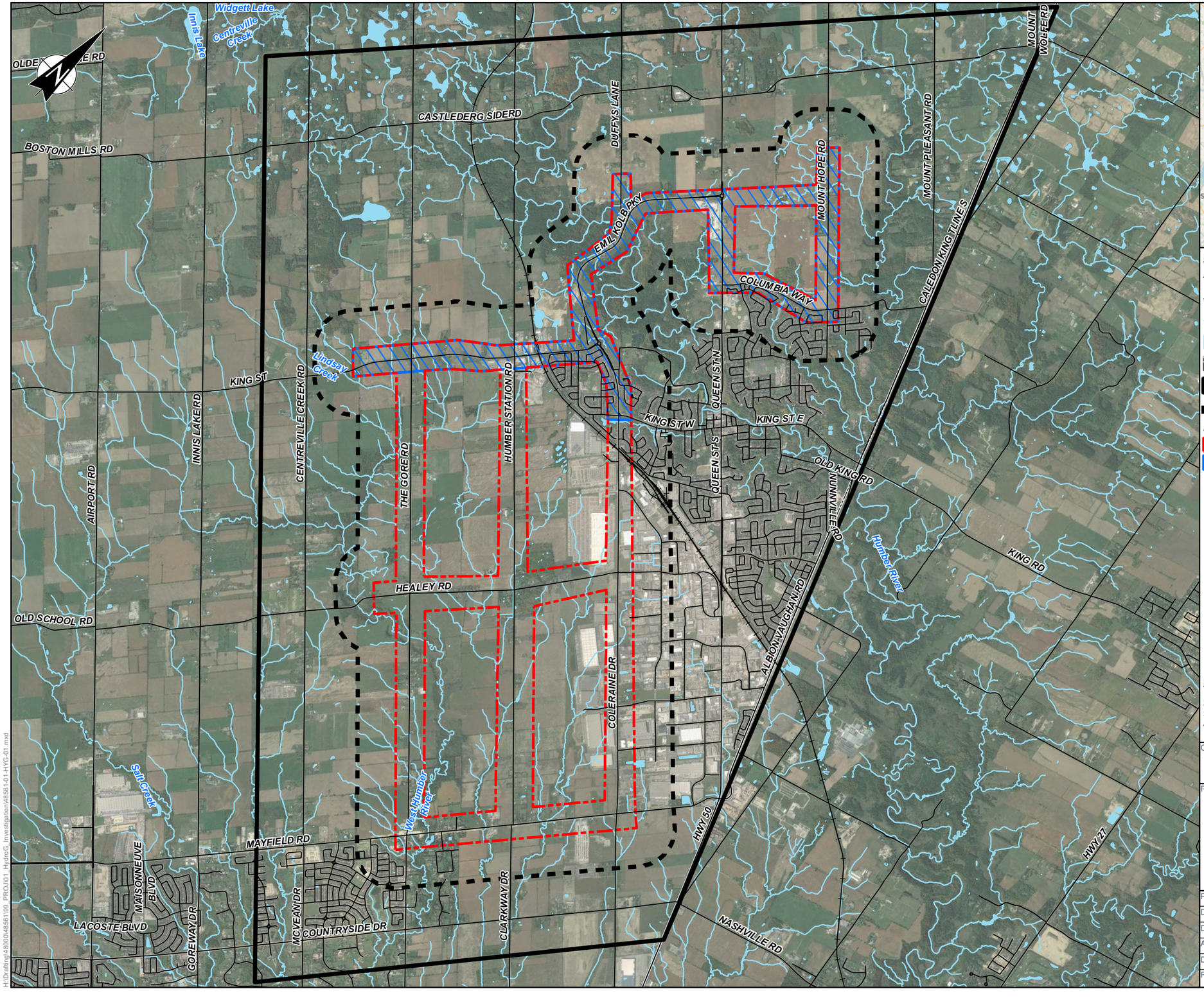
7. INDEPENDENT JUDGEMENTS OF CLIENT

The information, interpretations and conclusions in the Report are based on Thurber's interpretation of conditions revealed through limited investigation conducted within a defined scope of services. Thurber does not accept responsibility for independent conclusions, interpretations, interpolations and/or decisions of the Client, or others who may come into possession of the Report, or any part thereof, which may be based on information contained in the Report. This restriction of liability includes but is not limited to decisions made to develop, purchase or sell land.

THURBER ENGINEERING LTD.

APPENDIX A

FIGURES





LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

NOTES

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CLIENT

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ON BEHALF OF THE REGION OF PEEL

PROJECT

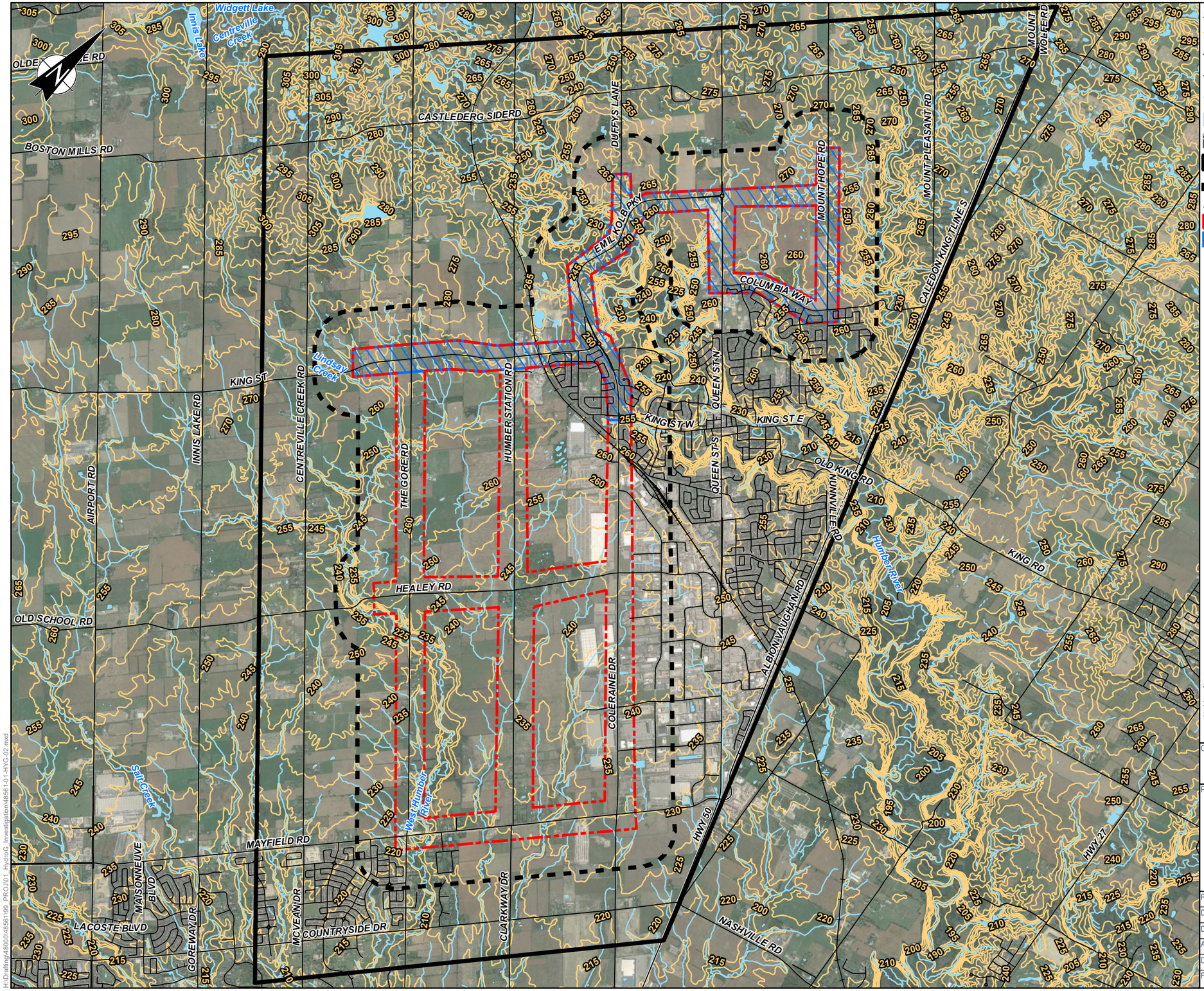
HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

SITE LOCATION PLAN

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-04-05
FIGURE No.	1

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LEGEND

- TOPOGRAPHIC CONTOUR, metres
- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

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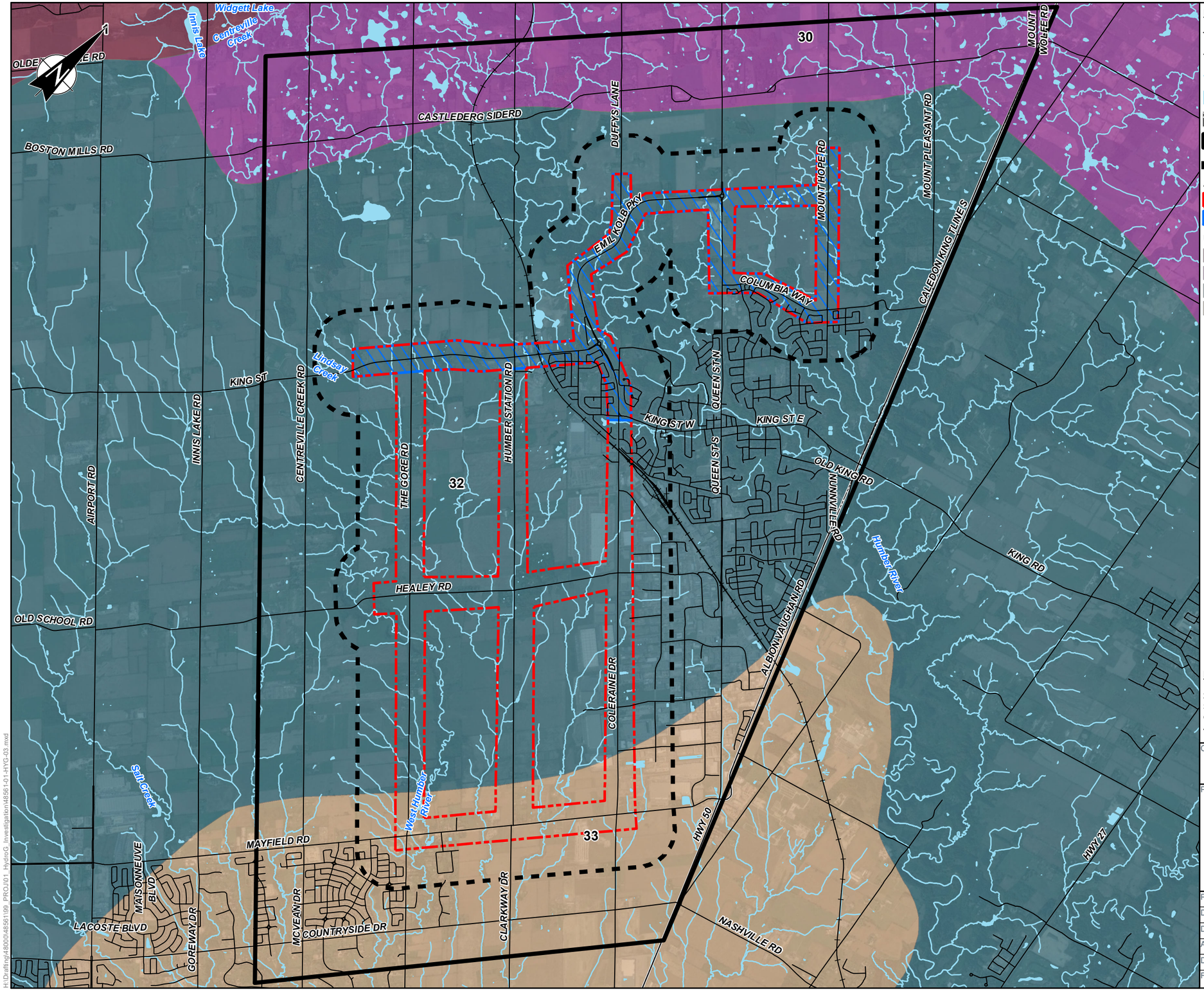
HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

TOPOGRAPHY

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APPROVED	RP
DATE	2024-04-05
FIGURE No.	2

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

UNIT, REGION

- 1. NIAGARA ESCARPMENT
- 30. OAK RIDGE MORAINE
- 32. SOUTH SLOPE
- 33. PEEL PLAIN

0 625 1,250 2,500

1:50,000 METRES

NOTES

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3. CHAPMAN, L.J. AND PUTNAM, D.F. 2007. PHYSIOGRAPHY OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE--DATA 228.
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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ON BEHALF OF THE REGION OF PEEL

PROJECT

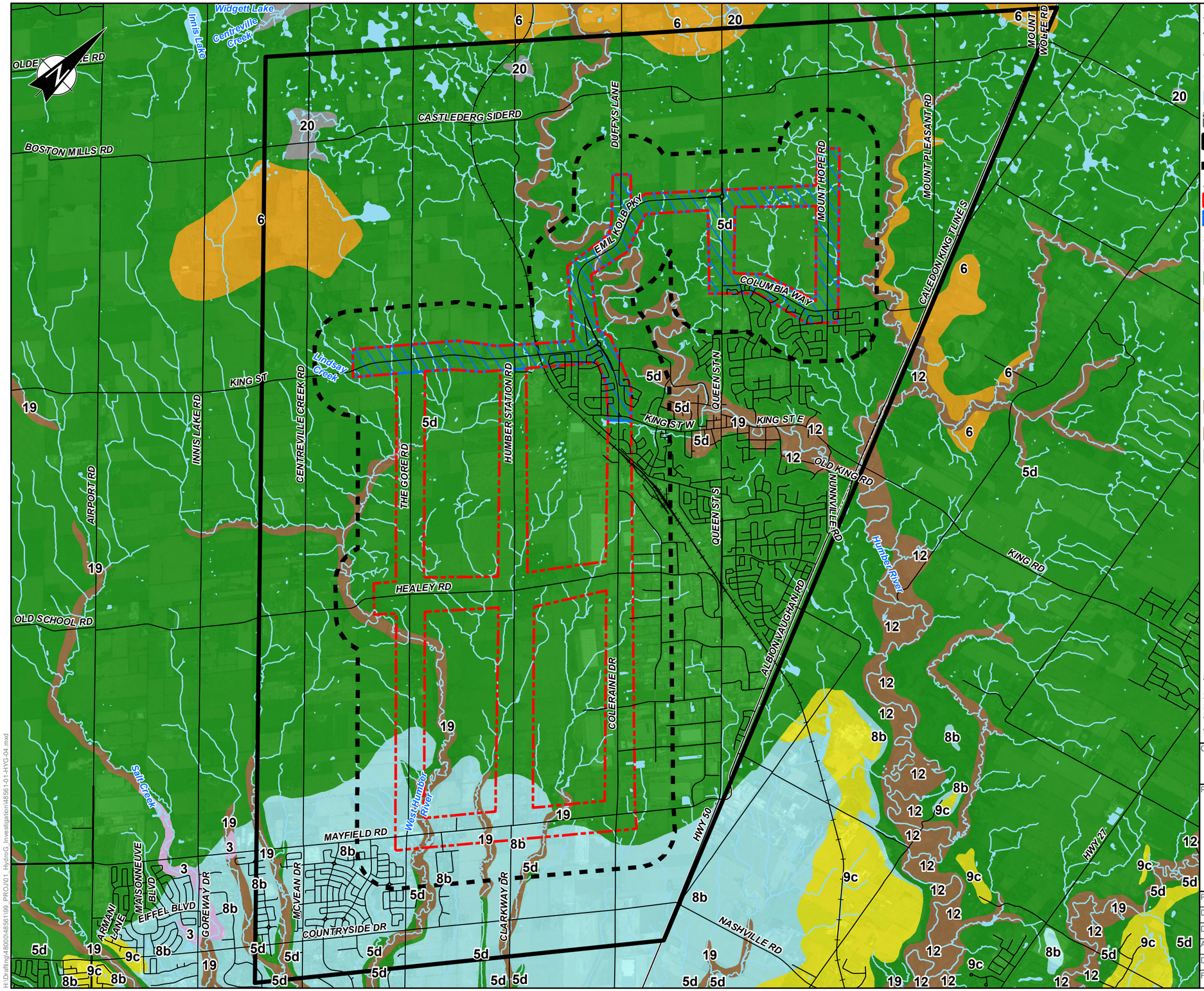
HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

PHYSIOGRAPHIC REGIONS

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DATE	2024-03-19
FIGURE No.	3

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

SURFICIAL GEOLOGY

- 3. **PALEOZOIC BEDROCK**
- 5d. **TILL:** CLAY TO SILT-TEXTURED TILL (DERIVED FROM GLACIOLACUSTRINE DEPOSITS OR SHALE)
- 6. **ICE-CONTACT STRATIFIED DEPOSITS:** SAND AND GRAVEL, MINOR SILT, CLAY AND TILL
- 8b. **FINE-TEXTURED GLACIOLACUSTRINE DEPOSITS:** SILT AND CLAY, MINOR SAND AND GRAVEL; INTERBEDDED SILT AND CLAY AND GRITTY, PEBBLY FLOW TILL AND RAINOUT DEPOSITS
- 9c. **COARSE-TEXTURED GLACIOLACUSTRINE DEPOSITS:** SAND, GRAVEL, MINOR SILT AND CLAY; FORESHORE AND BASINAL DEPOSITS
- 12. **OLDER ALLUVIAL DEPOSITS:** CLAY, SILT, SAND, GRAVEL, MAY CONTAIN ORGANIC REMAINS
- 19. **MODERN ALLUVIAL DEPOSITS:** CLAY, SILT, SAND, GRAVEL, MAY CONTAIN ORGANIC REMAINS
- 20. **ORGANIC DEPOSITS:** PEAT, MUCK, MARL

0 625 1,250 2,500

1:50,000 METRES

NOTES

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4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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ON BEHALF OF THE REGION OF PEEL

PROJECT

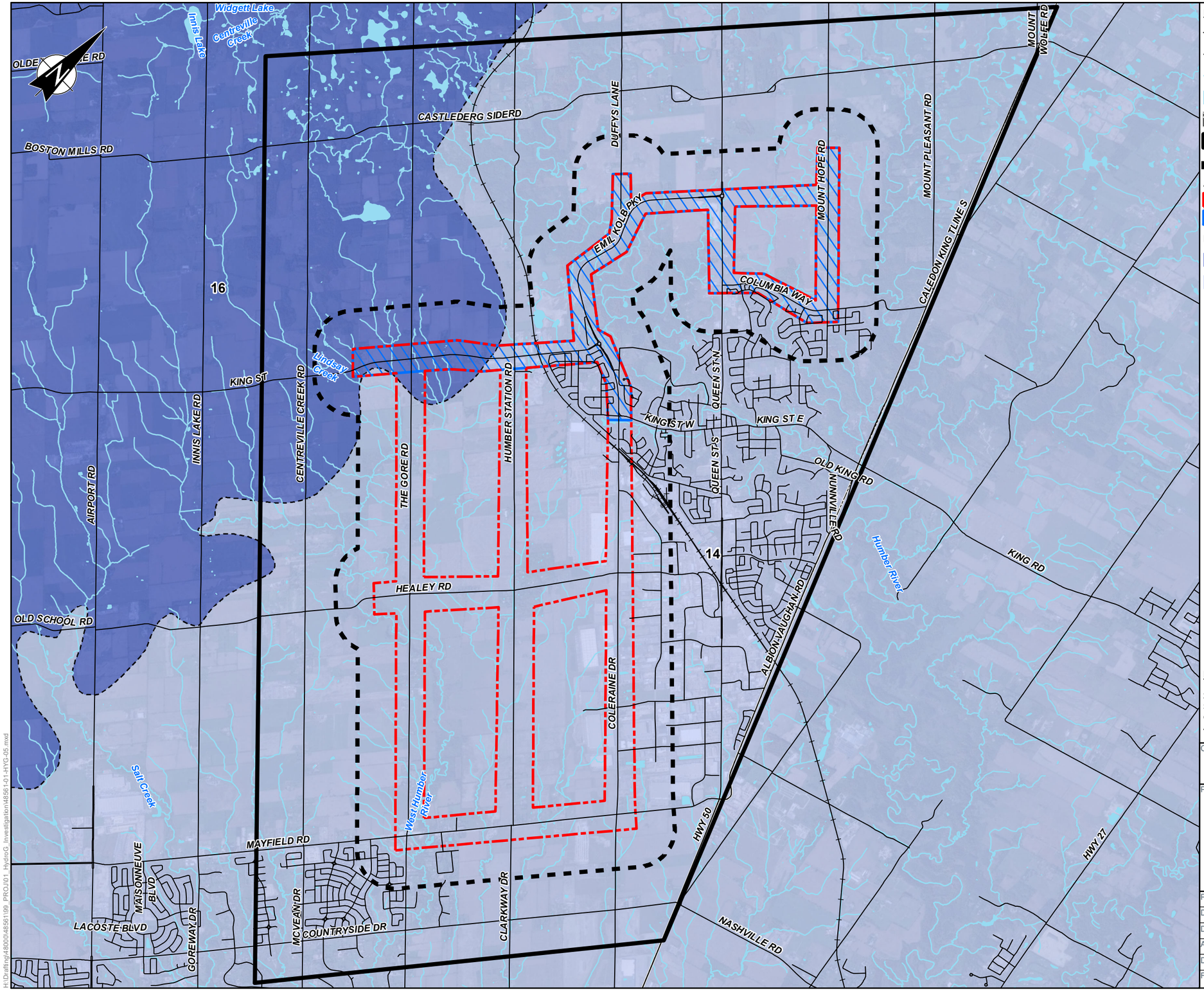
HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

SURFICIAL GEOLOGY

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-03-19
FIGURE No.	4

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

BEDROCK FORMATION

- 16. **QUEENSTON FORMATION:** SHALE, SILTSTONE, MINOR LIMESTONE AND SANDSTONE
- 14. **GEORGIAN BAY FORMATION:** SHALE AND LIMESTONE

0 625 1,250 2,500

1:50,000 METRES

NOTES

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2. IMAGERY: © 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS
3. ARMSTRONG, D.K. AND DODGE, J.E.P. 2007. PALEOZOIC GEOLOGY OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE--DATA 219.
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

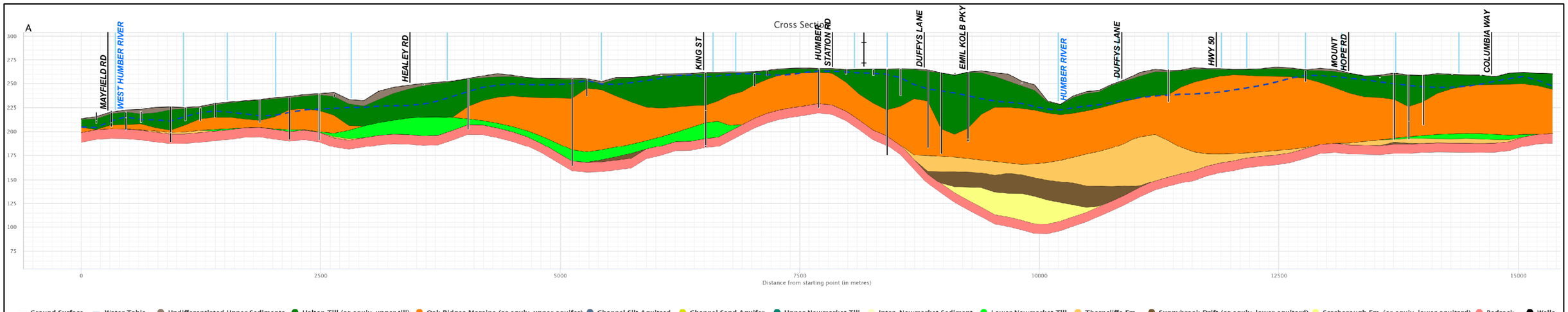
HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

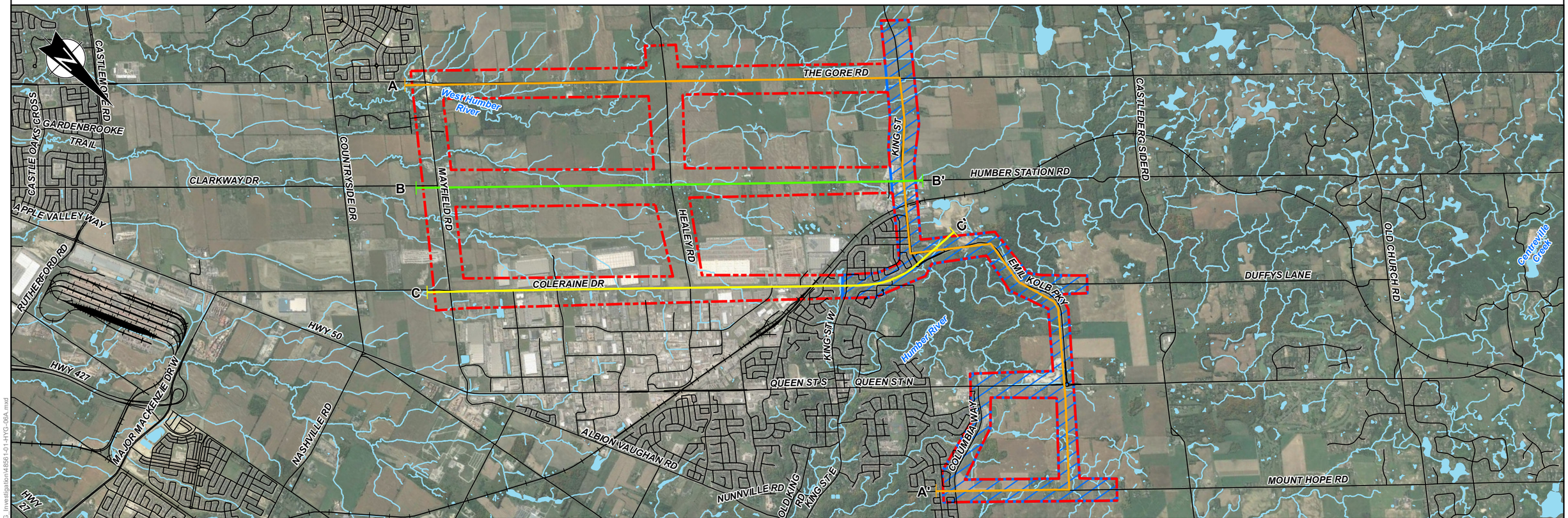
BEDROCK GEOLOGY

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DESIGNED	PC
DRAWN	JEM
APPROVED	RP
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FIGURE No.	5

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

NOTES

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4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

PROJECT

HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT

REGIONAL GEOLOGICAL CROSS-SECTION A-A'

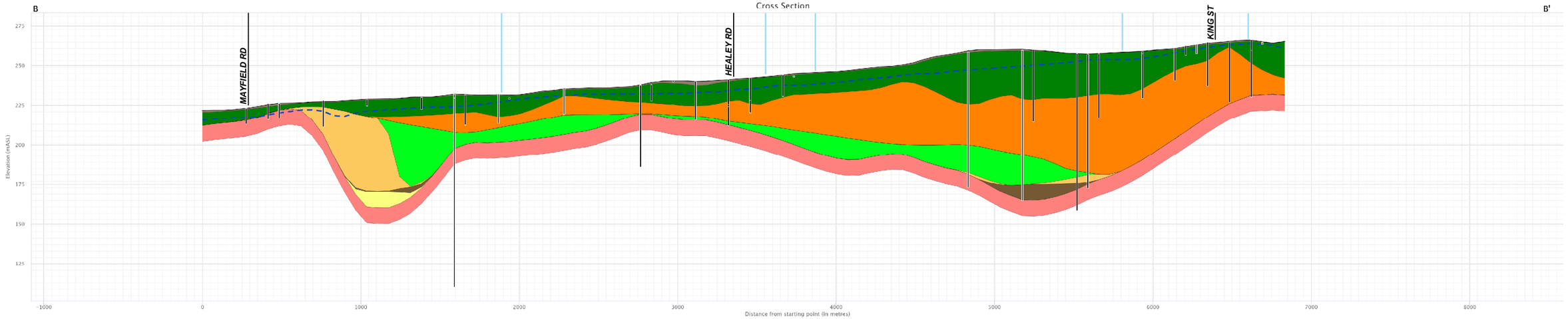
CLIENT

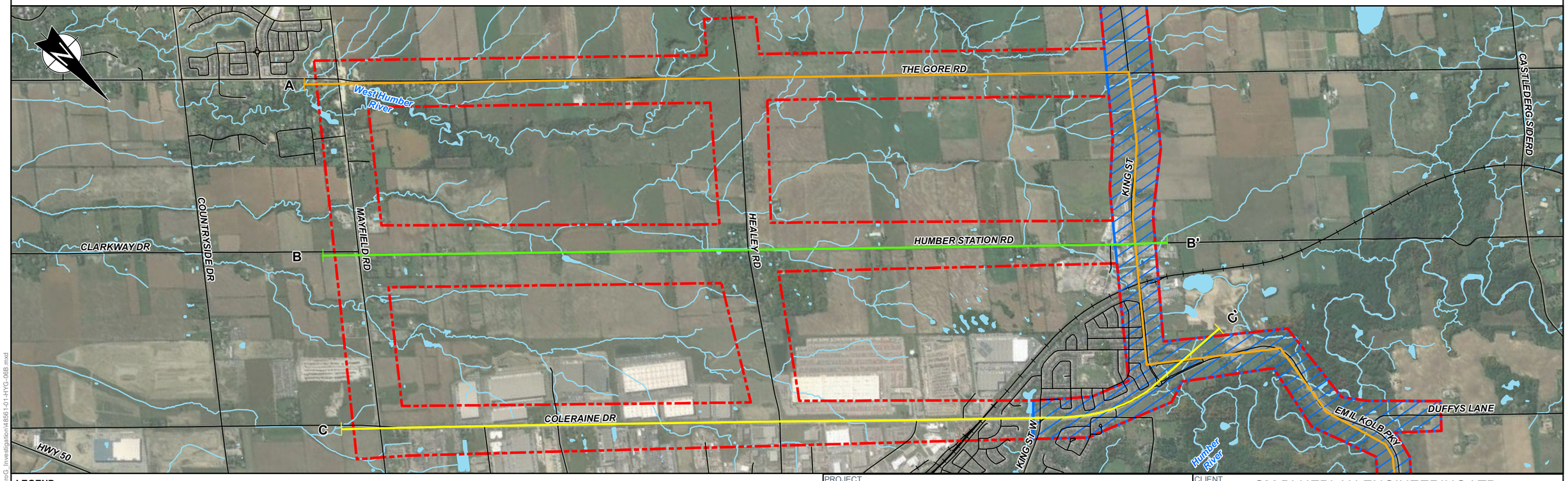
GM BLUEPLAN ENGINEERING LTD.
ON BEHALF OF THE REGION OF PEEL

PROJECT No.	48561
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DATE	2024-02-15
FIGURE No.	6A

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 375 750 1,500

1:30,000 METRES

NOTES

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4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

PROJECT

HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

REGIONAL GEOLOGICAL CROSS-SECTION B-B'

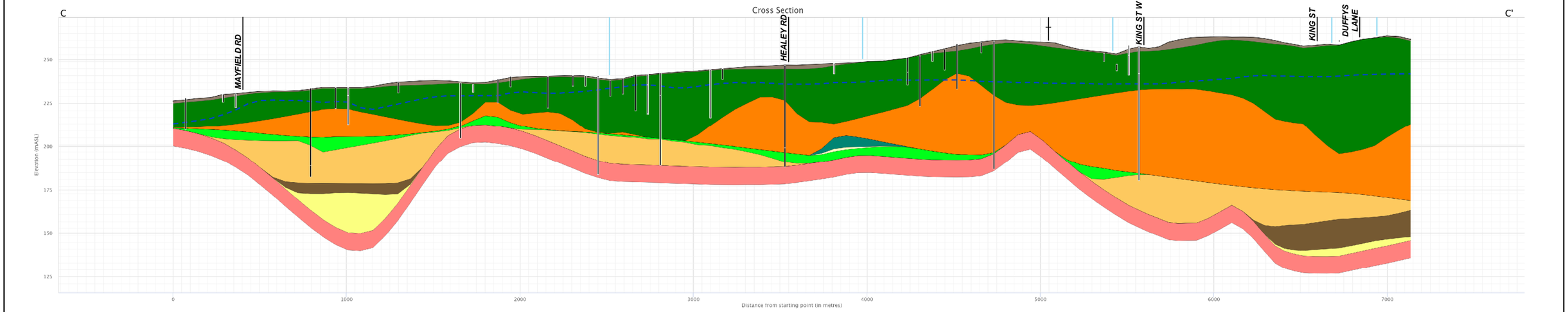
CLIENT

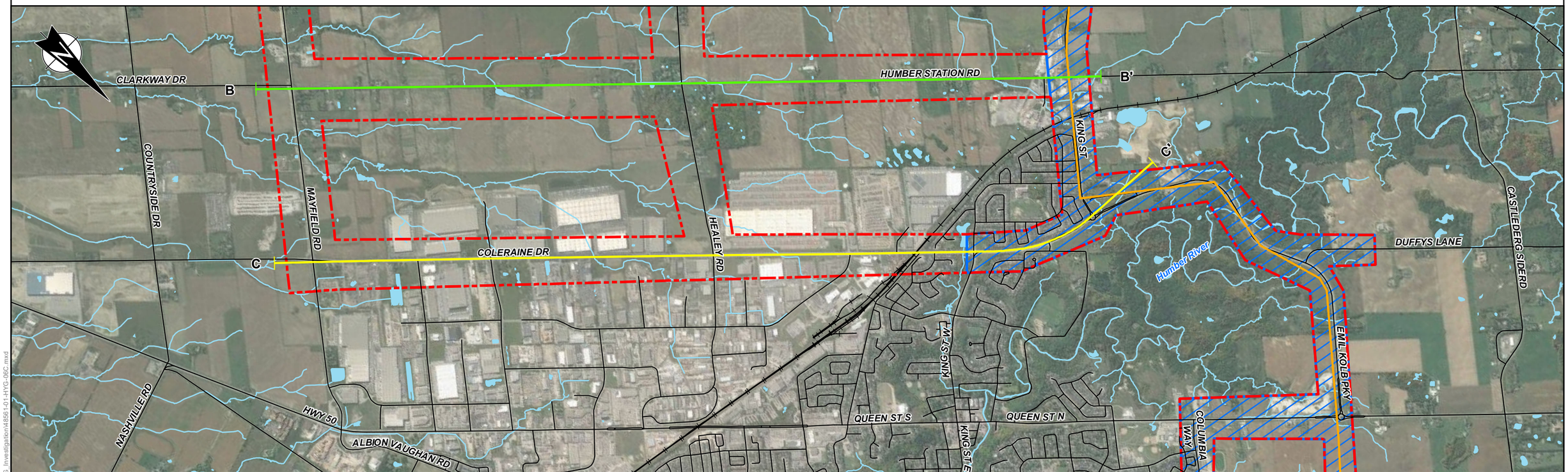
GM BLUEPLAN ENGINEERING LTD.
ON BEHALF OF THE REGION OF PEEL

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-02-15
FIGURE No.	6B

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 375 750 1,500

1:30,000 METRES

NOTES

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4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

PROJECT

HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT

REGIONAL GEOLOGICAL CROSS-SECTION C-C'

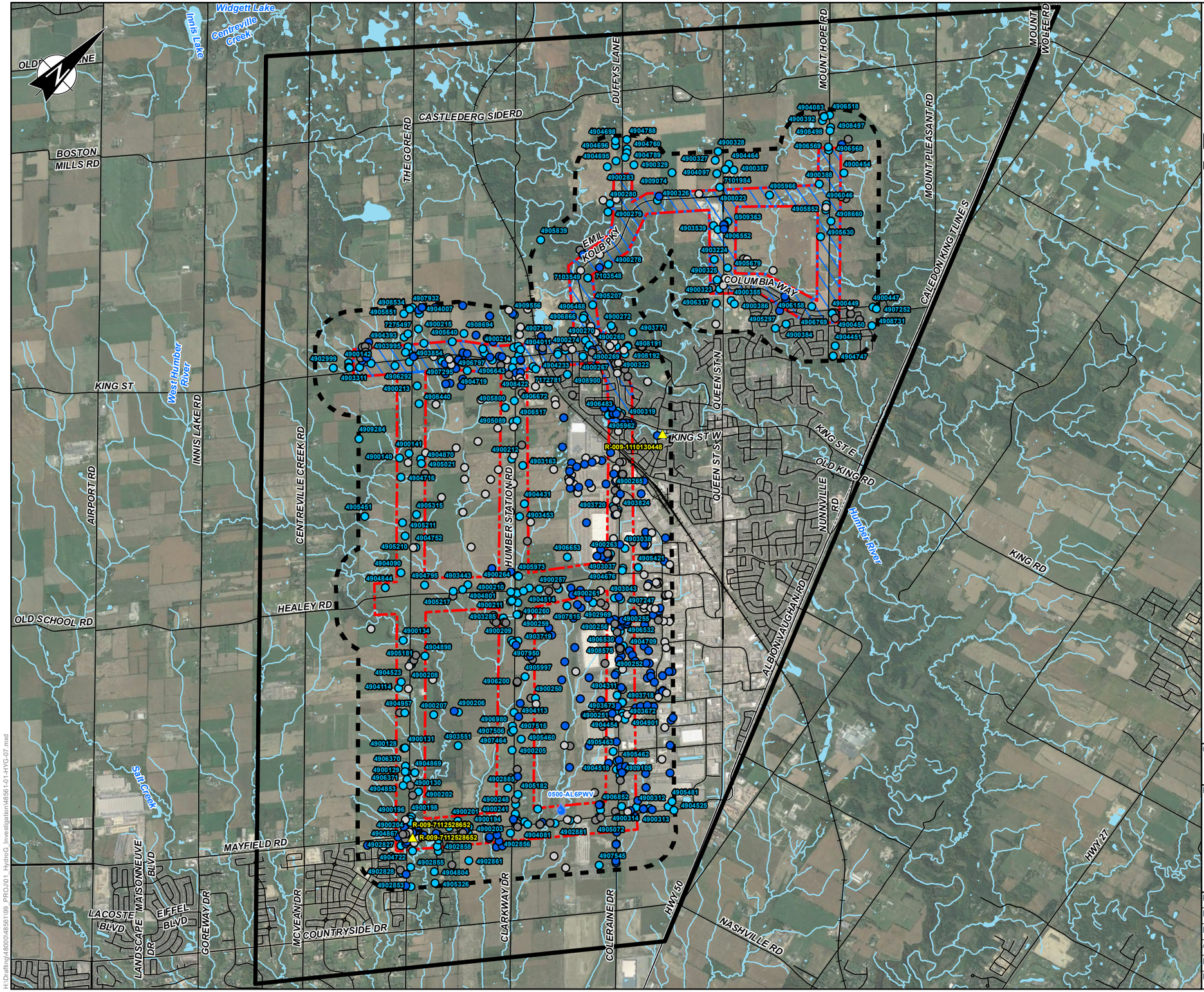
CLIENT

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ON BEHALF OF THE REGION OF PEEL

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-02-12
FIGURE No.	6C

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)
- EASR: WATER TAKING - CONSTRUCTION DEWATERING
- PERMIT TO TAKE WATER LOCATION (ACTIVE)

MECP WELL RECORD

- WATER SUPPLY
- MONITORING/TEST/OBSERVATION WELL
- ABANDONED/OTHER
- UNKNOWN

0 625 1,250 2,500

1:50,000 METRES

NOTES

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3. MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS. 2024. WATER WELL RECORD DATABASE AND PERMIT TO TAKE WATER DATABASE
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LTD.
ON BEHALF OF THE REGION OF PEEL

PROJECT

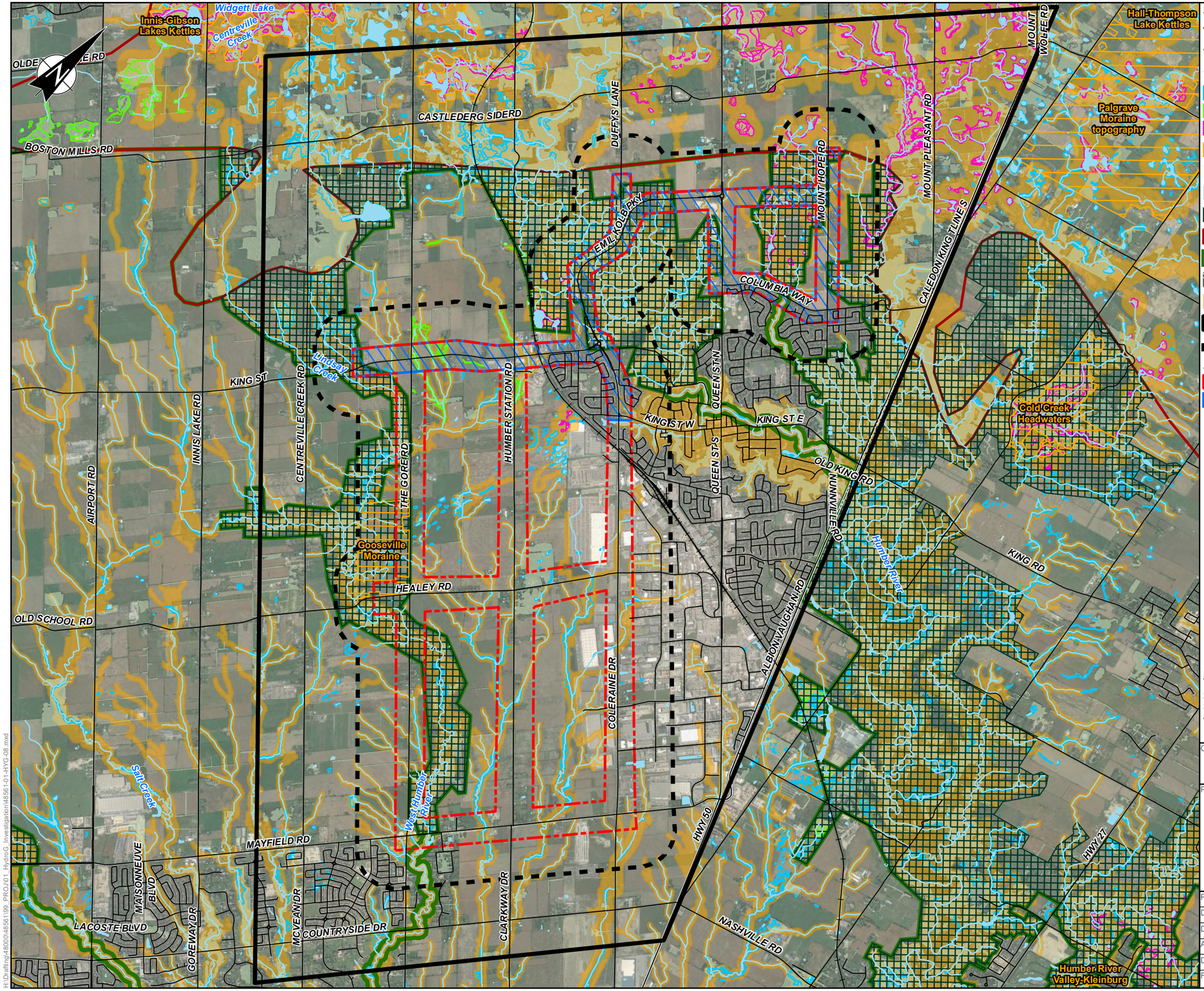
HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

MECP WELL RECORDS AND WATER TAKING PERMITS

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DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-03-22
FIGURE No.	7

THURBER ENGINEERING LTD.

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WETLAND (UNEVALUATED)
- WETLAND (NON-PROVINCIALLY SIGNIFICANT)
- WETLAND (PROVINCIALLY SIGNIFICANT - PSW)
- AREA OF NATURAL AND SCIENTIFIC INTEREST (ANSI)
- WOODED AREA
- WATERBODY
- NATURAL HERITAGE SYSTEM
- OAK RIDGES MORAINE AREA
- GREENBELT AREA (O.REG. 59/05)
- MUNICIPAL BOUNDARY
- TRCA REGULATED AREA
- EA AREA
- STUDY AREA (500 m BUFFER)

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

NOTES

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ON BEHALF OF THE REGION OF PEEL

PROJECT

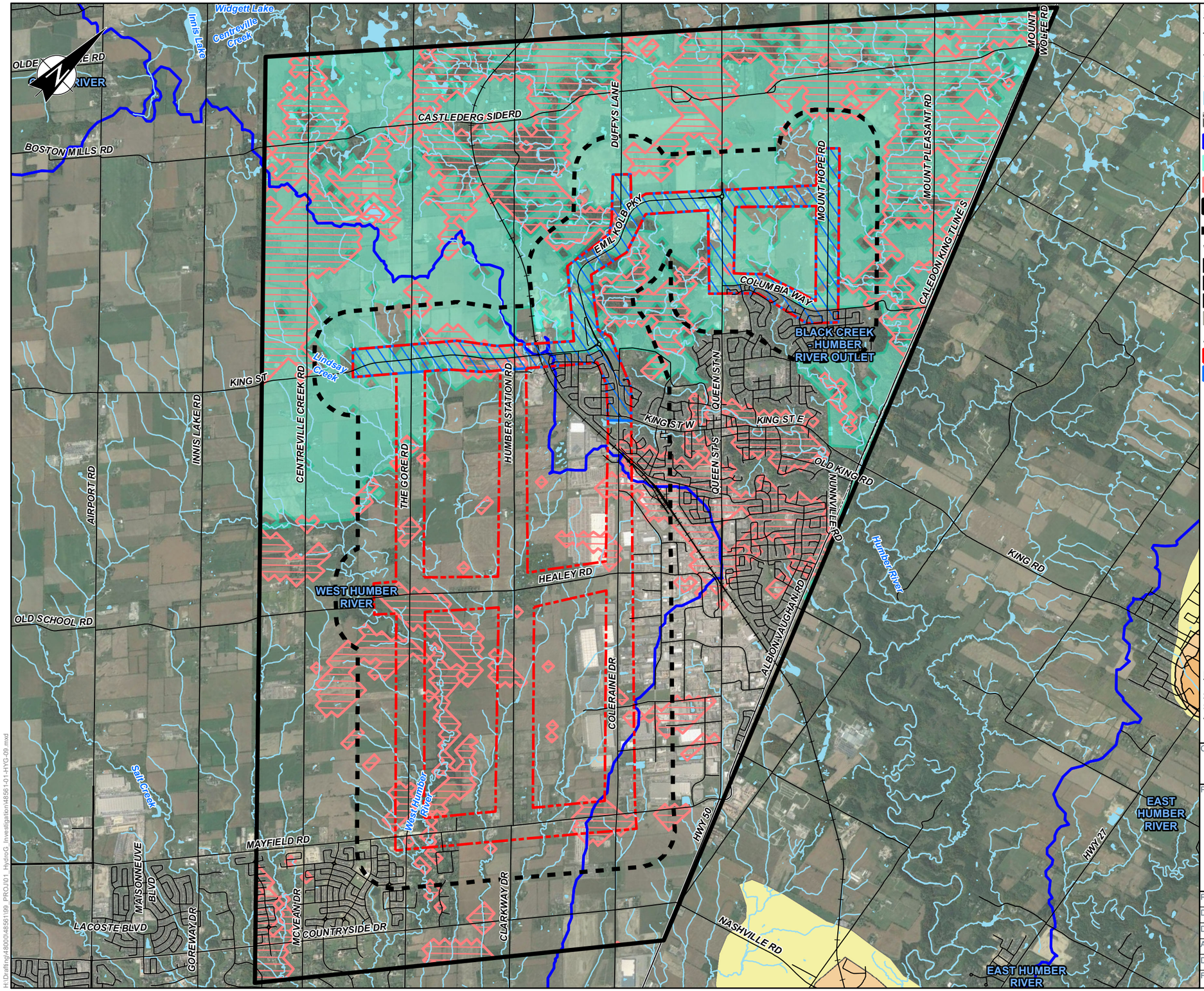
HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

NATURAL FEATURES

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-03-19
FIGURE No.	8

THURBER ENGINEERING LTD.

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LEGEND

- ROADWAY
- RAILWAY
- WATERCOURSE
- WATERBODY
- MUNICIPAL BOUNDARY
- SUB-WATERSHED
- SIGNIFICANT GROUNDWATER RECHARGE AREA (SGRA)
- HIGHLY VULNERABLE AQUIFER (HVA)
- EA AREA
- STUDY AREA (500 m BUFFER)

WELLHEAD PROTECTION AREA

- A
- B
- C
- D

APPROXIMATE PROJECT AREAS

- ALTERNATIVE ALIGNMENT AREA (WASTEWATER)
- ALTERNATIVE ALIGNMENT AREA (WATER)

0 625 1,250 2,500

1:50,000 METRES

NOTES

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ON
2. IMAGERY: © 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS
3. ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT

GM BLUEPLAN ENGINEERING LTD.
ON BEHALF OF THE REGION OF PEEL

PROJECT

HYDROGEOLOGICAL DESKTOP STUDY
BOLTON WATER AND WASTEWATER CAPACITY
IMPROVEMENTS SCHEDULE C CLASS
ENVIRONMENTAL ASSESSMENT

SOURCE WATER PROTECTION

PROJECT No.	48561
DESIGNED	PC
DRAWN	JEM
APPROVED	RP
DATE	2024-03-19
FIGURE No.	9

THURBER ENGINEERING LTD.

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THURBER ENGINEERING LTD.

APPENDIX B

MECP WELL RECORDS AND WATER TAKING PERMITS

Well ID	Date Completed	Depth of Well (m)	Depth of Bedrock (m)	Static Level (m)	UTM Zone 17		Well Type
					Easting	Northing	
7051652	2007-09-11	-	-	-	597469	4856609	Abandoned-Other
7052452	2007-10-04	5.8	-	-	602096	4857526	Observation Wells
7053236	2007-09-20	-	-	-	599931	4863016	Abandoned-Other
7053629	2007-11-28	10	-	-	602161	4857174	Observation Wells
4900248	1967-08-01	17.1	2.7	2.4	603025	4853931	Water Supply
4900249	1961-10-02	36.6	26.5	-	602166	4855035	Abandoned-Supply
4900250	1961-10-17	23.2	-	3.4	602210	4855080	Water Supply
4900251	1966-06-18	32	26.8	6.7	603086	4855690	Water Supply
4900252	1967-11-22	18.3	-	9.1	602707	4856065	Water Supply
4900253	1958-05-27	14	-	7.9	601038	4855856	Water Supply
4900254	1958-05-30	14.3	-	6.1	601061	4855856	Water Supply
4900255	1959-01-14	12.8	-	9.8	602239	4856511	Water Supply
4900256	1959-11-30	15.2	-	10.4	602279	4856454	Water Supply
4900128	1957-08-28	13.4	-	4.6	601486	4853391	Water Supply
4900129	1959-08-17	14.3	-	6.7	601735	4853203	Water Supply
4900130	1959-10-20	12.8	-	7.3	601811	4853138	Water Supply
4900131	1964-11-05	15.8	-	9.8	601499	4853406	Water Supply
4900132	1947-07-29	20.7	15.2	3	601117	4853674	Abandoned-Supply
4900134	1961-07-05	31.4	-	-1.5	600472	4854363	Water Supply
4900140	1966-10-20	39.9	-	-0.9	598729	4855976	Water Supply
4900141	1964-04-17	18.6	-	-2.1	598773	4856107	Water Supply
4900142	1963-04-02	67.1	-	-1.5	597583	4856566	Water Supply
4900194	1958-09-12	11	-	4.6	602810	4853297	Water Supply
4900195	1959-09-09	14	-	7.6	602642	4853100	Water Supply
4900196	1960-03-04	11.6	-	7.3	602186	4852826	Water Supply
4900197	1960-12-07	36	29	24.4	601894	4853117	Abandoned-Quality
4900198	1962-08-11	18.3	-	9.8	602196	4852841	Water Supply
4900199	1962-07-03	18.6	18.3	9.1	602209	4852806	Water Supply
4900200	1962-10-12	13.4	-	7.3	602686	4853201	Water Supply
4900201	1962-10-20	11.9	-	8.8	602656	4853238	Water Supply
4900202	1964-10-29	12.5	-	9.1	602029	4853133	Water Supply
4900203	1965-05-07	11	-	3.7	602820	4853289	Water Supply
4900204	1965-12-01	12.8	-	6.7	602244	4852787	Water Supply
4900205	1958-10-28	7.6	-	3.7	602484	4854387	Water Supply
4900206	1958-09-19	15.8	4.6	11.3	601644	4854230	Water Supply
4900207	1965-12-04	44.2	32.3	12.8	601446	4853976	Water Supply
4900208	1947-10-14	48.8	45.7	18.3	600772	4854223	Water Supply
4900209	1967-01-24	10.4	-	4.9	601450	4855377	Water Supply
4900210	1959-07-17	21.3	-	6.1	600989	4855808	Water Supply
4900211	1961-08-05	16.8	-	4.6	601077	4855716	Water Supply
4900212	1961-12-02	95.1	-	12.5	599755	4857019	Water Supply
4900213	1966-06-14	42.1	-	-0.6	598213	4856795	Water Supply
4900214	1966-04-13	6.7	-	1.5	598727	4858045	Water Supply

Well ID	Date Completed	Depth of Well (m)	Depth of Bedrock (m)	Static Level (m)	UTM Zone 17		Well Type
					Easting	Northing	
4900215	1967-09-09	19.8	-	4.6	597689	4857323	Water Supply
4900240	1960-09-09	6.1	2.1	-	603154	4853815	Abandoned-Supply
4900241	1960-09-23	10.4	3	3.7	603111	4853844	Water Supply
4900242	1960-10-03	10.7	3.7	3.7	603211	4853793	Water Supply
4900243	1960-10-07	7.3	3	3	603199	4853775	Water Supply
4900244	1961-02-28	10.1	7	6.4	603189	4853762	Water Supply
4900245	1961-07-29	13.7	13.4	4.6	603269	4854096	Water Supply
4900246	1963-05-25	16.5	4.9	4.3	603216	4853805	Water Supply
4900247	1967-01-19	10.7	2.7	4.6	603271	4853858	Water Supply
4900257	1961-05-02	39.6	-	4.9	601224	4856103	Water Supply
4900258	1963-05-08	35.1	24.1	-	601272	4855680	Abandoned-Supply
4900259	1963-05-31	24.4	20.1	13.7	601262	4855660	Water Supply
4900260	1965-05-15	15.8	-	9.8	601154	4855777	Water Supply
4900261	1967-01-29	53.3	52.4	16.8	601834	4856480	Water Supply
4900262	1967-10-10	14	-	6.4	601122	4856017	Water Supply
4900263	1962-12-19	24.4	-	12.2	601538	4857086	Water Supply
4900264	1964-06-13	13.7	-	7.6	600897	4856015	Water Supply
4900265	1963-11-27	25.9	-	12.2	600993	4857721	Water Supply
4900266	1962-11-22	28	-	-	600986	4857704	Abandoned-Supply
4900267	1963-10-22	75	-	33.5	599435	4858616	Water Supply
4900268	1955-03-07	80.8	-	34.1	599643	4859023	Water Supply
4900269	1962-05-25	82.3	-	34.1	599404	4858736	Water Supply
4900270	1959-07-23	85.6	-	37.5	599309	4858785	Water Supply
4900271	1954-07-13	56.7	-	-	599457	4859142	Abandoned-Supply
4900272	1954-07-30	78.3	-	38.1	599407	4859157	Water Supply
4900273	1960-11-07	5.5	-	-	598847	4858021	Water Supply
4900274	1962-10-03	28.3	-	15.2	599265	4858570	Water Supply
4900275	1962-07-06	90.2	64	33.5	599175	4858459	Abandoned-Supply
4900276	1963-09-03	73.2	71.6	41.1	599170	4858419	Water Supply
4900277	1964-12-30	9.4	-	4.6	599220	4858504	Water Supply
4900278	1961-04-26	18.9	-	10.7	598807	4859684	Water Supply
4900279	1962-05-24	18.3	-	9.1	598308	4860157	Water Supply
4900280	1965-03-20	42.7	-	19.8	598248	4860252	Water Supply
4900283	1963-10-03	47.5	-	21.3	597880	4860561	Water Supply
4900312	1958-12-16	20.7	-	14.6	604427	4855336	Water Supply
4900313	1962-10-30	21.6	-	15.2	604226	4855092	Water Supply
4900314	1963-07-02	36.6	35.4	12.2	604147	4855033	Water Supply
4900315	1966-02-26	44.8	37.5	25.6	604273	4855150	Water Supply
4900319	1957-07-15	15.2	-	9.1	600320	4858462	Water Supply
4900322	1966-09-08	27.4	-	25	599793	4859029	Water Supply
4900323	1961-02-20	53	-	23.8	600040	4860503	Water Supply
4900324	1967-01-30	73.2	-	-	599960	4860448	Abandoned-Supply
4900325	1967-08-10	79.9	-	27.7	599934	4860568	Water Supply

Well ID	Date Completed	Depth of Well (m)	Depth of Bedrock (m)	Static Level (m)	UTM Zone 17		Well Type
					Easting	Northing	
4900326	1959-07-08	34.1	-	20.1	598646	4860725	Water Supply
4900327	1955-12-10	37.2	-	18.3	598796	4861628	Water Supply
4900328	1963-05-16	40.2	-	26.2	598740	4861738	Water Supply
4900329	1965-03-13	47.2	-	19.8	598104	4860827	Water Supply
4900384	1956-06-16	24.1	-	19.5	600972	4860809	Water Supply
4900385	1963-11-29	49.4	-	36.6	600256	4860508	Water Supply
4900386	1967-01-23	57	-	34.4	600316	4860511	Water Supply
4900387	1959-07-04	28.3	-	19.8	599056	4861715	Water Supply
4900388	1959-08-03	64	-	24.4	599959	4862392	Water Supply
4900392	1967-05-03	47.2	-	19.2	599394	4862995	Water Supply
4900447	1965-10-02	4.3	-	0.9	601598	4861778	Water Supply
4900448	1966-05-17	19.8	-	-	601302	4861367	Abandoned-Supply
4900449	1966-06-18	64	60.4	27.4	601283	4861346	Water Supply
4900450	1967-10-21	60	-	28.3	601458	4861508	Water Supply
4900452	1959-12-03	89	67.1	-	600685	4862252	Test Hole
4900454	1958-05-24	51.8	-	12.2	600082	4862721	Water Supply
4904419	1974-03-22	42.7	27.7	-	600504	4855228	Abandoned-Supply
4902827	1957-10-22	15.5	-	7.9	602375	4852483	Water Supply
4902828	1964-12-23	13.1	-	9.8	602635	4852243	Water Supply
4902853	1966-01-18	13.7	4.6	10.1	602850	4852208	Water Supply
4902854	1947-06-17	18.9	12.2	3.7	602605	4852933	Water Supply
4902855	1950-09-16	21	-	11.6	602665	4852378	Water Supply
4902856	1955-11-15	10.1	-	5.5	603250	4853623	Water Supply
4902857	1955-11-26	11.9	-	4.6	602765	4852783	Water Supply
4902858	1956-02-15	8.5	-	5.5	602710	4852818	Water Supply
4902859	1956-06-09	12.8	-	2.4	602660	4852888	Water Supply
4902860	1956-07-10	10.1	-	2.4	602865	4853228	Water Supply
4902861	1957-07-04	9.8	-	3.7	603130	4852983	Water Supply
4902881	1961-09-15	9.1	8.8	4.6	603560	4854128	Water Supply
4902885	1967-12-04	10.7	-	6.1	602805	4854003	Water Supply
4902966	1968-09-20	43.3	31.7	7.3	603085	4855623	Abandoned-Quality
4902969	1968-11-15	53.3	-	29	602225	4856523	Water Supply
4902999	1968-05-09	17.4	-	-	597285	4856173	Water Supply
4903037	1968-05-15	47.2	-	16.8	601785	4857073	Water Supply
4903038	1968-07-15	56.4	-	21.3	601615	4857273	Water Supply
4903043	1968-08-20	61	56.7	11	601985	4856723	Water Supply
4903163	1968-11-02	93	-	18.3	599915	4857063	Water Supply
4903224	1969-04-10	45.7	-	13.7	599715	4860723	Water Supply
4903241	1969-06-03	17.4	-	6.1	603845	4854673	Water Supply
4903242	1969-06-10	20.1	-	6.1	597375	4856363	Water Supply
4903285	1969-07-07	27.4	17.7	3.7	601165	4855503	Water Supply
4903311	1969-09-12	28	-	0.9	597415	4856323	Water Supply
4903328	1969-10-09	14	-	-	601695	4860953	Abandoned-Supply

Well ID	Date Completed	Depth of Well (m)	Depth of Bedrock (m)	Static Level (m)	UTM Zone 17		Well Type
					Easting	Northing	
4903330	1969-09-02	15.2	-	12.2	601395	4856283	Water Supply
4903348	1969-11-11	27.4	-	0.9	597435	4856323	Water Supply
4903356	1969-12-12	56.7	48.8	-	601625	4857403	Abandoned-Supply
4903443	1970-04-09	32.3	31.1	8.5	600535	4855473	Water Supply
4903453	1970-03-25	57.3	55.8	7.6	600365	4856573	Water Supply
4903539	1970-07-14	47.5	-	18.3	599395	4861023	Water Supply
4903551	1970-05-10	19.5	-	15.8	601955	4853923	Water Supply
4903556	1970-09-18	30.5	18.3	-	601105	4855393	Abandoned-Supply
4903572	1970-09-28	45.7	16.8	-	601215	4855473	Abandoned-Supply
4903573	1970-10-08	38.1	23.5	-	601055	4855433	Abandoned-Supply
4903622	1971-03-15	27.7	19.8	-	601145	4855393	Abandoned-Supply
4903672	1971-06-16	33.5	31.1	8.5	603135	4855753	Water Supply
4903673	1971-04-29	30.2	25.3	8.2	603038	4855853	Water Supply
4903718	1971-10-07	25.9	25.6	12.2	603035	4855853	Water Supply
4903719	1971-11-05	17.7	-	7.6	601515	4855433	Water Supply
4903720	1971-11-08	29	-	12.2	601115	4857543	Water Supply
4903771	1971-07-10	75.6	-	38.1	599665	4859303	Water Supply
4903824	1972-04-22	29	-	13.7	601195	4857553	Water Supply
4903836	1972-05-09	15.2	-	-	599325	4863063	Abandoned-Supply
4903854	1972-06-12	36.6	24.7	27.4	597815	4857025	Water Supply
4903873	1972-07-19	12.8	-	6.1	602435	4852773	Water Supply
4903995	1972-11-24	45.7	-	-	597765	4857063	Water Supply
4904007	1972-06-15	7.6	-	-	597557	4857470	Water Supply
4904011	1972-08-26	35.1	-	-	598756	4858099	Water Supply
4904081	1973-04-26	10.7	6.1	2.4	603319	4853863	Water Supply
4904083	1973-05-12	11.6	-	3	599365	4863043	Water Supply
4904090	1972-10-27	61.3	61	20.7	599815	4854953	Water Supply
4904097	1973-02-22	52.1	-	25.6	598935	4861523	Water Supply
4904113	1973-06-21	18.6	-	3.4	602151	4854746	Water Supply
4904114	1973-06-18	42.1	33.5	14.3	600879	4853886	Water Supply
4904123	1973-07-10	15.8	-	-	599713	4857240	Abandoned-Supply
4904233	1973-09-15	79.2	-	16.8	599191	4858400	Water Supply
4904240	1973-10-04	67.1	-	-	600665	4856423	Abandoned-Supply
4904241	1973-09-25	66.1	-	-	602715	4854263	Abandoned-Supply
4904242	1973-10-07	99.1	68.6	-	602775	4854143	Abandoned-Supply
4904311	1973-10-04	13.7	-	6.1	602919	4855868	Water Supply
4904393	1974-08-01	12.8	-	6.1	597638	4857116	Water Supply
4904398	1974-07-10	13.7	9.1	9.1	603666	4854293	Water Supply
4904431	1974-04-04	76.8	72.2	9.8	600291	4856733	Water Supply
4905640	1979-09-26	7.6	-	2.4	598115	4857523	Water Supply
4905966	1982-08-14	12.2	-	3	599615	4861823	Water Supply
4905973	1982-11-10	18.3	-	3	600915	4856023	Water Supply
4906158	1984-03-05	93	86	24.7	601039	4861213	Water Supply

Well ID	Date Completed	Depth of Well (m)	Depth of Bedrock (m)	Static Level (m)	UTM Zone 17		Well Type
					Easting	Northing	
4906317	1985-05-06	49.1	-	25.9	600144	4860343	Water Supply
4904451	1974-08-12	24.7	-	17.7	601621	4861072	Water Supply
4904454	1974-06-02	38.1	27.4	11	603168	4855734	Water Supply
4904464	1974-09-13	47.2	-	19.8	598955	4861723	Water Supply
4906159	1983-11-22	-	-	-	600782	4858028	Unknown
4904514	1974-09-15	16.8	-	6.1	601097	4855935	Water Supply
4904518	1974-08-19	12.2	-	3.7	603611	4855193	Water Supply
4904523	1974-11-29	20.7	-	13.7	600844	4853967	Water Supply
4904525	1974-11-19	24.4	-	12.2	604514	4855361	Water Supply
4904566	1973-06-15	39.6	27.4	-	601236	4855482	Abandoned-Quality
4904676	1975-05-02	58.5	50.3	21.9	601799	4857046	Water Supply
4904695	1975-07-18	42.4	-	15.5	597903	4860695	Water Supply
4904696	1975-07-12	42.7	-	14.6	597757	4860828	Water Supply
4904697	1975-07-09	42.7	-	15.2	597753	4860832	Water Supply
4904698	1975-07-05	42.7	-	14.6	597710	4860870	Water Supply
4904709	1975-07-10	20.1	-	13.7	602515	4856373	Water Supply
4904716	1975-08-05	16.5	-	6.1	598921	4855816	Water Supply
4904719	1974-08-29	8.5	-	1.8	598524	4857402	Water Supply
4904720	1974-08-26	9.1	-	1.2	597877	4857244	Water Supply
4904722	1975-08-11	13.7	-	10.1	602528	4852544	Water Supply
4904747	1975-08-05	64	56.4	15.8	601695	4860964	Water Supply
4904752	1974-08-06	24.4	15.5	8.5	599715	4855323	Water Supply
4904760	1975-09-25	56.4	-	12.2	597891	4860908	Water Supply
4904788	1975-08-10	80.2	-	13.7	597800	4860988	Water Supply
4904789	1975-08-17	52.7	-	13.7	597926	4860870	Water Supply
4904790	1975-08-24	60.4	-	13.7	597955	4860812	Water Supply
4904795	1975-11-12	36.6	-	18.3	600145	4855062	Water Supply
4904801	1975-11-27	42.7	29.6	12.5	600535	4855378	Water Supply
4904804	1975-12-12	14	-	5.5	602921	4852560	Water Supply
4904844	1975-12-05	55.2	51.8	15.5	599815	4854673	Water Supply
4904853	1975-06-30	27.7	-	4.6	601833	4853045	Water Supply
4904867	1976-04-23	12.8	-	4.6	602297	4852634	Water Supply
4904869	1976-04-26	15.8	-	6.1	601815	4853273	Water Supply
4904870	1976-04-30	22.9	-	-	598931	4856166	Water Supply
4904898	1975-04-30	46.6	-	16.8	600815	4854423	Water Supply
4904901	1976-06-27	22.9	-	4.6	603215	4855723	Water Supply
4904957	1976-09-23	25	-	18.3	601165	4853723	Water Supply
4905021	1976-04-28	21.9	-	1.8	598980	4856132	Water Supply
4905072	1977-03-15	19.8	18.9	16.2	603905	4854573	Water Supply
4905089	1977-03-31	40.5	-	1.8	599415	4857373	Water Supply
4905180	1977-07-27	16.8	4.6	13.7	602975	4853973	Abandoned-Supply
4905181	1977-07-27	46.3	45.7	13.7	600755	4854243	Water Supply
4905182	1977-07-28	24.4	4.6	13.7	602955	4854043	Water Supply

Well ID	Date Completed	Depth of Well (m)	Depth of Bedrock (m)	Static Level (m)	UTM Zone 17		Well Type
					Easting	Northing	
4905207	1977-09-14	72.8	-	38.7	599040	4859173	Water Supply
4905210	1977-09-25	29	-	10.7	599512	4855323	Water Supply
4905211	1977-09-30	19.8	-	6.1	599362	4855423	Water Supply
4905217	1977-08-05	53.9	-	18.3	600465	4855273	Water Supply
4905281	1977-09-09	38.1	29	-	602915	4855973	Abandoned-Supply
4905297	1977-08-02	33.5	-	22.6	600915	4860673	Water Supply
4905315	1977-06-08	48.8	-	12.8	599412	4855623	Water Supply
4905326	1976-09-13	9.1	-	3.4	603035	4852463	Water Supply
4905421	1978-09-01	16.5	-	9.8	601915	4857223	Water Supply
4905451	1978-10-06	16.8	-	3	598965	4855123	Water Supply
4905460	1978-09-15	9.8	-	7.6	602465	4854573	Water Supply
4905462	1978-05-25	21.3	-	13.7	603540	4855273	Water Supply
4905463	1978-05-27	15.8	-	10.7	603414	4855323	Water Supply
4905481	1978-11-09	39.6	-	18.3	604415	4855423	Water Supply
4905545	1979-07-31	10.7	-	4.6	598515	4857723	Water Supply
4905630	1979-09-19	56.4	-	20.7	600465	4861923	Water Supply
4905679	1978-10-03	45.1	-	21	599915	4860773	Water Supply
4905800	1981-08-25	63.7	-	0.3	599215	4857423	Water Supply
4905839	1981-05-20	11.6	10.7	5.2	597965	4859273	Water Supply
4905851	1981-12-15	10.7	-	4.6	597415	4857323	Water Supply
4905852	1981-07-18	68.6	-	21	600262	4862213	Water Supply
4905962	1982-11-11	75.3	-	44.8	600215	4858323	Water Supply
4905997	1982-09-01	15.8	-	3	601915	4855173	Water Supply
4906046	1983-03-04	70.1	-	17.1	600215	4862273	Water Supply
4905835	1981-10-30	-	-	-	603146	4855663	Unknown
4905853	1981-07-15	-	-	-	600241	4862240	Unknown
4906200	1984-05-11	16.5	16.2	3.7	601897	4855044	Water Supply
4906204	1984-07-12	27.4	-	-	599104	4856075	Abandoned-Supply
4906292	1984-08-28	24.4	-	6.1	597825	4856771	Water Supply
4906309	1985-06-03	29	-	2.7	601084	4855738	Water Supply
4906468	1986-05-09	70.1	-	38.1	599063	4858995	Water Supply
4906470	1985-11-01	38.1	32.6	1.2	598854	4857932	Water Supply
4907932	1994-09-10	21.9	-	1.5	597435	4857461	Water Supply
4908369	1997-08-25	32.6	-	11	598459	4857745	Water Supply
4906370	1985-07-12	13.7	-	4.6	601670	4853247	Water Supply
4906371	1985-07-12	12.5	-	4.6	601719	4853194	Water Supply
4906483	1985-09-10	77.7	-	47.5	600264	4858447	Water Supply
4906516	1986-10-11	13.7	-	-	598227	4857340	Water Supply
4906517	1986-03-28	41.1	-	4.3	599442	4857415	Water Supply
4906518	1986-06-20	43.6	-	18.9	599406	4863109	Water Supply
4906530	1986-01-04	22.6	-	3	602338	4856476	Water Supply
4906532	1986-01-05	23.2	-	3	602349	4856480	Water Supply
4906552	1986-11-15	57.9	-	17.1	599468	4861028	Water Supply

Well ID	Date Completed	Depth of Well (m)	Depth of Bedrock (m)	Static Level (m)	UTM Zone 17		Well Type
					Easting	Northing	
4906568	1987-01-11	44.2	-	15.8	599729	4862783	Water Supply
4906569	1987-01-27	47.2	-	12.8	599694	4862812	Water Supply
4906643	1986-08-30	27.7	-	-	598904	4857852	Water Supply
4906653	1987-06-21	52.4	41.8	19.5	601177	4856653	Water Supply
4906672	1986-05-20	29	-	3	599231	4857570	Water Supply
4906769	1987-10-13	33.5	32.9	1.8	601287	4861341	Water Supply
4906797	1987-11-10	-	-	-	598651	4857730	Water Supply
4906852	1988-03-30	22.9	-	3	604005	4854905	Water Supply
4906866	1988-06-16	72.2	-	40.5	599082	4858963	Water Supply
4906980	1988-11-20	18.9	-	6.1	602263	4854606	Water Supply
4907054	1988-12-23	134.1	-	51.8	599743	4859134	Observation Wells
4907247	1989-09-28	27.7	-	6.1	602055	4856768	Water Supply
4907252	1990-01-10	35.7	-	18.9	601645	4861797	Water Supply
4907271	1989-01-17	156.1	149.4	51.8	599750	4859127	Test Hole
4907272	1989-01-24	139.6	108.8	52.7	599737	4859114	Observation Wells
4907295	1990-04-18	42.7	-	-	598207	4857250	Water Supply
4907299	1990-04-25	37.5	-	0.3	597519	4856424	Water Supply
4907399	-	36	28.3	6.7	598635	4858225	Water Supply
4907464	1991-01-04	121.9	28	-	602309	4854549	Water Supply
4907506	1991-02-01	-	-	2.4	602309	4854549	Water Supply
4907515	1991-03-02	19.8	-	6.1	602311	4854578	Water Supply
4907545	1990-09-21	24.4	12.2	6.4	604351	4854162	Water Supply
4907815	1993-09-03	18.3	-	3	601630	4856207	Water Supply
4907950	1994-12-21	51.8	18	4	601488	4855371	Water Supply
4907957	1994-03-19	48.8	-	0.6	599836	4857880	Test Hole
4907958	1994-04-07	96.9	90.5	-	599836	4857880	Test Hole
4908023	1995-08-11	43	-	22.9	599090	4861428	Water Supply
4908027	1995-08-16	39.6	-	0.3	597914	4856940	Water Supply
4908189	1996-12-03	72.2	64.3	-	597481	4856508	Test Hole

Approval Number	Business Name	Address	Municipality	Postal Code	Date	Approval Type	Status	MECP Office	SP Area
R-009-7112528652	The Regional Municipality of Peel	-	-	-	2023-10-31	EASR-Water Taking - Construction Dewatering	REGISTERED	Halton-Peel	Toronto
R-009-1110130448	King Station Facility Inc.	232 Kint St. W.	Bolton	L7E 2R7	2017-04-28	EASR-Water Taking - Construction Dewatering	REGISTERED	Halton-Peel	Toronto

Appendix 2D

Archaeological Assessment Reports

ARCHEOWORKS INC.

Stage 1 Archaeological Assessment for the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment Within Lots 15-17, Concessions 8 to 12 (Northern Division) in the Geographic Township of Toronto Gore Lots 1-17, Concessions 2-7, Lots 6-17, Concession 8, Lots 11-16, Concession 9 and Lot 16, Concession 10 in the Geographic Township of Albion Historic County of Peel Now in the Town of Caledon and City of Brampton Regional Municipality of Peel (Peel Region) Ontario

Project #: 334-PE2116-22
Licensee (#): Kim Slocki (P029)
PIF #: P029-1153-2024

Original Report

May 9, 2025

Presented to:
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EXECUTIVE SUMMARY

The *Peel Region* has initiated the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment (EA) to evaluate all potential alternatives to develop the optimal water and wastewater servicing solutions to meet existing needs and growth within the vicinity of Bolton.

To facilitate this study, *Archeoworks Inc*. was retained to conduct a Stage 1 AA of a general study area that is roughly bounded by Castlederg Side Road in the northwest (in this report, to be simplified to "north"), Caledon-King Townline/Albion-Vaughan Road/Highway 50 to the northeast ("east"), Countryside Drive to the southeast ("south") and McVean Drive/Centreville Creek Road to the southwest ("west"), in the Town of Caledon and City of Brampton, Peel Region. The general study area encompasses Lots 15 to 17 of Concessions 8 to 12 (Northern Division) of the Geographic Township of Toronto Gore; Lots 1 to 17 of Concessions 2 to 7, Lots 6 to 17 of Concession 8, Lots 11 to 16 of Concession 9, and Lot 16 of Concession 10 in the Geographic Township of Albion, historic County of Peel ("the general study area" or "study area"). A smaller portion of the larger study area — encompassing lands within the rights of-way of King Street/Regional Road 9, Emil Kolb Parkway/Regional Road 150 (plus two areas outside the current right-of-way limit), Highway 50, Columbia Way and Mount Hope Road; and lands within municipal addresses 14475 Highway 50 and 14530 Mount Hope Road — has also been identified as a "Focus Area."

Background research identified elevated potential for the recovery of archaeologically significant materials within the study area due to the presence of water sources, documented pre-ca.1900 Euro-Canadian settlements and historic settlement roads, as well as numerous designated and listed cultural heritage resources. Additionally, ten historic cemeteries and 138 archaeological sites were identified within the study area limits.

Using the data collected from background research and the results of the property inspection within the Focus Area, the following recommendations are presented (recommendations specific to the Focus Area underlined):

1. Waterbodies cannot be assessed under the *2011 S&G*. However, waterbodies within the study area retain potential for marine archaeological sites. Therefore, projects involving in-water impacts must be evaluated for marine-based archaeological potential using the *Ministry of Citizenship and Multiculturalism (MCM)'s Criteria for Evaluating Marine Archaeological Potential* checklist, and a marine archaeological investigation undertaken by a licensed marine archaeologist must be carried out if determined to be necessary.

   Specifically relevant to the Focus Area: prior to in-water impacts, the bodies of water in the east end of 14475 Highway 50 will need to be evaluated for marine archaeological potential.

2. Lands which have already been subjected to a previous archaeological assessment (Stage 1 AA, Stage 2 AA, Stage 3 AA and/or Stage 4 Mitigation), deemed free of further archaeological concern, have no recommendations for further work and/or determined to no longer retain cultural heritage value or interest (CHVI) — and with the associated report accepted by the *MCM* into the *Ontario Public Register of Archaeological Reports* — are recommended to be exempt from further assessment. No further work is required within the scope of this project.

   Specifically within the Focus Area: most of the lands within the current ROW limits of Emil Kolb Parkway/Regional Road 150 and Columbia Way, as well as segments of King Street/Regional Road 9 and Highway 50, require no further assessment.

3. Should project plans involve proposed impacts to or in the immediate vicinity of archaeological sites for which remaining archaeological concerns have been addressed, but the associated fieldwork reports are still in the draft stage or are awaiting *MCM* approval — H1 (AkGw-495); H2 (AkGw-496); H1 (AkGw-507); H2 (AkGw-508); H1 (AkGw-512); W. Jaffery (AlGw-192); AlGw-201; AlGw-202; O'Leary (AlGw-203); Mary (AlGw-204); AlGw-205; and P3 (AlGw-219) — renewed review of the associated fieldwork reports is required in order to confirm whether or not these sites (or portions thereof) still retain CHVI and thereby inform appropriate strategies.

4. Should project plans involve proposed impacts to or in the immediate vicinity of archaeological sites previously determined to require either Stage 3 AA or Stage 4 mitigation — Solmar H1 (AlGw-125); Solmar H2 (AlGw-126); Solmar H3 (AlGw-127); Solmar H4 (AlGw-128); Solmar H6 (AlGw-130); AlGw-134, AlGw-135, AlGw-136, AlGw-137; AlGw-138; AlGw-141; AlGw-142; AlGw-146; AlGw-182; Glacial Loss (AlGw-209); Location 1 (AlGw-213); H4 (AlGw-214); H5 (AlGw-215); H2 (AlGw-216); H3 (AlGw-217); and H6 (AlGw-218) — as well as the rear lawn of the Shore-Wakely House (13304 Coleraine Drive), the appropriate stage of archaeological investigation in accordance with recommendations in their respective reports must be carried out.

   Specifically relevant to the Focus Area: should project designs involve impacts to the fields on which the sites AlGw-135 and AlGw-137 (i.e., along the west side of Highway 50) and AlGw-218 (i.e., along the west side of Mount Hope Road) are situated, further Stage 3 AA will be required. Furthermore, should construction impacts extend right up to the ROW limit in any of these aforementioned areas:
   a. For each of the sites the proponent must erect a temporary barrier along the limit of the project area, issue “no-go” instructions to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction, and show the location of the area to be avoided, with explicit instructions or labelling to avoid that area, on all contract drawings, when available.
   b. A licensed archaeologist must inspect and monitor the area to be avoided during grading or other soil-disturbing activities to verify the effectiveness of avoidance

strategies. If alteration of the archaeological site is observed at any time during the construction, the MCM must be notified immediately.

c. Following the completion of the grading and other soil disturbing activities, a licensed archaeologist must inspect and file a Stage 4 avoidance and protection report to the MCM on the effectiveness of the strategy in ensuring that the area to be avoided remains intact.

5. Should project plans involve proposed impacts to or in the immediate vicinity of the unregistered artifact scatter depicted in the report tied to PIF# P059-321-2010 a renewed Stage 2 AA must be carried out beforehand to more clearly identify whether further Stage 3 AA is merited. This recommendation is subject to change pending the receipt and review of the report with the corrected text.

6. Should project plans involve proposed impacts to or in the immediate vicinity of archaeological sites with sparse information or imprecise recommendations — namely, John Laughlin (AkGw-66); AkGw-317; AkGw-318; AkGw-319; Harper (AlGw-3); Goodfellow (AlGw-4); Castlederg (AlGw-7); Judge (AlGw-8); G. Robinson (AlGw-10); J. Downey (AlGw-11); Grogan (AlGw-12); AlGw-17; Burns/C. Saunders (AlGw-19); Belly (AlGw-25); Conolly (AlGw-26); Edge (AlGw-27); Beesting (AlGw-28); Lotor (AlGw-31); Westlake (AlGw-32); Fleming Shaw Site (AlGw-45); Samuel Walford House (AlGw-51); Peel 7-15 (AlGw-87), Peel 7-12 (AlGw-117); Peel 7-13 (AlGw-118); Peel 5-5 (AlGw-99); Peel 5-IF.1 (AlGw-100); Peel 5-IF.2 (AlGw-101); Peel 5-IF.3 (AlGw-102); Peel 5-IF.4 (AlGw-103); Peel 5-IF.5 (AlGw-104); Peel 6-6 (AlGw-105); Peel 6-7 (AlGw-106); Peel 6-8 (AlGw-107); Peel 6-9 (AlGw-108); Peel 6-10 (AlGw-109); Peel 6-11 (AlGw-110); Peel 6-12 (AlGw-111); Peel 6-IF.1 (AlGw-112); Peel 6-IF.2 (AlGw-113); Peel 6-IF.3 (AlGw-114); Peel 6-IF.4 (AlGw-115); Peel 6-IF.5 (AlGw-116) — a Stage 2 AA must be carried out beforehand to more clearly identify whether further Stage 3 AA is merited.

7. Should project plans involve impacts to unassessed lands immediately outside the current Emil Kolb Parkway/Regional Road 150 ROW limit where the extension of the Harper Site (AlGw-172) lies, a Stage 2 AA must be carried out to assess the state of the remainder of this archaeological site, and more clearly identify whether further Stage 3 AA and/or Stage 4 mitigation is merited.

   <u>Specifically relevant to the Focus Area</u>, should construction impacts extend right up to the ROW limit in the vicinity of the Harper Site (AlGw-172) extension:

   a. The proponent must erect a temporary barrier along the limit of the project area, issue “no-go” instructions to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction, and show the location of the area to be avoided, with explicit instructions or labelling to avoid that area, on all contract drawings, when available.
   b. A licensed archaeologist must inspect and monitor the area to be avoided during grading or other soil-disturbing activities to verify the effectiveness of avoidance

strategies. If alteration of the archaeological site is observed at any time during the construction, the MCM must be notified immediately.

c. Following the completion of the grading and other soil disturbing activities, a licensed archaeologist must inspect and file a Stage 4 avoidance and protection report to the MCM on the effectiveness of the strategy in ensuring that the area to be avoided remains intact.

8. Should project plans involve impacts to unassessed lands immediately south of the mitigated portion of the Lougheed Site (AlGw-194), a Stage 2 AA must be carried out to assess the state of the presumed extension of this archaeological site, and more clearly identify whether further Stage 3 AA and/or Stage 4 mitigation is merited.

9. Parts of the study area that were identified as having archaeological potential removed (i.e., areas of deep and extensive disturbances) are exempt from requiring Stage 2 AA; the extents of these areas are to be confirmed through a detailed on-site property inspection during a Stage 2 AA as per *Section 2.1.8* of the *2011 S&G*.

   Specifically within the Focus Area, this includes: the paved road platforms and associated roadside ditching along King Street/Regional Road 9, Highway 50 and Mount Hope Road; the extant driveways of 8264, 8286 and 8302 King Street, 14219 Emil Kolb Parkway, 14245, 14289, 14291, 14337, 14442, 14445 Highway 50; 9408 Columbia Way; 14190, 14195, 14320, 14383, 14395, 14400, 14409, 14414, 14421, 14432, 14461, 14559, 14676, 14690 Mount Hope Road; the cut slope and road embankment along Mount Hope Road; and the abandoned road alignment at the side of Emil Kolb Parkway just east of the Humber River.

10. Parts of the general study area that were identified as having no or low archaeological potential (i.e., areas of saturated conditions or steep slope) are exempt from requiring Stage 2 AA; the extents of these areas are to be confirmed through a detailed on-site property inspection during a Stage 2 AA.

    Specifically within the Focus Area: areas that have been confirmed through property inspection as exhibiting saturated soil conditions — namely portions of the Highway 50 and Mount Hope Road ROWs, and the westernmost edge of the 14475 Highway 50 property — are exempt from requiring further Stage 2 AA.

11. As per the *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 no intrusive activity may occur within the Albion Presbyterian Cemetery, Bolton Anglican & Methodist Cemeteries, Bolton Congregational Cemetery, Columbia Primitive Methodist Cemetery, Castlederg Wesleyan Methodist Cemetery, Godbolt Primitive Methodist Cemetery, Laurel Hill Cemetery, Plummer Family Cemetery, Shiloh Cemetery and St. Patrick's Roman Catholic Cemetery without consent from the cemetery operator and the *BAO*.
    a. Should lands within the current municipally recognized cemetery limits of each of the aforementioned cemeteries be proposed to be impacted, additional

archaeological investigation (e.g., Stage 1 background research and optional property inspection; Stage 2/3/4 investigations; construction monitoring) is required. A Cemetery Investigation Authorization (CIA) issued by the *Bereavement Authority of Ontario* is also required and needs to be obtained prior to conducting any soil-intrusive work (e.g., Stage 2/3/4 investigations; construction monitoring).

12. Should proposed construction impacts extend beyond the limits of the Focus Area and occur within the swaths of land immediately adjacent to the Albion Presbyterian Cemetery, Bolton Anglican & Methodist Cemeteries, Bolton Congregational Cemetery, Columbia Primitive Methodist Cemetery, Castlederg Wesleyan Methodist Cemetery, Godbolt Primitive Methodist Cemetery, Laurel Hill Cemetery, Plummer Family Cemetery, Shiloh Cemetery and St. Patrick's Roman Catholic Cemetery, further Stage 1 archaeological assessment consisting of more comprehensive background research (including documentary research) and property inspection, is required to determine the potential to encounter unmarked burials within 20 metres of the assumed boundaries of each cemetery and to determine the appropriate Stage 2/3/4 fieldwork strategies if necessary. It must be noted, however, that previous archaeological investigations have been carried out in the immediate vicinity of certain cemeteries, for which specific recommendations still stand:
    a. Should project plans involve proposed impacts to lands in the immediate vicinity of the Albion Presbyterian Cemetery (AlGw-123), a renewed Stage 1 and 2 AA, followed by a Stage 3 investigation by mechanical topsoil removal, is required. This recommendation is subject to change pending the receipt and review of the concerned ca. 2007 report.
    b. Should project plans involve proposed impacts to lands in the immediate vicinity of the St. Patrick's Catholic Cemetery, it must be noted that specific recommendations apply to areas in the north and west: a licensed archaeologist is required to monitor construction work in these areas (PIF# P013-1153-2016). However, the remaining edges of the cemetery still require further investigation prior to construction impacts.
    c. The frontage of Shiloh Cemetery within the existing Highway 50 ROW has been determined to no longer retain potential for burials or archaeological resources (PIF# P094-097-2011). However, the remaining edges of the cemetery still require further investigation prior to construction impacts.

13. All other areas identified as retaining archaeological potential must be subjected to a Stage 2 AA. These areas must be subjected to pedestrian or test pit survey, as appropriate, at five-metre intervals in accordance with the standards set within *Sections 2.1.1* and *2.1.2* of the *2011 S&G*.

    <u>Specifically within the Focus Area, these include:</u>
    - Within the current King Street/RR 9 ROW limits:
        - Strips of land fronting 8264, 8286 and 8302 King Street, between the north side ditching and the ROW limit.

- Within the current Emil Kolb Parkway/RR 150 ROW limits:
  - Strip of land fronting 14219 Emil Kolb Parkway, between the east side ditching and the ROW limit.
  - Strip of land extending westward from the Highway 50–Emil Kolb Parkway intersection, between the row of coniferous trees and the ROW limit/row of deciduous trees.
- Immediately outside the Emil Kolb Parkway/RR 150 ROW limits:
  - Undisturbed lands flanking the old road alignment just east of the Humber River crossing.
  - Undisturbed land at the southwest corner of the Duffys Lane–Emil Kolb Parkway intersection.
- Within the current Highway 50 ROW limits:
  - Undisturbed lands flanking the road, between the roadside ditching and the ROW limit, except for areas of saturated soil conditions.
- Within private lands between Highway 50 and Mount Hope Road:
  - The agricultural field and wooded areas of 14475 Highway 50.
- Within the current Mount Hope Road ROW limits:
  - Undisturbed lands flanking the road, between the roadside ditching and the ROW limit, except for areas of saturated soil conditions, cut slope and road embankments.

No construction activities shall take place within the study area prior to the *Ministry of Citizenship and Multiculturalism* (Archaeology Programs Unit) confirming in writing that all archaeological licensing and technical review requirements have been satisfied.

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PROJECT PERSONNEL

Project Director ..... Kim Slocki – MCM licence P029

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Historical Research..... Lee Templeton

Report Review ..... Kim Slocki – MCM licence P029

1.0 PROJECT CONTEXT

1.1 Objectives

The objectives of a Stage 1 Archaeological Assessment (AA), as outlined by the 2011 *Standards and Guidelines for Consultant Archaeologists* (‘*2011 S&G’*) published by the *Ministry of Citizenship and Multiculturalism* (*MCM*) (2011), are as follows:

- To provide information about the property’s geography, history, previous archaeological fieldwork and current land condition;
- To evaluate in detail the property’s archaeological potential, which will support recommendations for Stage 2 survey for all or parts of the property; and
- To recommend appropriate strategies for Stage 2 survey.

1.2 Development Context

Peel Region has initiated the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment (EA) to evaluate all potential alternatives to develop the optimal water and wastewater servicing solutions to meet existing needs and growth within the vicinity of Bolton.

To facilitate this study, *Archeoworks Inc*. was retained by *GM BluePlan Engineering Limited* to conduct a Stage 1 AA of a general study area that is roughly bounded by Castlederg Side Road in the northwest (in this report, to be simplified to “north”), Caledon-King Townline/Albion-Vaughan Road/Highway 50 to the northeast (“east”), Countryside Drive to the southeast (“south”) and McVean Drive/Centreville Creek Road to the southwest (“west”), in the Town of Caledon and City of Brampton, Region of Peel (***see Appendix A – Map 1***). This area of land will henceforth be referred to as the “general study area.” The general study area encompasses Lots 15 to 17 of Concessions 8 to 12 (Northern Division) of the Geographic Township of Toronto Gore; Lots 1 to 17 of Concessions 2 to 7, Lots 6 to 17 of Concession 8, Lots 11 to 16 of Concession 9, and Lot 16 of Concession 10 in the Geographic Township of Albion, historic County of Peel.

A smaller “Focus Area” has also been identified (***see Appendix A – Map 1***). It encompasses the rights-of-way (ROWs) of King Street/Regional Road 9, Emil Kolb Parkway/Regional Road 150 (plus two areas immediately outside of the ROW), Highway 50, Columbia Way and Mount Hope Road, as well as portions of two properties lying between Highway 50 and Mount Hope Road (14475 Highway 50 and 14530 Mount Hope Road). A more detailed assessment of this Focus Area will be presented in the report.

The Stage 1 AA was triggered by the Ontario *Environmental Assessment Act* and is in support of a Phases 1 and 2 of a study that is being conducted as a Schedule ‘C’ project under the Municipal Engineers Association’s Municipal Class Environmental Assessment (MCEA) document, amended

March 2023. It was conducted under the project direction of Ms. Kim Slocki, under archaeological consultant licence number P029, in accordance with the *Ontario Heritage Act* (1990; amended 2021) and *2011 S&G*. Permission to investigate the study area was granted by *GM BluePlan Engineering Limited* on April 13th, 2023.

1.3 Historical Context

To establish the historical context and archaeological potential of the study area, *Archeoworks Inc.* conducted a review of Indigenous and Euro-Canadian settlement history, and a review of historical mapping, topographic mapping, aerial photographs and orthophotographs. The results of this background research are documented below and summarized in **Appendix C – Summary of Background Research**.

1.3.1 Pre-Contact Period

The pre-contact period of Southern Ontario includes numerous Indigenous groups that continually progressed and developed within the environment they inhabited (Ferris, 2013, p.13). **Table 1** includes a brief overview and summary of the pre-contact Indigenous history of Southern Ontario.

Table 1: Pre-Contact Period

Period	Date Range	Overview and Attributes
PALEO (Early)		
Early	ca. 11000 to 8500 BC	Small groups of nomadic hunter-gatherers who utilized seasonal and naturally available resources; sites are rare; hunted in small family groups who periodically gathered into larger groups/bands during favourable periods in the hunting cycle; campsites used during travel episodes and found in well-drained soils in elevated situations; sites also found along glacial features (e.g., glacial lake shorelines/strandlines) due to current understanding of regional geological history; artifacts include fluted and lanceolate stone points, scrapers and dart heads. - Gainey, Barnes, Crowfield Fluted Points (Early Paleo) - Holcombe, Hi-Lo, Lanceolates (Late Paleo) (Ellis and Deller, 1990, pp.37-64; Ellis, 2013, p.37; Wright, 1994, p.25).
Late	ca. 8500 to 7500 BC	
ARCHAIC (Middle)		
Early	ca. 7800 to 6000 BC	Descendants of Paleo ancestors; lithic scatters are the most commonly encountered site type; trade networks appear; artifacts include reformed fluted and lanceolate stone points with notched bases to attach to wooden shaft; ground-stone tools shaped by grinding and polishing; stone axes, adzes and bow and arrow; Shield Archaic in Northern Ontario introduced copper tools. - Side-notched, corner-notched, bifurcate projectile points (Early Archaic) - Stemmed, Otter Creek/Other Side-notched, Brewerton side and corner-notched projectile points (Middle Archaic) - Narrow Point, Broad Point, Small Point projectile points (Late Archaic)
Middle	ca. 6000 to 2000 BC	

Period	Date Range	Overview and Attributes
Late	ca. 2500 to 500 BC	(Dawson, 1983, pp.8-14; Ellis et al., 1990, pp.65-124; Ellis, 2013, pp.41-46; Wright, 1994, pp.26-28). *Oral Traditions* Oral traditions of the Algonquian-speaking *Michi Saagiig* (Mississauga Anishinaabeg) assert that they, "are the descendants of the ancient peoples who lived in Ontario during the Archaic and Paleo-Indian periods" (Gitiga Migizi and Kapyrka, 2015, p.1).
WOODLAND (Late)		
Early	ca. 800 BC to AD 1	Evolved out of the Late Archaic Period; introduction of pottery (ceramic) where the earliest were coil-formed, under fired and likely utility usage; two primary cultural complexes: Meadowood (broad extent of occupation in southern Ontario) and Middlesex (restricted to Eastern Ontario); poorly understood settlement-subsistence patterns; artifacts include cache blades, and side-notched points that were often recycled into other tool forms; primarily Onondaga chert; intensive exploitation of quarries in southeastern Ontario; commonly associated with Saugeen and Point Peninsula complexes. - Meadowood side-notched projectile points (Dawson, 1983, pp.15-19; Ferris and Spence, 1995, pp.89-97; Gagné, 2015; Spence et al., 1990, pp.125-142; Williamson, 2013, pp.48-61; Wright, 1994, pp.29-30).
Middle	ca. 200 BC to AD 700	Three primary cultural complexes in Southern Ontario: Point Peninsula (generally located throughout south-central and eastern Southern Ontario), Saugeen (generally located southwestern Southern Ontario), and Couture (generally located in southwestern-most part of Ontario); "given the dynamics of hunter-gatherer societies, with high levels of interaction and intermarriage among neighbouring groups, one would not expect the existence of discrete cultures" and the "homogeneity of these complexes have been challenged" (Ferris and Spence, 1995, p.98); introduction of large "house" structures and substantial middens; settlements have dense debris cover indicating increased degree of sedentism; incipient horticulture; burial mounds present; shared preference for stamped, scallop-edged or tooth-like decoration, but each cultural complex had distinct pottery forms; Laurel Culture (ca. 500 BC to AD 1000) established in boreal forests of Northern Ontario. - Saugeen Point projectile points (Saugeen) - Vanport Point projectile points (Couture) - Snyder Point projectile points - Laurel stemmed and corner-notched projectile points (Dawson, 1983, pp.15-19; Ferris and Spence, 1995, pp.97-102; Gagné, 2015; Hessel, 1993, pp.8-9; Spence et al., 1990, pp.142-170; Williamson, 2013, pp.48-61; Wright, 1994, pp.28-33; Wright, 1999, pp.629-649).
Late Woodland		
Late (Transitional)	ca. AD 600 to 1000	Earliest Iroquoian development in Southern Ontario is Princess Point which exhibits few continuities from earlier developments with no apparent predecessors; hypothesized to have migrated into Ontario, but more recent research of ceramic data from the Rice Lake-Trent River region determined early Iroquoian development to be an *in situ* cultural development (Curtis, 2014, p.190); the settlement data is limited, but oval houses are present; introduction of maize/corn horticulture; artifacts include 'Princess Point Ware' vessels that are cord roughened, with horizontal lines and exterior punctation; smoking pipes and

<table>
<tr><th>Period</th><th>Date Range</th><th>Overview and Attributes</th></tr>
<tr><td></td><td></td><td>ground stone tools are rare; continuity of Princess Point and Late Woodland Iroquoian groups.
- Triangular projectile points
(Ferris and Spence, 1995, pp.102-106; Fox, 1990, pp.171-188; Gitiga Migizi and Kapyrka, 2015, pp.1-3).
Oral Traditions
According to their oral traditions, the north shore of Lake Ontario in Southern Ontario was occupied throughout the entire Late Woodland Period by the Michi Saagiig (Mississauga Anishinaabeg); their traditional territory extended north where they would hunt and trap during the winter months, followed by a return to Lake Ontario in the spring and summer; “the traditional territories of the Michi Saagiig span from Gananoque in the east, all along the north shore of Lake Ontario, west to the north shore of Lake Erie at Long Point. The territory spreads as far north as the tributaries that flow into these lakes, from Bancroft and north of the Haliburton highlands” (Gitiga Migizi and Kapyrka, 2015, p.1); oral traditions speak of people (the Iroquois) coming into their territory between AD 500-1000 who wished to establish villages and grow corn; treaties were made allowing the Iroquois to stay in their traditional territories (Gitiga Migizi and Kapyrka, 2015, pp.1-3).
This oral tradition is not supported by other First Nation communities based on both archaeological evidence and other oral traditions (see Appendix C).</td></tr>
<tr><td>Early</td><td>ca. AD 900 to 1300</td><td>Two Iroquoian cultures in Southern Ontario: Glen Meyer (located primarily in southwestern Ontario from Long Point on Lake Erie to southwestern shore of Lake Huron) and Pickering (encompassed north of Lake Ontario to Georgian Bay and Lake Nipissing); the abandonment of these two phases “were expressed early on, with the recognition that local site sequences were more or less continuous through what has been classified as distinct phases” (Birch, 2015, p.271); early houses were small and elliptical; developed into multi-family longhouses and some small, semi-permanent palisade villages; adoption of greater variety of harvest goods; increase in corn-yielding sites; well-made and thin-walled clay vessels with stamping, incising and punctation; crudely made smoking pipes, and worked bone/antler present; evolution of ossuary burials; grave goods are rare and not usually associated with a specific individual.
- Triangular-shaped, basally concave projectile points with downward projecting corners or spurs
(Ferris and Spence, 1995, pp.106-109; Williamson, 1990, pp.291-320).</td></tr>
<tr><td>Middle</td><td>ca. AD 1300 to 1400</td><td>Two Iroquoian cultures in Southern Ontario: Uren and Middleport; increase in village sizes (0.5 to 1.7 hectares) and campsites (0.1 to 0.6 hectares) appear; some with palisades; classic longhouse takes form; increasing reliance on maize and other cultigens such as beans and squash; intensive exploitation of locally available land and water resources; decorated clay vessels decrease; well-developed clay pipe complex that includes effigy pipes; from Middleport emerged the Huron-Wendat, Petun, Neutral Natives and the Erie.
- Triangular and (side of corner or corner removed) notched projectile points
- Middleport Triangular and Middleport Notched projectile points
(Dodd et al., 1990, pp.321-360; Ferris and Spence, 1995, pp.109-115).</td></tr>
<tr><td>Late</td><td>ca. AD 1400 to 1600</td><td>Iroquoian groups include the Huron-Wendat to the east of the Niagara Escarpment, the Neutral Natives to the west of the Niagara Escarpment and the Petun in the Blue Mountain region; Huron-Wendat “villages are distributed in clusters along the north shore of Lake Ontario from just west of Toronto to Belleville and north in a</td></tr>
</table>

Period	Date Range	Overview and Attributes
		triangular area bounded on the Northeast by the Trent River system, and on the west roughly by the Niagara escarpment" (Ramsden, 1990, p.363); within this large area, Huron-Wendat "concentrations of sites occur in the areas of the Humber River valley, the Rouge and Duffin Creek valleys, the lower Trent valley, Lake Scugog, the upper Trent River and Simcoe County" (Ramsden, 1990, p.363); longhouses; villages enlarged to 100 longhouses clustered together as horticulture (maize, squash and beans) gained importance in subsistence patterns; villages chosen for proximity to water, arable soils, available fire wood and defendable position; diet supplemented with fish; ossuaries; tribe/band formation; gradual relocation to north of Lake Simcoe. Neutral (called *Attiewandaron* by the Huron-Wendat) Natives distributed west of the Niagara Escarpment, around the western end of Lake Ontario and eastward across the Niagara Peninsula to Lake Erie; sites also found in the Grand River area and as far as Milton in the east; varying settlements include villages up to five acres in size to isolated fishing cabins; villages tend to be located along smaller creeks, headwaters and marshlands; diet dependent on hunting, gathering, fishing and farming; longhouses present; ossuaries; tribe/band formation; theorized that Credit River may have functioned as a boundary marker between the ancestral Neutral Natives and Huron-Wendat peoples. The Petun (*Tionnontaté* or *Khionontateronon*) were located along the Blue Mountains to the north and have been theorized to have arrived ca. 1580 from Neutral territory; the Grand River headwaters are located in the northwest corner of Dufferin County and the Petun are believed to have utilized Dufferin County (northwest of the study area) as hunting territory. - many trails used throughout the area including the Toronto Carrying Place Trail which travelled along the Humber River and the Rouge River connecting Lake Ontario to Lake Simcoe. (Ferris and Spence, 1995, pp.115-122; Garrad, 2014, pp.1, 147-148; Heidenreich, 1978, pp.368-388; Lennox and Fitzgerald, 1990, pp.405-456; Ramsden, 1990, pp.361-384; Sawden, 1952, p.7; TRCA, 2007, p.9; Warrick, 2000, p.446; Warrick, 2008, p.15). *Oral Traditions* During this time, the Algonquian-speaking groups of the Anishinaabeg (e.g., Ojibway/Chippewa, Odawa, Mississaugas, Algonquin, and others) maintained stable relations with Iroquoian-speaking groups (e.g., Huron-Wendat, Neutral, Petun) who continued to establish settlements in Southern Ontario, according to *Michi Saagig* oral tradition (Gitiga Migizi and Kapyrka, 2015, p.1).

1.3.2 Contact Period

The contact period of Southern Ontario is defined by European arrival, interaction and influence with the established Indigenous communities of Southern Ontario. **Table 2** includes an overview of some of the main developments that occurred during the contact period of Southern Ontario.

Table 2: Contact Period

Period	Date Range	Overview and Attributes
European Contact	ca. AD 1600s	The Anishinaabeg (e.g., Mississauga, Ojibway, Chippewa, Odawa, Algonquin, and others) continued to inhabit Ontario, alongside Iroquoian-speaking groups such as the Huron-Wendat north of Lake Simcoe and the Neutral (*Attiewandaron*) in the Niagara Peninsula; inter-marriage between Algonquian- and Iroquoian-speaking groups; French arrival into Ontario; numerous Huron-Wendat villages north of Lake Simcoe in and around the City of Barrie ("Huronia"); extensive trade relationship with Huron-Wendat and French established; Neutral Natives clustered in the Niagara Peninsula; Neutral Natives referred to as *la Nation neutre* by Samuel de Champlain but limited European contact with Neutrals; the *Tionnontaté* or *Khionontateronon* were called 'Petun' a term meaning tobacco; little references to the Petun were made by fur traders leading to the belief that fur traders assumed they were similar to the Huron-Wendat; trade goods begin to replace traditional tools/items; Jesuit and Récollets missionaries; epidemics (Fox and Garrad, 2004, p.124; Garrad, 2014, pp.148, 167-168, 490; Garrad and Heidenreich, 1978, pp.395-396; Gitiga Migizi and Kapyrka, 2015, pp.1-3; Heidenreich, 1978, pp.368-388; Jury, 1974, pp.3-4; Lennox and Fitzgerald, 1990, pp.405-456; Trigger, 1994, pp.47-55; Warrick, 2008, pp.12, 245; White, 1978, pp.407-411). *Oral Traditions* Mississauga Anishinaabeg oral traditions tell of Algonquian-speaking groups wintering with Iroquoian neighbours, resulting in a complex archaeological record; oral traditions also speak of Anishinaabeg "paddling away" to their northern hunting territories to escape disease and warfare in southern Ontario at this time (Gitiga Migizi and Kapyrka, 2015, pp.1-3).
Five Nations of Iroquois (Haudenosaunee)	ca. AD 1650s	The Five (later Six) Nations (Mohawk, Seneca, Oneida, Onondaga and Cayuga; later included the Tuscarora) of Iroquois (or Haudenosaunee), originally located south of the Great Lakes, engaged in warfare with Huron-Wendat neighbours as their territory no longer yielded enough furs; the Five Nations, armed with Dutch firearms, attacked and destroyed numerous Huron-Wendat villages in 1649-50; the groups that remained became widely dispersed throughout the Great Lakes region but remained an independent Nation; the Huron-Wendat ultimately resettled near Quebec City (forming the oldest First Nations community in Canada), in southwestern Ontario and in America; to prevent the revival of Huron-Wendat settlements, the Five Nations attacked and destroyed the villages of the Huron-Wendat allies, the Petun Natives; in 1650, what remained of the Petun Natives migrated through Neutral Native territory; the Five Nations attacked Neutrals ca.1650s and caused their dispersal; the Five Nations established settlements along the northern shoreline of Lake Ontario at strategic locations along canoe-and-portage routes and used this territory for extensive fur trade; European fur trade and exploration continued (Abler and Tooker, 1978, p.506; Gitiga Migizi and Kapyrka, 2015, p.2; Robinson, 1965, pp.15-16; Schmalz, 1991, pp.12-34; Trigger, 1994, pp.53-59; Williamson, 2013, p.60).

Period	Date Range	Overview and Attributes
Anishinaabeg Return (and Arrival)	ca. AD 1650s to 1700	Some narratives tell of Anishinaabeg groups either returning (Gitiga Migizi and Kapyrka, 2015, p.2) or moving by military conquest (MCFN, 2017) to southern Ontario in the 1690s; battles fought throughout, ultimately resulting in most of the Five Nations being driven out of Southern Ontario and returning to their lands south of the Great Lakes (and some remained in parts of Southern Ontario); the English referred to those Algonquian-speaking groups that settled in the area bounded by Lakes Ontario, Erie, and Huron as Chippewas or Ojibwas (Smith, 2002, p.107); '*Mississauga*' term applied to Anishinaabeg bands living on the north shore of Lake Ontario; they were focused on hunting/fishing/gathering with little emphasis on agriculture; temporary and moveable houses (wigwam) left little archaeological material behind; multiple settlements throughout Southern Ontario; the study area is within the traditional territory of the Mississaugas of the Credit First Nation who state they, "were the original owners of the territory embraced in the following description, namely commencing at Long Point on Lake Erie thence eastward along the shore of the Lake to the Niagara River. Then down the River to Lake Ontario, then northward along the shore of the Lake to the River Rouge east of Toronto then up that river to the dividing ridge to the head waters of the River Thames then southward to Long Point the place of the beginning" (Gibson, 2006, pp.35-41; Hathaway, 1930, p.433; Johnston, 2004, pp.9-10; McMillan and Yellowhorn, 2004, pp.110-111; MCFN, 2017; Smith, 2013, pp.16-20; Trigger, 1994, pp.57-59; Williamson, 2013, p.60).
Trade, Peace and Conflict	ca. AD 1700 to 1770s	Great Peace negotiations of 1701 in Montreal established peace around the Great Lakes; collectively referred to the Anishinaabeg and Five Nations of Iroquois as the First Nations; European commerce and exploration resumed; the Anishinaabeg continued to trade with both the English and the French; beginnings of the Métis and their communities; skirmishes between France and Britain as well as their respective First Nations allies erupt in 1754 ("French and Indian Wars") and forms part of the larger Seven Years' War; French defeat transferred the territory of New France to British control; Treaty of Paris (1763); Royal Proclamation of 1763 "states explicitly that Indigenous people reserved all land not ceded by or purchased from them" (Hall, 2019a); the Proclamation established framework for how treaties were negotiated (by only the King or an assigned representative of the King, and only at a public meeting called for this specific purpose) and established the "constitutional basis for the future negotiations of Indigenous treaties in British North America" (Hall, 2019a); the Proclamation established the British administration of North American territories ceded by France to Britain; uprising by several First Nations groups against British ("Pontiac's War"); fur trade continued until Euro-Canadian settlement (Abler and Tooker, 1978, pp.505-517; Hall, 2019a; Jaenen, 2013; Johnston, 2004, pp.13-14; Schmalz, 1991, pp.35-62, 81; Surtees, 1994, pp.92-97).
Early British Administration and Early Euro-Canadian Settlement	ca. AD 1770s to 1800s	American Revolutionary War (1775-1783) drove large numbers of United Empire Loyalists (those who were loyal to the British Crown), military petitioners, and groups who faced persecution in the United States to re-settle in Upper Canada; Treaty of Paris (1783) formally recognized the independence of the United States; Province of Quebec divided in 1791 into sparsely populated Upper Canada (now southern Ontario) and culturally French Lower Canada (now southern Quebec); Jay's Treaty of 1795 establishes American/Canadian border along the Great Lakes; large parts of Upper Canada opened to settlement from the British Isles and continental Europe after land cession treaties were negotiated by the British Crown with various First Nations groups (Government of Ontario, 2023; Hall, 2019b; Jaenen, 2014; Surtees, 1994, p.110; Sutherland, 2014).

Period	Date Range	Overview and Attributes
British Land Treaties	1805 to 1806	In 1805 a tract of land was ceded from the Mississauga that included lands "reaching from the Etobicoke Creek on the East for twenty-six miles westward to the outlet of Burlington Bay, these lands stretching back from the Lake shore line for from five to six miles to what we now know as the Second Concession North of Dundas (or Eglinton Avenue)" (Fix, 1967, p.13); the Mississauga obtained £1000 worth of goods and the right to retain their fishery sites at the mouths of the Credit River, Sixteen Mile Creek, and Twelve Mile Creek (Bronte Creek); this treaty, Treaty No.13a, included lands in the southern parts of the Township of Toronto in Peel County and Trafalgar and Nelson Townships in Halton County; a confirmatory surrender, Treaty No.14, was issued in 1806 and is known as the Head of the Lake Purchase (Department of Indian Affairs, 1891, pp.35-40; Government of Ontario, 2023; Loverseed, 1987, p.21; MCFN, 2020a; Surtees, 1994, p.110; Weaver, 1913, p.65).
British Land Treaties	1818	After the War of 1812, immigration from the United States came to a halt as a change in British policy discouraged Americans from taking residence in Canada and encouraged immigration from the British Isles; the remainder of the Mississauga Tract, within what is now the Regional Municipality of Peel, was purchased by William Claus in 1818; the area belonged to the Credit River Mississauga who, despite efforts from the Indian Department officials to protect them, found themselves victim to encroachment on their lands and fisheries by Euro-Canadian settlers; Ajetance, chief of the Credit River Mississauga, settled for goods in the value of £522.10 shilling annually per person in exchange for 648,000 acres of land; this second purchase (Treaty No.19 or the Ajetance Purchase) surrendered those lands within what would encompass the Township of Albion and the Township of Toronto Gore (Department of Indian Affairs, 1891, pp.iv, lviii; Government of Ontario, 2023; MCFN, 2020b; Surtees, 1994, pp.116-117).

1.3.3 Euro-Canadian Settlement Period (1800s to present)

1.3.3.1 Township of Albion

From 1818 to 1819, the Township of Albion was surveyed by William Chewett (Scheinman, 2009a, p.9-2; Pope, 1877, p.89). Official settlement in the area began soon afterwards, and by 1820 all the lots on the first concession were settled as far as Lot 38 (Heyes, 1961, p.11). Settlers in the southern part of the township recognized the agricultural potential of the rich soils and flat terrain, and focused on agriculture (Scheinman, 2009b, p.10-1). Settlers in the northern part of the Township of Albion navigated the difficult terrain and settled in plateau areas and along river valleys while attempting to farm (Scheinman, 2009a, p.9-7). Strands of mixed hardwood covering the Township of Albion were cleared by settlers, and by 1830 Albion had numerous prosperous wheat farms (Heyes, 1961, p.111). By 1840, after several years of severe agricultural depression, the export of Canadian wheat increased when new British Corn laws gave preferential treatment to Canadian wheat, and after 1853 European crop failure sent the prices of Canadian grain skyrocketing (Heyes, 1961, p.111). The Crimean War prevented supplies of Russian wheat from entering the European markets and brought the wheat prices still higher; farms throughout the township experienced great financial surplus (Heyes, 1961, p.111). The agricultural prosperity was short lived, and livestock husbandry stimulated the economy with emphasis placed on breeding high quality beef and dairy cattle (Heyes, 1961, p.113).

1.3.3.2 Township of Toronto Gore

The Township of Toronto Gore was named for its "peculiar shape, in being like a wedge introduced between the Townships of Chinguacousy, Toronto, Vaughan and Etobicoke" (Pope, 1877, p.88). The township was surveyed in the last half of 1818 and by 1820, the lands within Toronto Gore were made available for settlement (Thomas, 1967a, p.263; Mays, 1979, p.61). However, the purchase of these lots was slow due to the provincial government's initial decision to offer land for sale rather than 'free grants' as offered throughout the majority of Upper Canada (Mays, 1979, p.61). The earliest settlers to arrive in the Township of Toronto Gore were "from the old country, and were men of the right stamp to hew out homes in the new country" (Pope, 1877, p.88). These individuals were largely Irish (Tavender, 1984, p.8). The lands in Toronto Gore had been priced too high for new settlers who came to Upper Canada to escape the economic uncertainty of the United Kingdom and hoped to become self-sufficient farmers (Mays, 1979, p.80). The vacant purchasable land enticed land speculators who saw the advantage in purchasing large tracts of fertile land in close proximity to the markets in the Town of York (Toronto) for later resale at a higher value (Mays, 1979, p.82). However, of those early settlers able to afford the land patent, they became isolated amongst large tracts of wild land held by absentee landlords who did not maintain their properties. Furthermore, until 1831, Toronto Gore was under jurisdiction of Chinguacousy Township council as a consequence of low population numbers, leaving Toronto Gore without an administrative centre (Mays, 1979, p.82).

During the mid-19th century, there was a significant increase in immigration from the British Isles into Upper Canada placing a significant demand on all available land. Large tracts of land, once owned by absentee landlords who neglected to pay taxes, were subjected to repossession and resale at public auction (Mays, 1979, p.87). Ultimately, this repossession opened large amounts of available lands within the township to new settlers at prices equal to those located elsewhere in the Mississauga Purchase (Mays, 1979, p.88). By 1840, every lot within the township was sold and the soil was described as generally of loamy clay and considered the richest in the country (Pope, 1877, p.88; Tavender, 1984, p.8). By 1877, lands within the Township of Toronto Gore were in a "high state of cultivation, [were] thickly settled, and the inhabitants [took] great pride, not only in building fine commodious dwellings, but also in beautifying their grounds, giving the farms an appearance of comfort and taste" (Pope, 1877, p.88). The Township of Toronto Gore continued to improve throughout the remainder of the 19th century and into the 20th century.

After the Second World War, rapid urban growth in Toronto coupled with the growing use of the automobile made County of Peel even more accessible, and subdivision developments began to replace much of the countryside. With the reorganization of Peel County into a Regional Municipality (now Peel Region) in 1974, Brampton officially became a city, forming one of the Region's three lower-tier municipalities after the amalgamation of the Township of Chinguacousy, Toronto Gore and part of the Township of Toronto (City of Brampton, 2021).

1.3.3.3 Village of Bolton

Villages existed within the Township of Albion, such as Bolton, located around the intersection of County Road 50 and King Street. Initially named Bolton Mills, it was founded by James Bolton who came to Albion with his family in 1819 (Heyes, 1961, p.133). When George Bolton, James'

nephew, arrived in 1824, they began construction of a small-framed grist mill on part of James' property where the Humber River flowed (Pope, 1877, p.89). The mill became profitable as local farmers utilized the closer mill to process their wheat (Pope, 1877, p.89). Most early settlers to Bolton Mills were from England (Heyes, 1961, p.133)

By 1840, Bolton Mills boasted two stores, a distillery, post office, blacksmith shop, a shoemaker, a tailor, a tannery and a hotel (Scheinman, 2009c, p.11-2; Pope, 1877, p.89). In 1842, the first schoolhouse was opened and in the following year, a church structure was built of mud bricks by the Congregationalists and later, another by the Anglicans (Scheinman, 2009c, p.11-2).

By 1860, a soda-biscuit factory, steam bakery, a metal shop for tin and copper, a lawyer and doctor were available in Bolton Mills (Pope, 1877, p.89; Scheinman, 2009c, p.11-3). In 1872, the hamlet was incorporated, and it separated from the Township of Albion to become the Village of Bolton. Incorporation as a village accelerated the development of Bolton while the number of inhabitants and development in the township as a whole was declining (Heyes, 1961, p.135). The Toronto, Grey and Bruce Railway arrived in Bolton in 1873 and brought further prosperity to Bolton. By 1877, Bolton's inhabitants exceeded nine hundred individuals. However, by 1881 the population had dropped to 200-300 hundred individuals due to poor harvests forcing many young men into the cities (Heyes, 1961, p.136).

1.3.3.4 Community of Castlederg

Castlederg was located on a tributary of the Humber River, east of Highway 50. It was settled in about 1820. A post office was opened in 1861 under the name 'Mount Hurst' and John Wallace served as postmaster until the post office closed in 1918. In 1875, Mount Hurst was renamed Castlederg to commemorate the birthplace of John Wallace. Approximately 100 individuals resided in Castlederg in the early 1900s, and until 1974, it was a hamlet in the Township of Albion prior to be incorporated in the Town of Caledon (Mika and Mika, 1977, p.379).

1.3.3.5 Community of Columbia/Coventry

Coventry was originally known as Columbia. The community formed after Thomas Swinarton constructed a saw and grist mill on the tributary of the Humber River. In 1858 a post office was established in the community and Thomas Swinarton was the first postmaster; it was closed in 1913. By the 1860s, 100 indivduals resided in the village and there was a store, tannery, blacksmith, a school, a church with a graveyard and an inn. In 1873, it was described as, "a post village in Cardwell co., Ont., situated on a branch of the Humber, 3 miles from Bolton. Pop. 250" (Crossby, 1873, p.94). By the 19th century, the community was renamed Coventry and it remained a village in the Township of Albion prior to be incorporated in the Town of Caledon (LAC, 2023a; Lovell, 1857-58, p.111; Thomas, 1967b, p.229).

1.3.3.6 Community of Macville

Macville was originally known as McDougall's Corners after its founders, Daniel and John McDougall. Daniel McDougall was granted Lot 11, Concession 4 and Lot 10, Concession 5 as part of his United Empire Loyalist grant; John settled on Lot 11, and Daniel was on Lot 10. In 1855 a post office was established in the community and at this time, it is likely the community was

remained to Macville; it was closed in 1919. In 1873, it was described as, "a post village in Cardwell co., Ont., 3 miles from Bolton. It contains a hotel and 1 store. Pop.150" (Crossby, 1873, p.181; Heyes, 1961, pp.155-157; LAC, 2023b).

1.3.3.7 Community of Wildfield

The village of Wildfield is located at the intersection of The Gore Road and Mayfield Road. The village was founded around St. Patrick's Church and Cemetery, one of the earliest Roman Catholic churches in Upper Canada (Tavender, 1984, pp.47-48). It was formerly known as 'Grantuile', named after Simon Peter Grant, a wealthy Scottish settler who arrived in the area by 1833. It was also briefly named 'Gribbin' after Father John Joseph Gribbin who "approached the authorities [in] re-establishing a post office in the village" (Thomas, 1967a, p.268). By 1891, the village was renamed Wildfield.

1.3.4 Land Use History

1.3.4.1 Pre-1900 Land Use – Historic Maps Review

Several documents were reviewed to gain an understanding of the land use history and of the study area's potential for the recovery of historic pre-1900 remains, namely the 1859 *Tremaine's Map of the County of Peel* and the 1877 *Illustrated Historical Atlas of the County of Peel* (***see Maps 2-3; Table 3***).

Table 3: Summary of Structures and Property Owners/Occupants documented in the 1859 *Tremaine's Map* and the 1877 *Illustrated Historical Atlas* in the General Study Area

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
TOWNSHIP OF ALBION						
2	1	All, 200 ac	Mrs. Kerr	John Kerr	-	1 homestead
	2	W½, 100 ac	Wm. Wilson	Isaac Wilson	-	-
	2	E½, 100 ac	Wm. Shaw		-	1 homestead
	3	N½, 100 ac	Henry Proctor		-	-
	3	S½, 100 ac	Mrs. Kerr	Robert Kerr	-	-
	4	W½, 100 ac	Wm. Corkett	Geo. Corkett	-	-
	4	E½, 100 ac	Wm. Strong		-	1 homestead
	5	W½, 100 ac	Henry Strong		-	-
	5	E½, 100 ac	Patrick McGrath	Est. Hy. McGrath	-	1 homestead
	6	N½, 100 ac	John McCallen		-	
	6	SW¼, 50 ac	Thomas Kerby	James Strong	-	1 homestead; 1 church
	6	SE¼, 50 ac	Perry Lams		-	
	7	W½, 100 ac	Robert Lougheed		-	-
	7	E½, 100 ac	Joshua Dean	Adam Dean	-	1 homestead
	8	NW¼, 50 ac	James Armstrong		-	-
	8	SW¼, 50 ac	Wm. Lindsay		-	-
	8	E½, 100 ac	Brooks Toronto	Edward Gibson	-	1 homestead
	9	NW¼, 50 ac	Jos. Daly	Unlisted	-	-
	9	SW¼, 50 ac	Thomas Loe	James Armstrong	-	-
	9	E½, 100 ac	Wm. Bull	Thomas Hill	-	1 homestead

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
	10	N½, 100 ac	Thomas Anderson		-	1 homestead
	10	S½, 100 ac	Wm. Wilson	J.W. Wilson	1 homestead	1 homestead
	11	W½, 100 ac	Isaac Thompson		-	-
	11	E½, 100 ac	Chas. Northcote	Wm. Wilson	1 homestead	-
	12	W½, 100 ac	Walter Taylor		-	-
	12	E½, 100 ac	Chas Northcote		-	
	13	W½, 100 ac	Wm. Switzer	Est. Robt Shields	-	-
	13	E½, 100 ac	Robt Hannah		-	1 homestead
	14	W½, 100 ac	Wm. Elliott		-	-
	14	NE½, 100 ac	John McCauley	John McCauley	-	1 homestead
	14	SE½, 100 ac		Mrs. McCauley		1 homestead
	15	W½, 100 ac	Wm. Hannah		-	
	15	E½, 100 ac	John Shield	James Donaghy	-	3 homesteads
	16	W½, 100 ac	Wm. Long	John Goodeave	-	-
	16	E½, 100 ac	Wm. Hannah		-	1 homestead
	17	W½, 100 ac	Thos. Rutherford		-	-
	17	E½, 100 ac	James Hughson		-	-
3	1	W½, 100 ac	John Grant	Isaac Wilson	-	1 homestead
	1	E½, 100 ac	Jas. A. Ellis		1 store	1 homestead
	2	Npt, 50 ac	Cornelius McCarty	Robert Beatty	-	1 homestead
	2	Npt, 50 ac	Turner McCarty	Thos McCarty	-	1 homestead
	2	S½, 100 ac	John Polard		-	1 homestead
	3	NW¼, 50 ac	Wm. Shaw	Wm. Shaw	-	1 homestead
	3	SW¼, 50 ac		Est. H. Brown		1 homestead
	3	E½, 100 ac	John May	Barnard Dongherty	-	1 homestead
	4	W½, 100 ac	Edward Dudley		-	-
	4	E½, 100 ac	John Laughlin		-	1 homestead
	5	W½, 100 ac	Wm. Henry		-	1 homestead
	5	E½, 100 ac	Jervis Henry		-	2 homesteads
	6	W½, 100 ac	James Percy	Wm. Davison	-	1 homestead
	6	E½, 100 ac		James Pearcy		1 homestead
	7	W½, 100 ac	Seth Wilson		-	1 homestead
	7	E½, 100 ac	Josh. Dean	Frs Dean	-	-
	8	W½, 100 ac	Frederick Nixon	Jos. Dean	1 homestead	1 homestead
	8	E½, 100 ac		Elisha Farr		1 homestead
	9	W½, 100 ac	R. Munsie	Wm. Lindsay	-	1 homestead
	9	E½, 100 ac	Thos. Taylor	Wm. Hull	-	1 homestead
	10	W½, 100 ac	Seth Wilson		1 homestead	1 homestead
	10	E½, 100 ac	Wm. Williams	Thos. Williamson	-	1 homestead
	10	NE corner	Toases B		1 blacksmith shop	
	11	W½, 100 ac	Seth Wilson	W. G. Wilson	1 homestead	-
	11	NE¼, 50 ac	Chas. Jaffery	Chas. Jeffery	-	2 homesteads; 1 church
	11	SE¼, 50 ac	Allen Jaffery		-	
	12	Npt, 50 ac	John Jaffery (Jeffery)		-	1 homestead
	12	Spt, 150 ac	Wyatt Jaffery (Jeffery)		-	1 homestead
	13	N½, 100 ac	Allen Jaffery	John Jeffery	-	1 homestead

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
	13	S½, 100 ac	John Jaffery		-	
	14	All, 200 ac	Wm. Newlove	Mrs. Maria Newlove	-	1 homestead
	15	Wpt, 75ac/ W½, 100 ac	Robt. Minnings	Jno. J. Sparrow	-	1 homestead
	15	Cpt, 75 ac/ NE¼, 50 ac	William Sparrow		-	1 homestead
	15	Ept, 50 ac/ SE¼, 50 ac	Richard Wellood	Richard Newlove	-	1 homestead
	16	N½, 100 ac	David Blair	Thos. Copeland	-	1 homestead
	16	S½, 100 ac	Ebenezar Blair	Jno. Allen Sr.	-	2 homesteads; natural spring
	17	NW¼, 50 ac	Thos. Sanderson	F. H. Sanderson	-	1 homestead
	17	SW¼, 50 ac	Thomas Carberry		-	
	17	E½, 100 ac	Wm. Harrison		1 homestead	1 homestead
4	1	W½, 100 ac	Rev. E. O'Riley	Unlisted	1 homestead "Knowlsdale"	2 homesteads
	1	E½, 100 ac	Henry Parr	Wm. Devins	-	1 homestead
	2	NW¼, 50 ac	J. & A. Ellis	Jas. D. Ellis	-	1 homestead
	2	SW¼, 50 ac	J. Thistle	Mrs. Robinson	-	2 homesteads
	2	E½, 100 ac	Robt. Farley	Wm. Hull	-	2 homesteads
	3	N½, 100 ac	Edward Hill	N. Hewson	-	-
	3	S½, 100 ac	George Bally	Robert Beatty	-	1 homestead; 1 church
	4	Wpt, 150 ac/ W½, 100 ac	J. & A. Catherwood	Wm. Waines	-	1 homestead
	4	Ept, 50 ac/ E½, 100 ac	James Catherwood		-	2 homesteads
	5	W½, 100 ac	Alex Murray	Jas. Pearcy	-	2 homesteads
	5	E½, 100 ac	Peter Rogers	D. Shaw	1 homestead	1 homestead
	5	NE corner	W. Rogers		1 blacksmith shop	
	6	All, 200 ac	Alex Dick	Robert Dick	1 homestead	2 homesteads
	7	W½, 100 ac	Joseph Dean Sr.	James Dean	-	1 homestead
	7	E½, 100 ac	Wm. Edwards		-	1 homestead
	8	W½, 100 ac	David Lougheed	Stephen Strong	-	1 homestead
	8	NE¼, 50 ac	Geo. Lougheed	Brian Dunbar	-	1 homestead
	8	SE¼, 50 ac	Fleming Shaw		-	2 homesteads
	9	W½, 100 ac	Walter Taylor		1 homestead "Hawkshorn Dale"	2 homesteads
	9	NE½, 50 ac	Jas. Lougheed Sr.	Jas. Lougheed	-	1 homestead
	9	NE½, 50 ac		Geo. Lougheed		1 homestead
	10	NW corner	H.H. Bowler	Alex Munsie	1 inn	1 homestead; 1 inn; 1 church; village of Macville
	10	W½, 100 ac	Alex Munsie		-	
	10	E½, 100 ac	Wm. Goodfellow		-	1 homestead
	11	Wpt, 150 ac	John McDougall	Andrew McDougall	1 homestead; 1 schoolhouse; 1	Macville Post Office; 1 homestead

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
					sawmill; 1 church; 1 store	
	11	Ept, 50 ac	John McDougall	Mrs. Mary McDougall	-	1 homestead
	12	All	Jas. H. Newlove	J. H. R. W. & T.T.T. Newlove	1 homestead	1 homestead
	13	Wpt, 50 ac	McMorris	Richard Shore	-	2 homesteads
	13	Ept, 150 ac	Richard Shore		-	
	14	W½, 100 ac	Allen Jaffery	James Robson	-	2 homesteads
	14	E½, 100 ac	Wm. Switzer (Town Clerk)	Samuel Sparrow	1 homestead "Copswood Cottage"	1 homestead
	15	NW¼, 50 ac	James Carberry	Richard Wellwood	-	1 homestead
	15	SW¼, 50 ac	Seth Wilson	Wm. Minions	-	1 homestead
	15	NE¼, 50 ac	Allen Jaffery	Chas Jeffery	-	-
	15	SE pt, 15 ac	John Edmondson		-	
	15	SE pt, 15 ac	T. Edmondson	F. Fletcher	-	-
	15	SE pt, 15 ac	L. Smith	Unlisted	-	-
	16	W½, 100 ac	George Carberry		Newlove's Shoe Shop	1 homestead
	16	E¼, 50 ac	Thomas Adams		-	1 homestead
	16	E¼, 50 ac	Geo. Hutchinson		-	1 homestead
	17	NW¼, 50 ac	Thos. Donaldson		-	1 homestead
	17	SW¼, 50 ac	Wm. Farr	Geo. Williams	1 homestead	
	17	E½, 100 ac	Hugh Jamieson	Wm. C. Vance	1 homestead	
5	1	W½, 100 ac	Jos. Austin	Richard Austin	-	1 homestead
	1	E½, 100 ac	John Murphy	Pierce Fletcher	-	1 homestead
	2	Wpt, 50 ac	Jams. McCorty	Hugh McCorty	-	2 homesteads
	2	Ept, 150 ac	Hugh McCorty		-	
	3	W½, 100 ac	Wm. Caldwell	Wm. Caldwell	1 schoolhouse (No.2)	1 homestead
	3	E½, 100 ac		Robert Clark		1 homestead
	4	W½, 100 ac	John Atchison	Charles Caldwell	-	3 homesteads
	4	E½, 100 ac	Chas. Caldwell		-	
	5	All, 200 ac	James Goodfellow		1 homestead; 1 church	1 homestead; 1 church
	6	All, 200 ac	Adam Goodfellow		1 homestead	1 homestead
	7	W½, 100 ac	Adam Goodfellow	James Goodfellow	-	-
	7	E½, 100 ac	John Shore	Edmund Shore	-	1 homestead
	8	NW¼, 50 ac	Thomas Harper		-	-
	8	SW¼, 50 ac	Jas. Goodfellow		-	1 homestead
	8	NE¼, 50 ac	Robert Woodley	Henry McCabe	-	1 homestead
	8	SE¼, 50 ac				
	9	NW¼, 50 ac	Jas. Lougheed	Jacob Lougheed	-	1 homestead
	9	SW¼, 50 ac	Thos. Harper		-	1 homestead
	9	NE¼, 50 ac	Jas. Lougheed	Unlisted	-	-
	9	SE¼, 50 ac	Robert Lougheed	Henry McCabe	-	-

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
	10	NW¼, 50 ac	Geo. Taylor		-	2 homesteads
	10	SW¼, 50 ac	Thos. Nuttrass		-	1 homestead
	10	NE¼, 50 ac	Geo. Taylor	Unlisted	-	-
	10	SE¼, 50 ac		George McKenzie		1 homestead
	10	NE¼, 50 ac	Robert Duffy	Wm. Goodfellow	-	1 homestead
	11	NW¼, 50 ac	Walter Taylor	Mrs. Mary McDougall	-	-
	11	SW¼, 50 ac	Wm. Irwin		-	
	11	NE¼, 50 ac	Jas. Duffy	Jas. Duffy	-	-
	11	SE¼, 50 ac	Robert Duffy	Wm. Goodfellow	-	1 homestead
	12	NW¼, 50 ac	Thos. Nattress		-	1 homestead
	12	SW¼, 50 ac	Wm. Copeland	Mrs. Mary Copeland	-	1 homestead
	12	NE¼, 50 ac	Geo. Elliott		-	
	12	SE¼, 50 ac	G. Elliott	James Duffy	-	1 homestead
	13	NW¼, 50 ac	Henry Wilson		-	-
	13	SW¼, 50 ac	Late. Wm. Gott	Wm. Gott	-	-
	13	NE¼, 50 ac		George Elliott Sr.		1 homestead
	13	SE¼, 50 ac				
	14	NW¼, 50 ac	T. Nattress		-	-
	14	SW¼, 50 ac	Henry Willson		-	1 homestead
	14	E½, 100 ac	John Bradley	Edward Bradley	-	2 homesteads
	15	Wpt, 25 ac	James Austin	Thos. Swinarton	-	1 homestead
	15	Wpt, 75 ac	T. Hainsworth		-	
	15	E½, 100 ac	Robert Burton	Robert Burton	-	2 homesteads
	16	W½, 100 ac	John Tindale	Edward Tindale	-	-
	16	E½, 100 ac	William Barber	Robert Burton	-	1 homestead
	17	W½, 100 ac	Thomas Greer	Robert Burton	1 homestead	1 homestead
	17	NE¼, 50 ac	J. C. Green	James Stewart/ J. Mellow	-	2 homesteads
	17	SE¼, 50 ac	John McGraw		1 sawmill	
6	1	W½, 100 ac	Adam Goodfellow		-	1 homestead
	1	E½, 100 ac	Wm. Graham	Robert Robinson	1 store	1 homestead
	2	W½, 100 ac	Hannah Rowley	Alex McCourt	-	1 homestead
	2	E½, 100 ac	Wm. Parr		-	1 homestead
	3	NW¼, 50 ac	Robert Johnson		-	1 homestead
	3	NE¼, 50 ac	Wm. Stewart	George Johnston	-	-
	3	S½, 100 ac	Russel Snell	Robert Snell	-	1 homestead
	4	W½, 100 ac	James Caldwell		-	1 homestead
	4	E½, 100 ac	Adam Goodfellow	John Forrester	-	1 homestead
	5	NW pt, 75 ac	Wm. Rogers	John Philips	1 homestead	1 homestead
	5	SW pt, 25 ac	J. Caldwell		-	-
	5	E½, 100 ac	Wm. Lindsey		-	
	6	N½, 100 ac	John Rodgers	James Caldwell	-	1 homestead
	6	SW¼, 50 ac	Wm. Rogers	John Philips	-	-
	6	SE¼, 50 ac	Thos. Rutledge	Rutledge Est.	-	-
	7	E½, 100 ac	John Shore	Edmund Shore	-	1 homestead
	7	NE¼, 50 ac	Jacob Shore	Town of Bolton	-	Town Lots
	7	NW pt, 15 ac	I. Shore	I. East	-	-

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
	7	NW pt, 15 ac	M. Henderson		-	-
	7	NW pt, 15 ac	M. Shore		-	-
	8	W½, 100 ac	Wm. Plumer	Wm. Williamson	-	1 homestead
	8	Ept, 50 ac	S. Davlin	Town of Bolton	-	Town of Bolton
	8	Ept, 50 ac	Wm. Davlin		Town lots of Bolton	
	9	W½, 100 ac	Jas. Bolton	Jacob Shore	-	-
	9	E½, 100 ac	Late. S. Sterne	Town of Bolton	Town lots of Bolton	Town of Bolton
	10	W½, 100 ac	Geo. Rowley	John Gray	-	1 homestead
	10	E½, 100 ac	Jas. Moore	R.W. Moore	Town lots of Glasgow; 1 sawmill; 1 water sawmill	3 homesteads
	11	W½, 100 ac	Robt Whittiers	Unlisted	-	-
	11	NE¼, 50 ac	Wm. Armstrong	Samuel Johnson	-	2 homesteads
	11	SE¼, 50 ac	Sarah Johnston	James Taylor	-	1 homestead
	12	Wpt, 150 ac	George Evans		-	1 homestead
	12	Ept, 50 ac	Wm. Armstrong	Samuel Johnson	-	-
	13	W½, 100 ac	Richard Shore	Abraham Taylor	-	1 homestead
	13	E½, 100 ac	Henry Harper		1 homestead	1 homestead
	14	Wpt, 75 ac	Richard Bradley	Casper Bradley	-	1 homestead
	14	Wpt, 175 ac		Richard Bradley		1 homestead
	14	Ept, 50 ac	Hannah Ellis	Henry Harper	-	-
	15	W½, 100 ac	John Allan (or Allen)		-	1 homestead
	15	NE¼, 50 ac	James Wolfe	William Mellow	1 blacksmith shop; 1 wagon shop	1 hom;estead
	15	SE¼, 50 ac	Joseph Willson (tailor)	Alex McCabe	1 homestead	1 homestead
	16	W pt¼, 50 ac	Geo. Hudson	Geo. Hudson	-	1 homestead
	16	W pt¼, 50 ac		Isaac Hudson		1 homestead
	16	E½, 100 ac	Wm. Mellow		-	1 homestead
	17	W½, 100 ac	David Leeth	James Henderson	-	1 homestead
	17	E½, 100 ac	William Taylor	Henry Taylor	-	-
7	1	All	G.W.	Robert Robinson	-	-
	2	All	Wm. Jolley	Wm. Thomas	-	1 homestead
	3	All	Geo. Moore		-	-
	4	W½, 100 ac	Wm. Goodfellow	James Goodfellow	-	1 homestead
	4	E pt		George Moore		-
	5	W½, 100 ac	John Clark	Unlisted	-	1 homestead
	5	E½, 80 ac	John Hall	John Corless	-	1 homestead
	6	NW¼, 50 ac	Robt. Williamson		1 homestead	1 homestead
	6	SW¼, 50 ac	John Clark	Robert Clark	-	-
	6	NE¼, 50 ac	Wm. Bell	John Shields	-	-
	6	SE¼, 50 ac		Robert Clark		-
	7	W½, 100 ac	Rev. H. R. Olser	Church of England	-	-
	7	E½, 100 ac	Nunnville		Village lots of Nunnville	

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
	8	W½, 100 ac	Bolton		Town lots of Bolton; 1 steam sawmill	Town lots of Bolton
	8	E½, 100 ac	Jane Bolton	Mrs. Beamish	-	1 homestead
	9	Wpt, 50 ac	Edward Lawson	Bolton	Town lots of Bolton	
	9	Cpt, 100 ac	Robert Godbolt		1 homestead "Lilac Grove"	1 homestead
	9	Ept, 50 ac	Wm. Phillips		-	3 homesteads
	10	W½, 100 ac	Samuel Stewart		-	1 homestead
	10	E½, 100 ac	Wm. Ewart	Wm. Morrison	-	1 homestead
	11	W½, 100 ac	James Taylor		-	1 homestead
	11	E½, 100 ac	Isaac Kar (or Carr)		-	1 homestead
	12	NW¼, 50 ac	John Long	James Rutherford	-	1 homestead
	12	SW¼, 50 ac	James Ralpath	James Gott	-	1 homestead
	12	NE¼, 50 ac	Geo. Elliott		-	1 homestead
	12	SE¼, 50 ac	T.C. Starrett	James Rutherford	-	1 homestead
	13	W½, 100 ac	Henry Bolton	Henry Harper	-	1 homestead
	13	E½, 100 ac	John Fletcher	Joseph Sott	-	1 homestead
	14	W½, 100 ac	A. Bolton	Humphy O'Leary	1 homestead	1 homestead
	14	E½, 100 ac	Thos. Clark	Charles Clark	-	2 homesteads
	15	W½, 100 ac	Wm. Noble	Robert Noble	-	1 homestead
	15	E½, 100 ac	Chas. Noble	G. Noble	1 general store; 1 W.M. Church	1 homestead; 1 post office
	16	NW¼, 50 ac	Jos. McGiness	Thomas C. Townrow	-	2 homesteads
	16	SW¼, 50 ac	Mrs. E. A. Potts		-	
	16	NE¼, 50 ac	Geo. Jones	George Jones	1 wagon shop; 1 blacksmith shop	3 homesteads
	16	SE¼, 50 ac	John Hannah	Robert Hannah	-	1 homestead
	17	Wpt, 25 ac	Geo. Jones		-	-
	17	Ept, 175 ac	James Monkman	George Jones	1 church	-
8	6	All	J. Hall	J.C.	-	-
	7	All	Wm. Shields	J. S.	-	-
	8	All	Ann Johnston	James Wolfe	-	1 homestead
	9	Wpt	Wm. Fuller	Est. Wm. Fuller	1 homestead	2 homesteads
	9	Ept	Samuel Fuller	Wm. J. Fuller	-	1 homestead
	10	Wpt	John Reynar		1 grist mill; 1 store	1 homestead
	10	Ept	James Keating	Thomas Keating	-	1 homestead; 1 post office; village lots of Columbia
	11	W½, 100 ac	Thos. Swinerton	Robert Dick	1 tannery; 1 sawmill; 1 blacksmith shop; 1 wagon shop; 1 church; 1 schoolhouse	1 homestead
	11	E½, 100 ac		T. Swinerton		Village lots of Columbia
	12	W½, 100 ac	John Graham		-	1 homestead
	12	E½, 100 ac	Geo. Bowes		1 homestead	2 homesteads
	13	NW¼, 50 ac	Joseph Scott	H. Jamieson	-	1 homestead

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
	13	SW¼, 50 ac	Thomas Scott	J. Rutherford	-	1 homestead
	13	E½, 100 ac	Thomas Bowes	J. Bowes	-	1 homestead
	14	W½, 100 ac	Edward Duke		-	2 homesteads
	14	E½, 100 ac	James Bowes	Est. J. Bowes	-	1 homestead
	15	W½, 100 ac	Robert Hart	B. Hart	1 schoolhouse (No.6)	2 homesteads
	15	E½, 100 ac	Henry Downey (Sr.)		-	1 homestead
	16	W½, 100 ac	Henry Downey (Sr.)		1 homestead	1 homestead
	16	E½, 100 ac	John Colley (willow & poplar farm)		1 homestead	1 homestead
	17	W½, 100 ac	Wm. Kellington	James Monkman	-	-
	17	Ept, 80 ac	John Colley	John Colley (willow & poplar farm)	-	1 homestead
	17	Ept, 20 ac	T.W.		-	
9	11	All	Robt. Parker	Robert Parker	-	1 homestead
	12	Npt	W. P.		-	
	12	Spt	Robert Parker		-	
	13	All	Wm. Parker	H. Wilson	-	1 homestead
	14	All	Geo. Godbolt	Edward Brandon	-	1 homestead
	15	NW pt	P. O'Brien	H.D.	-	2 homesteads
	15	SW pt	Jas. Wood	W.B.	1 blacksmith shop	1 homestead
	15	E pt	Chas. Bolton		1 homestead	-
	16	W½, 100 ac	Wm. Bowes		-	-
	16	E½, 100 ac	G. Robertson	G. Robinson	-	1 homestead
	17	SW¼, 50 ac	Thomas Wardby	W. Bowes	-	1 homestead
	17	E½, 100 ac	Samuel Waudby	G. Robinson	-	1 homestead
10	16	All	Unlisted	M.S.	-	-
TOWNSHIP OF TORONTO GORE, NORTHERN DIVISION						
8	15	NW¼, 50 ac	Wm. Carbourg (or Carberry)		-	-
	15	SW¼, 50 ac	John Carbourg (or Carberry)		-	-
	15	E½, 100 ac	James Beamish	Henry Proctor	-	1 homestead
	16	W½, 100 ac	John Thompson		-	
	16	NE pt, 25 ac	Wm. Odelum	E.D.H. Odlum	-	-
	16	E pt, 75 ac		James Berry		1 homestead
	17	W½, 100 ac	Edward Odelum (or Odlum)		-	-
	17	E½, 100 ac	John Odelum	John Carr	-	1 homestead
9	15	N½, 99 ac	John Grant	Philip Eagan	2 homesteads	2 homesteads
	15	N pt, 1 ac		A.G.		1 homestead
	15	S½, 100 ac	Elizabeth Hassard	Wm. Robinson	-	1 homestead
	16	NW pt, 20 ac	M. Murphy	Michael Murphy	-	1 homestead
	16	Npt, 80 ac	John Murphy		-	
	16	S½, 100 ac	T. B. Phillips	Wm. Callum	1 store	2 homesteads
	17	Wpt, 150ac	Samuel Beamish	George Steer	-	1 homestead
	17	Ept, 50 ac	Michael Murphy	Michael Murphy	-	1 homestead
10	15	W½, 100 ac	James Barnes	Thomas Byrne	-	1 homestead
	15	NE¼, 50 ac	James Grant	Mrs. M. Kelly	-	-
	15	SE¼, 50 ac	Edward Kelley	Matthew Harrison	2 homesteads "Whitehall"	-

Con.	Lot	Part	Owner/Occupant		Structure(s) in the Study Area	
			1859	1877	1859	1877
	16	N½, 100 ac	Samuel Beamish "O.F.L."	John Splan	-	1 homestead
	16	SW¼, 50 ac	Thomas Beamish		-	1 homestead
	16	SE¼, 50 ac	James Maw		-	1 homestead
	17	NW corner	St. Patrick Church	R.C. Church	1 church	
	17	W½, 100 ac	Rev. Eugene O'Riley		-	1 homestead; 1 church
	17	E½, 100 ac		Robert Kennedy		1 homestead
11	15	W½, 100 ac	Richard Clark		-	1 homestead
	15	E½, 100 ac	Edward Pierson	John Splan	-	1 homestead
	16	N½, 100 ac	Jas. Craven		1 homestead "Everson"	
	16	SW¼, 50 ac	Heirs of J. Craven	Jas. Craven	1 blacksmith shop	4 homesteads
	16	SE¼, 50 ac	Rachel Craven	Mrs. Rachel Craven	-	1 homestead
	17	NW¼, 50 ac	Richard St. John	John Gilmore	-	1 homestead
	17	SW¼, 50 ac	Robert Barbour	Nathan Beamish	-	1 homestead
	17	E pt, 50 ac	Andrew McCourt	James Craven	-	1 homestead
	17	E pt, 50 ac		John Splan		-
12	15	All	Robert Woodill	John Cameron	-	1 homestead
	16	Wpt	John Splan		-	1 homestead
	16	Ept	Richard Tibb	Walter Watson	1 schoolhouse (No.7)	2 homesteads
	17	NW pt	Nathan Green	John Hart	-	1 homestead
	17	SW pt		W.S. Hart		-
	17	Ept	Robert Hart	George Hart	1 homestead; 1 P.M. Church	1 homestead; 1 church
TOTAL HISTORIC STRUCTURES:					***72***	***263***

A total of 72 historic structures are depicted within the general study area in the 1859 *Tremaine's Map* and these include 35 homesteads, seven blacksmith shops, four schoolhouses, seven churches, six stores (one general store), six sawmills (one steam and one water), three wagon shops, one grist mills, one inn, one shoe shop and one tannery. Furthermore, the historic communities of Bolton, Macville, Columbia and Glasgow fall within the study area. By 1877, the *Illustrated Historical Atlas* depicts a total of 263 historic structures were depicted within the general study area. These include 253 homesteads, six churches, three post offices and one inn. The communities of Bolton, Macville, Columbia, Castlederg and Nunnville are also depicted.

In addition, the general study area encompasses several historic transportation routes, including the Toronto, Grey & Bruce Railway tracks, as well as regularly spaced road allowances laid out during the survey of the Townships of Albion and Toronto Gore: present-day Castlederg Side Road, King Street, Healey Road, Mayfield Road, Countryside Road, Centreville Creek Road, The Gore Road, Humber Station Road, Coleraine Drive and Highway 50. Additionally, village streets (e.g., Mill Street, James Street, Albert Street, Sackville Street, etc.) and given roads (e.g., Glasgow Road, King Street West/Old King Road) also traverse the study area. In Ontario, the *2011 S&G*

considers areas of early Euro-Canadian settlements (e.g., pioneer homesteads, isolated cabins, farmstead complexes, early wharf or dock complexes, pioneer churches, and early cemeteries), early historic transportation routes (e.g., trails, passes, roads, railways, portage routes), and properties that local histories or informants have identified with possible archaeological sites, historical events, activities, or occupations, as features or characteristics that indicate archaeological potential (per *Section 1.3.1*). Therefore, based on the proximity of early Euro-Canadian settlements and early historic transportation routes, this feature contributes to establishing the archaeological potential of the general study area.

A total of 23 historical homesteads were depicted within 300 metres of the Focus Area limits (***see Map 3***). Moreover, the Focus Area encompasses lands along or within 100 metres of historical roadways (e.g., King Street, Duffys Lane/Emil Kolb Parkway, Highway 50, Columbia Way, Mount Hope Road). Therefore, archaeological potential can be established within the Focus Area.

1.3.4.2 Post-1900 Land Use

To facilitate further evaluation of the established archaeological potential within the study area, a review of 1917 and 1938 topographic maps (***see Maps 4-5***), and aerial imagery from 1954 and 2022 (***see Maps 6-7***) was undertaken.

The topographic maps illustrate most of the general study area as comprising open lands that had been cleared of vegetation and already brought into agricultural productivity by the early 20th century. Areas of forest are scattered throughout the study area, as well as numerous farmsteads fronting on established roadways. In addition to the large village of Bolton, several small communities of clustered settlement are also depicted across the study area, including Castlederg, Macville, Coventry, Gooseville, Tormore and Wildfield. Branches and tributaries of the Humber River drain the study area, with a significant portion of the valleys of these waterways remaining undeveloped/forested. Two railroads cut through the study area, meeting at Bolton. Numerous notable features are illustrated within and adjacent to the study area in these maps, including cemeteries and churches, post offices, mills, schools and a race track.

The 1954 aerial photographs depict similar conditions to that illustrated in the topographic maps in that much of the study area comprised agricultural land with woodland scattered throughout as well as a forested corridor along the Niagara Escarpment. Two rail lines continued to be depicted within the study area, as well as the Humber River and its associated tributaries, numerous farmsteads and clustered settlement in the various small communities mentioned above. By 2022 agricultural lands around Bolton, as well as the northern edge of the City of Brampton (i.e., the portion south of Mayfield Road) had been converted into large-scale residential and industrial developments.

The Focus Area has largely remained rural in character up to the present, with only the southern segments abutting the built-up residential area of Bolton. However, since the mid-20th century road construction (i.e., Columbia Way), realignment (i.e., Emil Kolb Parkway/Regional Road 150) and widening (i.e. Highway 50 and King Street/Regional Road 9) has significantly altered the landscape within the various road ROWs encompassed within the Focus Area. Of note is the

realignment of the road connecting Duffys Lane with King Street, which resulted in the construction of Emil Kolb Parkway ca. 2013.

1.3.5 Present Land Use

The study area's present land use is categorized as Prime Agricultural Area, Low Density Residential, Medium Density Residential, High Density Residential, Special Residential, General Industrial, Prestige Industrial, Dry Industrial, Policy Area – Industrial, Bolton Highway 50 Commercial Area, Bolton South Hill Commercial Area, Bolton North Hill Commercial Area, Rural Use, Institutional, Environmental Policy Area, Open Space Policy Area, Boundary or Greenbelt Plan Area, Oak Ridges Moraine Conservation Plan Area, (Town of Caledon, 2018a; Town of Caledon, 2018b).

1.4 Archaeological Context

To establish the archaeological context and further establish the archaeological potential of the study area, *Archeoworks Inc*. conducted a comprehensive review of the local archaeological management plan, designated and listed cultural heritage resources, heritage conservation districts, commemorative markers and pioneer churches and early cemeteries in relation to the study area. Furthermore, an examination of registered archaeological sites and previous AAs within proximity to the study area limits, and a review of the physiography of the study area were performed. The results of this background research are documented below and summarized in **Appendix B – Summary of Background Research**.

1.4.1 Archaeological Management Plan

Per *Section 1.1, Standard 1* of the *2011 S&G*, when available, an archaeological management plan (AMP) or other archaeological potential mapping must be reviewed.

According to the Town of Caledon's AMP, most of the general study area encompassing the Town of Caledon (including the Focus Area) has archaeological potential for the recovery of both pre-contact Indigenous sites and historical archaeological sites (ASI, 2021h, p.37; ***see Map 8***).

The City of Brampton currently does not have an AMP.

1.4.2 Designated and Listed Cultural Heritage Resources

Per *Section 1.3.1* of the *2011 S&G*, property listed on a municipal register or designated under the *Ontario Heritage Act*, or that is a federal, provincial, or municipal historic landmark or site, are considered features or characteristics that indicate archaeological potential.

There are numerous designated and listed heritage properties located both in and within 300 metres of the general study area (City of Brampton, 2021a; City of Brampton, 2021b; City of Brampton, 2022; Town of Caledon, 2023a; Township of King, 2023; ***see Table 4; Maps 10-11***).

The Focus Area specifically encompasses one listed heritage property (14475 Highway 50). It immediately abuts one designated heritage property (the Duffy Homestead at 14121 Emil Kolb Parkway) and three other listed heritage properties (14291 Highway 50; 14328 Highway 50; 14685 Highway 50) (***see Maps 10-11***).

Therefore, this feature contributes to establishing the archaeological potential of both the general study area and the Focus Area.

Table 4: Heritage Properties within 300 metres of the Study Area

Address	Description	Heritage Status
Town of Caledon		
Bolton	Steel Truss Bridge Over Humber River on Glasgow Road, c.1910s-1920s	Designated Part IV
Bolton	Steel Truss Bridge Over Humber River on Sneath Road, c.1910s-1920s	Designated Part IV
389 Centennial Dr., Bolton	Laurel Hill Cemetery, c.1893	Designated Part IV
13304 Coleraine Dr.	Shore-Wakely Stone House, c.1848	Designated Part IV
14121 Emil Kolb Parkway	Duffy Homestead, c.1840s	Designated Part IV
66 Fountainbridge Drive	Bur Oak Trees, c.1820s	Designated Part IV
65 James St., Bolton	Lambert Bolton House, c.1867	Designated Part IV
83 King St. East, Bolton	Guardhouse-Goodfellow House, 1876	Designated Part IV
97 King St. East, Bolton	McFall House, c.1843	Designated Part IV
2 Morra Avenue	Graham/Robinson House, c.1860s	Designated Part IV
16 Nancy St., Bolton	True Blue Masonic Lodge #98, c.1876	Designated Part IV
25 Nancy St., Bolton	Goodfellow-Nattress-Potts House, c.1880	Designated Part IV
31 Nancy St., Bolton	Smith-Schaefer-Potts House, c.1885	Designated Part IV
45 Nancy St., Bolton	Joseph Watson Property, c.1885	Designated Part IV
65 Sneath Rd., Bolton	Shields-Gillanders House, c.1847	Designated Part IV
34 Temperance St., Bolton	Shore-Nease House, c.1872	Designated Part IV
139 Albert Street	c. 1875-1899	Listed
145 Albert Street	Undetermined	Listed
161 Albert Street	c. 1875-1899	Listed
168 Albert Street	c. 1875-1899	Listed
13540 Caledon-King Townline	Bolton Camp, 1920s-1940s	Listed
14686 Caledon-King Townline	Before 1850	Listed
6791 Castlederg Sideroad	1975-1899	Listed
7426 Castlederg Sideroad	1850-1874	Listed
7810 Castlederg Sideroad	1975-1899	Listed
8411 Castlederg Sideroad	1850-1874	Listed
8688 Castlederg Sideroad	1900-1924	Listed
9249 Castlederg Sideroad	1900-1924	Listed
10416 Castlederg Sideroad	1850-1874	Listed
12250 Centreville Creek Road	1900-1924	Listed
13715/13717 Centreville Creek Road	1900-1924	Listed
13740 Centreville Creek Rd	1850-1874	Listed
13848 Centreville Creek Road	1875-1899	Listed
14116 Centreville Creek Road	1850-1874	Listed
14460 Centreville Creek Road	1900-1924	Listed
15353 Centreville Creek Road	1850-1874	Listed

Address	Description	Heritage Status
12992 Coleraine Drive	Albion Presbyterian Cemetery, c. 1850s	Listed
9850 Columbia Way	1850-1874	Listed
9948 Columbia Way	1850-1874	Listed
9950 Columbia Way	1850-1874	Listed
16 Connaught Crescent	c. 1910-1920	Listed
18 Connaught Crescent	c. 1910-1920	Listed
22 Connaught Crescent	c. 1910-1920	Listed
24 Connaught Crescent	c. 1910-1920	Listed
38 Connaught Crescent	c. 1910	Listed
48 Connaught Crescent	c. 1910	Listed
56 David Street	1875-1899	Listed
59 David Street	1875-1899	Listed
14905 Duffy's Lane	1850-1874	Listed
6824 Healey Road	1850-1874	Listed
6859 Healey Road	1875-1899	Listed
108 Hemlock Street	1875-1899	Listed
114 Hemlock Street	1875-1899	Listed
24 Hickman Street	Pre-1895	Listed
27 Hickman Street	c. 1900-1924	Listed
14475 Highway 50	c. 1877	Listed
14818 Highway 50	1850-1874	Listed
15282 Highway 50	1874-1899	Listed
12519 Humber Station Road	c. 1880	Listed
12650 Humber Station Road	1900-1924	Listed
12713 Humber Station Road	c. 1880s	Listed
13068 Humber Station Road	1850-1874	Listed
13297 Humber Station Road	c. 1880	Listed
13344 Humber Station Road	1900-1924	Listed
14436 Humber Station Road	early 20th century	Listed
15287 Humber Station Road	1875-1899	Listed
15348 Humber Station Road	1925-1945	Listed
12351 Innis Lake Road	1850-1874	Listed
12445 Innis Lake Road	1900-1924	Listed
12649 Innis Lake Road	1850-1874	Listed
13373 Innis Lake Road	1850-1874	Listed
13545 Innis Lake Road	1850-1874	Listed
14117 Innis Lake Road	1850-1974	Listed
14285 Innis Lake Road	1850-1874	Listed
14639 Innis Lake Road	1850-1874	Listed
14921 Innis Lake Road	1850-1874	Listed
15289 Innis Lake Road	1875-1899	Listed
53 James Street	1900-1924	Listed
109 James Street	c. 1859	Listed
117 James Street	1850-1874	Listed
48 John Street	c. 1875-1899	Listed
58 John Street	c. 1875-1899	Listed
99 John Street	c. 1875-1899	Listed
6907 King Street	Between 1850-1874	Listed
7403 King Street	Between 1850-1874	Listed

Address	Description	Heritage Status
7477 King Street	late 19th century	Listed
7601 King Street	early 20th century	Listed
7640 King Street	mid-late 19th century	Listed
146 King Street East	c. 1900-1924	Listed
176 King Street East	c. Early 1860s	Listed
192 King Street East	c. 1875-1899	Listed
218 King Street East	c. 1875-1899	Listed
255 King Street East	c. 1875-1899	Listed
140 King Street West	1875-1899	Listed
68 Louisa Street	Late 1880s	Listed
85 Louisa Street	1875-1899	Listed
6600 Mayfield Road	1850-1874	Listed
7660 Mayfield Road	O'Reilly Farmstead, 1906	Listed
7904 Mayfield Road	1875-1899	Listed
116 Meadowvale Court	1850-1874	Listed
14968 Mount Hope Road	19th Century	Listed
14985 Mount Hope Road	1850-1874	Listed
15091 Mount Hope Road	1875-1899	Listed
15290 Mount Hope Road	Before 1850	Listed
15351 Mount Hope Road	1875-1899	Listed
14101 Mount Pleasant Road	Coventry Schoolhouse, 1876	Listed
14346 Mount Pleasant Road	185-1874	Listed
14509 Mount Pleasant Road	1900-1924	Listed
14930 Mount Pleasant Road	1875-1899	Listed
14975 Mount Pleasant Road	1850-1874	Listed
15172 Mount Pleasant Road	1850-1874	Listed
2 Plummer Road	Prior to 1850	Listed
14291 Regional Road 50	c. 1870s	Listed
14328 Regional Road 50	c. 1850s	Listed
14475 Regional Road 50	c. 1877	Listed
14685 Regional Road 50	c. 1900s	Listed
18 Sackville Street	c. 1900-1924	Listed
32 Sackville Street	c. 1900-1924	Listed
12453 The Gore Road	1850-1874	Listed
12494 The Gore Road	1900-1924	Listed
13066 The Gore Road	1875-1899	Listed
13067 The Gore Road	1875-1899	Listed
13464 The Gore Road	1900-1924	Listed
13495 The Gore Road	1900-1924	Listed
13707 The Gore Road	1900-1924	Listed
13708 The Gore Road	1900-1924	Listed
13957 The Gore Road	1872	Listed
14258 The Gore Road	c. 1900s	Listed
14275 The Gore Road	late 19th century	Listed
14495 The Gore Road	1875-1899	Listed
14695 The Gore Road	1875-1899	Listed
14832 The Gore Road	1875-1899	Listed
14877 The Gore Road	1900-1924	Listed
15101 The Gore Road	1900-1924	Listed

Address	Description	Heritage Status
15366 The Gore Road	1875-1899	Listed
15461 The Gore Road	1875-1899	Listed
152 Victoria Street	c. 1892	Listed
159 Victoria Street	c.late 1840s	Listed
173 Victoria Street	c. 1875-1899	Listed
45 Willow Street	1875-1899	Listed
68 Willow Street	c. 1854	Listed
69 Willow Street	1900-1924	Listed
80 Willow Street	c. 1875-1899	Listed
89 Willow Street	Pre-1851	Listed
98 Willow Street	c. 1859	Listed
111 Willow Street	c. 1900-1924	Listed
City of Brampton		
18 Grafton Crescent	Cassin Farmhouse	Designated Part IV
11873 The Gore Road	St. Patrick's Roman Catholic Church and Cemetery	Designated Part IV
10955 Clarkway Drive	Pinebrook Farm	Designated Part IV
0 Highway 50	Shiloh Cemetery	Listed
6791 Mayfield Road		Listed
10900/10916 Coleraine Drive	Cole Farmhouse (house moved from original location on 10690 Highway 50)	Listed
10980 Highway 50	Cameron House	Listed
5556 Countryside Drive	-	Listed
11176 Highway 50	-	Listed
11970 Highway 50	Hart House	Listed
Township of King		
8395 17th Sideroad	-	Listed
13375 Caledon King Townline South	-	Listed

"-" denotes no detail provided in heritage register

1.4.3 Heritage Conservation Districts

Per *Section 1.3.1* of the *2011 S&G*, heritage resources listed on a municipal register or designated under the *Ontario Heritage Act* are considered features or characteristics that indicate archaeological potential. The general study area contains the Bolton Heritage Conservation District (HCD) (Town of Caledon, 2023b). Therefore, this feature contributes to establishing the archaeological potential of the general study area. It must be noted, however, that the Bolton HCD lies more than 300 metres away from the Focus Area.

1.4.4 Commemorative Plaques or Monuments

Per *Section 1.3.1* of the *2011 S&G,* commemorative markers of Indigenous and Euro-Canadian settlements and history which may include local, provincial, or federal monuments, cairns or plaques, or heritage parks are considered features or characteristics that indicate archaeological potential. The *Ontario Heritage Trust* records one commemorative plaque within the general study area, namely a plaque about the Founding of Bolton (OHT, 2021, p.67). Therefore, this feature contributes to establishing the archaeological potential of the general study area. No plaques are located within the Focus Area.

1.4.5 Pioneer/Historic Cemeteries

Per *Section 1.3.1* of the *2011 S&G,* pioneer churches and early cemeteries are considered features or characteristics that indicate archaeological potential. Ten early cemeteries are located in the general study area: Albion Presbyterian Cemetery, Bolton Anglican & Methodist Cemeteries, Bolton Congregational Cemetery, Columbia Primitive Methodist Cemetery, Castlederg Wesleyan Methodist Cemetery, Godbolt Primitive Methodist Cemetery, Laurel Hill Cemetery, Plummer Family Cemetery, Shiloh Cemetery and St. Patrick's Roman Catholic Cemetery (OGS, 2023). Therefore, this feature contributes to establishing the archaeological potential of the general study area. However, none of the cemeteries are located within 300 metres of the Focus Area.

1.4.5.1 Albion Presbyterian Cemetery

Albion Presbyterian Cemetery (also known as Caven; Collins; Caldwells; Old Presbyterian) is located at 12992 Coleraine Drive, within part of Lot 5, Concession 5, in the Geographic Township of Albion. It is an inactive cemetery.

In 1831, James Goodfellow, a settler from Scotland, purchased all 200 acres of Lot 5, Concession 5 in the Township of Albion from the Canada Company (Instrument and Deed, No.9634: film 179270). James Goodfellow was a Presbyterian, and his neighbour John Caldwells farm formed the nucleus for the Presbyterian congregation in Bolton. "They gathered in a new schoolhouse built on a site donated by the Caldwells from their farm. Records also show that a new barn on the Goodfellow farm was used when a larger than usual congregation was expected, such as the induction of an early pastor. In 1838 and 1839 the Reverend Doctor James Carins led the little flock, and it may have been he whom this induction service was held" (Heyes, 1961, p.126).

In March of 1856, James Goodfellow sold half an acre in the east half of Lot 5, Concession 5 to John P. Watson, John Dalziel, Charles Caldwell, Adam Goodfellow and William Rogers, all "Trustees for and on behalf of the Religious Society known by the name of the United Presbyterian Congregation of Albion" for $1.00 (Instrument and Deed, no. 3422: film 179271). This parcel of land was described as, "commencing where a post has been planted at the northerly angle of said half lot. Then south thirty-nine degrees thirty minutes west eight perches twenty-four and a half links. Then south forty-five degrees forty-five minutes east eight perches twenty-four and a half links. Then north thirty-nine degrees thirty minutes east eight perches twenty-four and a half links. Then north forty-five degrees forty-five minutes west eight perches twenty-four and a half links to the place of beginning." This description roughly describes the half acre as measuring 45 metres (m) by 45m by 45m by 45m at the most northern corner of the lot, where present-day Coleraine Drive and Healey Road intersect. According to the *Albion Presbyterian Cemetery Transcript* (OGS, 1994), "the 1852 census shows a meeting house already there" (p.2).

In 1874, a meeting was held to plan the construction of a new church; some members wanted the church to be constructed on the old site, while the majority voted to construct a new church in Bolton. In 1875, the Presbyterian congregation constructed a new red brick church in Bolton and "named it Cavan Presbyterian Church in honor of the Principal of Knox College" (Heyes, 1961, p.127). This church had the seating capacity for 250 individuals (Mann, 2003, p.22).

"A cemetery sat beside the first church on Lot 5, Concession 5" and "the old frame church on Lot 5, Concession 5, "was moved across the road, immediately south of the churchyard, and became part of the farmhouse on that property" (Mann, 2003, p.22). No burials have occurred for several years, with only thirty-four (34) burials noted in the *Albion Presbyterian Cemetery Transcript* (pp.5-7).

1.4.5.2 Bolton Anglican & Methodist Cemeteries

Bolton Anglican & Methodist Cemeteries (also known as Old Christ Church Cemetery; Old Anglican Abandoned Cemetery; Abandoned Cemetery (Bolton); Old Methodist Cemetery (Bolton)) is located at 166 Centennial Drive, within part of Lot 9, Concession 6, in the Geographic Township of Albion. Both cemeteries are inactive.

Bolton Anglican

In 1845, a mudbrick Anglican Church was constructed on the hill south and overlooking Bolton (OGS, 1983). Three years later, one acre and 20 perches of land was officially purchased from James and Ellen and sold to Church Society of the Diocese of Toronto for five shillings (Instrument and Deed, No.31563: film 179270). This parcel of land was described as, "commencing where a post has been planted on the westerly limit of the present concession line of road and at the distance of twenty-one chains thirty-two links (~429m) from the southerly limit of said lot number nine. Thence north sixty-six degrees west four chains twenty-three links (~85m). Thence south twenty-four degrees west three chains twenty-six links (~65m). Thence south fifty-four and a half degrees east two chains sixty-eight and a half links (~53m). Thence about north thirty-six degrees east two chains (~40m) more or less to the corner of the parcel of land conveyed to George Evans. Thence north fifty-eight degrees east two chains nineteen links (~43m) to the place of beginning." This mudbrick church was replaced by a frame building by 1861.

Burials occurred as early as 1822, and the last was in 1925. By the 1930s, Perkins Bull noted that the cemetery received little care. "Already by that time a number of remains has been removed and buried in the new Laurel Hill cemetery" (Mann, 2003, p.15). In 1972, many of the flat stones were placed in a cairn.

Bolton Methodist

Immediately north of the Anglican Cemetery was the Methodist Cemetery. This parcel was sold to John Reynar, James Ewart and John Tindale, Trustees for the Wesleyan Methodist Church of Bolton Village, and measured 20 rods (or 10 metre square), or about one-third of the area of the Anglican Cemetery (Instrument and Deed, No. 38315: film 179270; OGS, 1983). "There were few burials in either of these cemeteries after 1893 when Laurel Hill Cemetery was opened and there were many removals to the new cemetery" (OGS, 1983).

1.4.5.3 Bolton Congregational Cemetery

Bolton Congregational Cemetery (also known as Albion Congregational Church Cemetery) is located at 107 Queen Street North, within part of Lot 9, Concession 7, in the Geographic Township of Albion. It is an inactive cemetery.

The Bolton Congregational Church was the first church erected in Bolton where the first service was held in 1842. No deed of land transfer exists but Ian R. Dalton, a descendant of the Warbrick family, who owned part of the lot described the church property as, "roughly triangular, one long side against the old 7th Line road allowance, the top pointing south towards the town, and growing wider as it climbed part way of the hill to the north a total area of about 2.5 'roods'. The church lay near the southern top and a burial ground apparently occupied the remainder" (Mann, 2003, p.17). In 1864, the mudbrick church was replaced by a frame building that had, "four gothic-arched windows in each side and a handsome circular window of stained glass in the south end, facing the village" (OGS, 1990a, p.3). This cemetery can be seen in ***Image S1*** in the ***Supplementary Document***, where the arrow points to the former frame church, and gravestones are visible to the right of the church, up the hillside. Burials are believed to have occurred as late as 1892, and some bodies are believed to have been removed to Lauren Hill Cemetery (OGS, 1990a, p.3).

According to Perkins Bull, approximately 20-30 individuals were buried there, but no monuments survived. According to Ian R. Dalton, it was believed that the cemetery was 'emptied'; however, during the straightening of Highway 50 in 1962, "bulldozers cut into two graves (at least) and scattered all the bones except two skulls" (facsimile courtesy of the Town of Caledon). A cairn has since been erected at the presumed location of the cemetery (Mann, 2003, p.17).

1.4.5.4 Castlederg Wesleyan Methodist Cemetery

Castlederg Wesleyan Methodist Cemetery (also known as Castlederg Cemetery; Castledurg Wesleyan Methodist Cemetery; Castlederg United Church Cemetery, Brigg's Cemetery) is located south of 9485 Castlederg Sideroad at 14968 Mount Hope Road, within part of Lot 15, Concession 7, in the Geographic Township of Albion. It is an inactive cemetery.

The earliest record of this cemetery is often confused with the church and cemeteries in Lot 17, Concession 7. However, in 1858, John Briggs and his wife, sold half an acre of land in the northern part of Lot 15, Concession 7 (near the southwest corner of Castlederg Sideroad and Mount Hope Road) to Richard Bradley, Joseph Roadhouse, John Graham, Henry Harper, William Noble, William Roadhouse and Richard Shore, all Trustees of Mount Hope Congregation of the Wesleyan Methodist Church of Canada in Connexion with the English Conference (Instrument and Deed, No. 5576: film 179272). This parcel of land was described as, "commencing two and a half chains (~50m) from the northeast corner along the Concession southerly. Thence two chains (~40m) westerly. Thence two and a half chains southerly (~50m). Thence two chains (~40m) easterly. Then two and a half chains (~50m) northerly to the place of beginning." A new church was opened shortly afterwards, and the building was a frame structure (Mann, 2003, p.40). This church was likely in use until about 1884, when the different fractions of the Methodist churches united and by 1894, was removed to the west and later sold by auction (Mann, 2003, p.40).

John Briggs was buried on the church grounds and his monument is still located within the former church and cemetery grounds. It is not clear how many people have been buried at this cemetery (Mann, 2003, p.41).

1.4.5.5 Columbia Primitive Methodist Cemetery

Columbia Primitive Methodist Cemetery (also known as Coventry Primitive Methodist Cemetery; Coventry Old Methodist Cemetery; Old Methodist Cemetery) is located at 9950 Columbia Way, within part of Lot 11, Concession 8, in the Geographic Township of Albion. It is an inactive cemetery.

In 1856, Thomas Swinarton sold two rods, 12 perches of the easterly part of Lot 11, Concession 8 to Simon Elliott, James Percy, John Montgomery, George Bowes, John Middleton, James Ward and George Foster, all Trustees of the of the Primitive Methodist Connexion in Canada (Instrument and Deed, No. 3392: film 179271). This parcel of land was described as, "commencing at the south westerly angle of the lot in the Village of Columbia granted by the Grantees to the Trustees of School Section Number Thirty in Albion. The north forty-eight degrees and one-half degrees west two chains (~40m). Then north forty-one and one-half degrees east five chains (~100m). Then north forty-eight- and one-half degrees west one chain (~20m). Then south forty-one degrees and one-half degrees west five chains seventy-five links (~115m). Then south forty-eight degrees and one-half degree east three chains (~60m). Then north forty-one- and one-half degrees east three chains (~60m). Then north forty-one and one-half degrees east seventy-five links (~15m) to the place of beginning" (Instrument and Deed, No. 3392: film 179271). This deed granted land for the construction of a Chapel of the Primitive Methodist Connexion and "for a burial ground in connexion."

"According to the Albion Circuit minutes, a frame church was opened in the fall of 1856" (Mann, 2003, p.50). However, according to William Perkins Bull, "the earliest burial being recorded as taking place in 1833" and by the 1930s, the cemetery was in a state of disrepair. He noted, "the fence surrounding is broken down, and an apple tree in full bloom is in the middle of the cemetery. Pigs seem to make it a 'happy hunting ground'" (OGS, 2008). The last burial appears to have occurred ca.1905 (OGS, 2008).

To access the cemetery, an easement is in place along the west limit of 9938 Columbia Way to access the cemetery at 9950 Columbia Way. According to a *Caledon Interoffice Memo* (courtesy of the Heritage Planner at the Town of Caledon), the easement was 10 feet wide (3m) and was accessed from Columbia Way. It was also noted that the cemetery was being maintained by a neighbour including the care of the fence and the cemetery measured 131.7 feet by 71 feet (40 metres by 21 metres).

1.4.5.6 Godbolt Primitive Methodist Cemetery

Godbolt Primitive Methodist Cemetery (also known as Godbolt Cemetery) is located at 14686 Caledon/King Town Line South, within part of Lot 14, Concession 9, in the Geographic Township of Albion. It is an inactive cemetery.

On the west side of Caledon/King Townline, a church, known as the King Township Primitive Methodist Church, was established. "There was no cemetery connected to this church but not far from there was a small cemetery on the Albion King Township border, on the east half of Lot

14 Concession 9, Albion Township" (OGS, 2010, p.2). No deed of land transfer exists officially transferring a parcel of land for use of a cemetery, but according to the *Abstract Land Indexes*, the Bolton Family owned all 100 acres of Lot 14, Concession 9 from 1825 to 1840, and the Godbolt Family from 1850 to 1875.

The first burial to occur was in 1833 and was Samuel Fuller and continued to be used by members of the Fuller Family as well as the Godbolt and Nunn families (Mann, 2003, p.131; OGS, 2010, p.2). By 1930, during William Perkins Bull's visit to the cemetery, he noted, "the cemetery as about one third of an acre in extent, rectangular and 'one of the most desolate and untidy of all'" (OGS, 2010, p.2). It is not known how many individuals are buried at the cemetery, while all the surviving headstones were placed in a cairn at 14686 Caledon/King Town Line South.

1.4.5.7 Laurel Hill Cemetery

Laurel Hill Cemetery is located at 399 Centennial Drive, within part of Lot 9 and 10, Concession 6, in the Geographic Township of Albion. It is an active cemetery.

In 1891, several residents, after a tour of the existing cemeteries in the Bolton area, determined that, "Bolton must move with the times and organize a committee to inaugurate a public cemetery" (OGS, 1993, p.2). By 1893, the Laurel Cemetery Company was established and a parcel of land in the east half of Lot 10, Concession 6 was purchased for use as a burial ground. This parcel of land was surveyed where burial plots would consist of four-grave plots measuring 12 feet wide (3.5m) and allow for three feet (3m) of burial space. "Between the edges of each plot would be an allowance of two feet for a path…each plot owner would be permitted six feet for erecting a monument, with the memorial for one plot facing the family plot and the other monument facing the other way for the opposite plot" (OGS, 1993, pp.2-3). The first burial occurred in 1893.

The land was graded and leveled, and the internal roads were laid out by volunteers. As the property continued to develop and more sections were opened, trees were planted, fences were erected and a cement wall with embedded rings to tie up horses was installed. A wooden trestle bridge was also constructed across the former ravine traveling near present-day Centennial Drive. For the next twenty years, Laurel Hill was the primary burial ground for Bolton and the surrounding communities.

Between 1893 and 1900, two structures were constructed in the cemetery grounds: an octagonal shaped "Dead House" to house the deceased persons in winter months; and a brick building to serve as a waiting room and tool shed. The commemorative cenotaph was erected in the 1920s. In the 1960s, Highway 50 was straightened and traveled along the east limit of the cemetery, and clay from that excavation was used to fill in the ravine (OGS, 1993, pp.4-5). A frame chapel was constructed in 1969 within the cemetery property.

1.4.5.8 Plummer Family Cemetery

Plummer Family Cemetery (also known as Plummer Family Farm Cemetery; Whakely Family Farm Cemetery) is located at 2 Plummer Road, within part of Lot 8, Concession 6, in the Geographic Township of Albion. It is an inactive cemetery.

According to the *Abstract Land Indexes* for Lot 8, Concession 6, Elizabeth Plummer received all 200 acres in 1836. She appears to have sold the east 100 acres but retained the west 100 acres (or west half) of the lot until her death in 1854. In her will, she noted the west half was bequeathed to her son, William and "reserving to her son in law, William Caldwell, and her daughter Eliza Caldwell, their children and posterity forever, the use of the Burial Ground on the said lot" (Instrument and Deed, No. 986: film 179271; OGS, 1990b, p.1). A description of the location of the burial ground was not included, and not much detail is known about the cemetery (Mann, 2003, p.148).

By 1898, Jabez Wakely purchased the portion of Lot 8, Concession 6 that contained the cemetery, and members of the Wakely family owned this portion of the lot until 1980. "The site was designated as an abandoned cemetery on Nov 11 1985 by Bylaw 85-173 which amended Bylaw 74-68" (OGS, 1990, p.1). After the surrounding subdivision was constructed, the remaining headstones were placed in a cairn in the middle of a 65ft by 65ft (19m by 19m) parkette at 2 Plummer Road.

1.4.5.9 Shiloh Cemetery

Shiloh Cemetery (also known as Shiloh Methodist/United Church Cemetery) is located at the southwest corner of 11970 Highway 50, within part of Lot 17, Concession 12 Northern Division, in the Geographic Township of Toronto Gore. It is an inactive cemetery.

According to the *Abstract Land Indexes* for Lot 17, Concession 12 Northern Division, all 172 acres was granted to George Hall in 1837. In 1851, George Hall sold half an acre in the east part of the lot to the Robert Hart, Christine Hughes, William Thomas, Henry Nunn and Benjamine Snell, Trustees for the Primitive Methodist Connexion in Canada for half a penny (Instrument and Deed, No.40757: film 179315). This parcel was described as, "commencing at the southeast corner of the aforesaid lot where a stone has been place. Then north thirty-eight degrees west two chains fifty links. Then north twenty-two degrees west two chains. Then north thirty-eight degrees two chains fifth links to the allowance for a road. Then south twenty-two degrees east two chains to the place of beginning" (Instrument and Deed, No.40757: film 179315). On this half-acre, a Primitive Methodist Chapel, a frame structure, was constructed along with two horse sheds in front of the chapel (OGS, 1998a, p.1). This chapel "is said to have been built about 1840, ten years before the Hall's signed the deed. It was a frame building, 30 by 40, with an unusual seating arrangement, the pews rising tier by tier until the rearmost were right under the roof" (Byrne, N.D., p.2). "The remaining land was used as a burial ground" (OGS, 1998a, p.1). The earliest burial was in 1848, and it is estimated that about 100 individuals are buried at Shiloh, but most of the stones were brought to Bolton. "It should be kept in mind that when they say stones were removed, they mean exactly that; stones, not remains" (Byrne, N.D., p.3).

In 1903, a new brick church, the Central Methodist Church, was constructed about a kilometre south of Shiloh. The church and horse sheds were torn down and removed from the property in 1902, and the last burial occurred in 1905. In 1930, a board of Trustees was founded, and funds were gathered to install a new fence and care for the neglected cemetery grounds. In the 1960s, Highway 50 was widened and a new stone posts at the front of the cemetery were installed (Tavender, 1984, pp.66-67; OGS, 1998a, p.1).

1.4.5.10 St. Patrick's Roman Catholic Cemetery

St. Patrick's Roman Catholic Cemetery (also known as Wildfield Cemetery; Grantville; Gribben) is located at 11873 The Gore Road, within part of Lot 17, Concession 10 Northern Division, in the Geographic Township of Toronto Gore. It is an active cemetery.

Catholic settlers had begun to arrive at the south end of Albion Township and the north end of Toronto Gore since 1818. To attend Sunday service, Catholic settlers would travel to Toronto or priests would make circuits through Trafalgar Township and Adjala Township. In 1828, Father Angus Macdonell and William Bergin petitioned the Lieutenant-Governor for the grant of 200 acres of Lot 17, Concession 10, being the most central location for the construction of a Catholic place of worship. By 1834, the grant was issued, and a frame church, the first Catholic Church in Peel County, was constructed which was dedicated to St. Patrick. The northwest corner of the 200 acres, on the east side of The Gore Road and south of Mayfield Road, became the cemetery for St. Patrick's Roman Catholic Church (Mann, 2000, p.111; OGS, 1998b, p.1). The first burial at St. Patrick's Church and Cemetery dates back to 1836 with the majority of those buried from Ireland or of Irish descent (Mann, 2000, p.110; Tavender, 1984, pp.47-52; St. Patrick's Research Committee, 1985, p.29).

Many priests arrived and departed from the church mission over the course of the church's early existence, including Father O'Reilly who married nearly 400 couples and baptized close to 2000 individuals. Father Francis McSpirrit was believed to perform miracles that restored the health of several individuals. Due to Father Francis McSpirrit's popularity, the original frame church was replaced by the current brick structure, which was completed without incurring debt in 1894. The brick structure was designed by architectural firm of Arthur W. Holmes and Albert Asa Post who designed many buildings for the Roman Catholic dioceses throughout Ontario. In 1895, Father McSpirrit passed away and was buried on the site of the old church (Tavender, 1984, pp.59-61; Leonard, 2008, pp.3-4).

In the 1960s, a Cemetery Board for St. Patrick's was formed to ensure the cemetery grounds conformed to the regulations of the Cemetery Act of Ontario. Due to the erratic placement of memorials that were often tilted or falling over, the community and church hierarchy "began the removal of the monuments, levelled the grounds and then fabricated a raised concrete platform in which the tablets were set in concrete, perpetuated for all time" (Tavender, 1984, p.61). A bronze plaque was installed which listed alphabetically all 373 individuals buried in the cemetery (OGS, 1998, p.1). All upright monuments were removed, but the description of where they were removed from and the number of those buried in that plot was not recorded (Mann, 2000, p.111; St. Patrick's Research Committee, 1985, p.32).

1.4.6 Registered Archaeological Sites

Per *Section 1.1, Standard 1* and *Section 7.5.8, Standard 1* of the *2011 S&G*, the *Ontario Archaeological Sites Database* (OASD) maintained by the *MCM* was consulted in order to provide a summary of registered or known archaeological sites within a minimum one-kilometre distance of the study area limits. A total of 162 archaeological sites have been registered within one kilometre of the general study area (MCM, 2023). An additional six sites (AlGw-214 to -219) were also identified during a review of Archeoworks Inc. project files in the area of Caledon.

Of these, 144 are located within the general study area limits, and two (AlGw-171 and AlGw-172) within the Focus Area limits (***see Table 5***).

Table 5: Registered Archaeological Sites within One Kilometre of the General Study Area

Borden #	Name	Cultural Affiliation	Type
Registered sites within the study area			
AkGw-3	Livingston	Archaic	Unknown
AkGw-66	John Laughlin	Pre-Contact (Indigenous); Post-Contact (Euro-Canadian)	Findspot; homestead
AkGw-69	Avery	Pre-Contact (Indigenous)	Findspot
AkGw-70	Dennis	Pre-Contact (Indigenous)	Findspot
AkGw-317	Peel 3-IF.1	Pre-Contact (Indigenous)	Findspot
AkGw-318	Peel 3-IF.2	Pre-Contact (Indigenous)	Findspot
AkGw-319	Peel 3-IF.3	Pre-Contact (Indigenous)	Findspot
AkGw-454	AkGw-454	Post-Contact (Euro-Canadian)	House
AkGw-460	Dusty Rose P1	Pre-Contact (Indigenous)	Findspot
AkGw-495	Countryside H1 Site	Post-Contact (Euro-Canadian)	Homestead
AkGw-496	Countryside H2 Site	Post-Contact (Euro-Canadian)	Homestead
AkGw-499	Clarkway Point	Early Woodland	Unknown
AkGw-507	-	Post-Contact	Homestead
AkGw-508	-	Post-Contact	Homestead
AkGw-510	Craven 1 Site	Post-Contact (Euro-Canadian)	Homestead
AkGw-511	Craven 2	Post-Contact (Euro-Canadian)	Homestead
AkGw-512		Post-Contact (Euro-Canadian)	Homestead
AkGw-548	-	Post-Contact	Homestead
AlGw-3	Harper	Paleo-Indian; Archaic	Other: camp/campsite; Other: camp/campsite
AlGw-4	Goodfellow	Archaic	Other: camp/campsite
AlGw-5	French	Archaic	Other: camp/campsite
AlGw-6		Late Archaic; Early Woodland	Other: camp/campsite
AlGw-7	Castlederg	Post-Contact (Euro-Canadian)	Homestead
AlGw-8	Judge	Early Archaic	Other: camp/campsite
AlGw-10	G. Robinson	Archaic	Gathering; hunting
AlGw-11	J. Downey	Archaic	Hunting
AlGw-12	Grogan	Late Archaic	Other: camp/campsite
AlGw-15	-	-	-
AlGw-16	-	-	-
AlGw-17	-	-	-
AlGw-19	Burns/C. Saunders	Post-Contact (Euro-Canadian)	manufacturing

Borden #	Name	Cultural Affiliation	Type
AlGw-25	Belly	Pre-Contact (Indigenous)	Unknown
AlGw-26	Conolly	Middle Archaic	Other: camp/campsite
AlGw-27	Edge	Paleo-Indian	Unknown
AlGw-28	Beesting	Pre-Contact	Findspot
AlGw-31	Lotor	Middle Archaic	Other: camp/campsite; processing
AlGw-32	Westlake	Paleo-Indian	Camp/campsite
AlGw-36	-	Early Woodland (Meadowood)	Findspot
AlGw-38	-	Pre-Contact (Indigenous)	Findspot
AlGw-39	-	Pre-Contact (Indigenous)	Findspot
AlGw-40	-	Early Woodland (Meadowood)	Findspot
AlGw-41	-	Post-Contact (Euro-Canadian)	Findspot
AlGw-42	-	Post-Contact (Euro-Canadian)	Unknown
AlGw-43	Loring	Post-Contact (Euro-Canadian)	Homestead
AlGw-44	Swinarton	Early Archaic; Middle Archaic	Findspot; findspot
AlGw-45	Fleming Shaw	Pre-Contact (Indigenous); Post-Contact (Euro-Canadian)	Findspot; homestead
AlGw-46	Disanto	Pre-Contact (Indigenous)	Findspot
AlGw-47	French	Late Archaic	Findspot
AlGw-48	Humberview	Pre-Contact (Indigenous)	Findspot
AlGw-49	Lougheed	Pre-Contact (Indigenous)	Findspot
AlGw-51	Samuel Walford House	Post-Contact (Euro-Canadian)	Other: building; homestead; house; manufacturing
AlGw-55	John Corless Farmstead	Post-Contact (Euro-Canadian)	Other: privy; homestead; midden
AlGw-56	Jetron	Middle Archaic	Findspot
AlGw-59	-	Pre-Contact (Indigenous)	Unknown
AlGw-60	Moore	Post-Contact (Euro-Canadian)	Scatter
AlGw-62	-	Pre-Contact (Indigenous)	Other: camp/campsite
AlGw-63	-	Post-Contact (Euro-Canadian)	Scatter
AlGw-65	-	Pre-Contact (Indigenous)	Findspot
AlGw-66	-	Pre-Contact (Indigenous)	Findspot
AlGw-67	-	Late Archaic	Findspot
AlGw-69		Early Archaic (Kirk-Nettling)	Findspot
AlGw-80	Graham	Post-Contact (Euro-Canadian)	Farmstead
AlGw-81	-	Early Archaic	Findspot
AlGw-84	-	Pre-Contact (Indigenous)	Unknown
AlGw-85	-	Pre-Contact (Indigenous)	Unknown
AlGw-87	Peel 7-15	Post-Contact (Euro-Canadian)	Unknown
AlGw-88	-	Pre-Contact (Indigenous)	Unknown
AlGw-99	Peel 5-5	Pre-Contact (Indigenous)	Unknown
AlGw-100	Peel 5-IF.1	Pre-Contact (Indigenous)	Findspot
AlGw-101	Peel 5-IF.2	Pre-Contact (Indigenous)	Findspot
AlGw-102	Peel 5-IF.3	Early Woodland; Pre-Contact (Indigenous)	Findspot; findspot
AlGw-103	Peel 5-IF.4	Pre-Contact (Indigenous)	Findspot
AlGw-104	Peel 5-IF.5	Pre-Contact (Indigenous)	Findspot
AlGw-105	Peel 6-6	Pre-Contact (Indigenous)	Unknown
AlGw-106	Peel 6-7	Pre-Contact (Indigenous)	Unknown

Borden #	Name	Cultural Affiliation	Type
AlGw-107	Peel 6-8	Pre-Contact (Indigenous)	Unknown
AlGw-108	Peel 6-9	Pre-Contact (Indigenous)	Unknown
AlGw-109	Peel 6-10	Pre-Contact (Indigenous)	Unknown
AlGw-110	Peel 6-11	Pre-Contact (Indigenous)	Unknown
AlGw-111	Peel 6-12	Post-Contact (Euro-Canadian)	Unknown
AlGw-112	Peel 6-IF.1	Pre-Contact (Indigenous)	Findspot
AlGw-113	Peel 6-IF.2	Pre-Contact (Indigenous)	Unknown
AlGw-114	Peel 6-IF.3	Pre-Contact (Indigenous)	Unknown
AlGw-115	Peel 6-IF.4	Pre-Contact (Indigenous)	Unknown
AlGw-116	Peel 6-IF.5	Pre-Contact (Indigenous)	Unknown
AlGw-117	Peel 7-13	Pre-Contact (Indigenous); Post-Contact (Euro-Canadian)	Unknown; unknown
AlGw-118	Peel 7-14	Pre-Contact	Unknown
AlGw-120	Coleraine	Post-Contact (Euro-Canadian)	-
AlGw-121	Sparrow	Post-Contact (Euro-Canadian)	Homestead
AlGw-123	Albion Presbyterian Cemetery	Post-Contact (Euro-Canadian)	Cemetery
AlGw-124	Solmar P2	-	-
AlGw-125	Solmar H1	Post-Contact (Euro-Canadian)	Homestead
AlGw-126	Solmar H2	Post-Contact (Euro-Canadian)	Homestead
AlGw-127	Solmar H3	Post-Contact (Euro-Canadian)	Homestead
AlGw-128 / AlGw-187	Solmar H4 / Clark	Post-Contact (Euro-Canadian)	Homestead
AlGw-129	Solmar H5	Post-Contact (Euro-Canadian)	Homestead
AlGw-130	Solmar H6	Post-Contact (Euro-Canadian)	Homestead
AlGw-132	Caldwell	Post-Contact (Euro-Canadian)	Homestead
AlGw-134		Post-Contact (Euro-Canadian)	Unknown
AlGw-135		Pre-Contact (Indigenous)	Unknown
AlGw-136		Pre-Contact (Indigenous)	Findspot
AlGw-137		Post-Contact (Euro-Canadian)	Unknown
AlGw-138	-	Pre-Contact (Indigenous)	Unknown
AlGw-141		Post-Contact (Euro-Canadian)	Scatter
AlGw-142	AlGw-142	Middle Archaic	Scatter
AlGw-143		Pre-Contact (Indigenous)	-
AlGw-144		Pre-Contact (Indigenous)	Unknown
AlGw-145	-	Pre-Contact (Indigenous)	Unknown
AlGw-146	-	Pre-Contact (Indigenous)	Unknown
AlGw-147	-	Pre-Contact (Indigenous)	Unknown
AlGw-151	Hart	Post-Contact (Euro-Canadian)	Homestead
AlGw-152	Graham-Robinson	Post-Contact (Euro-Canadian)	Homestead
AlGw-160	The Taylor Homestead	Post-Contact (Euro-Canadian)	Homestead
AlGw-161	-	Pre-Contact (Indigenous)	Findspot
AlGw-163	Shore Site	Post-Contact (Euro-Canadian)	Farmstead
AlGw-169	Northcote Site	Pre-Contact; Post-Contact	Other: scatter, homestead; Other: scatter, homestead
AlGw-171	Goodfellow	Post-Contact	Unknown
AlGw-172	Harper	Pre-Contact; Post-Contact	-
AlGw-180	-	Post-Contact (Euro-Canadian)	Midden; scatter
AlGw-181	Loring/Burton Site	Post-Contact (Euro-Canadian)	Midden

Borden #	Name	Cultural Affiliation	Type
AlGw-182	-	Post-Contact (Euro-Canadian)	Other: Domestic/ Agricultural, possibly associated with the village of Coventry/Columbia
AlGw-189	Goodfellow	Post-Contact (Euro-Canadian)	farmstead; midden
AlGw-190	Coleraine	Middle Woodland	findspot
AlGw-192	W. Jaffery	Post-Contact (Euro-Canadian)	Unknown
AlGw-194	Lougheed Site	Post-Contact (Euro-Canadian)	farmstead; house
AlGw-196	Nattress	Post-Contact (Euro-Canadian)	homestead
AlGw-199	Location 1	Pre-Contact (Indigenous)	Camp / campsite; scatter
AlGw-200	Location 2	Middle Archaic	Other: isolated find
AlGw-201	AlGw-201	Early Archaic	Unknown; findspot
AlGw-202	AlGw-202	Other	Unknown
AlGw-203	O'Leary	Post-Contact (Euro-Canadian)	Scatter
AlGw-204	Mary	Post-Contact (Euro-Canadian)	Dump
AlGw-205	-	Early Archaic	Findspot
AlGw-206	Copeland	Post-Contact	Homestead
AlGw-207	P2	Late Archaic	Findspot
AlGw-208	5603 Countryside Drive Brewerton Point	Middle Archaic	Hunting loss
AlGw-209	Glacial Loss	Paleo-Indian	Findspot
AlGw-213	Location 1	Post-Contact (Euro-Canadian)	Homestead
AlGw-214	H4	Post-Contact (Euro-Canadian)	Homestead
AlGw-215	H5	Post-Contact (Euro-Canadian)	Homestead
AlGw-216	H2	Post-Contact (Euro-Canadian)	Homestead
AlGw-217	H3	Post-Contact (Euro-Canadian)	Homestead
AlGw-218	H6	Post-Contact (Euro-Canadian)	Homestead
AlGw-219	P3	Middle Archaic	Findspot
Other registered sites within one kilometre			
AkGw-418	O'Donald H3	Post-Contact (Euro-Canadian)	House
AkGw-445	-	-	-
AkGw-467	Block 66H3	-	-
AkGw-469	Block 66 H6	-	-
AkGw-478	Marsh-Cole	Post-Contact (Euro-Canadian)	Homestead
AkGw-481	Cole Farm	-	-
AkGw-482	Genesee Highway 50	Late Archaic	Findspot
AkGw-484	Julian	Post-Contact (Euro-Canadian)	Homestead
AkGw-485	-	Post-Contact (Euro-Canadian)	Homestead
AkGw-556	Armstrong Site	Post-Contact (Euro-Canadian)	Farmstead
AlGw-18	-	-	-
AlGw-68	Hall	Post-Contact (Euro-Canadian)	Cabin
AlGw-139	-	Pre-Contact (Indigenous)	Unknown
AlGw-149	Downey	Post-Contact (Euro-Canadian)	Homestead
AlGw-150	Cold Creek	-	-
AlGw-153	-	Late Archaic	Unknown
AlGw-154	-	Pre-Contact	Unknown
AlGw-155	-	Pre-Contact	Unknown
AlGw-156	-	Pre-Contact	Unknown
AlGw-157	-	Pre-Contact	Unknown

Borden #	Name	Cultural Affiliation	Type
AlGw-158	-	Pre-Contact	Unknown
AlGw-159	-	Pre-Contact	Unknown
AlGw-168	AlGw-168-H1	Post-Contact (Euro-Canadian)	-
AlGw-198	-	Post-Contact	Homestead

"-" denotes no information provided in the OASD

Per *Section 1.3.1* of the *2011 S&G*, previously registered archaeological sites in close proximity to the study area are considered to be features or characteristics that indicate archaeological potential. Therefore, given the presence of numerous archaeological sites within or immediately adjacent to both the general study area and the Focus Area, this feature contributes to establishing archaeological potential.

A full list of archaeological sites within and immediately adjacent to the general study area limits, as well as their development statuses, is provided in **Appendix D**. It must be noted that all archaeological concerns regarding AlGw-171 and AlGw-172 within the limits of the Focus Area have been addressed (TRCA, 2013b/PIF# P303-159-2012; Archeoworks Inc., 2013f/PIF# P390-0039-2013).

1.4.7 Previous Archaeological Assessments

Per *Section 1.1, Standard 1* and *Section 7.5.8, Standards 4-5* of the *2011 S&G*, to further establish the archaeological context of the study area, a review of previous AAs carried out within the limits of, or immediately adjacent (e.g., within 50 metres) to the study area, as documented by all available reports, was undertaken.

More than 200 reports documenting previous archaeological work within and immediately adjacent to the study area were identified (***see Section 6.3 for bibliography***). A generalized depiction of their extents is provided in the larger-scale Stage 1 assessment figures (***see Appendix A – Maps 12-13***); previous assessments specifically carried out in the vicinity of the Focus Area are delineated and labelled in **Map 14.**

The comprehensive review of reports revealed that a significant portion of the general study area that encompasses post-1950s industrial and residential lands have been cleared of archaeological concern. However, for some properties/areas, archaeological concerns remain, tied to archaeological sites for which further investigation has been recommended and not yet carried out, or the associated archaeological report has not yet received MCM approval (***see Sections 3.1.1.2 and 3.1.1.3***).

Specifically within the Focus Area, eight areas have not yet been cleared of archaeological concern (***see Map 15***):

A. Segment of the current King Street/RR 9 right-of-way [ROW] fronting 8264, 8286 and 8302 King Street.
B. Within the current Emil Kolb Parkway/RR 150 ROW: Strip of land fronting 14219 Emil Kolb Parkway.

C. Immediately outside the Emil Kolb Parkway/RR 150 ROW: land flanking the abandoned road alignment, just east of the Humber River crossing.
D. Immediately outside the Emil Kolb Parkway/RR 150 ROW: southwest corner of the Duffys Lane–Emil Kolb Parkway intersection.
E. Within the current Emil Kolb Parkway/RR 150 ROW: strips of land extending westward from the Highway 50–Emil Kolb Parkway intersection, between the graded slope and the ROW limit.
F. Private lands between the Highway 50 ROW and Mount Hope Road ROW, encompassing parts of the properties municipally addressed 14475 Highway 50 and 14530 Mount Hope Road. A review of the draft report for the Stage 1-2 AA of the block development that includes 14530 Mount Hope Road (PIF# P029-1073-2022) reveals that the land encompassed within the Focus Area was fully surveyed, resulting in the identification of H7, a small (n=10) collection of Euro-Canadian artifacts interpreted to represent a small dumping episode. This site does not merit further Stage 3 AA and therefore the land falling within the Focus Area have no further archaeological concerns. However it must be noted that the report is yet to be submitted and receive approval from the MCM.
G. Segment of the current Highway 50 ROW, from south of Emil Kolb Parkway/RR 150 to Columbia Way
H. Segment of the current Mount Hope Road ROW, from Columbia Way to about 300 metres northwest of the northernmost corner of the 14432 Mount Hope Road property.

It must be acknowledged that a draft report of a Stage 1 AA by TMHC (PIF# P450-0077-2021), which overlaps a portion of the current Stage 1 Focus Area, has been consulted as part of this Stage 1 study. However, since the report has not yet been accepted into the Ontario Register of Archaeological Reports at the time of report completion, its findings are not incorporated into this report.

1.4.8 Physical Features

An investigation of the study area's physical features was conducted to aid in the development of an argument for archaeological potential based on the environmental conditions of the study area. Environmental factors such as close proximity to water, soil type, and nature of the terrain, for example, can be used as predictors to determine where human occupation may have occurred in the past.

1.4.8.1 Physiographic Region

The study area is located within three physiographic regions of Southern Ontario: Oak Ridges Moraine, South Slope and Peel Plain.

Most of the general study area (including the Focus Area) is encompassed within the South Slope physiographic region, which is the southern slope of the Oak Ridges Moraine extending from the Niagara Escarpment in the west to the Trent River in the east. The portion encompassing the study area is morainic, most being a ground moraine of limited relief. The South Slope in general is situated across Verulam and Lindsay Formation limestone, Georgian Bay Formation grey shales and the reddish shales of the Queenston Formation. The shale content increases going westward

and the soils in this area are more clayey and less steep than in the east (Chapman & Putnam, 1984, pp.172-174).

The extreme north of the general study area, lying north of Castlederg Road, is encompassed within the Oak Ridges Moraine physiographic region. The surface of the Oak Ridges Moraine is characterized as hilly, with a knob-and-basin relief typical of end moraine. The hills are mostly composed of sandy or gravelly materials. The original vegetation was a mixed forest of pine and hardwoods, and most of the land was exploited for timber and converted to farmland. Farms on hillier land were abandoned due to sandy soil being unstable under cultivation or pasture. In contrast the soils on gentler hillsides have been more useful. Agricultural use of lands in the Moraine has been declining and reforestation has taken place in some areas. As the Oak Ridges Moraine is the source of many streams that drain the plains on both its north and south sides, it has become a focal point for conservation in southern Ontario (Chapman & Putnam, 1984: pp. 166-168).

The extreme south of the general study area, flanking Mayfield Road, is part of the Peel Plain physiographic region. This is a level-to-undulating region of clay soils, with a gradual and fairly uniform slope toward Lake Ontario, with till containing large amounts of shale and limestone underlying clay that is generally heavy in texture, this clay having been presumably brought by meltwater from the predominantly limestone regions to the north and east. Some well-drained soils are found within the Peel Plain, but the most dominant soil is Peel clay, an imperfectly drained, dark brown, stone-free clay often underlain by dull brownish grey, calcareous clay till or stone-free clay. With the underlying shale not being able to retain water well, compounded by the almost complete deforestation of the region that results in a high degree of evaporation, the Peel Plain has somewhat of a water supply problem. Practically all utilized for agriculture until 1940, the land within much of the region has been urbanized, now occupying two-thirds of the Peel Plain and taking more than 50,000 hectares of good farmland out of production (Chapman & Putnam, 1984, pp. 174-176).

1.4.8.2 Soil Types and Topography

The general study area encompasses several native soil types; a description of their characteristics is presented in **Table 6** and are also depicted in **Map 9** (Experimental Farms Service, 1953).

Table 6: Study Area Soil Types

Soil Series and Type	Great Soil Group	Soil Materials	Profile	Drainage	Topography and Surface Stoniness
Bottom Land	Alluvial	Alluvial	Low-lying land along stream courses; subject to flooding; profile immature and horizons poorly defined	Variable	variable

Soil Series and Type	Great Soil Group	Soil Materials	Profile	Drainage	Topography and Surface Stoniness
Caledon loam	Grey-Brown Podzolic	Well sorted outwash: gravelly	4" very dark grey-brown loam; profile well developed; concentration of stones in B horizon; parent material consists of well sorted sand and gravel; brown in colour; shaley	Good	Smooth gently sloping to smooth moderately sloping; few stones
Chinguacousy clay loam	Grey-Brown Podzolic	Heavy textured till; shale and limestone	7" dark greyish brown clay loam over mottled less defined A2 and B horizons; clay parent material dark yellowish brown in colour	Imperfect	Smooth gently sloping; few stones
Jeddo clay loam	Dark Grey Gleisolic	Heavy textured till; shale and limestone	8" very dark grey to black clay loam over very mottled, poorly defined lower horizons. Dark yellowish brown clay parent materials, few stones	Poor	Smooth very gently sloping; few stones
King clay loam	Grey-Brown Podzolic	Heavy textured till; limestone and shale	6" greyish brown clay loam surface; well developed profile, gritty clay parent material brown in colour.	Good	Smooth moderately sloping; few stones
Lockport clay	Grey-Brown Podzolic	Shallow soils over bedrock; red shale	5" dark brown clay loam over well defined stonefree A2 and B horizons; red shale at depths of 3 feet and less	Good	Smooth gently sloping; stonefree
Malton clay	Grey-Brown Podzolic	Lacustrine over heavy till	8" very dark grey clay over poorly defined, very mottled lower horizons; heavy clay at depths of 3ft. and less	Poor	Smooth very gently sloping; stonefree
Muck	Bog	Organic	Black well decomposed organic material of varying depths over sand, clay or marl; organic materials usually exceed 18 inches	Very poor	depressional
Oneida clay loam	Grey-Brown Podzolic	Heavy textured till; shale and limestone	6" dark greyish brown clay loam surface soil over well developed horizons. Dark yellowish brown, calcareous parent material, few stones	Good	Smooth moderately sloping; few stones
Peel clay	Grey-Brown Podzolic	Lacustrine over heavy till	7" very dark grey clay over slightly mottled A2 and B horizons; A2 horizon is shallow; heavy clay at depths of 3ft. and less	Imperfect	Smooth gently sloping; stonefree

Soil Series and Type	Great Soil Group	Soil Materials	Profile	Drainage	Topography and Surface Stoniness
Pontypool sandy loam	Grey-Brown Podzolic	Poorly sorted outwash	4" dark greyish brown sandy loam underlain by well defined A2 and B horizons; parent material usually sandy with occasional pockets of gravel; profile well developed	Good	Irregular steeply sloping; few stones
Woburn loam	Grey-Brown Podzolic	Medium textured til, shale and limestone	6" dark brown loam over well-developed horizons. Brown, calcareous, shaley till, few stones	Good	Smooth steeply sloping; few stones

The topography within the general study area decreases from north to south, with significant elevation changes within the Oak Ridges Moraine and in the valleys cut by the tributaries of the Humber River. The elevation across the study area measures between approximately 212 to 305 metres above sea level.

1.4.8.3 Hydrological Features

Hydrological features such as primary water sources (e.g., lakes, rivers, creeks, streams) and secondary water sources (e.g., intermittent streams and creeks, springs, marshes, swamps) would have helped supply plant and food resources to the surrounding area and are indicators of archaeological potential (per *Section 1.3.1* of the *2011 S&G*). The study area is encompassed within the Humber River watershed, and its branches and tributaries drain the study area. Therefore, this feature contributes to establishing the archaeological potential of the study area.

1.4.9 Current Land Conditions

The general study area encompasses a mostly rural section of the Town of Caledon, except for the urbanized area around Bolton, and the northern edge of the suburban expansion of the City of Brampton. Several small, rural centres are also scattered throughout the study area, consisting primarily of residential subdivisions, parks, churches, schools, community centres and local businesses. The Focus Area, located at the northwest edge of the built-up area of Bolton, mostly encompasses the rights-of-way (ROWs) of existing roads. The Focus Area also encompasses undeveloped lands outside existing ROW limits: the abandoned road alignment just east of the Humber River; the immediate southwest corner of the Duffys Lane–Emil Kolb Parkway intersection; and parts of adjacent agricultural parcels 14475 Highway 50 and 14530 Mount Hope Road.

1.4.11 Date of Desktop Review

A desktop review of field conditions using mid-20th and more recent aerial imagery was undertaken on May 23, 2023 and on June 21, 2024.

A field review ("property inspection") was carried out on June 18, 2024. Details of the property inspection are presented in **Section 2.0**.

1.5 Confirmation of Archaeological Potential

Based on the information gathered from the background research documented in the preceding sections, elevated archaeological potential has been established within the study area limits. Features contributing to archaeological potential are summarized in **Appendix B** and presented in **Maps 10-11**. An analysis of the conditions within the study area will be addressed in **Section 3.0**.

2.0 PROPERTY INSPECTION

2.1 Property Inspection Methods

A property inspection for the study area was carried out on June 18, 2024, and was conducted in compliance with the standards set forth in *Section 1.2* of the *2011 S&G*. In accordance with *Section 1.2, Standard 2* of the *2011 S&G*, the weather and lighting conditions (23-32°C; sunny & clear) during the Stage 1 property inspection permitted good visibility of land features and were conducive to the identification of features of archaeological potential.

Given the large size of the study area and the limitations of this preliminary assessment, it was not practical to conduct a comprehensive review of the entire general study area in great detail. The property inspection therefore consisted of visiting publicly accessible portions of the smaller Focus Area, with a view to documenting current conditions, as well as to evaluate and map archaeological potential. Only visual inspection was conducted, without excavating or collecting archaeological resources. Documentation especially focused on portions of the study area that have been identified as not yet cleared of archaeological concern (***see Section 1.4.7; Map 15***).

In accordance with *Section 1.2, Standards 3-6* of the *2011 S&G*, the property inspection involved visual confirmation of the presence/absence of previously identified features of archaeological potential, identification of additional features of archaeological potential not visible on mapping, and the identification and documentation of features that would affect archaeological assessment strategies (e.g., recent land disturbances, overgrown vegetation, woodlots, saturated areas, steep slope, above-ground features indicating buried utility alignments, structures and built features, etc.).

2.2 Property Inspection Results

Background research (***see Section 1.4.7; Map 15***) has determined that there are eight portions of the Focus Area for which no previous archaeological assessment has completely addressed archaeological concerns, and also appear to retain archaeological potential. Given that 14530 Mount Hope Road had already been subjected to a Stage 1-2 AA (PIF# P029-1073-2022), no further inspection was carried out for this property. Property inspection focused on assessing current conditions and determining whether or not further Stage 2 archaeological assessment is warranted in the these areas, enumerated A through H. The results of the assessment, as informed by the property inspection, are illustrated in **Maps 16-21**. A representative selection of photographs taken during the property inspection are presented within **Appendix E**, and location and orientation information is provided within **Maps 16-21**. An inventory of the documentary record generated in the field can be found within **Appendix F**.

2.2.1 Area A: King Street/RR 9 Right-of-Way, West of Emil Kolb Parkway/RR 150

The King Street ROW is dominated by the road platform, gravel shoulders, paved driveways and roadside ditching. On the south side of King Street the grass margin beyond the pavement has been disturbed by buried utility alignments and large-scale residential development. However, narrow strips of land along the north edge of the ROW appear to be undisturbed (***see Images 1-3; Map 16***).

2.2.2 Area B: Within the Emil Kolb Parkway/RR 150 Right-of-Way, Unsurveyed Strip Fronting 14219 Emil Kolb Parkway

This small strip of land was not directly subjected to property inspection, but Google Streetview imagery[1] and recent aerial imagery show that it consists of a landscaped lawn fronting a residential parcel, with no obvious signs of large-scale disturbance (***see Map 16***).

2.2.3 Area C: Outside the Emil Kolb Parkway/RR 150 Right-of-Way, East of the Humber River

An old road alignment used to cut through this area until it was superseded by the Emil Kolb Parkway ca. 2013, after which the road paving was removed. Today, the overgrown remains of the road platform are still visible (***see Image 5***), and there are still undisturbed pockets of woodland flanking the abandoned road alignment (***see Images 5-6; Map 17***).

2.2.4 Area D: Outside the Emil Kolb Parkway/RR 150 Right-of-Way, Southwest Corner with Duffys Lane

This small area is overgrown with vegetation and the unsurveyed portion appears to be undisturbed (***see Images 7-8; Map 17***).

2.2.5 Area E: Within the Emil Kolb Parkway/RR 150 Right-of-Way, Unsurveyed Strip West of Highway 50

This area consists of land between the row of coniferous trees (which marks the outermost boundary of the 2013 Archeoworks Inc. survey [P029-859-2013]) and the row of deciduous trees that line the actual ROW limit (***see Images 9-10; Map 17***). This area appears to be undisturbed.

2.2.6 Area F: Lands Between Highway 50 and Mount Hope Road (14475 Highway 50)

This area encompasses two private properties, municipally addressed 14475 Highway 50 (east) and 14530 Mount Hope Road (west). As previously mentioned the latter was already subjected to Stage 1-2 AA (PIF# P029-1073-2022), albeit the AA report still pending submission and MCM approval. Visual inspection was thus only limited to the portion of 14475 Highway 50 that can be documented from the Highway 50 ROW (***see Map 18***).

Much of the land consists of an active agricultural field, but an area of saturated soil conditions was also observed at the bottom of the Highway 50 road embankment in the property's west margin (***see Images 11-12***). However, it is known from aerial imagery that there are waterbodies in the extreme east end of the property. Whether or not these are man-made features is not immediately apparent.

[1] ***Google Streetview, September 2011***

2.2.7 Area G: Highway 50 ROW between Emil Kolb Parkway/RR 150 and Columbia Way

The King Street ROW is dominated by the road platform, gravel shoulders, paved driveways and roadside ditching. It was observed that saturated soil conditions exist in some areas between the gravel shoulders and the ROW limit. There are narrow strips of land right next to the ROW limit that appear to be undisturbed (***see Images 13-19; Map 19***).

2.2.8 Area H: Mount Hope Road ROW north of Columbia Way

The Mount Hope Road ROW is dominated by the road platform, gravel shoulders, paved driveways and roadside ditching. It was observed that saturated soil conditions, as well as cut slopes and road embankments, exist in certain areas between the gravel shoulders and the ROW limit. There are narrow strips of land right next to the ROW limit that appear to be undisturbed (***see Images 20-26; Maps 20-21***).

3.0 ANALYSIS AND CONCLUSIONS

In combination with data gathered from the background research (***see Sections 1.3 and 1.4***) and review of aerial imagery, an evaluation of the established archaeological potential of the general study area was performed (***see Section 3.1***). The results of this larger-scale evaluation are presented as **Maps 12-13**.

More thorough analysis for the Focus Area, as informed by the results of the property inspection, is presented in **Section 3.2** and **Maps 15-16.**

3.1 General Study Area

3.1.1 Previous Archaeological Assessments

Comprehensive background research revealed that many portions of the study area have already been subjected to a previous archaeological assessment, sometimes resulting in the discovery of archaeological sites. There are three broad categories of reports for which different strategies need to be applied.

It must be noted, however, that there are also several previous archaeological assessments documenting fieldwork within the general study area for which the reports have been requested from the MCM but not yet received for inclusion in this report.

3.1.1.1 No Further Archaeological Assessment Required

Lands encompassed within the study area which have already been subjected to an archaeological assessment (Stage 1 background study, Stage 2 AA property assessment, Stage 3 site-specific assessment, and/or Stage 4 mitigation of development impacts) and cleared of further archaeological concerns are recommended to be exempt from further assessment (***see Maps 12-13***). No additional archaeological assessment is required within these lands.

3.1.1.2 No Further Archaeological Assessment Required, Pending MCM Approval

There are archaeological sites within the study area for which archaeological concerns have been addressed, but the associated fieldwork reports are in the draft stage or still awaiting *MCM* approval. Prior to developmental impacts a renewed review of the associated fieldwork report(s) for these sites is required in order to confirm whether or not these sites (or portions thereof) still retain CHVI and thereby inform appropriate strategies. Maps depicting the locations of the archaeological sites listed in this sub-section (and the extents of the properties on which the sites are located) are provided in the attached **Supplementary Document** as **Maps S1-S2**.

- Countryside H1 (AkGw-495) and H2 (AkGw-496): Stage 4 excavations have been carried out and no further work is recommended for each site (Archeoworks, 2021b/PIF# P439-0082-2020; Archeoworks, 2021c/PIF# P439-0083-2020).

- H1 (AkGw-507) and H2 (AkGw-508): Stage 3 AAs have been carried out and no further work is recommended for each site (PIF# P052-0925-2018 and P052-0925-2018, respectively).
- H1 (AkGw-512): Stage 3 AA has been carried out and no further work is recommended (PIF# P052-1041-2020).
- W. Jaffery (AlGw-192): Stage 3 AA has been carried out and no further work is recommended (AMICK, 2018e/PIF# P038-0912-2017).
- AlGw-201 and AlGw-202: Stage 3 AAs have been carried out and no further work is recommended for each site (ASI, 2022/PIF# P1128-0006-2022 & P1128-0007-2022).
- O'Leary (AlGw-203): Stage 1-2 AA has been carried out and no further work is recommended (Irvin Heritage Inc., 2022/PIF# P379-0390-2021).
- Mary (AlGw-204): Stage 1-2 AA has been carried out and no further work is recommended (Irvin Heritage Inc., 2023/PIF# P379-0421-2021).
- AlGw-205: Stage 3 AA has been carried out and no further work is recommended (PIF# P1016-0210-2022).
- H7, P1, P2, P3 (AlGw-219) and P4: Stage 1-2 AA has been carried out in a large block of land along the west side of Mount Hope Road, between Columbia Way and Castlederg Sideroad resulting in the identification of a total of 7 Euro-Canadian artifact collections and 4 Indigenous lithic findspots. No further work is recommended for all of the lithic findspots (P1 through P4) and one of the Euro-Canadian sites (H7) (PIF# P029-1073-2022).

3.1.1.3 Further Archaeological Assessment Required

Properties and archaeological sites listed in this subsection still have outstanding archaeological concerns that require specific attention. Prior to any soil-intrusive activities within the properties and near the archaeological sites enumerated below, copies of the associated reports (if available) must be obtained to review the recommendations for further archaeological assessment. Maps depicting the locations of archaeological sites and extents of properties with outstanding archaeological concerns are provided in the attached ***Supplementary Document*** as **Maps S1-S2**.

Sites and areas for which Stage 4 mitigation is recommended:

- AlGw-141 and AlGw-142: long-term protection measures are currently in place, but Stage 4 mitigation is required prior to developmental impacts to the site portions adjacent to Highway 50 which had already been subjected to Stage 3 AA in 2015 (TRCA, 2016a/PIF# P303-0359-2015 & P303-0430-2016).
- Hart (AlGw-151): part of the site was recently subjected to Stage 3 AA, and Stage 4 mitigation is recommended (PIF# P468-0101-2022).
- Shore Site (AlGw-163): part of the site was subjected to Stage 3 AA (Golder Associates Ltd., 2013b/PIF# P243-217-2011) and Stage 4 excavation (Golder Associates Ltd., 2013c/ PIF# P366-031-2013). A portion of the site is currently subject to avoidance and protection measures, and will require Stage 4 mitigation prior to construction impacts in the future (Golder Associates Ltd., 2016/PIF# P362-0083-2014).

- Location 1 (AlGw-199): this site is currently subject to avoidance and protection measures, and will require Stage 4 mitigation until a recommendation that no further CHVI is made (Archaeological Research Associates Ltd., 2021/PIF# P013-1291-2021).
- Copeland (AlGw-206): the site was subjected to Stage 3 AA, and Stage 4 mitigation is recommended (PIF# P400-0211-2023).

Sites or areas for which further Stage 3 AA remains outstanding:

- Solmar H1 (AlGw-125), H2 (AlGw-126), H3 (AlGw-127), H4 (AlGw-128) and H6 (AlGw-130): Stage 3 AA recommended (Archeoworks, 2021a/PIF# P029-1032-2021).
- AlGw-134, AlGw-135, AlGw-136, AlGw-137 and AlGw-138: the fields on which these sites are located should "continue to be monitored and should there be any proposed future construction of any kind […] additional archaeological investigations will likely be necessary" (TRCA, 2010, p.24/PIF# P303-004-2008).
- AlGw-141 and AlGw-142: long-term protection measures are currently in place, but Stage 3 AA is required prior to developmental impacts to the remainder of each site which had not yet been subjected to Stage 3 AA in 2015 (TRCA, 2016a/PIF# P303-0359-2015 & P303-0430-2016).
- AlGw-146: Stage 3 AA required should impacts to the site and its monitoring zone occur (TRCA, 2017c/PIF# P303-0391-2016).
- AlGw-182: Stage 3 AA required should impacts to the site and its monitoring zone occur (TRCA, 2015a/PIF# P303-163-2013).
- Glacial Loss (AlGw-209): Stage 3 AA recommended (PIF# P379-0467-2022).
- Location 1 (AlGw-213): Stage 3 AA recommended (PIF# P390-0374-2022).
- Shore-Wakely House (designated heritage property, 13304 Coleraine Drive): Stage 2 AA was completed in this property, including the lawn, which yielded artifacts tied to the Shore Site (AlGw-163) (Golder Associates Ltd., 2011/PIF# P243-093-2010 & P218-026-2011). However, the Stage 3 AA for the site did not extend into the entire lawn (Golder Associates Ltd., 2013b/PIF# P243-217-2011), and therefore further work remains outstanding here.
- H4 (AlGw-214), H5 (AlGw-215), H2 (AlGw-216), H3 (AlGw-217) and H6 (AlGw-218): Stage 1-2 AAs have been carried out in a large block of land along the west side of Mount Hope Road, between Columbia Way and Castlederg Sideroad resulting in the identification of a total of 7 Euro-Canadian artifact collections and 4 Indigenous lithic findspots. Stage 3 AA is recommended for five of the Euro-Canadian sites (PIF# P029-1073-2022; P029-1152-2023).

Stage 2 AA is provisionally recommended for previously identified sites whose level of CHVI is not clear and the associated assessment report has not been available for review. This recommendation is subject to change pending the receipt and review of the concerned report:

- Albion Presbyterian Cemetery (AlGw-123): Stage 1-2 AA documented in the ca. 2007 report by Historic Horizon Inc. titled "*Albion Presbyterian (Caven) Cemetery (AlGw-123) Healey and Coleraine Roads, Albion Twp., Town of Caledon, Stage 1 & 2 Archaeological Assessment, Road Periphery, Final Report*."

- Unregistered site on Lot 17, Concession 12, Northern Division, Geographic Township of Toronto Gore: The OASD has a report that details the Stage 1-2 AA of a property south of Mayfield Road and east of Coleraine Drive. The report mapping depicts a dense scatter of artifacts on the aforementioned property, but the report text instead discusses sites named Patilda 1 (AkGw-386), Patilda 2, and Patilda 3 (AkGw-388) which are actually located on a different property (east part of Lot 17, Concession 4 East of Hurontario Street, Geographic Township of Chinguacousy) (This Land Archaeology Inc., 2012/PIF# P059-321-2010). The OASD has no registration data regarding the scatter of artifacts found on Lot 17, Concession 12, and this unnamed/unregistered site's CHVI status is unknown. Pending the receipt of the corrected report, a renewed Stage 1-2 AA is provisionally recommended for the property.

To obtain more artifactual information, a renewed Stage 2 AA is recommended for previously identified sites for which the level of CHVI is not clear, and either: have no available assessment report, have an associated report that does not yield enough information, and/or have imprecise recommendations for further work:

- John Laughlin (AkGw-66): the single lithic artifact from this site was determined to be of "low intrinsic significance," but the Euro-Canadian component was determined to be of "moderate intrinsic significance as an archaeological resource," and "likely to yield Euro-Canadian subsurface remains" (D.R. Poulton & Associates, 1994, pp. 62-63/PIF# PIF-93-010-LIC-1993-088). No recommendation was made explicit in the report.
- AkGw-317, AkGw-318 and AkGw-319: these sites were each recommended to "continue to be monitored in order to determine specific cultural affiliation and site function" (TRCA, 2016a, pp. 40-47/PIF# P303-0359-2015 & P303-0430-2016).
- Harper (AlGw-3): the OASD records this site as yielding "several Archaic projectile points & 1 fluted projectile point." There is no information on the level of CHVI, therefore this site is presumed to retain it.
- Goodfellow (AlGw-4): the OASD records this site as yielding the "base of [a] corner-notched projectile point & chert." There is no information on the level of CHVI, therefore this site is presumed to retain it.
- Castlederg (AlGw-7): the OASD records this site as yielding Euro-Canadian artifacts with "evidence of burning in charcoal and blackened soil areas." There is no clear information on the level of CHVI, therefore this site is presumed to retain it. The TRCA performed a renewed Stage 1-2 AA on the site area in 2005, and indeed found a Euro-Canadian artifact collection — Peel 7-12 (AlGw-117) — in the vicinity. However the report does not make a determination of whether or not both sites are related or the same (TRCA, 2016).
- Judge (AlGw-8): the OASD records this site as yielding two clusters of lithic artifacts. The site "has considerable potential for further investigations" and "represents an excellent candidate for an Archaic period occupation." Therefore the site is considered to retain CHVI.
- G. Robinson (AlGw-10): the OASD records this site as yielding the "chert flakes, 2 core fragments, [a] retouched knife scraper, [and the] base of [a] stemmed point." There is no clear information on the level of CHVI, therefore this site is presumed to retain it.

- J. Downey (AlGw-11): the OASD records this site as yielding "flint flakes and debitage." There is no clear information on the level of CHVI, therefore this site is presumed to retain it.
- Grogan (AlGw-12): the OASD records this site as yielding three different projectile points, and "further investigation" is recommended.
- AlGw-17: the OASD records this site as yielding a chert flake. There is no clear information on the level of CHVI, therefore this site is presumed to retain it.
- Burns/C. Saunders (AlGw-19): the OASD records this site as a "light scatter of sherds around [the] backyard" of a property at the northwest corner of James and Willow Streets in Bolton. There is no clear information on the level of CHVI, therefore this site is presumed to retain it.
- Belly (AlGw-25): the OASD records this site as yielding 9 lithic artifacts which consist of "six flakes, projectile point base, projectile point midsection, one scraper." There is no clear information on the level of CHVI, therefore this site is presumed to retain it.
- Conolly (AlGw-26), Edge (AlGw-27) and Beesting (AlGw-28): each of these sites, consisting of an assemblage of lithic artifacts, was recommended to "continue to be monitored in order to isolate a discrete cluster of artifactual material and to confirm the cultural affiliation and function […]" (TRCA, 1988, pp. 42-46).
- Lotor (AlGw-31): this site, consisting of 8 lithic artifacts (1 projectile point, 1 core, 1 drill, 3 flakes, 1 piece of debitage), was recommended to "continue to be monitored in order to isolate a discrete cluster of artifactual material and to confirm the cultural affiliation and function […]" (TRCA, 1989, pp. 14).
- Westlake (AlGw-32): this site, consisting of 27 lithic artifacts (6 tools and 21 flakes), was recommended to "continue to be monitored in order to isolate a discrete cluster of artifactual material and to confirm the cultural affiliation and function […]" (TRCA, 1989, pp. 18).
- Fleming Shaw Site (AlGw-45): the single lithic artifact from this site was determined to be of "low intrinsic significance," but the Euro-Canadian component was determined to be of "moderate intrinsic significance as an archaeological resource," and "likely to yield Euro-Canadian subsurface remains" (D.R. Poulton & Associates, 1994, pp. 50-51). No recommendation was made explicit in the report.
- Samuel Walford House (AlGw-51): the OASD records this site as a collection of Euro-Canadian artifacts, with the parking area of the property remarked upon as potentially capping subsurface deposits tied to the historic occupation. Therefore this site is presumed to retain CHVI.
- Peel 7-15 (AlGw-87), Peel 7-12 (AlGw-117) and Peel 7-13 (AlGw-118): each of these sites was recommended to "continue to be monitored in order to determine specific cultural affiliation and site function" (TRCA, 2016a, pp. 90-97/PIF# P303-0359-2015 & P303-0430-2016). Note that AlGw-87 is erroneously referred to as AlGw-119 in the TRCA report.
- Peel 5-5 (AlGw-99): this Pre-Contact site was recommended to "continue to be monitored in order to determine specific cultural affiliation and site function" (TRCA, 2016a, p. 47/ PIF# P303-0359-2015 & P303-0430-2016).

- Peel 5-IF.1 (AlGw-100), Peel 5-IF.2 (AlGw-101), Peel 5-IF.3 (AlGw-102), Peel 5-IF.4 (AlGw-103) and Peel 5-IF.5 (AlGw-104): each of these findspots was recommended to "continue to be monitored in order to determine specific cultural affiliation and site function" (TRCA, 2016a, pp. 53-61/PIF# P303-0359-2015 & P303-0430-2016).
- Peel 6-6 (AlGw-105), Peel 6-7 (AlGw-106), Peel 6-8 (AlGw-107), Peel 6-9 (AlGw-108), Peel 6-10 (AlGw-109), Peel 6-11 (AlGw-110) and Peel 6-12 (AlGw-111): each of these sites was recommended to "continue to be monitored in order to determine specific cultural affiliation and site function" (TRCA, 2016a, pp. 61-75/PIF# P303-0359-2015 & P303-0430-2016).
- Peel 6-IF.1 (AlGw-112), Peel 6-IF.2 (AlGw-113), Peel 6-IF.3 (AlGw-114), Peel 6-IF.4 (AlGw-115) and Peel 6-IF.5 (AlGw-116): each of these findspots was recommended to "continue to be monitored in order to determine specific cultural affiliation and site function" (TRCA, 2016a, pp. 82-90/PIF# P303-0359-2015 & P303-0430-2016).

To obtain more artifactual information, at least Stage 2 AA is recommended for the presumed extensions of archaeological sites that have not yet been subjected to any form of archaeological fieldwork:

- Harper Site (AlGw-172): the Stage 4 excavation report acknowledges that the site likely extends into the adjacent property (Archeoworks Inc., 2013f/PIF# P390-0039-2013). This unassessed portion will therefore require Stage 2 AA.
- Lougheed Site (AlGw-194): the Stage 4 excavation report acknowledges that the site likely extends into the adjacent property (Earthworks Archaeological Services, 2023/PIF# P321-0360-2022). This unassessed portion will therefore require Stage 2 AA.

Areas for which construction monitoring to determine the presence or absence of unmarked burials has been recommended:

- Certain areas along the north and west edges of St. Patrick's Catholic Cemetery: a licensed archaeologist is required to monitor construction work in these areas (Archeoworks, 2016e/PIF# P013-1153-2016).

3.1.2 Identified Areas of Land-Based Archaeological Potential

The general study area retains the established archaeological potential. These areas include but are not limited to: agricultural fields, open grasslands, wooded areas/woodlots, grassed road margins and residential frontages/backyards, and areas of overgrown vegetation (***see Maps 12-13***).

Given the established potential to recover archaeological resources within these identified areas, a Stage 2 AA will be required. The study area must be subjected to pedestrian survey at five-metre intervals, in accordance with the standards outlined in *Section 2.1.1* of the *2011 S&G*. However, in areas where ploughing is not possible or viable (e.g., wooded areas; pasture with high rock content; abandoned farmland with heavy brush and weed growth; gardens, parklands or lawns/pastures which will remain in use for several years after the survey; lands where existing landscaping or infrastructure would be damaged) or the area to be surveyed is narrow (ten

metres wide or less)), a systematic Stage 2 test pit survey at five-metre intervals must be performed, in accordance with the standards outlined in *Section 2.1.2* of the *2011 S&G*.

3.1.3 Identified Deep and Extensive Disturbances

The study area was evaluated for deep and extensive land alterations – commonly referred to as disturbances – that have severely impacted the integrity of any archaeological resources. Per *Section 1.3.2* of the *2011 S&G*, these include, but are not limited to: quarrying, major landscaping involving grading below topsoil, building footprints, or sewage and infrastructure development.

Obvious disturbances noted within the study area include (but are not limited to): the various asphalt roadways and associated features within the road right-of-way (e.g., gravel shoulders, concrete curbs and barriers, cut slopes and embankments, shallow and deep drainage ditching, utilities, etc.), building footprints (e.g., residential houses, barns, outbuildings and sheds; commercial and small industrial structures), graded landscapes, asphalt and gravel driveways and parking areas, and the extant railroad tracks.

The construction of these features would likely have resulted in severe damage to the integrity of any archaeological resources which may have been present within their footprints and, as such, are exempt from requiring a systematic Stage 2 AA. It must be noted that given the size of the study area, only the larger developments and more prominent areas of disturbance have been marked in **Maps 12-13**. Once more detailed project designs are available, and as archaeological potential is present, on-site confirmation and documentation of the actual condition and exact extent of the disturbances within the proposed areas of impact will be required during a detailed property inspection during a Stage 2 AA, in accordance with *Section 2.1.8* of the *2011 S&G*.

3.1.4 Identified Physical Features of No or Low Archaeological Potential

The study area was also evaluated for physical features of no or low archaeological potential. These usually include but are not limited to: areas of saturated conditions, exposed bedrock, and steep slopes (greater than 20°) except in locations likely to contain pictographs or petroglyphs, as per *Section 2.1, Standard 2.a* of the *2011 S&G.*

Physical features of low or no archaeological potential include but are not limited to: saturated conditions within the terrain associated with the Humber River and its numerous tributaries (not including actual waterbodies themselves), and steeply sloping terrain that occur throughout the study area.

While tentatively identified as having no or low archaeological potential, these areas still require on-site documentation and Stage 2AA testing to determine their full extent. It must be noted that **Maps 12-13** do not depict the exact extent of areas of steep slope and saturated soil conditions, given the large size of the study area. Once more detailed project designs are available, on-site confirmation and documentation of the actual condition and exact extent of areas with saturated soil conditions and steep slopes within the proposed areas of impact will be required during the detailed property inspection during a Stage 2 AA.

3.1.5 Identified Areas of Marine-Based Archaeological Potential

Waterbodies — namely the Humber River and its tributaries or branches (including both natural and historical, man-made channels) — are also present within the study area. A systematic Stage 2 test pit or pedestrian survey is not required within waterbodies during a land-based AA, as an assessment under the *2011 S&G* is not able to confirm the presence or absence of marine archaeological resources within these areas. However, prior to any in-water impacts, these areas must be further evaluated using alternative methods for the potential to encounter marine-based archaeological resources.

As previously mentioned, the study area encompasses a segment of the Humber River, as well as its natural branches and tributaries and manmade channels. The cold, fresh waters of many of Ontario's lakes and rivers are recognized for conserving evidence of the province's history of exploration, settlement and commerce. There is potential to encounter evidence of both pre- and post-contact peoples' use within these water sources. A 'marine archaeological site' — "an archaeological site that is fully or partially submerged or that lies below or partially below the high-water mark of any body of water" (Government of Ontario, 2022) — can exist within waterbodies in Ontario.

As the *2011 S&G* only apply to land-based archaeology, if impacts are to occur within any of the aforementioned waterbodies within the study area (***see Maps 12-13***), the *MCM*'s *Criteria for Evaluating Marine Archaeological Potential* checklist must be completed, and a marine archaeological assessment undertaken by a licensed marine archaeologist must be carried out if required.

3.1.6 Cemeteries

As per the *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 no intrusive activity may occur within the limits of a cemetery without consent from the *BAO*. The *Registrar's Directive: Authorization for Stage 2-4 Archaeological Fieldwork (Assessments and Investigations) on Cemetery Lands (updated as of February 12, 2021)* also requires that a Cemetery Investigation Authorization (CIA) be obtained whenever archaeological investigations are contemplated to verify and/or determine the boundaries of a cemetery where available documents cannot confirm the existence and exact locations of burials within that cemetery. The CIA will relieve the archaeologist of the prohibition and liability related to the intentional disturbance of a human burial within a cemetery should such an incident occur.

Ten cemeteries are located within the study area (***see Section 1.4.5 for details***). These historic cemeteries are considered sensitive cultural resources of high archaeological potential. Nineteenth century historic cemeteries were not highly regulated, and often employed markers of little substance that have since disappeared. The possible absence of grave markers can result in inaccurate depictions of the recognized cemetery property limits. Furthermore, the 'sneaking' of burials near the property limits of cemeteries is a phenomenon associated with early 19th century church burial grounds where the congregation influenced who was buried within the cemetery. Therefore, it is normally recommended by the *MCM* and the *BAO* that a cemetery

investigation begin at least ten metres from the known cemetery property limits (the "cemetery investigation area") and moving inward, to ensure minimal disturbance to potential burial features. Should any impacts be contemplated within ten metres of known cemeteries, or within the cemeteries themselves, further archaeological assessment will be required.

Given that no portion of the Focus Area lies within ten metres of a cemetery, no further background research and property visit was carried out for this Stage 1 AA. Preliminary recommendations regarding the cemeteries within the study area were presented to the MCM; these initially recommending cemetery investigation within ten metres around each cemetery. Feedback from the MCM resulted in revising the width of the cemetery investigation areas to 20 metres around each cemetery's assumed boundaries in order to account for "rare instances where the cemetery extends a great distance beyond the assumed boundaries" (***see Supplementary Document – Section 3.0***).

3.1.7 Conclusions

Based on the background research, archaeological potential for the recovery of archaeologically significant materials has been established within the general study area. Where archaeological potential had been identified, a desktop review of ground conditions was undertaken using past and current aerial imagery to determine if recent disturbance removed this potential classification. Areas of previous disturbance were identified; these locations are considered to have no or low archaeological potential and are marked in **Maps 12-13** as requiring no further assessment pending on-site confirmation of their exact condition and extent.

It must be noted that waterbodies cannot be assessed under the *2011 S&G*. However, waterbodies within the general study area retain potential for marine archaeological sites. Therefore, should project plans involve in-water impacts, they must be evaluated for marine-based archaeological potential using the *Ministry of Citizenship and Multiculturalism (MCM)'s Criteria for Evaluating Marine Archaeological Potential* checklist, and a marine archaeological investigation undertaken by a licensed marine archaeologist must be carried out if determined to be necessary.

For now, the only areas that can be definitively eliminated from requiring further AA within the study area are those for which a previous assessment report — which has been accepted by the *MCM* into the Ontario Public Registry of Archaeological Reports — recommended either: 1) that the property be cleared of requiring further archaeological assessment, or 2) that the discovered archaeological site no longer retained cultural heritage value or interest.

Generally, a Stage 2 AA using appropriate methods (i.e., pedestrian survey in ploughed and weathered fields, and test pit survey everywhere else) is being recommended for the balance of the study area. However, there are several registered archaeological sites and cemeteries with cultural heritage value or interest (CHVI) located within and immediately adjacent to the general study area. Any proposed impacts within or in proximity to these sites and cemeteries will require further archaeological investigation.

3.2 Focus Area

3.2.1 Previous Archaeological Assessments

Comprehensive background research revealed that almost all portions of the Focus Area have already been subjected to a previous archaeological assessment (***see Section 3.2.1***), sometimes resulting in the discovery of archaeological sites (***see Section 3.2.3***).

3.2.1.1 No Further Archaeological Assessment Required

Lands encompassed within the Focus Area which have already been subjected to an archaeological assessment (Stage 1 background study, Stage 2 property assessment, Stage 3 site-specific assessment, and/or Stage 4 mitigation of development impacts) and cleared of further archaeological concerns are recommended to be exempt from further assessment (***see Maps 15-16***). No additional archaeological assessment is required within these lands.

Specifically within the Focus Area, the following assessments have specifically cleared certain lands of further archaeological concern (***see Map 14***):

- PIF# P029-859-2013 (Archeoworks Inc., 2013a)
- PIF# P303-035-2009 (Toronto and Region Conservation Authority [TRCA], 2011d)
- PIF# P303-083-2010 & P303-101-2011 (TRCA, 2012a)
- PIF# P303-0454-2017 (TRCA, 2017f)
- PIF# P334-045-2011 (Archeoworks Inc., 2013c)
- PIF# P334-176-2012 (Archeoworks Inc., 2014a)
- PIF# P338-0112-2015 (TRCA, 2016b)
- PIF# P383-0211-2020 (ASI, 2021a)
- PIF# P390-0067-2013 (Archeoworks Inc., 2015c)

3.2.1.2 No Further Archaeological Assessment Required, Pending MCM Approval

As previously mentioned, Archeoworks Inc. has carried out a Stage 1-2 AA on lands along the west side of Mount Hope Road, between Columbia Way and Castlederg Side Road, under PIF# P029-1073-2022 (***see Map 14***). The portion of this assessment that falls within the limit of the Focus Area specifically resulted in the identification of H7, a collection of ten Euro-Canadian artifacts representing a dumping episode which does not merit further Stage 3 AA; therefore there are no further archaeological concerns for this portion of the Focus Area. It must be noted, however, that the submission of the Stage 1-2 AA report and its acceptance into the *Ontario Public Register of Archaeological Reports* by the MCM is still pending.

3.2.1.3 Further Archaeological Assessment Required

Properties and archaeological sites listed in this subsection still have outstanding archaeological concerns that require specific attention. Prior to any soil-intrusive activities within the properties and near the archaeological sites enumerated below, copies of the associated reports (if available) must be obtained to review the recommendations for further archaeological assessment. Maps depicting the locations of archaeological sites and extents of properties with

outstanding archaeological concerns are provided in the attached ***Supplementary Document*** as **Maps S1-S5**.

Sites or areas within 50 metres of the Focus Area for which further archaeological concerns remain include:

- AlGw-135 and AlGw-137: the fields on which these sites are located should "continue to be monitored and should there be any proposed future construction of any kind […] additional archaeological investigations will likely be necessary" (TRCA, 2010, p.24/PIF# P303-004-2008).
- Harper Site (AlGw-172): The Stage 4 excavation report acknowledges that the site likely extends into the adjacent property (Archeoworks Inc., 2013f/PIF# P390-0039-2013). To obtain more artifactual information, at least Stage 2 AA is recommended for the extension of this site in order to determine if further work will be necessary. Furthermore, should construction impacts be planned to extend right up to the ROW limit, a barrier must be erected to avoid and protect the extension of the site from disturbance.
- H6 (AlGw-218): Stage 3 AA is recommended for this site (P029-1073-2022).

3.2.2 Identified Deep and Extensive Disturbances

The previously unassessed portions of the Focus Area were evaluated for deep and extensive land alterations – commonly referred to as disturbances – that have severely impacted the integrity of any archaeological resources. Per *Section 1.3.2* of the *2011 S&G*, these include, but are not limited to: quarrying, major landscaping involving grading below topsoil, building footprints, or sewage and infrastructure development.

Obvious disturbances noted within the eight previously unassessed portions of the Focus Area include (but are not limited to): the various asphalt roadways and associated features within the road right-of-way (e.g., gravel shoulders, cut slopes and embankments, shallow and deep drainage ditching, utilities, etc.), paved driveways and parking areas.

The construction of these features would likely have resulted in severe damage to the integrity of any archaeological resources which may have been present within their footprints and, as such, are exempt from requiring a systematic Stage 2 property survey (***see Maps 16-21***).

3.2.3 Identified Physical Features of No or Low Archaeological Potential

The study area was also evaluated for physical features of no or low archaeological potential. These usually include but are not limited to: areas of saturated soil conditions, exposed bedrock, and steep slopes (greater than 20°) except in locations likely to contain pictographs or petroglyphs, as per *Section 2.1, Standard 2.a* of the *2011 S&G.*

Physical features of low or no archaeological potential within the eight previously unassessed portions of the Focus Area include but are not limited to: saturated soil conditions within the Highway 50 and Mount Hope ROWs, and the marshy area at the western edge of the 14475 Highway 50 property.

Due to their low to no archaeological potential classification, these areas within the Focus Area are exempt from requiring a systematic Stage 2 property survey (***see Maps 16-21***).

Waterbodies — namely areas of standing water at the eastern end of 14475 Highway 50 — are also present within the Focus Area. A systematic Stage 2 test pit or pedestrian survey is not required within waterbodies during a land-based AA, as an assessment under the *2011 S&G* is not able to confirm the presence or absence of marine archaeological resources within these areas. However, prior to any in-water impacts, these areas must be further evaluated using alternative methods for the potential to encounter marine-based archaeological resources (***see Section 2.1.5***).

3.2.4 Identified Areas of Land-Based Archaeological Potential

Portions of the Focus Area which have not been previously assessed and/or cleared of further archaeological concern, and do not exhibit extensively disturbed conditions nor contain physical features of low to no archaeological potential, are considered to retain archaeological potential. These areas include but are not limited to: agricultural fields, open grasslands, wooded areas/woodlots, grassed road margins and residential frontages/backyards, and areas of overgrown vegetation (***see Maps 16-21***).

Given the established potential to recover archaeological resources within these identified areas, a Stage 2 AA will be required. The actively or recently cultivated agricultural fields must be subjected to pedestrian survey at five metre transects in accordance with *Section 2.1.1* of the *2011 S&G*. In all other areas where ploughing is not possible or viable, a Stage 2 test pit survey at five metre intervals must be performed, in accordance with the standards outlined in *Section 2.1.2* of the *2011 S&G*.

Specifically within the Focus Area, areas retaining archaeological potential include:

A. Within the current King Street/RR 9 ROW limits: strips of land immediately fronting 8264, 8286 and 8302 King Street, between the north side ditching and the ROW limit.
B. Within the current Emil Kolb Parkway/RR 150 ROW limits: strip of land fronting 14219 Emil Kolb Parkway, between the east side ditching and the ROW limit.
C. Immediately outside the Emil Kolb Parkway/RR 150 ROW limits: undisturbed lands flanking the old road alignment just east of the Humber River crossing.
D. Immediately outside the Emil Kolb Parkway/RR 150 ROW limits: undisturbed land at the southwest corner of the Duffys Lane–Emil Kolb Parkway intersection.
E. Within the current Emil Kolb Parkway/RR 150 ROW limits: strip of land extending westward from the Highway 50–Emil Kolb Parkway intersection, between the row of coniferous trees and the ROW limit/row of deciduous trees.
F. Within the current Highway 50 ROW limits: undisturbed lands flanking the road, between the roadside ditching and the ROW limit, except for areas of saturated soil conditions.
G. Within private lands between Highway 50 and Mount Hope Road: the agricultural field and wooded areas of 14475 Highway 50.

H. Within the current Mount Hope Road ROW limits: undisturbed lands flanking the road, between the roadside ditching and the ROW limit, except for areas of saturated soil conditions, cut slope and road embankments.

3.2.5 Identified Areas of Marine-Based Archaeological Potential

As previously mentioned, the Focus Area encompasses waterbodies located within the east end of 14475 Highway 50. The cold, fresh waters of many of Ontario's lakes and rivers are recognized for conserving evidence of the province's history of exploration, settlement and commerce. There is potential to encounter evidence of both pre- and post-contact peoples' use within these water sources. A 'marine archaeological site' — "an archaeological site that is fully or partially submerged or that lies below or partially below the high-water mark of any body of water" (Government of Ontario, 2022) — can exist within waterbodies in Ontario.

As the *2011 S&G* only apply to land-based archaeology, if impacts are to occur within any of the aforementioned waterbodies within the Focus Area (***see Map 18***), the *MCM*'s *Criteria for Evaluating Marine Archaeological Potential* checklist must be completed, and a marine archaeological assessment undertaken by a licensed marine archaeologist must be carried out if required.

3.2.6 Cemeteries

As previously mentioned (***see Section 3.1.6***) the Focus Area neither encompasses a cemetery nor immediately abuts a cemetery, and therefore no further background research and cemetery visit was carried out for this Stage 1 AA.

3.2.7 Conclusions

Based on the background research, archaeological potential for the recovery of archaeologically significant materials has been established within the Focus Area. Background research also revealed that a majority of the Focus Area had already been cleared of archaeological concerns through previous archaeological assessments (***see Section 1.4.7; Map 15***). The eight unassessed areas were first subjected a desktop review of ground conditions using past and current aerial imagery to determine if recent disturbance removed this potential classification. The extents of the areas of previous disturbance were confirmed during property inspection (***see Section 2.0***); these locations are considered to have no or low archaeological potential and are marked in **Maps 16-21** as requiring no further assessment.

Property inspection also confirmed the extents of areas of saturated soil conditions (***see Section 2.0***); these locations are also considered to have no or low archaeological potential and are marked in **Maps 16-21** as requiring no further assessment.

It must be noted that waterbodies, including the ones situated in the east end of 14475 Highway 50, cannot be assessed under the *2011 S&G*. However, waterbodies within the Focus Area retain potential for marine archaeological sites. Therefore, should project plans involve in-water impacts, they must be evaluated for marine-based archaeological potential using the *Ministry of Citizenship and Multiculturalism (MCM)'s Criteria for Evaluating Marine Archaeological Potential*

checklist, and a marine archaeological investigation undertaken by a licensed marine archaeologist must be carried out if determined to be necessary.

A Stage 2 AA using appropriate methods (i.e., pedestrian survey in ploughed and weathered fields, and test pit survey everywhere else) is being recommended for the undisturbed balance of the Focus Area.

It must also be noted that there are four registered archaeological sites with further archaeological concerns — AlGw-135, AlGw-137, H6 (AlGw-218), and the extension of the Harper (AlGw-172) site — located within 50 metres of the Focus Area. Any proposed impacts within or in close proximity to these sites will require further archaeological investigation. Furthermore, any proposed impacts within the ROW that are to occur right next to the lands upon which these sites are situated will require the execution of avoidance and protection measures in order to prevent damage to the archaeological resources.

Detailed recommendations are provided within **Section 4.0**.

4.0 RECOMMENDATIONS

Considering the findings outlined within this report, the following recommendations are presented (recommendations specific to the Focus Area underlined):

1. Waterbodies cannot be assessed under the *2011 S&G*. However, waterbodies within the study area retain potential for marine archaeological sites. Therefore, projects involving in-water impacts must be evaluated for marine-based archaeological potential using the *Ministry of Citizenship and Multiculturalism (MCM)'s Criteria for Evaluating Marine Archaeological Potential* checklist, and a marine archaeological investigation undertaken by a licensed marine archaeologist must be carried out if determined to be necessary.

   Specifically relevant to the Focus Area: prior to in-water impacts, the bodies of water in the east end of 14475 Highway 50 will need to be evaluated for marine archaeological potential.

2. Lands which have already been subjected to a previous archaeological assessment (Stage 1 AA, Stage 2 AA, Stage 3 AA and/or Stage 4 Mitigation), deemed free of further archaeological concern, have no recommendations for further work and/or determined to no longer retain cultural heritage value or interest (CHVI) — and with the associated report accepted by the *MCM* into the *Ontario Public Register of Archaeological Reports* — are recommended to be exempt from further assessment. No further work is required within the scope of this project.

   Specifically within the Focus Area: most of the lands within the current ROW limits of Emil Kolb Parkway/Regional Road 150 and Columbia Way, as well as segments of King Street/Regional Road 9 and Highway 50, require no further assessment.

3. Should project plans involve proposed impacts to or in the immediate vicinity of archaeological sites for which remaining archaeological concerns have been addressed, but the associated fieldwork reports are still in the draft stage or are awaiting *MCM* approval — H1 (AkGw-495); H2 (AkGw-496); H1 (AkGw-507); H2 (AkGw-508); H1 (AkGw-512); W. Jaffery (AlGw-192); AlGw-201; AlGw-202; O'Leary (AlGw-203); Mary (AlGw-204); AlGw-205; and P3 (AlGw-219) — renewed review of the associated fieldwork reports is required in order to confirm whether or not these sites (or portions thereof) still retain CHVI and thereby inform appropriate strategies.

4. Should project plans involve proposed impacts to or in the immediate vicinity of archaeological sites previously determined to require either Stage 3 AA or Stage 4 mitigation — Solmar H1 (AlGw-125); Solmar H2 (AlGw-126); Solmar H3 (AlGw-127); Solmar H4 (AlGw-128); Solmar H6 (AlGw-130); AlGw-134, AlGw-135, AlGw-136, AlGw-137; AlGw-138; AlGw-141; AlGw-142; AlGw-146; AlGw-182; Glacial Loss (AlGw-209); Location 1 (AlGw-213); H4 (AlGw-214); H5 (AlGw-215); H2 (AlGw-216); H3 (AlGw-217);

and H6 (AlGw-218) — as well as the rear lawn of the Shore-Wakely House (13304 Coleraine Drive), the appropriate stage of archaeological investigation in accordance with recommendations in their respective reports must be carried out.

Specifically relevant to the Focus Area: should project designs involve impacts to the fields on which the sites AlGw-135 and AlGw-137 (i.e., along the west side of Highway 50) and AlGw-218 (i.e., along the west side of Mount Hope Road) are situated, further Stage 3 AA will be required. Furthermore, should construction impacts extend right up to the ROW limit in any of these aforementioned areas:

a. For each of the sites the proponent must erect a temporary barrier along the limit of the project area, issue "no-go" instructions to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction, and show the location of the area to be avoided, with explicit instructions or labelling to avoid that area on all contract drawings when available. Maps depicting the extent of the temporary barriers and the areas for avoidance are provided in the attached **Supplementary Document** as **Maps S4-S5**.
b. A licensed archaeologist must inspect and monitor the area to be avoided during grading or other soil-disturbing activities to verify the effectiveness of avoidance strategies. If alteration of the archaeological site is observed at any time during the construction, the MCM must be notified immediately.
c. Following the completion of the grading and other soil disturbing activities, a licensed archaeologist must inspect and file a Stage 4 avoidance and protection report to the MCM on the effectiveness of the strategy in ensuring that the area to be avoided remains intact.

5. Should project plans involve proposed impacts to or in the immediate vicinity of the unregistered artifact scatter depicted in the report tied to PIF# P059-321-2010 (This Land Archaeology, 2012) a renewed Stage 2 AA must be carried out beforehand to more clearly identify whether further Stage 3 AA is merited. This recommendation is subject to change pending the receipt and review of the report with the corrected text.

6. Should project plans involve proposed impacts to or in the immediate vicinity of archaeological sites with sparse information or imprecise recommendations — namely, John Laughlin (AkGw-66); AkGw-317; AkGw-318; AkGw-319; Harper (AlGw-3); Goodfellow (AlGw-4); Castlederg (AlGw-7); Judge (AlGw-8); G. Robinson (AlGw-10); J. Downey (AlGw-11); Grogan (AlGw-12); AlGw-17; Burns/C. Saunders (AlGw-19); Belly (AlGw-25); Conolly (AlGw-26); Edge (AlGw-27); Beesting (AlGw-28); Lotor (AlGw-31); Westlake (AlGw-32); Fleming Shaw Site (AlGw-45); Samuel Walford House (AlGw-51); Peel 7-15 (AlGw-87), Peel 7-12 (AlGw-117); Peel 7-13 (AlGw-118); Peel 5-5 (AlGw-99); Peel 5-IF.1 (AlGw-100); Peel 5-IF.2 (AlGw-101); Peel 5-IF.3 (AlGw-102); Peel 5-IF.4 (AlGw-103); Peel 5-IF.5 (AlGw-104); Peel 6-6 (AlGw-105); Peel 6-7 (AlGw-106); Peel 6-8 (AlGw-107); Peel 6-9 (AlGw-108); Peel 6-10 (AlGw-109); Peel 6-11 (AlGw-110); Peel 6-12 (AlGw-111); Peel 6-IF.1 (AlGw-112); Peel 6-IF.2 (AlGw-113); Peel 6-IF.3 (AlGw-114); Peel 6-IF.4 (AlGw-

115); Peel 6-IF.5 (AlGw-116) — a Stage 2 AA must be carried out beforehand to more clearly identify whether further Stage 3 AA is merited.

7. Should project plans involve impacts to unassessed lands immediately outside the current Emil Kolb Parkway/Regional Road 150 ROW limit where the extension of the Harper Site (AlGw-172) lies, a Stage 2 AA must be carried out to assess the state of the remainder of this archaeological site, and more clearly identify whether further Stage 3 AA and/or Stage 4 mitigation is merited.

   Specifically relevant to the Focus Area, should construction impacts extend right up to the ROW limit in the vicinity of the Harper Site (AlGw-172) extension:
   a. The proponent must erect a temporary barrier along the limit of the project area, issue "no-go" instructions to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction, and show the location of the area to be avoided, with explicit instructions or labelling to avoid that area on all contract drawings, when available. A map depicting the extent of the temporary barrier and the area for avoidance are provided in the attached **Supplementary Document** as **Map S2**.
   b. A licensed archaeologist must inspect and monitor the area to be avoided during grading or other soil-disturbing activities to verify the effectiveness of avoidance strategies. If alteration of the archaeological site is observed at any time during the construction, the MCM must be notified immediately.
   c. Following the completion of the grading and other soil disturbing activities, a licensed archaeologist must inspect and file a Stage 4 avoidance and protection report to the MCM on the effectiveness of the strategy in ensuring that the area to be avoided remains intact.

8. Should project plans involve impacts to unassessed lands immediately south of the mitigated portion of the Lougheed Site (AlGw-194), a Stage 2 AA must be carried out to assess the state of the presumed extension of this archaeological site, and more clearly identify whether further Stage 3 AA and/or Stage 4 mitigation is merited.

9. Parts of the study area that were identified as having archaeological potential removed (i.e., areas of deep and extensive disturbances) are exempt from requiring Stage 2 AA; the extents of these areas are to be confirmed through a detailed on-site property inspection during a Stage 2 AA as per *Section 2.1.8* of the *2011 S&G*.

   Specifically within the Focus Area, this includes: the paved road platforms and associated roadside ditching along King Street/Regional Road 9, Highway 50 and Mount Hope Road; the extant driveways of 8264, 8286 and 8302 King Street, 14219 Emil Kolb Parkway, 14245, 14289, 14291, 14337, 14442, 14445 Highway 50; 9408 Columbia Way; 14190, 14195, 14320, 14383, 14395, 14400, 14409, 14414, 14421, 14432, 14461, 14559, 14676, 14690 Mount Hope Road; the cut slope and road embankment along Mount Hope Road;

and the abandoned road alignment at the side of Emil Kolb Parkway just east of the Humber River.

10. Parts of the general study area that were identified as having no or low archaeological potential (i.e., areas of saturated conditions or steep slope) are exempt from requiring Stage 2 AA; the extents of these areas are to be confirmed through a detailed on-site property inspection during a Stage 2 AA.

    Specifically within the Focus Area: areas that have been confirmed through property inspection as exhibiting saturated soil conditions — namely portions of the Highway 50 and Mount Hope Road ROWs, and the westernmost edge of the 14475 Highway 50 property — are exempt from requiring further Stage 2 AA.

11. As per the *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 no intrusive activity may occur within the Albion Presbyterian Cemetery, Bolton Anglican & Methodist Cemeteries, Bolton Congregational Cemetery, Columbia Primitive Methodist Cemetery, Castlederg Wesleyan Methodist Cemetery, Godbolt Primitive Methodist Cemetery, Laurel Hill Cemetery, Plummer Family Cemetery, Shiloh Cemetery and St. Patrick's Roman Catholic Cemetery without consent from the cemetery operator and the *BAO*.
    a. Should lands within the current municipally recognized cemetery limits of each of the aforementioned cemeteries be proposed to be impacted, additional archaeological investigation (e.g., Stage 1 background research and optional property inspection; Stage 2/3/4 investigations; construction monitoring) is required. A Cemetery Investigation Authorization (CIA) issued by the *Bereavement Authority of Ontario* is also required and needs to be obtained prior to conducting any soil-intrusive work (e.g., Stage 2/3/4 investigations; construction monitoring).

12. Should proposed construction impacts extend beyond the limits of the Focus Area and occur within the swaths of land immediately adjacent to the Albion Presbyterian Cemetery, Bolton Anglican & Methodist Cemeteries, Bolton Congregational Cemetery, Columbia Primitive Methodist Cemetery, Castlederg Wesleyan Methodist Cemetery, Godbolt Primitive Methodist Cemetery, Laurel Hill Cemetery, Plummer Family Cemetery, Shiloh Cemetery and St. Patrick's Roman Catholic Cemetery, further Stage 1 archaeological assessment consisting of more comprehensive background research (including documentary research) and property inspection, is required to determine the potential to encounter unmarked burials within 20 metres of the assumed boundaries of each cemetery and to determine the appropriate Stage 2/3/4 fieldwork strategies if necessary. It must be noted, however, that previous archaeological investigations have been carried out in the immediate vicinity of certain cemeteries, for which specific recommendations still stand:
    a. Should project plans involve proposed impacts to lands in the immediate vicinity of the Albion Presbyterian Cemetery (AlGw-123), a renewed Stage 1 and 2 AA, followed by a Stage 3 investigation by mechanical topsoil removal, is required. This

recommendation is subject to change pending the receipt and review of the concerned ca. 2007 report.

b. Should project plans involve proposed impacts to lands in the immediate vicinity of the St. Patrick's Catholic Cemetery, it must be noted that specific recommendations apply to areas in the north and west: a licensed archaeologist is required to monitor construction work in these areas (PIF# P013-1153-2016). However, the remaining edges of the cemetery still require further investigation prior to construction impacts.
c. The frontage of Shiloh Cemetery within the existing Highway 50 ROW has been determined to no longer retain potential for burials or archaeological resources (PIF# P094-097-2011). However, the remaining edges of the cemetery still require further investigation prior to construction impacts.

13. All other areas identified as retaining archaeological potential must be subjected to a Stage 2 AA. These areas must be subjected to pedestrian or test pit survey, as appropriate, at five-metre intervals in accordance with the standards set within *Sections 2.1.1* and *2.1.2* of the *2011 S&G*.

    Specifically within the Focus Area, these include:
    - Within the current King Street/RR 9 ROW limits:
        - Strips of land fronting 8264, 8286 and 8302 King Street, between the north side ditching and the ROW limit.
    - Within the current Emil Kolb Parkway/RR 150 ROW limits:
        - Strip of land fronting 14219 Emil Kolb Parkway, between the east side ditching and the ROW limit.
        - Strip of land extending westward from the Highway 50–Emil Kolb Parkway intersection, between the row of coniferous trees and the ROW limit/row of deciduous trees.
    - Immediately outside the Emil Kolb Parkway/RR 150 ROW limits:
        - Undisturbed lands flanking the old road alignment just east of the Humber River crossing.
        - Undisturbed land at the southwest corner of the Duffys Lane–Emil Kolb Parkway intersection.
    - Within the current Highway 50 ROW limits:
        - Undisturbed lands flanking the road, between the roadside ditching and the ROW limit, except for areas of saturated soil conditions.
    - Within private lands between Highway 50 and Mount Hope Road:
        - The agricultural field and wooded areas of 14475 Highway 50.
    - Within the current Mount Hope Road ROW limits:
        - Undisturbed lands flanking the road, between the roadside ditching and the ROW limit, except for areas of saturated soil conditions, cut slope and road embankments.

14. All lands within the general study area and focus area owned and under the jurisdiction of the Toronto and Region Conservation Authority (TRCA) will be subjected to archaeological survey conducted by the TRCA and assessed in a separate report completed by the TRCA.

No construction activities shall take place within the general study area or focus area prior to the *MCM* (Archaeology Programs Unit) confirming in writing that all archaeological licensing and technical review requirements have been satisfied.

5.0 ADVICE ON COMPLIANCE WITH LEGISLATION

1. This report is submitted to the *MCM* as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c. 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the *MCM*, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

2. It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

3. Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*.

4. The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 (when proclaimed in force) requires that any person discovering human remains must notify the police or coroner and the Registrar at the *Ministry of Public and Business Service Delivery and Procurement*.

5. Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the Ontario Heritage Act and may not be altered, or have artifacts removed from them, except by a person holding an archaeological licence.

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AMICK Consultants Limited (2015d). *Stage 1-2 Archaeological Assessment of the Proposed Draft Plan of Subdivision, Part of Lot 17, Concession 8, Northern Division (Geographic Township of Toronto Gore, County of Peel), City of Brampton, Regional Municipality of Peel*. (PIF# P058-1508-2014).

AMICK Consultants Limited (2015e). *Stage 1-2 Archaeological Assessment of the West Half of Lot 11 Concession 5, Town of Caledon, Township of Albion, Regional Municipality of Peel*. (PIF# P038-0872-2016).

AMICK Consultants Limited (2016). *Stage 1-2 Archaeological Assessment of 11423 McVean Drive, Part of Lot 16, Concession 9 (Geographic Township of Toronto Gore, County of Peel), City of Brampton, Regional Municipality of Peel.* (PIF# P038-0848-2016).

AMICK Consultants Limited (2017). *Stage 1-2 Archaeological Assessment of 12944 Albion Vaughan Road, Part of Lot 5, Concession 7 (Geographic Township of Albion, County of Peel), Town of Caledon, Regional Municipality of Peel*. (PIF# P058-1625-2017).

AMICK Consultants Limited (2018a). *Stage 1-2 Archaeological Assessment of 336 King Street East, Part of Lot 8, Concession 7 (Geographic Township of Albion, County of Peel), Town of Caldeon, Regional Municipality of Peel*. (PIF# P038-0958-2018).

AMICK Consultants Limited (2018b). *Stage 1-2 Archaeological Assessment of 49 King Street East, Part of Lot 22, Block 5, Plan BOL-7, Formerly in the Village of Bolton, Township of Albion, County of Peel, now in the Town of Caledon, Regional Municipality of Peel. Revised Report*. (PIF# P058-1615-2017).

AMICK Consultants Limited (2018c). *Stage 1-2 Archaeological Assessment of 6875 & 6889 Mayfield Road, Part of Lot 17, Concession 8 (Geographic Township of Toronto Gore, County of Peel), City of Brampton. Revised Report*. (PIF# P038-0905-2017).

AMICK Consultants Limited (2018d). *Stage 1-2 Archaeological Assessment of Clearbay 10799 Clarkway Drive, Part of Lot 15, Concession 11 ND (Geographic Township of Toronto Gore, County of Peel), City of Brampton, Regional Municipality of Peel. Revised Report*. (PIF# P038-0845-2016).

AMICK Consultants Limited (2018e). *Stage 3 Archaeological Assessment of the W. Jeffery (AlGw-192) Site, Located at 49 King Street East, Part of Lot 22, Block 5, Plan BOL-7, Formerly in the Village of Bolton, Township of Albion, County of Peel, now in the Town of Caledon, Regional Municipality of Peel*. (PIF# P038-0912-2017).

AMICK Consultants Limited (2023). *Stage 1-2 Archaeological Assessment of 5603 Countryside Drive, Part of Lot 16, Concession 12 Northern Division (Geographic Township of Toronto Gore), City of Brampton, Regional Municipality of Peel. Revised Report*. (PIF# P058-2162-2022).

Archaeological Assessments Ltd. (2007a). *A Stage 1-2 Archaeological Assessment of the Bolton Retail Development Property, Part of Lot 4, Concession 6, Parts 1 and 2, Reference Plan 43R-2477, Town of Caledon, Regional Municipality of Peel*. (PIF# P013-304-2007).

Archaeological Assessments Ltd. (2007b). *The Stage 1-3 Archaeological Assessment of The Gore Road Rehabilitation Project, from 300m South of King Street to Patterson Sideroad, Town of Caledon (Formerly Township of Albion), Regional Municipality of Peel*. (PIF# P013-290-2007; P013-290-2007-STG3).

Archaeological Assessments Ltd. (2008). *The Stage 1-2 Archaeological Assessment of 12393 Coleraine Drive, Part of Lot 2, Concession 6, Town of Caledon*. (PIF# P013-399-2008).

Archaeological Assessments Ltd. (2011). *The Stage 1-2 Archaeological Assessment of the AMB Property Corporation Lands, Part of Lot 15, Concession 12 Northern Division, City of Brampton, Regional Municipality of Peel.* (PIF# P013-567-2011).

Archaeological Assessments Ltd. (2014). *The Stage 1 Archaeological Assessment of the Orlando Corporation Lands, Part of Lot 15, Concession 11 Northern Division, Geographic Township of Toronto Gore, City of Brampton, Regional Municipality of Peel*. (PIF# P013-1063-2014).

Archaeological Assessments Ltd. (2014). *The Stage 2 Archaeological Assessment of the Orlando Corporation Lands, Part of Lot 15, Concession 11 Northern Division, Geographic Township of Toronto Gore, City of Brampton, Regional Municipality of Peel*. (PIF# P013-1068-2014).

Archaeological Assessments Ltd. (2015a). *The Stage 1-2 Archaeological Assessment of the Ontari Holdings Ltd. Property, Part Of Lots 4 & 5, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel. Revised Report*. (PIF# P013-1057-2014).

Archaeological Assessments Ltd. (2015b). *The Stage 1-2 Archaeological Assessment of the Prologis Highway 50 Business Park Lands, Part of Lot 15, Concession 12 Northern Division, Geographic Township of Toronto Gore, City of Brampton, Regional Municipality of Peel*. (PIF# P013-1129-2015).

Archaeological Assessments Ltd. (2016a). *The Stage 1 Archaeological Assessment of 12880 Coleraine Drive, Part of Lot 5, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel.* (PIF# P361-0088-2016).

Archaeological Assessments Ltd. (2016b). *The Stage 1-2 Archaeological Assessment of 12592 Coleraine Drive, Part of Lot 3, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Pee*l. (PIF# P361-0097-2016).

Archaeological Assessments Ltd. (2016c). *The Stage 1-2 Archaeological Assessment of the Boltcol Holdings Lands, 12724 Coleraine Drive, Part of Lots 2 & 3, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel. Revised Report*. (PIF# P013-1098-2015).

Archaeological Assessments Ltd. (2016d). *The Stage 2 Archaeological Assessment of 12880 Coleraine Drive, Part of Lot 5, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel*. (PIF# P013-1168-2016).

Archaeological Assessments Ltd. (2016e). *The Stage 3 Archaeological Assessment of the Clark Site (AlGw-187), Boltcol Holding Lands, 12724 Coleraine Drive, Part of Lot 3, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel*. (PIF# P013-1153-2016).

Archaeological Assessments Ltd. (2017a). *The Stage 1 Archaeological Assessment of 12802 Coleraine Drive, Part of Lot 5, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel.* (PIF# P361-0113-2017).

Archaeological Assessments Ltd. (2017b). *The Stage 1-2 Archaeological Assessment of the Prologis Lands, Part of Lot 15, Concession 12 Northern Division, Geographic Township of Toronto Gore, City of Brampton, Regional Municipality of Peel*. (PIF# P361-0108-2017).

Archaeological Assessments Ltd. (2017c). *The Stage 3 Archaeological Assessment of the Goodfellow Site (AlGw-189), 12880 Coleraine Drive, Part of Lot 5, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel. Revised Report*. (PIF# P013-1171-2016).

Archaeological Assessments Ltd. (2018). *The Stage 2 Archaeological Assessment of 12802 Coleraine Drive, Part of Lot 5, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel.* (PIF# P013-1205-2017).

Archaeological Assessments Ltd. (2019). *The Stage 1-2 Archaeological Assessment of the Triovest Coleraine Drive Lands, Part of Lot 1, Concession 5, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel*. (PIF# P013-1260-2019).

Archaeological Assessments Ltd. (2020). *The Stage 1-2 Archaeological Assessment of the Prologis Highway 50 Business Park Lands, Part of Lot 15, Concession 12 Northern Division, Geographic Township of Toronto Gore, City of Brampton, Regional Municipality of Peel*. (PIF# P013-1266-2020).

Archaeological Assessments Ltd. (2021). *The Stage 1 Archaeological Assessment of Four Centreville Creek Road Properties, Part of Lots 3 And 4, Concession 2, Geographic Township of Albion, Town of Caledon, Regional Municipality of Peel*. (PIF# P013-1291-2021).

Archaeological Consultants and Contractors (2020). *A Stage 1 and 2 Archaeological Resource Assessment of the Lands at Countryside Drive and Coleraine Drive (Part of Lot 16, Concession 11 Northern Division in the Formerly Township of Toronto Gore, County of Peel, Now in the City of Brampton), Regional Municipality of Peel, Ontario. Revised Report*. (PIF# P120-0232-2019).

Archaeological Research Associates Ltd. (2014). *Stage 1 Archaeological Assessment: McVean Drive Improvements from Castlemore Road to Mayfield Road, Multiple Lots and Concessions, Geographic Townships of Toronto Gore and Albion Former Peel County, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P089-0040-2013).

Archaeological Research Associates Ltd. (2021). *Stage 3 Site-Specific Assessment: Location 1 (AlGw-199), 8281 Healey Road, Town of Caledon, Regional Municipality of Peel, Part of Lot 5, Concession 5, Geographic Township of Albion, Former Peel County, Ontario*. (PIF# P007-1145-2020).

Archaeologix Inc. (2001). *Archaeological Assessment (Stages 1 & 2), Loblaw Properties Ltd., Bolton, Part of Lot 4, Concession 7, Georgraphic Township of Albion, Town of Caledon East, R.M. of Peel, Ontario*. (PIF# 2001-002-122).

Archaeologix Inc. (2002). *Archaeological Assessment (Stages 1 & 2), Loblaw Properties Ltd., Bolton, Part of Lot 4, Concession 7, Georgraphic Township of Albion, Town of Caledon East, R.M. of Peel, Ontario*. (PIF# 2002-005-083).

Archeoworks Inc. (2000a). *Stage 1-2 Archaeological Resource Assessment of Bel Air Lumber Property, Part of Lot 7, Concession 5, Former Albion Township, Town of Bolton, Ontario*. (PIF# 2000-026-024).

Archeoworks Inc. (2000b). *Stage 1/2 Archaeological Assessment of Ural Holdings Inc. Property, Coleraine Drive, North of Mayfield Road, Part of Lot 3, Conc. 6 (21T-0002(C), Former Township of Albion, Now in the Town of Caledon, Ontario*. (PIF# 2000-026-004; 2000-026-004-S4EX).

Archeoworks Inc. (2001a). *Stage 1-2 Archaeological Resource Assessment of Draft Plan Subdivision 21T-0003C, Part of Lot 9, Concession 7, Geographic Township of Albion, County of Peel, Ontario. Revised Report*. (PIF# 2001-015-023).

Archeoworks Inc. (2001b). *Stage 1-2 Archaeological Resource Assessment of George Bolton Parkway/Ferrier Storm Water Management Pond Lands, Part of Lot 3, Conc. 6, Former Albion Township, Town of Bolton, Ontario*. (PIF# 2000-026-025; 2001-015-002).

Archeoworks Inc. (2001c). *Stage 1-2 Archaeological Resource Assessment of Part of Lot 3, Concession 7, Albion-Vaughan Road, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# 2001-015-024).

Archeoworks Inc. (2002). *Stage 1-2 Archaeological Resources Assessment of Draft Plan of Subdivision, Part of Lot 10, Conc. 5, Town of Caledon, R. M. of Peel, Ontario*. (PIF# 2002-035-015).

Archeoworks Inc. (2003a). *Stage 2 Archaeological Resource Assessment for: Proposed Subdivision: East Parcel, Part of Lot 2, Concession 6, Town of Caledon, RM of Peel, Ontario*. (PIF# P029-003).

Archeoworks Inc. (2003b). *Stage 2 Archaeological Resource Assessment for: Proposed Subdivision: North Parcel, Part of Lot 2, Concession 6, Town of Caledon, RM of Peel, Ontario*. (PIF# P029-002).

Archeoworks Inc. (2004). *Stage 1 Archaeological Assessment for The Widening & Reconstruction of Countryside Drive: From Heart Lake Road to Hwy. 50, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P029-100).

Archeoworks Inc. (2007a). *Stage 1 Archaeological Assessment (AA) of: Solmar Caledon Lands, Part of Lots 1-5, Concessions 4&5 NMR, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P029-388-2007).

Archeoworks Inc. (2007b). *Stage 1 Archaeological Assessment of: Highway 50/Mayfield Road Intersection Improvements (Project #04-4225) and Adjacent Car Pool Lot (Project #01-4007), Regional Municipalities of Peel and York, Ontario*. (PIF# P029-311-2006).

Archeoworks Inc. (2007c). *Stage 1-2 Archaeological Assessment for: Proposed Truck Centre Development Within Part of Lot 27, Concession 11, City of Vaughan, The Regional Municipality of York, Ontario*. (PIF# P029-443-2007).

Archeoworks Inc. (2008). *Stage 2 Archaeological Assessment of: Highway 50/Mayfield Road Intersection Improvements (Project #04-4225) and Adjacent Car Pool Lot (Project #01-4007), Regional Municipalities of Peel and York, Ontario*. (PIF# P029-456-2007).

Archeoworks Inc. (2009). *Stage 1-2 Archaeological Assessment (AA) of: Proposed Development at 11970 Highway 50, Within Part of Lot 17, Concession 12, Township of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P029-513-2008).

Archeoworks Inc. (2010a). *Stage 1 Archaeological Assessment (AA) of: Proposed North Bolton Elevated Tank/Reservoir and Feedermain Study Area Class EA, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P029-542-2008).

Archeoworks Inc. (2010c). *Stage 2 Archaeological Assessment (AA): The Gore Road Widening From 275m north of Castlemore Road to 300m south of Mayfield Road, City of Brampton and Town of Caledon, R.M. of Peel, Ontario*. (PIF# P029-712-2010).

Archeoworks Inc. (2012a). *Stage 1 Archaeological Assessment (AA) for the: Proposed North Bolton Elevated Tank and Feedermain, Part of Lot 7, Concession 5, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P334-250-2012).

Archeoworks Inc. (2012b). *Stage 1-2 Archaeological Assessment (AA) for the: Proposed Development of Part of Lots 1-2, Concession 7, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P334-246-2012).

Archeoworks Inc. (2012c). *Stage 1-2 Archaeological Assessment (AA): Proposed Dusty Rose Holdings Inc. Subdivision Within Part of Lot 16, Concession 9, Geographic Township of Toronto Gore, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P334-200-2012).

Archeoworks Inc. (2013a). *Stage 1-2 Archaeological Assessment for the Proposed Construction of Bolton Arterial Road (Regional Road 150), From King Street/Harvest Moon Drive to Regional Road 50, Within Part of Lots 13-14, Concession 6-7; Lots 9-13, Concession 5; and Lots 9-10, Concession 5, Geographic Township of Albion, Historical County of Peel, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P029-859-2013).

Archeoworks Inc. (2013b). *Stage 1-2 Archaeological Assessment for the Proposed Development of the Countryside Drive Parcel, Within Part of Lot 15, Concession 10 North Division, In the Geographic Township of Toronto Gore, Historical County of Peel, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P390-0218-2016).

Archeoworks Inc. (2013c). *Stage 2 Archaeological Assessment for the Proposed Bolton Feedermain Class EA, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P334-045-2011).

Archeoworks Inc. (2013d). *Stage 2 Archaeological Assessment for the Proposed Development of Part of Lot 2, Concession 7, Town of Caledon, Geographic Township of Albion, Regional Municipality of Peel, Ontario*. (PIF# P029-840-2013).

Archeoworks Inc. (2013e). *Stage 3 Archaeological Assessment Cemetery Investigation of the Albion Congregational Church Burial Ground, Lot 9, Concession 7 for the Proposed Bolton Elevated Tank and Feedermain Class EA Study Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P029-769-2010; P029-779-2011).

Archeoworks Inc. (2013f). *Stage 3 Archaeological Assessment of the Harper Site (AlGw-172) within Lot 13, Concession 6, Geographic Township of Albion, Historical County of Peel, as Part of the Proposed Construction of the Bolton Arterial Road (Regional Road 150), Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P390-0039-2013).

Archeoworks Inc. (2014a). *Stage 1-2 Archaeological Assessment for the Proposed Highway 50 and Bolton Core Feedermains and Highway 50 Improvements, within Parts of Lots 8-12, Concession 6 and Parts of Lot 9-12, Concession 7, Geographic Township of Albion, Historical County of Peel, Now within the Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P334-176-2012).

Archeoworks Inc. (2014b). *Stage 1-2 Archaeological Assessment for the: Proposed Development of Part of Block 66 West within Parts of Lots 21, 23-25, Concession 10, City of Vaughan, Regional Municipality of York, Ontario. Revised Report*. (PIF# P334-091-2011).

Archeoworks Inc. (2015a). *Stage 2 AA: Detail Design for Improvements of Regional Road 50 From Castlemore Road to Mayfield Road and Mayfield Road from Regional Road 50 to Coleraine Drive, Within part of Lot 1, Concession 6, Geographic Townships of Albion and Toronto Gore, Historical County of Peel, and within part of Lots 13 to 15, Concession 12 Northeastern Division, Geographic Township of Vaughan, Historical County of York, Now the Cities of Brampton and Vaughan, Regional Municipalities of Peel and York, Ontario*. (PIF# P1016-0033-2014).

Archeoworks Inc. (2015b). *Stage 3 Archaeological Assessment for the: AlGw-168 (H1) Site within the Proposed Road Improvements to Regional Road 50, within Lot 26, Concession 11, in the Geographic Township of Vaughan, Historical County of York, Now the City of Vaughan, Regional Municipality of York, Ontario*. (PIF# P1016-0019-2014).

Archeoworks Inc. (2015c). *Stage 4 Partial Excavation: Harper Site (AlGw-172), Within Lot 13, Concession 6, Geographic Township of Albion, Historical County of Peel, as Part of the Proposed Construction of the Bolton Arterial Road (Regional Road 150), Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P390-0067-2013).

Archeoworks Inc. (2016a). *Stage 1-2 Archaeological Assessment for the Proposed Development of 8186 King Street, Within Part of Lot 11, Concession 5, In the Geographic Township of Albion, Historical County of Peel, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P390-0161-2015).

Archeoworks Inc. (2016b). *Stage 2 Archaeological Assessment for Five Outstanding Properties as Part of the Mayfield Road Class EA From Airport Road to Coleraine Drive, Within the Geographic Townships of Albion and Toronto Gore, Historical County of Peel, City of Brampton and Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P390-0243-2016).

Archeoworks Inc. (2016c). *Stage 3 Archaeological Assessment for the AkGw-454 Site, As part of the Proposed Reconstruction of Mayfield Road, Within Lot 17, Concession 9 North Division, Geographic Township of Toronto Gore, Historic County of Peel, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P390-0242-2016).

Archeoworks Inc. (2016d). *Stage 3 Archaeological Assessment for the: Hart Site (AlGw-151) as part of the Detailed Design for Improvements of Regional Road 50 from Castlemore Road to Mayfield Road and Mayfield Road from Regional Road 50 to Coleraine Drive, within Lot 17, Concession 12 North Division, in the Geographic Township of Toronto Gore, Historical County of Peel, Now the City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P1016-0020-2014).

Archeoworks Inc. (2016e). *Stage 3 Cemetery Investigation Report for: St. Patrick's Church and Cemetery, As part of the Proposed Reconstruction of Mayfield Road, Within Lot 17, Concession 10 North Division, Geographic Township of Toronto Gore, Historic County of Peel, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P390-0244-2016).

Archeoworks Inc. (2017). *Stage 1-2 Archaeological Assessment for the Proposed Development of 12148 Albion-Vaughan Road, Within Part of Lot 1, Concession 7, In the Geographic Township of Albion, Former County of Peel, Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P390-0239-2016).

Archeoworks Inc. (2018a). *Stage 1 Archaeological Assessment for the Sanitary Sewer Installation Along Albion-Vaughan Road and Side Streets, In the Geographic Township of Albion, Former County of Peel, In the Geographic Township of King and Vaughan, Former County of York, Now in the Town of Caledon, Regional Municipality of Peel, and in the City of Vaughan and Township of King, Regional Municipality of York, Ontario*. (PIF# P439-0006-2018).

Archeoworks Inc. (2018b). *Stage 3 Archaeological Assessment of the Countryside H1 Site (AkGw-495) Within Lot 15, Concession 10 North Division, Geographic Township of Toronto Gore, Former County of Peel, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P029-0920-2017).

Archeoworks Inc. (2018c). *Stage 3 Archaeological Assessment of the Countryside H2 Site (AkGw-496) Within Lot 15, Concession 10 North Division, Geographic Township of Toronto Gore, Former County of Peel, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P029-0921-2017).

Archeoworks Inc. (2018d). *Stage 4 Excavation: Hart Site (AlGw-151), Within Lot 17, Concession 12 North Division, In the Geographic Township of Toronto Gore, Historical County of Peel, As Part of the Detailed Design for Improvements of Regional Road 50 From Castlemore Road to Mayfield Road and Mayfield Road from Regional Road 50 to Coleraine Drive, City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P390-0192-2016).

Archeoworks Inc. (2019a). *Stage 1-2 Archaeological Assessment for the Proposed Development of 13233 and 13247 Nunnville Road Within Part of Lots 6 and 7, Concession 8, In the Geographic Township of Albion Former County of Peel, Now Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P1059-0018-2019).

Archeoworks Inc. (2019b). *Stage 2 AA for the Sanitary Sewer Installation Along Albion-Vaughan Road and Side Streets In pt of Lots 4-8, Con.7 and Lots 6 & 7, Con.8, Geo Twp of Albion, former Co. of Peel, Town of Caledon, RM of Peel; In pt of Lots 34 & 35, Con.11, Geo Twp of Vaughan, Co. of York, City of Vaughan, RM of York; in pt of Lots 1-3, Con.11, Geo Twp of King (South), Co. of York, Township of King, RM of York; And part of the road allowances between the Co. of Peel and the Co. of York, Ont*. (PIF# P439-0039-2018).

Archeoworks Inc. (2020). *Stage 1 AA for the Drainage Improvements of Highway 50 (RR 50/Queen Str. S.) From Mayfield Rd/Albion Vaughan Rd to Healey Rd Municipal Class Environmental Assessment Within Pt. of L.1-5, Con.6-7; L.17, Con.12 Northeastern Division (NERN DIV); and L.29, Con.11 & Road Allowances In Between In the Geo. Twp of Albion, Toronto Gore and Vaughan Former Counties of Peel and York Now in the Town of Caledon, City of Brampton and City of Vaughan, Regional Municipalities of Peel and York, Ontario*. (PIF# P1059-0068-2020).

Archeoworks Inc. (2021a). *Stage 2 Archaeological Assessment (AA) for the: Solmar Caledon Lands Part of Lots 1-5, Concessions 4&5 NMR, Geographic Township of Albion, County of Peel, Now in the Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P029-1032-2021).

Archeoworks Inc. (2021b). *Stage 4 Excavation of the Countryside H1 (AkGw-495) Site, As Part of the Proposed Residential Subdivision Development Within Part of Lot 15, Concession 10 Northern Division, Geographic Township of Toronto Gore, Former County of Peel, Now in the City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P439-0082-2020).

Archeoworks Inc. (2021c). *Stage 4 Excavation of the Countryside H2 (AkGw-496) Site, As Part of the Proposed Residential Subdivision Development Within Part of Lot 15, Concession 10 Northern Division, Geographic Township of Toronto Gore, Former County of Peel, Now in the City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P439-0083-2020).

Archeoworks Inc. (2022a). *Stage 1 Archaeological Assessment for 5556 Countryside Drive Within Part of Lot 16, Concession 12 Northern Division, In the Geographic Township of Toronto Gore, Historic County of Peel, Now in the City of Brampton, Regional Municipality of Peel, Ontario*. (PIF# P1059-0132-2021).

Archeoworks Inc. (2022b). *Stage 1 Archaeological Assessment for Eight Properties of Participating Landowners Within the Humber Station Villages Secondary Plan Area, Located Between Healey Road, Coleraine Drive, Mayfield Road and Humber Station Road, Within Part of Lots 1 to 6, Concession 5 in the Geographic Township of Albion, Historic County of Peel, Now in the Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P029-1037-2022).

Archeoworks Inc. (2023c). *Stage 1 Archaeological Assessment for the Proposed Redevelopment of 13290 Nunnville Road, Part of Lot 33, Plan ALB-4 and Parts 4, 5 & 6, Plan 43R-3366, within Part of Lot 7, Concessions 7-8 and the Road Allowance Between Concessions 7 and 8 (Closed), in the Geographic Township of Albion, Historic Peel County, Now in the Town of Caledon, Regional Municipality of Peel, Ontario*. (PIF# P029-1120-2022).

ASI Archaeological and Cultural Heritage Services (1996). *Archaeological Assessment of Proposed Senator Homes Subdivision, 21T-93011C, Part of West Half of Lot 5, Concession 7 (Former Township of Albion), Town of Caledon, Regional Municipality of Peel*. (PIF# 96SS-01).

ASI Archaeological and Cultural Heritage Services (1997a). *A Stage 1/2 Archaeological Assessment of Bolton Lands, Town of Caledon, RM of Peel, Ontario*. (PIF# 97CA-01).

ASI Archaeological and Cultural Heritage Services (1997b). *An Archaeological Assessment of Draft Plan of Subdivision 21T-88028C, Town of Caledon, Regional Municipality of Peel*. (PIF# 96KZ-02; Licence # 96-019).

ASI Archaeological and Cultural Heritage Services (2000). *Stage 1 Arch. Resource Assessment: Preliminary Alignment of Proposed 750 mm Feedermain from the North Brampton Pumping Station to the Bolton Elevated Tank, City of Brampton & Town of Caledon, R.M. of Peel, Ontario*. (PIF# 2000-116-013).

ASI Archaeological and Cultural Heritage Services (2002). *Stage 1 and 2 Archaeological Assessment of Albion-Vaughan Road/Caledon-King Townline Improvements From North of Queensgate Boulevard Northerly to Approx. 1.3 km North of King Road/King Street, R. M. of York and R. M. of Peel, Ontario*. (PIF# 2001-020-030).

ASI Archaeological and Cultural Heritage Services (2003). *Stage 1 and 2 A. A. of the Muscillo Transport Lands, Part of Lot 1, Conc. 7, Town of Caledon, R. M. of Peel, Ontario. Historic Location - Part of Lot 1, Conc. 7, Township of Albion, County of Peel, Ontario*. (PIF# 2002-083-004; 2002-083-004-S4EX).

ASI Archaeological and Cultural Heritage Services (2005a). *Stage 1 & 2 A. A. of Part of the East Half of Lot 1, Conc. 6, Formerly in the Township of Albion, County of Peel, Now in the Town of Caledon, R. M. of Peel*. (PIF# P117-110).

ASI Archaeological and Cultural Heritage Services (2005b). *Stage 1 and 2 A. A. of Cassin Estates, Part of Lot 15, Conc. 9, Former Township of Gore of Toronto, County of Peel, Now the City of Brampton, R. M. of Peel. Revised Report*. (PIF# P052-032).

ASI Archaeological and Cultural Heritage Services (2007). *Stage 1 Archaeological Assessment of The Wyndcliffe Property, Part of the West Halves of Lot 11 and 12, Concession 7, Former Township of Albion, Now in the Town of Caledon (Bolton), Regional Municipality of Peel*. (PIF# P047-259-2007).

ASI Archaeological and Cultural Heritage Services (2008a). *Stage 1 and 2 Archaeological Assessment of 12725 Coleraine Drive, West Half of Lot 4, Concession 6, Albion Township Town of Caledon, Regional Municipality of Peel*. (PIF# P049-261-2008).

ASI Archaeological and Cultural Heritage Services (2008b). *Stage 1 Archaeological Assessment Highway 50/Highway 427 Extension Area Transportation Master Plan*. (PIF# P057-504-2008).

ASI Archaeological and Cultural Heritage Services (2008c). *Stage 1 Archaeological Assessment: Mayfield Road Class Environmental Assessment, From East of Airport Road to Coleraine Drive, Regional Municipality of Peel, Ontario*. (PIF# P057-408-2007).

ASI Archaeological and Cultural Heritage Services (2009). *Cultural Heritage Study: Lands at Centreville Creek Road and King Street Proposed Indoor/Outdoor Recreation Facility Town of Caledon, Ontario*. (PIF# P049-409-2009).

ASI Archaeological and Cultural Heritage Services (2010a). *Cultural Heritage Study, Stage 1 Archaeological Resource Assessment Component, Hwy 427 Industrial Secondary Plan (Area 47), Lots 11 to 17, Concessions 10 to 11 and Lots 13 to 17, Concession 12, Former Township of Toronto Gore, County of Peel, City of Brampton, R.M. of Peel, Ontario*. (PIF# P049-479-2009).

ASI Archaeological and Cultural Heritage Services (2010b). *Stage 1 and 2 Archaeological Assessment of 12131 Regional Road 50 Part of Lot 1, Concession 7, Geographic Township of Albion, County of Peel, Now in the Town of Caledon, RM of Peel*. (PIF# P049-540-2010).

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Toronto and Region Conservation Authority (2015a). *Archaeological Assessment (Stage 1-2) in the Town of Caledon, Peel Region and the City of Toronto, Humber HIP: Peel — Lots 23, 29 and 30, Concession VI, Lots 8, 9 and 10, Concession VIII, Historic Albion Township, Peel County; Lot 33, Concession Fronting The Humber IV, Historic Etobicoke Township, York County. (HRW-13-002). Revised Report*. (PIF# P303-163-2013).

Toronto and Region Conservation Authority (2015b). *Archaeological Assessment (Stage 1-2) in the Town of Caledon, Peel Region: Bolton Camp Temporary Bridge, Lot 8 Concession VIII Historic Albion Township, Peel County (HRW-14-015)*. (PIF# P338-0093-2014).

Toronto and Region Conservation Authority (2015c). *Archaeological Assessment (Stage 1-2) in the Town of Caledon, Peel Region: Duffys Lane Wetlands – Lot 13, Concession VI, Historic Albion Township, Peel County (HRW-15-005)*. (PIF# P303-0347-2015).

Toronto and Region Conservation Authority (2015d). *Archaeological Assessment (Stage 1-2) in the Town of Caledon: Humber HIP — Peel Region, Lot 29, 29, Concession V, Lot 7, Concession VII, Historic Albion Township, Peel County. (HRW-14-005). Revised Report*. (PIF# P303-0292-2014).

Toronto and Region Conservation Authority (2015e). *Archaeological Assessment (Stage 3) in the Town of Caledon, Peel Region: The Loring Site (AlGw-180) – Lot 11, Concession VI, Historic Township of Albion, Peel County (HRW-14-031)*. (PIF# P303-0336-2014).

Toronto and Region Conservation Authority (2015f). *Archaeological Assessment (Stage 4) in the Town of Caledon, Peel Region: The Loring Site (AlGw-180) – Lot 11, Concession VI, Historic Township of Albion, Peel County (HRW-15-002)*. (PIF# P303-0361-2015).

Toronto and Region Conservation Authority (2016a). *Archaeological Assessment (Partial Stage 3) in the Town of Caledon, Peel Region: Rogers Cellular Tower: AlGw-141, AlGw-142. Lot 11, Concession VI, Historic Albion Township, Peel County*. (PIF# P303-0359-2015; P303-0430-2016).

Toronto and Region Conservation Authority (2016b). *Archaeological Assessment (Stage 1-2) in the Town of Caledon, Peel Region: Bolton Mid Trail, Lot 12 through 15, Concession V, Lot 11 and 12, Concession VI, Historic Albion Township, Peel County*. (PIF# P338-0112-2015).

Toronto and Region Conservation Authority (2017a). *Archaeological Assessment (Stage 1-2) in the Town of Caledon, Peel Region, Bolton Camp Phase I Redevelopment, Lot 8 Concessions VII & VIII, Historic Albion Township, Peel County. Revised Report*. (PIF# P303-0397-2016).

Toronto and Region Conservation Authority (2017b). *Archaeological Assessment (Stage 1-2) in the Town of Caledon, Peel Region, Bolton Sanitary Infrastructure Protection Project, Lot 8 Concession VII, Geographic Township of Albion, Peel County. Revised Report*. (PIF# P303-0398-2016).

Toronto and Region Conservation Authority (2017c). *Archaeological Assessment (Stage 4 Monitoring) in the Town of Caledon, Peel Region: Bolton EMS Monitoring for Site AlGw-146, Lot 11 Concession VI, Historic Albion Township, Peel County. Revised Report*. (PIF# P303-0391-2016).

Toronto and Region Conservation Authority (2017d). *Stage 1-2 Archaeological Assessment: Albion Vaughan Road and King Road Intersection Improvements, Lot 5, Concession 11, Geographic Township of King, Historic York County, in the Township of King*. (PIF# P303-0459-2017).

Toronto and Region Conservation Authority (2017e). *Stage 1-2 Archaeological Assessment: Bolton Camp Phase II Redevelopment, Lot 8, Concession 8 Geographic Township of Albion, Historic Peel County in the Town of Caledon, Regional Municipality of Peel*. (PIF# P303-0477-2017).

Toronto and Region Conservation Authority (2017f). *Stage 1-2 Archaeological Assessment: Duffy's Lane Wetland, Lot 13, Concession 6, Geographic Township of Albion, Historic Peel County in the Town of Caledon, Regional Municipality of Peel*. (PIF# P303-0454-2017).

Toronto and Region Conservation Authority (2017g). *Stage 1-2 Archaeological Assessment: Staircase Access Trail, Lot 10[sic], Concession 6, Geographic Township of Albion, Historic Peel County in the Town of Caledon, Regional Municipality of Peel*. (PIF# P303-0442-2017).

Toronto and Region Conservation Authority (2019a). *Stage 1-2 Archaeological Assessment: Hi-Lands of Bolton Corp., Lot 9, Concession VIII Geographic Township of Albion, Historic Peel County in the Town of Caledon, Regional Municipality of Peel*. (PIF# P1016-0171-2018).

Toronto and Region Conservation Authority (2019b). *Stage 1-2 Archaeological Assessment: Humber Station Road, Lot 14, Concessions 4 and 5, Geographic Township of Albion, Historic Peel County, in the Town of Caledon, Regional Municipality of Peel*. (PIF# P303-0455-2017).

Toronto and Region Conservation Authority (2020a). *Stage 1-2 Archaeological Assessment: Bolton Berm Major Maintenance, Lots 8 and 9, Concession VII, Geographic Township of Albion, Historic Peel County in the Town of Caledon, Regional Municipality of Peel*. (PIF# P303-0569-2020).

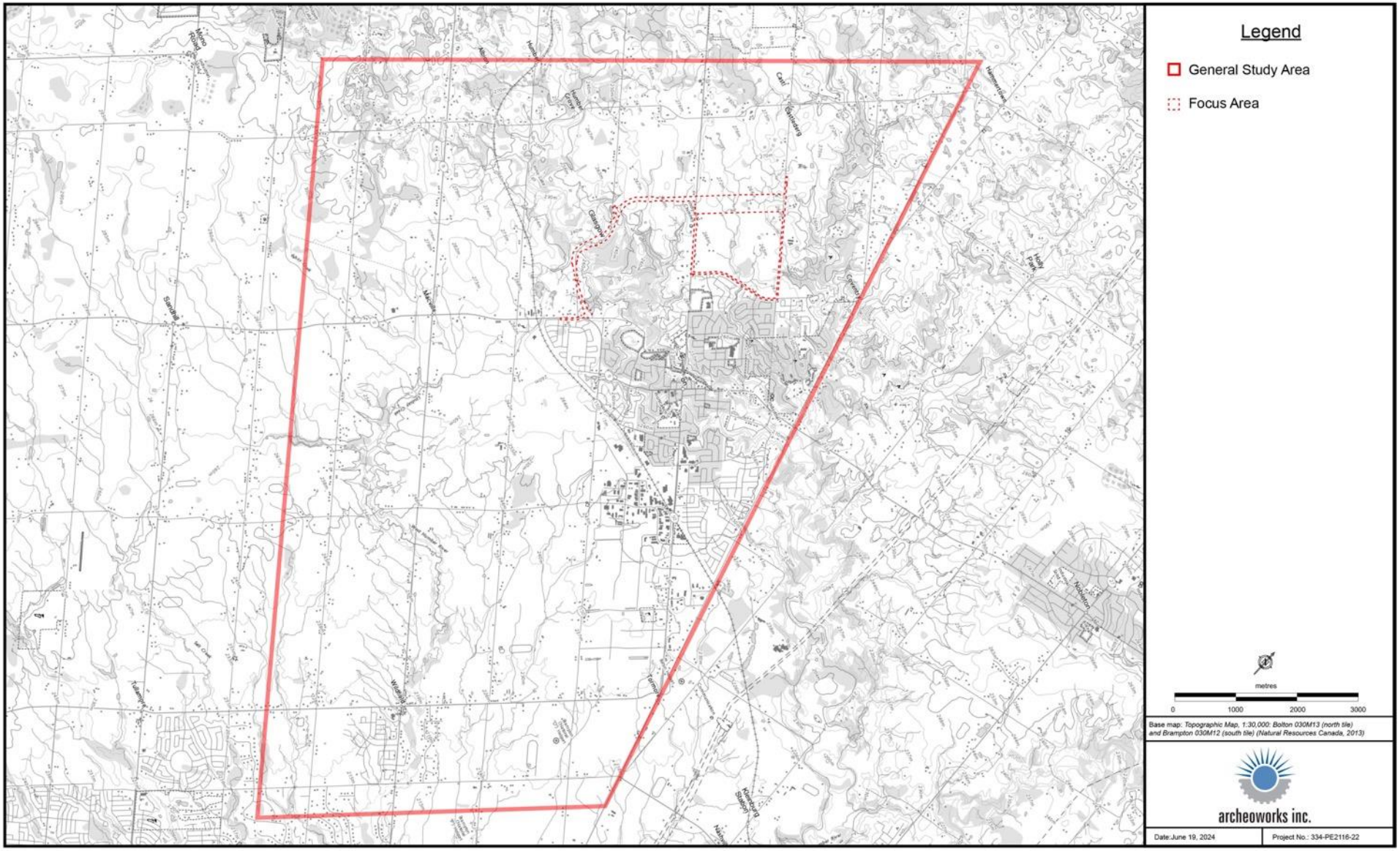
Toronto and Region Conservation Authority (2020b). *Stage 1-2 Archaeological Assessment: Discovery Garden, Lot 8, Concession VIII, Geographic Township of Albion, Historic Peel County, in the Town of Caledon, Regional Municipality of Peel*. (PIF# P303-0555-2019).

Wood Environment & Infrastructure Solutions (2020c). *Stage 1 Archaeological Assessment: Additional Lands, Arterial Roads within Highway 427 Industrial Secondary Plan Areas, Lots 13 and 17, Concession 11, Lot 17 Concession 12, Former Township of Toronto Gore, County of Peel, and Lots 25 and 26, Concession 10, Former Township of Vaughan, County of York, Regional Municipality of Peel, now the City of Brampton, Ontario*. (PIF# P354-0050-2020).

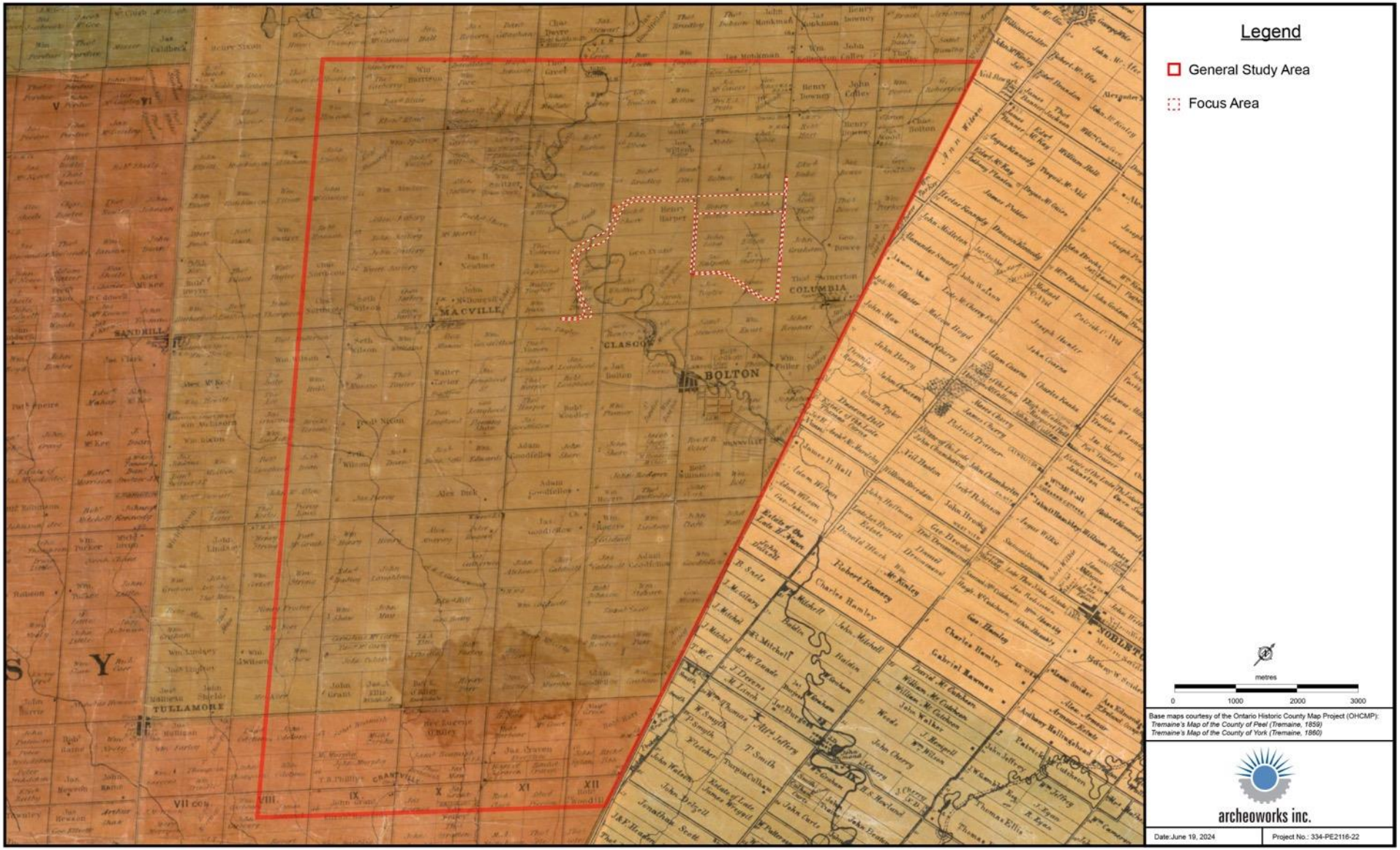
WSP Canada Inc. (2017). *Stage 1 Archaeological Assessment: Highway 50, Caledon: 15180 Highway 50, Part of Lot 16, Concession 6, Town of Caledon, Former Township of Albion, Regional Municipality of Peel, Historic County of Peel, Province of Ontario*. (PIF# P365-0110-2017).

APPENDICES

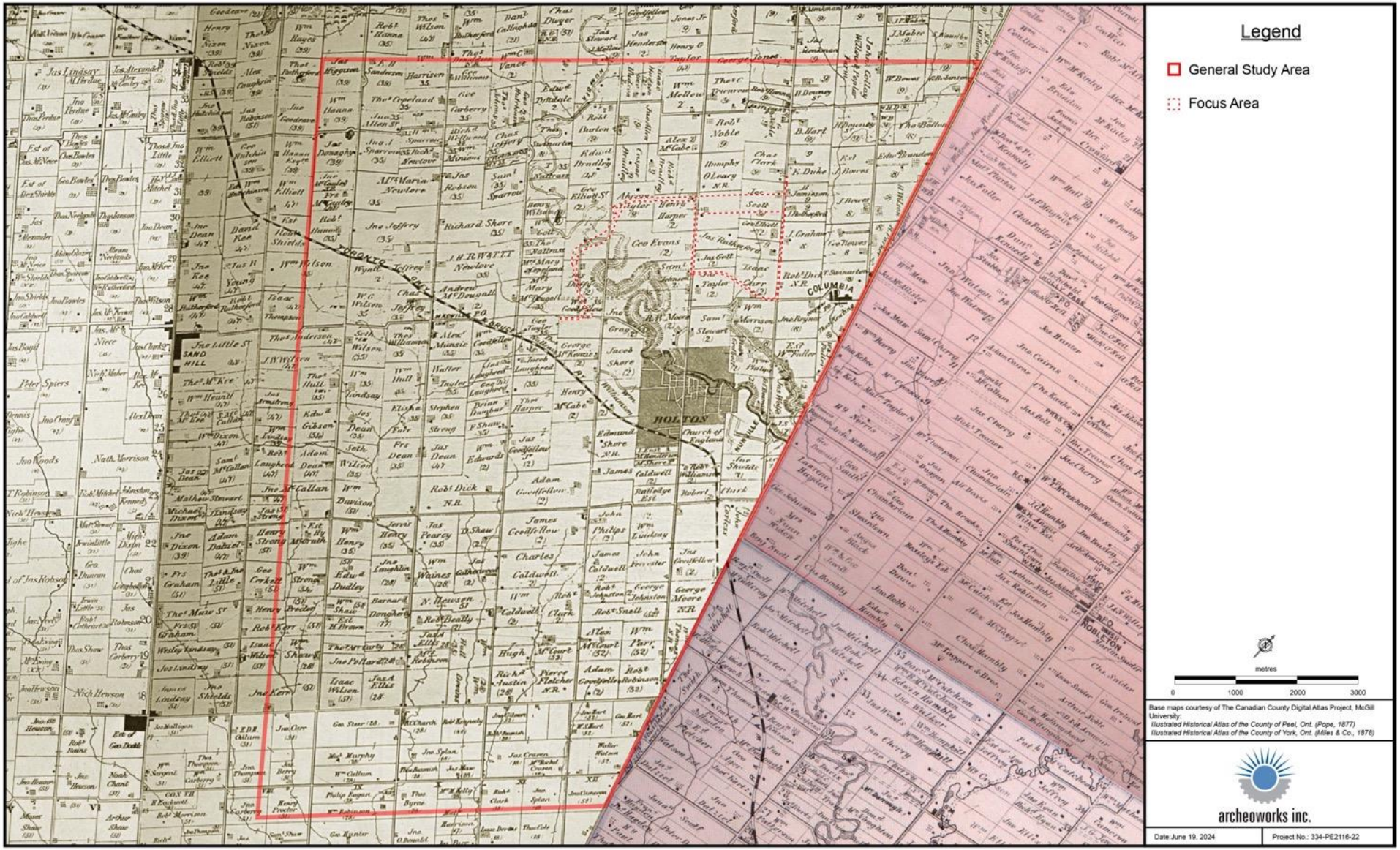
APPENDIX A: MAPS



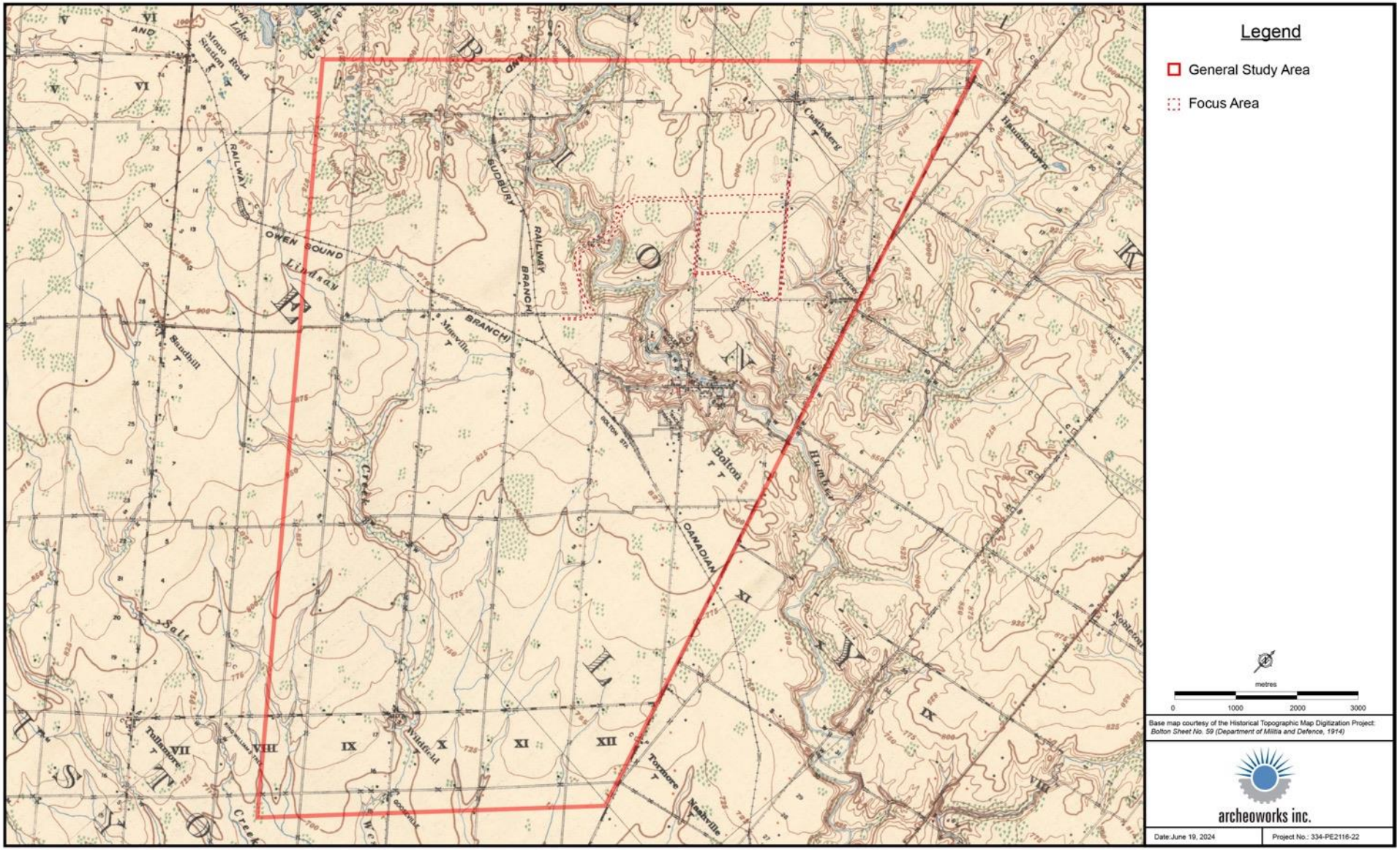
Map 1: National Topographic Map (1:30,000) identifying the Stage 1 AA general study area and the smaller Focus Area.



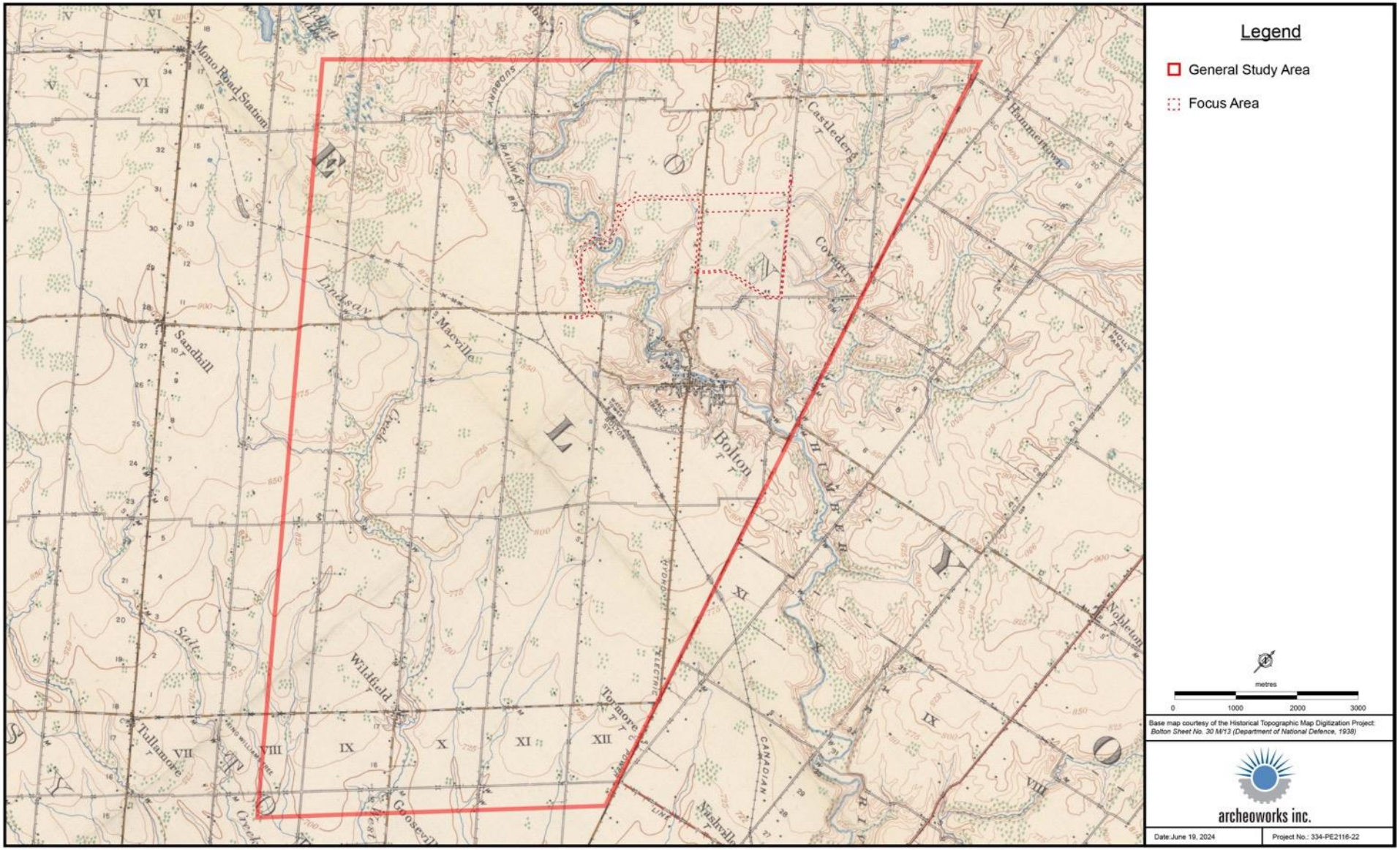
Map 2: Stage 1 AA study area within the 1859 *Tremaine's Map of the County of Peel*.



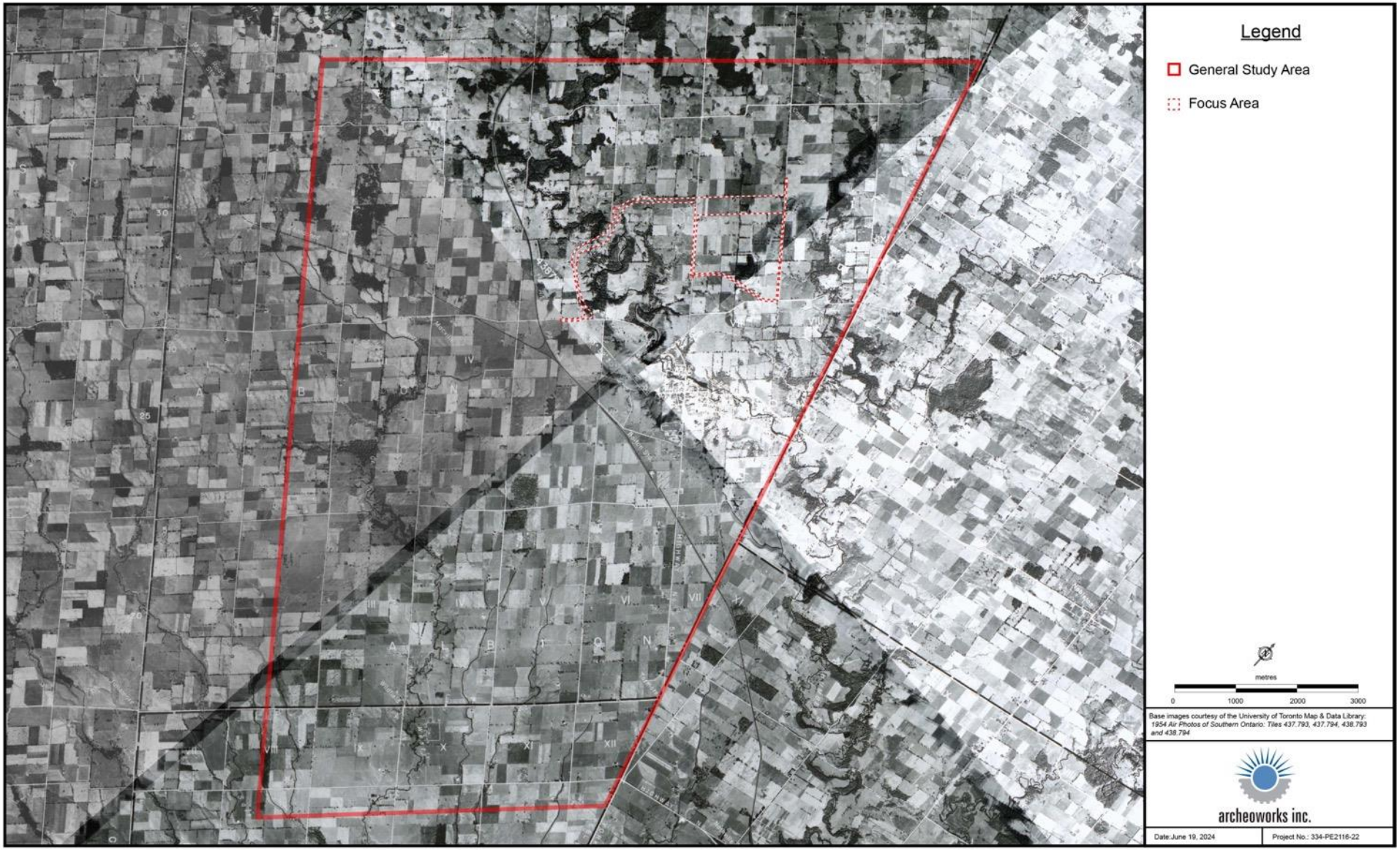
Map 3: Stage 1 AA study area within the 1877 *Illustrated Historical Atlas of the County of Peel*.



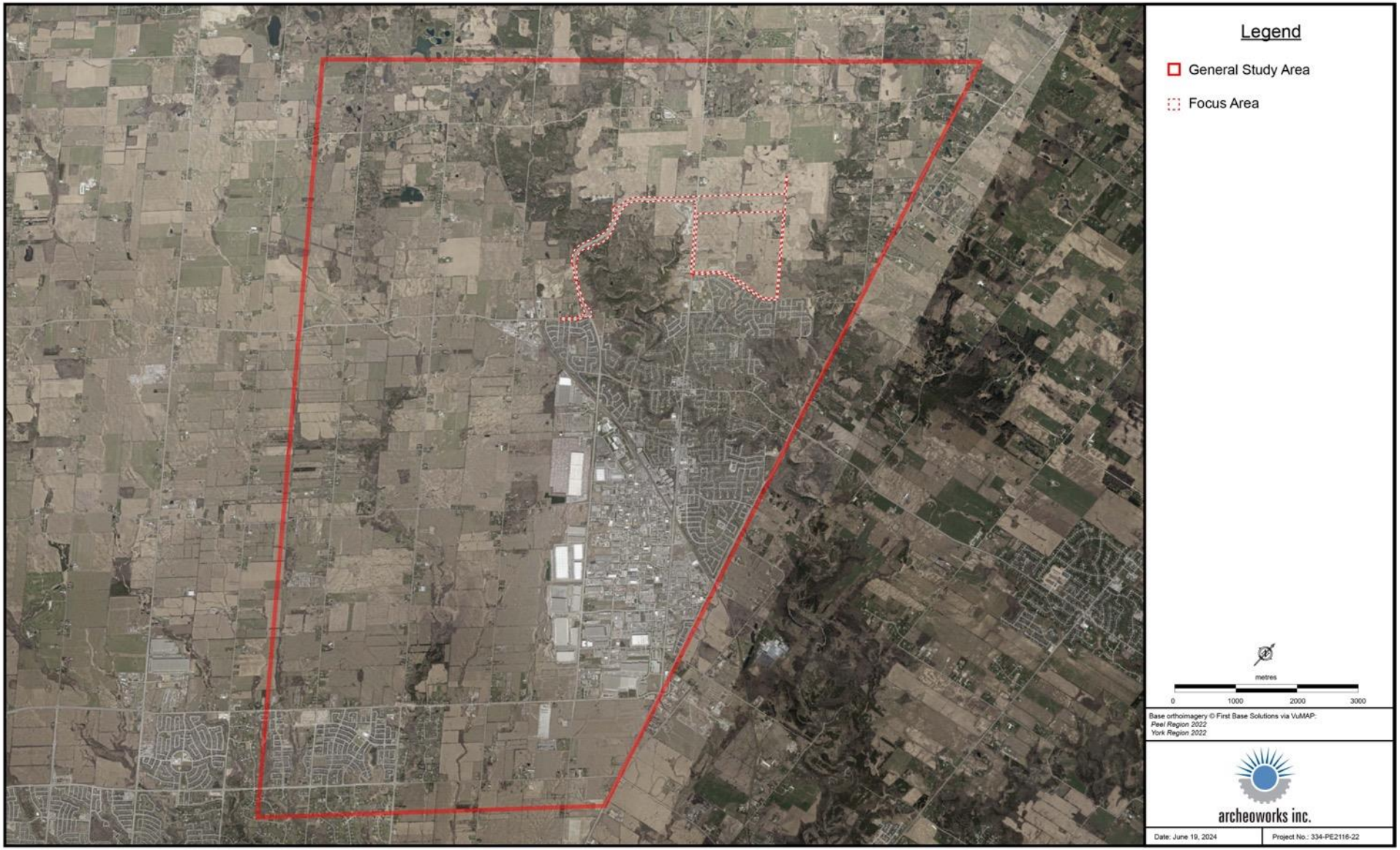
Map 4: Stage 1 AA study area within a topographic map published in 1914.



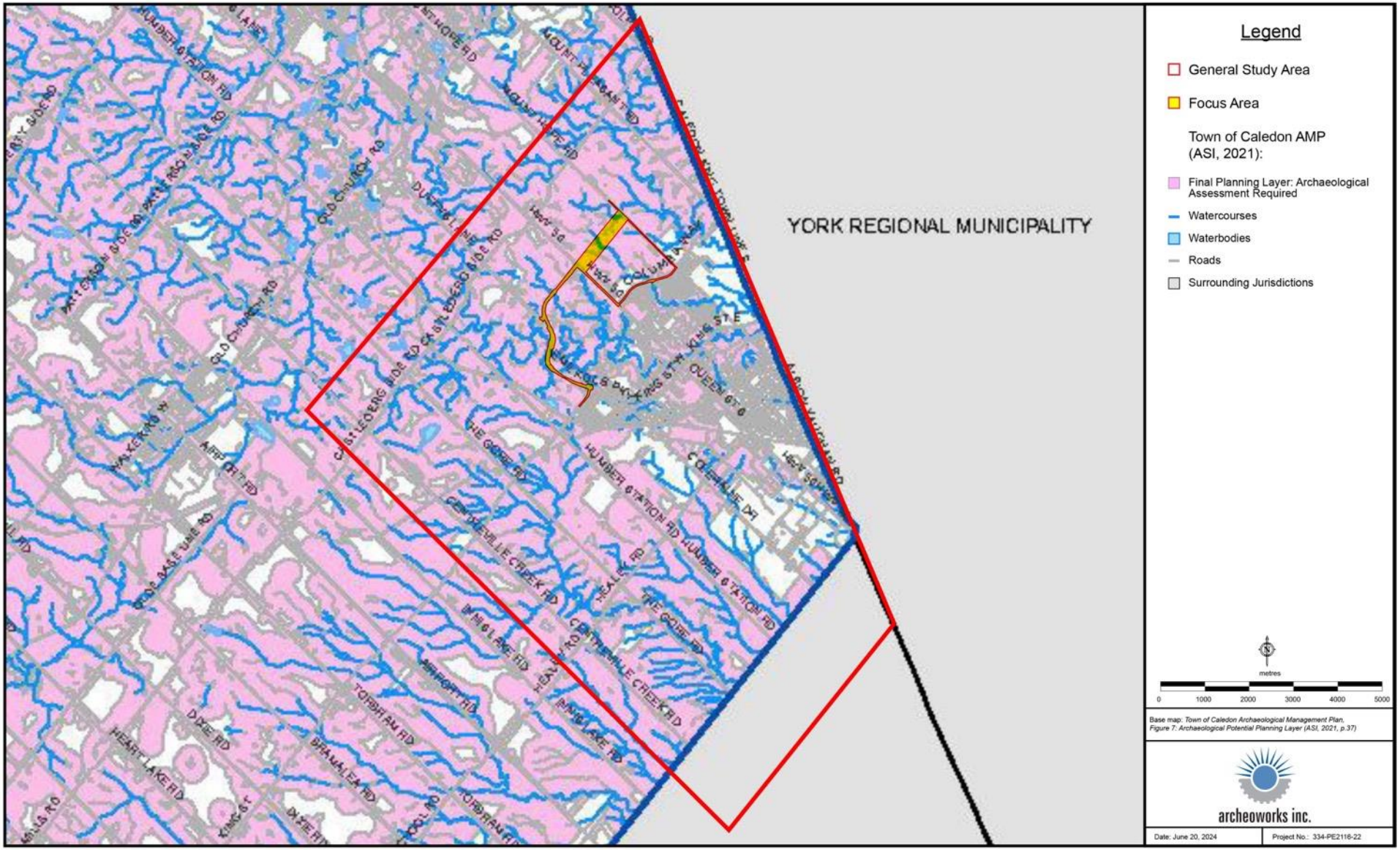
Map 5: Stage 1 AA study area within a topographic map published in 1938.



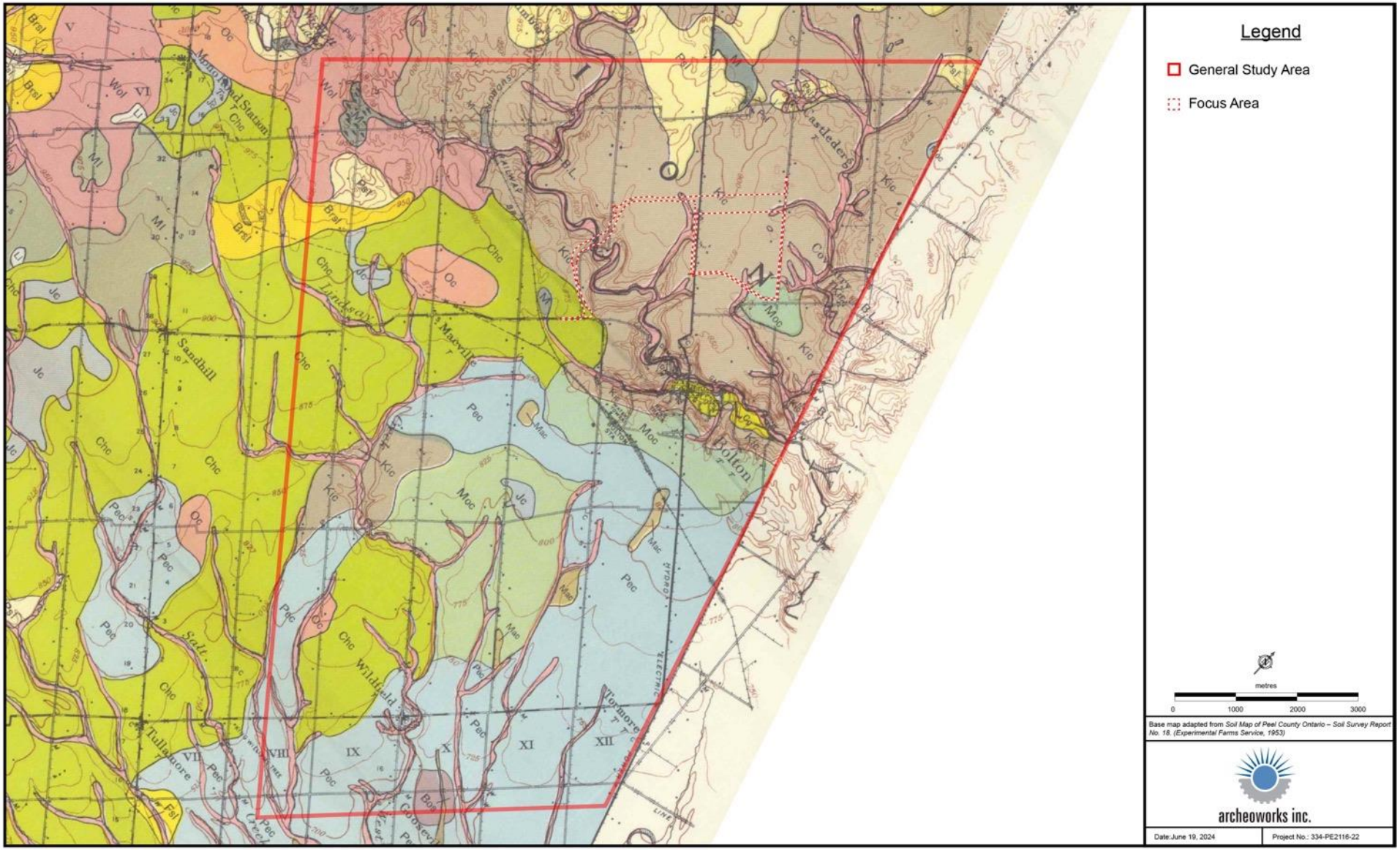
Map 6: Stage 1 AA study area within 1954 aerial images.



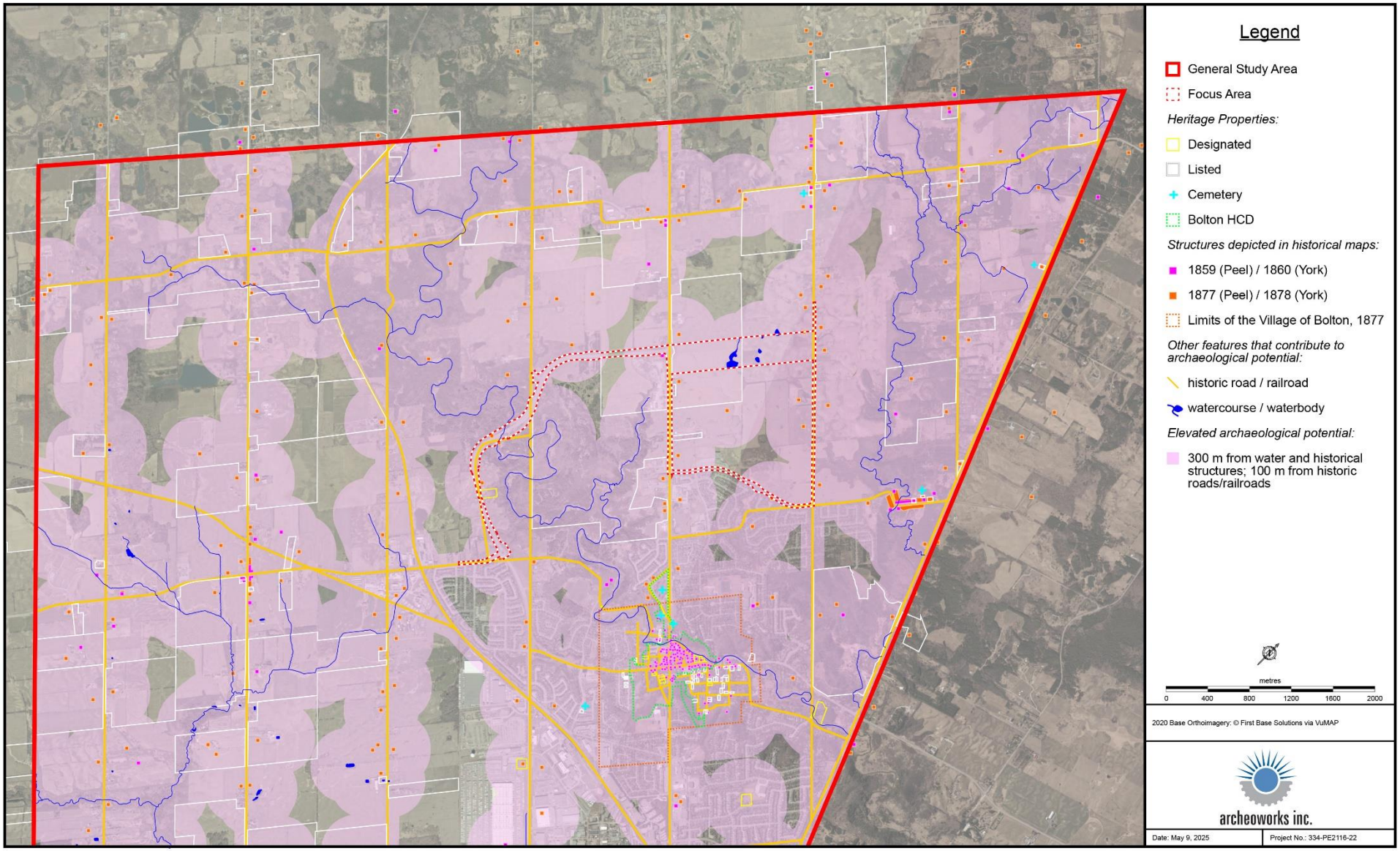
Map 7: Stage 1 AA study area within 2002 orthoimagery.



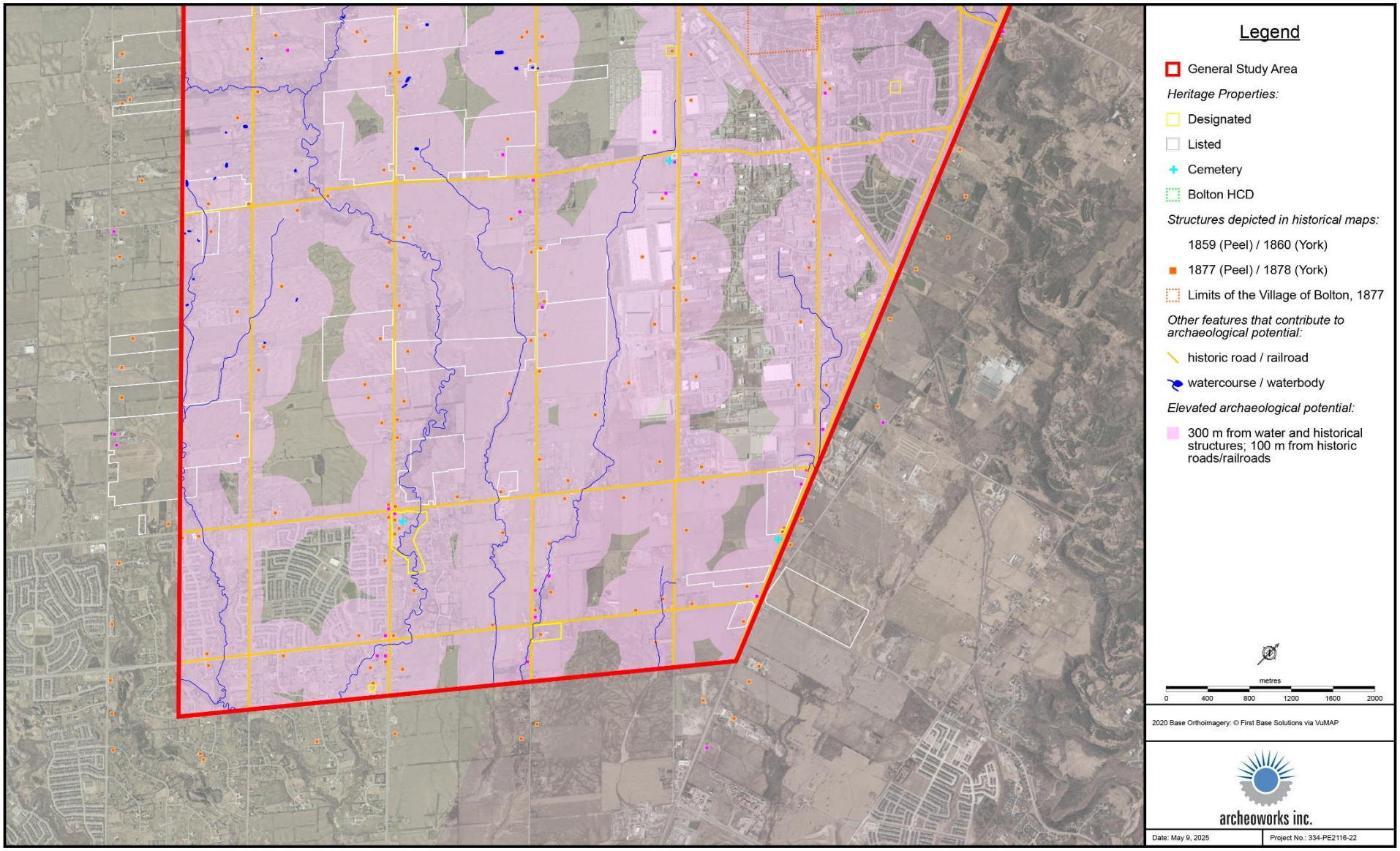
Map 8: Stage 1 AA study area within archaeological potential mapping from the Town of Caledon's *Archaeological Management Plan*.



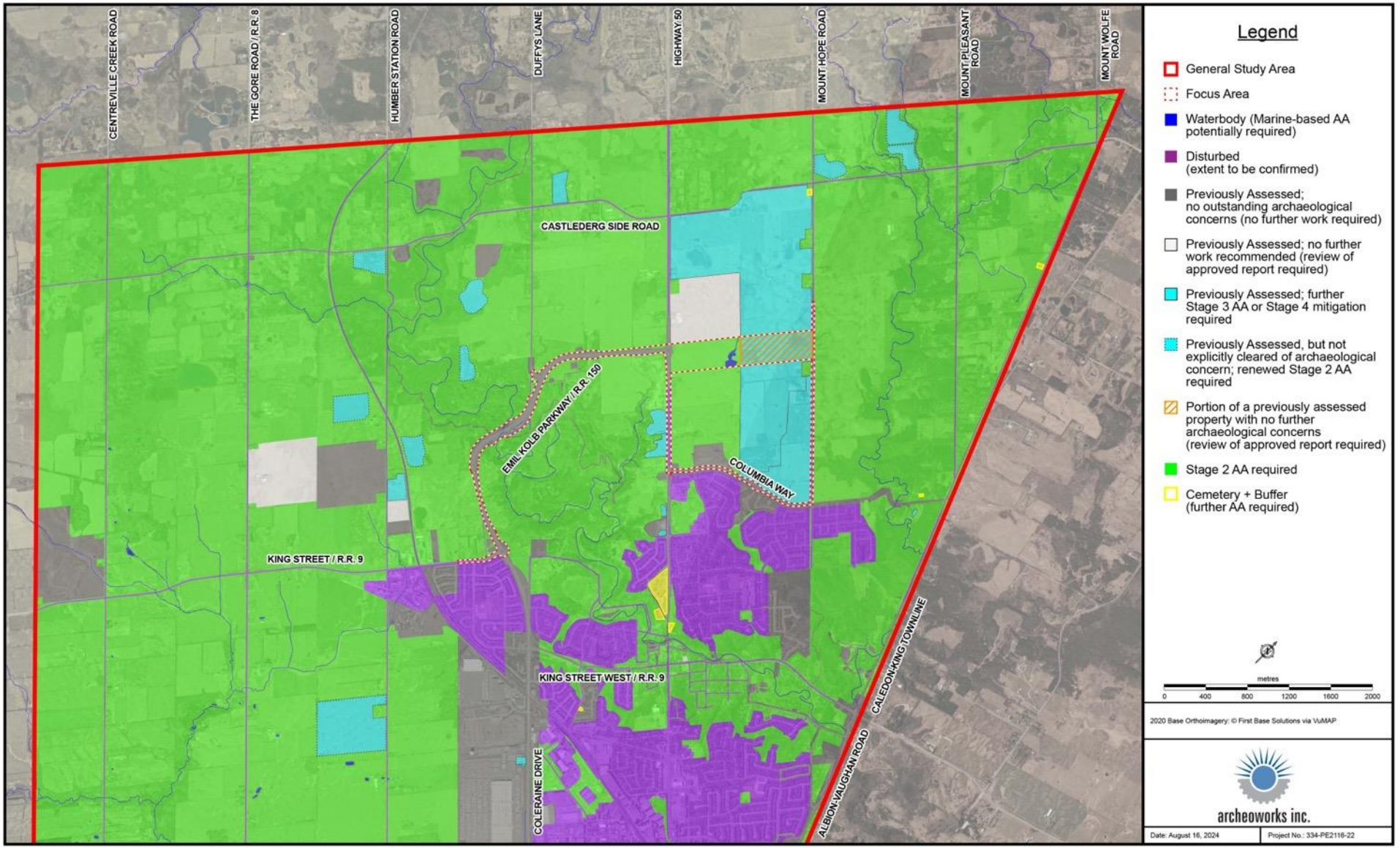
Map 9: Stage 1 AA study area within the 1953 *Soil Map of Peel County*.



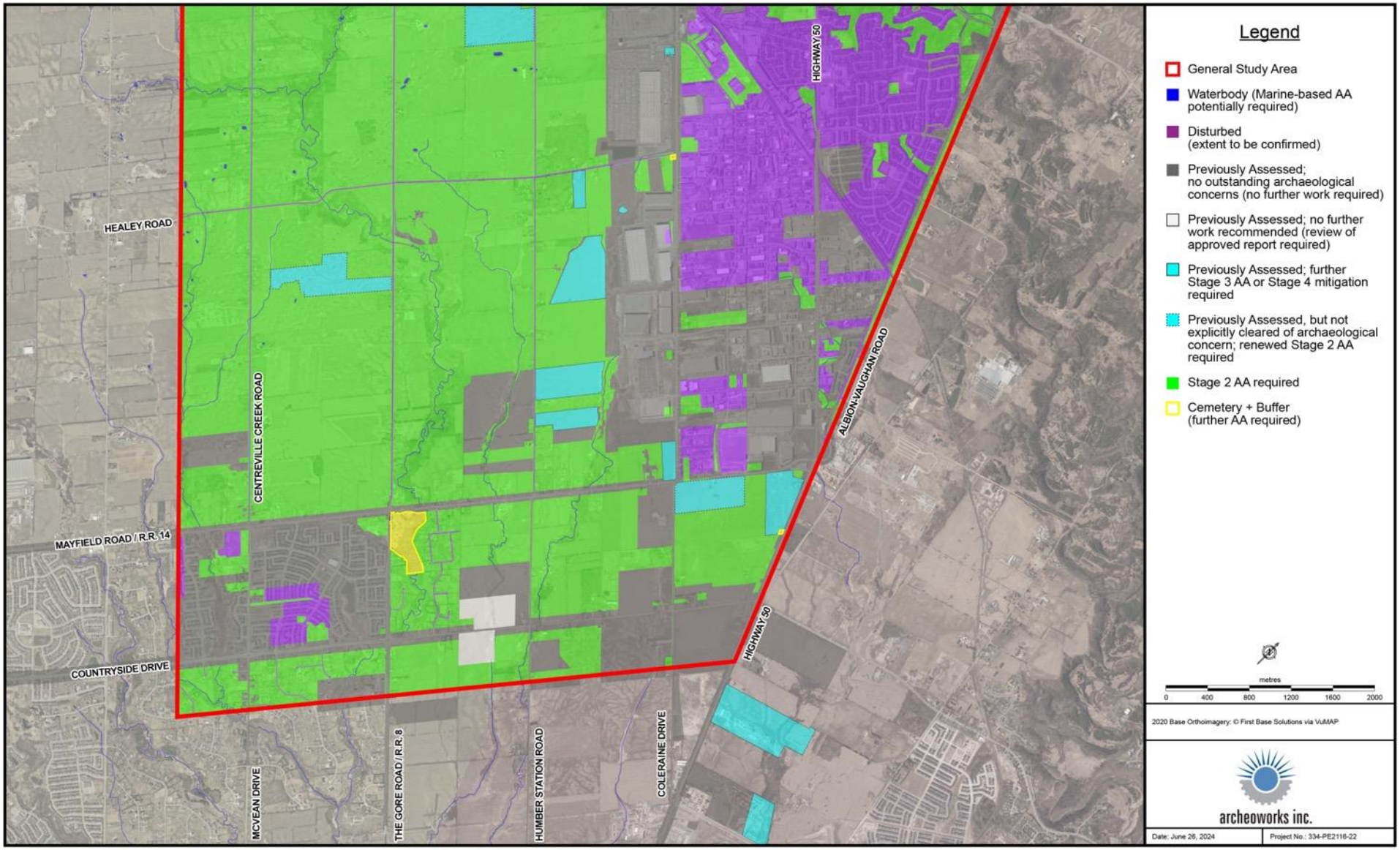
Map 10: Map of the northern portion of the study area, showing locations of water sources and historic features (e.g., roads, railroads, structures), and their associated elevated areas of potential. Heritage properties are also marked for reference.



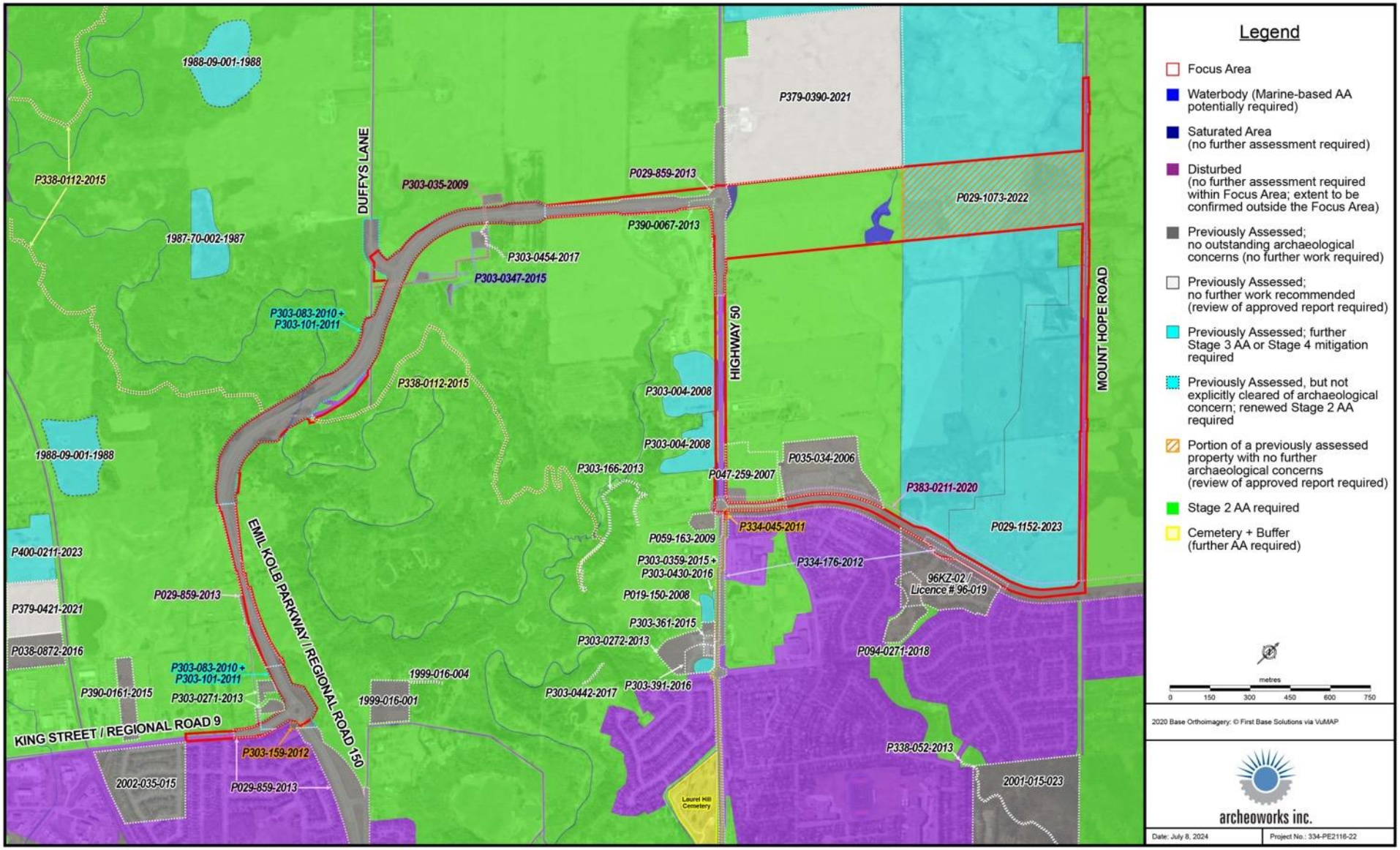
Map 11: Map of the southern portion of the study area, showing locations of water sources and historic features (e.g., roads, railroads, structures), and their associated elevated areas of potential. Heritage properties are also marked for reference.



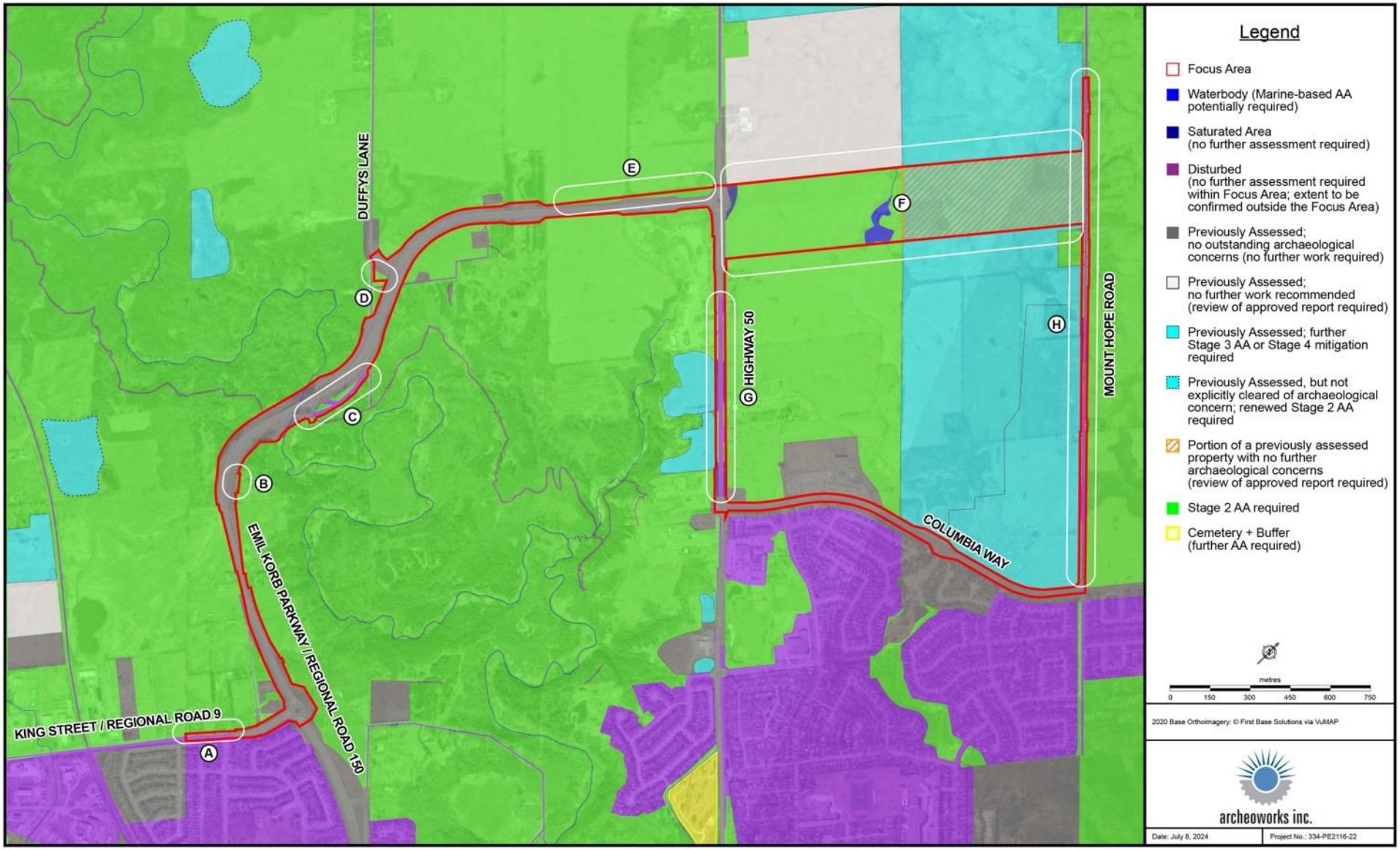
Map 12: Stage 1 AA results for the northern portion of the study area. Note: A version depicting the locations of archaeological sites and extents of properties with outstanding archaeological concerns/further CHVI is provided in the ***Supplementary Document***.



Map 13: Stage 1 AA results for the southern portion of the study area. Note: A version depicting the locations of archaeological sites and extents of properties with outstanding archaeological concerns/further CHVI is provided in the ***Supplementary Document***.



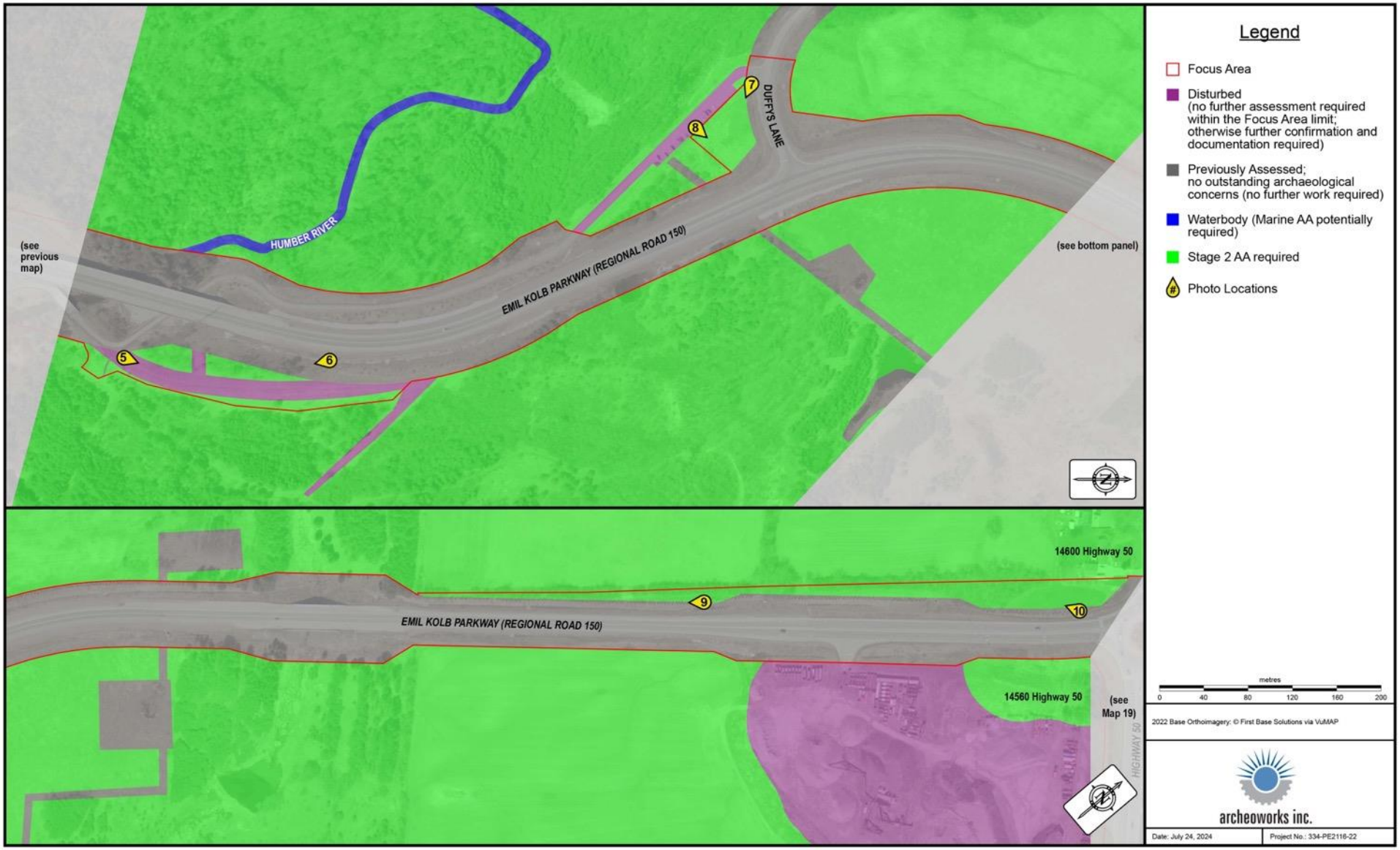
Map 14: Stage 1 AA results in the vicinity of the Focus Area, with the extents and associated PIF numbers of previous archaeological assessments indicated.



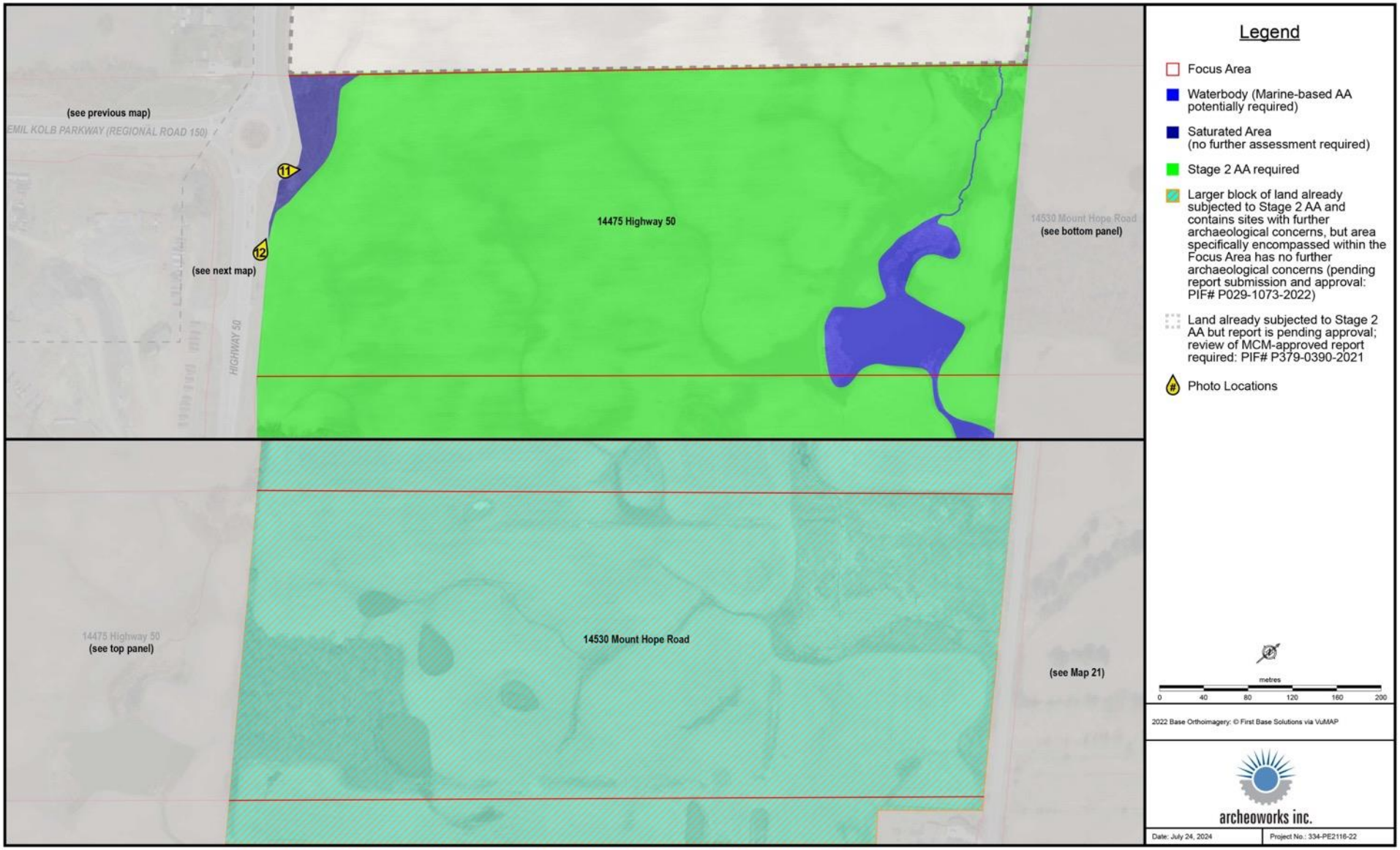
Map 15: Stage 1 AA results in the vicinity of the Focus Area, identifying the eight areas where Stage 2 AA remains outstanding.



Map 16: Stage 1 AA results within Focus Area (covering King Street and the segments of Emil Kolb Parkway south/west of the Humber River), with locations of photos taken during property inspection.



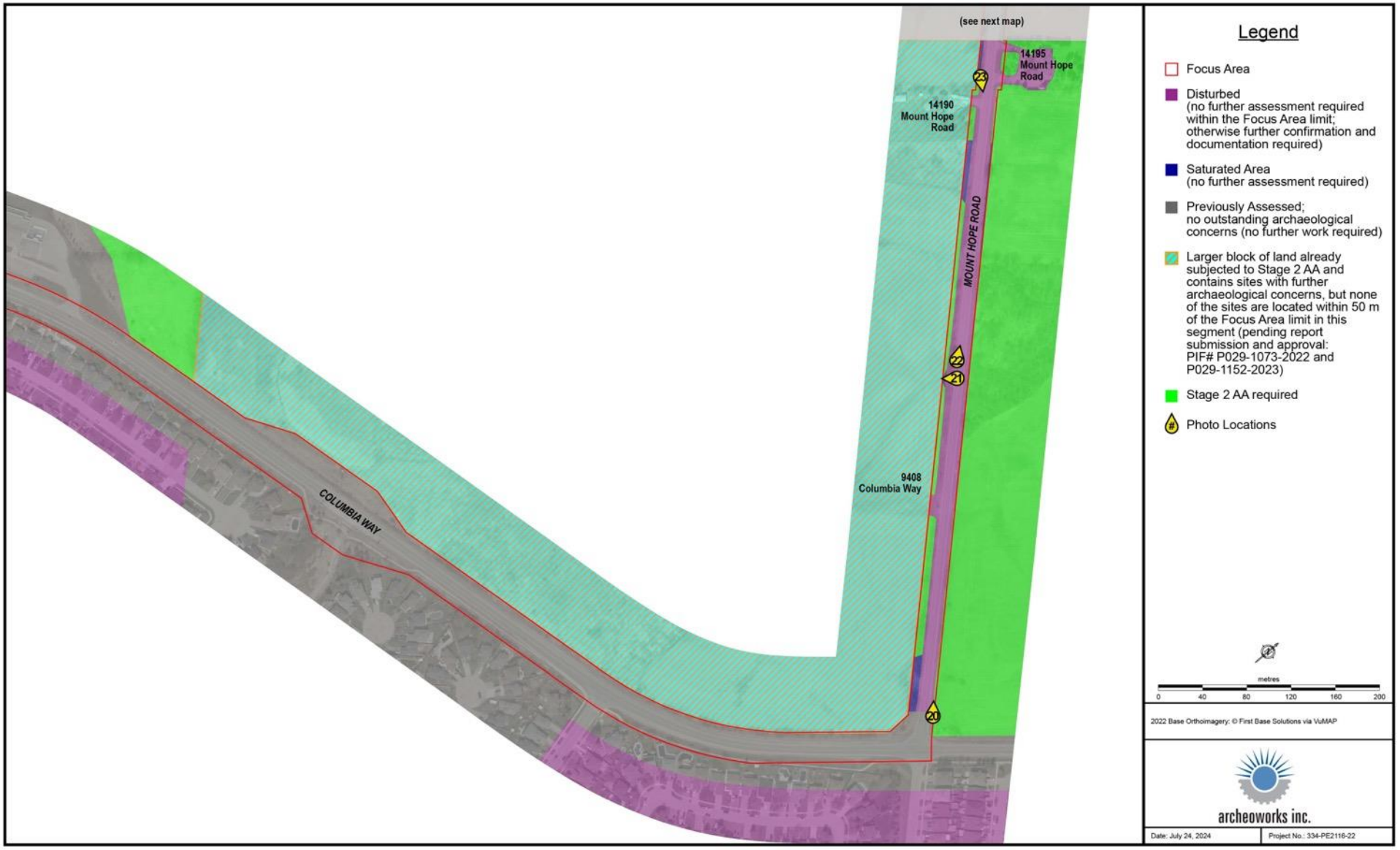
Map 17: Stage 1 AA results within Focus Area (covering the segments of Emil Kolb Parkway north/east of the Humber River), with locations of photos taken during property inspection. Note: A version of this map depicting the vicinity of AlGw-172 is included in the ***Supplementary Document***.



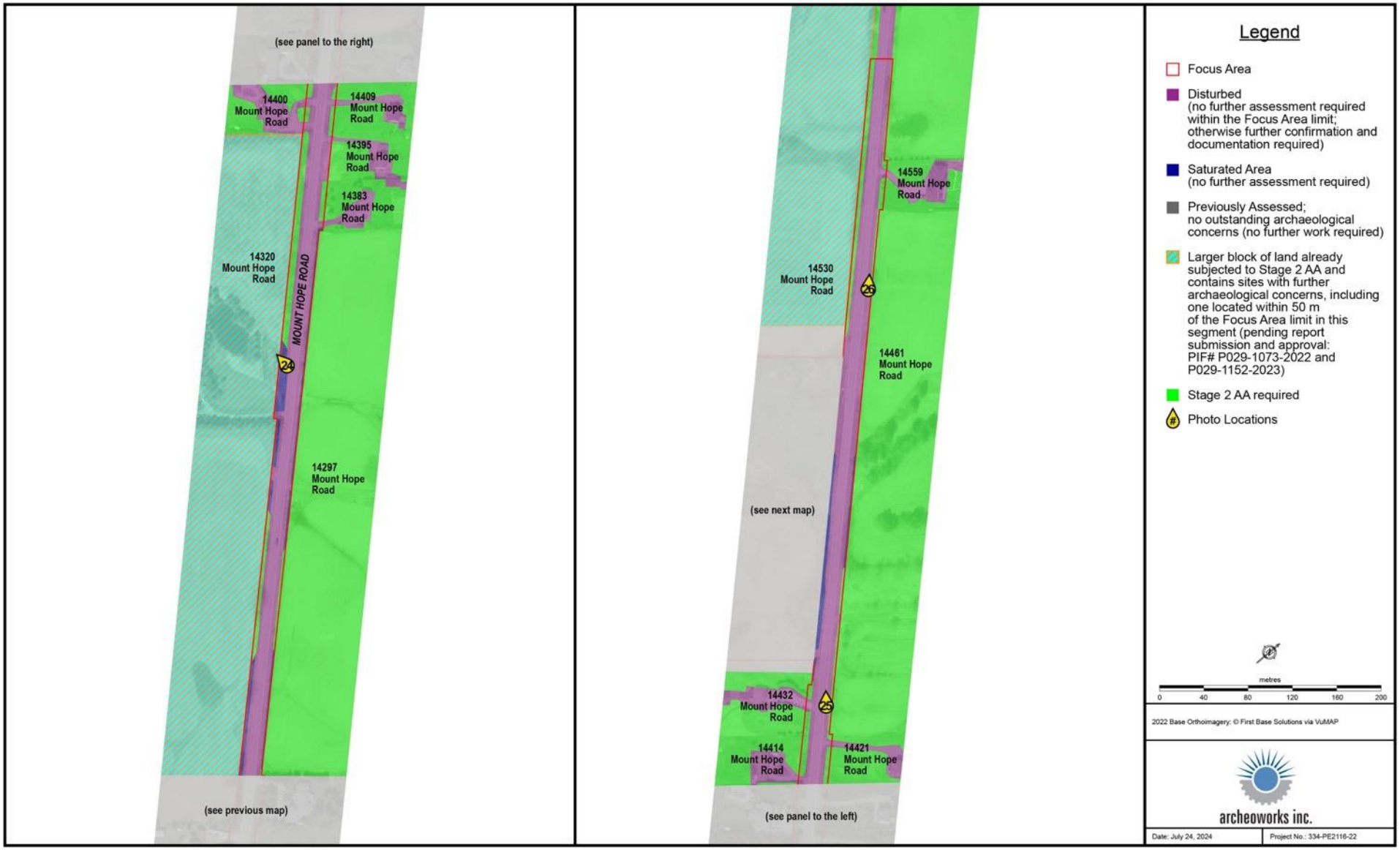
Map 18: Stage 1 AA results within Focus Area (covering private lands: 14475 Highway 50 and 14530 Mount Hope Road), with locations of photos taken during property inspection.



Map 19: Stage 1 AA results within Focus Area (covering segments of Highway 50 and the western segment of Columbia Way), with locations of photos taken during property inspection. Note: A version of this map depicting the vicinities of AlGw-135, AlGw-137 and AlGw-172 is included in the ***Supplementary Document***.



Map 20: Stage 1 AA results within Focus Area (covering the eastern segment of Columbia Way and the southern segment of Mount Hope Road), with locations of photos taken during property inspection.



Map 21: Stage 1 AA results within Focus Area (covering the northern segments of Mount Hope Road), with locations of photos taken during property inspection. Note: A version of this map depicting the vicinity of AlGw-216 is included in the Supplementary Document.

APPENDIX B: SUMMARY OF BACKGROUND RESEARCH

Feature of Archaeological Potential		Results			
Physical Features		**Yes**	**No**	**Unknown**	**Comment**
1	Water on or adjacent to the study area	X			If Yes, potential confirmed
1a	Presence of primary water source within 300 metres of the study area (lakes, rivers, streams, creeks)	X			If Yes, potential confirmed
1b	Presence of secondary water source within 300 metres (intermittent creeks and streams, springs, marshes, swamps)	X			If Yes, potential confirmed
1c	Features indicating past presence of water source within 300 metres (former shorelines, relic water channels, beach ridges, etc.)		X		If Yes, potential confirmed
1d	Accessible or inaccessible shoreline within 300 metres (high bluffs, swamp or marsh fields by the edge of a lake, sandbars stretching into marsh, etc.)		X		If Yes, potential confirmed
2	Elevated topography (eskers, drumlins, knolls, plateaus, etc.)	X			If Yes to two or more of 2-4 or 7-10, potential confirmed
3	Pockets of well-drained sandy soil, especially near areas of heavy soil or rocky ground		X		If Yes to two or more of 2-4 or 7-10, potential confirmed
4	Distinctive land formations (mounds, caverns, waterfalls, peninsulas, etc.)		X		If Yes to two or more of 2-4 or 7-10, potential confirmed
Cultural Features		**Yes**	**No**	**Unknown**	**Comment**
5	Previously identified archaeological site(s) within 300 metres	X			If Yes, potential confirmed
6	Known burial site or cemetery on or directly adjacent to the property	X			If Yes, potential confirmed
7	Associated with resource areas related to food or medicinal plants, scarce raw materials, early Euro-Canadian industry			X	If Yes to two or more of 2-4 or 7-10, potential confirmed
8	Indications of early Euro-Canadian settlement (monuments, cemeteries, structures, etc.) within 300 metres	X			If Yes to two or more of 2-4 or 7-10, potential confirmed
9	Historic transportation route (historic road, trail, portage, rail area, etc.) within 100 metres	X			If Yes to two or more of 2-4 or 7-10, potential confirmed
10	Property listed on a municipal register or designated under the *Ontario Heritage Act* or that is a federal, provincial or municipal historic landmark or site within 300 metres	X			If Yes to two or more of 2-4 or 7-10, potential confirmed
Property-specific Information		**Yes**	**No**	**Unknown**	**Comment**
11	Contains property listed or designated (under the *Ontario Heritage Act*) by the municipality	X			If Yes, potential confirmed
12	Local knowledge (Indigenous communities, heritage organizations, municipal heritage committees, etc.)			X	If Yes, potential confirmed
13	Archaeological Management Plan (AMP) illustrating archaeological potential for all or parts of the study area		X – no AMP		If Yes, potential confirmed
14	Recent ground disturbance, not including agricultural cultivation (post-1960, extensive and deep land alterations)	X – parts			If Yes, low archaeological potential is determined

APPENDIX C: HURON-WENDAT NATION HISTORY

ANNEX

History of the Nation Huronne-Wendat

As an ancient people, traditionally, the Huron-Wendat, a great Iroquoian civilization of farmers and fishermen-hunter-gatherers and also the masters of trade and diplomacy, represented several thousand individuals. They lived in a territory stretching from the Gaspé Peninsula in the Gulf of Saint Lawrence and up along the Saint Lawrence Valley on both sides of the Saint Lawrence River all the way to the Great Lakes. Huronia, included in Wendake South, represents a part of the ancestral territory of the Huron-Wendat Nation in Ontario. It extends from Lake Nipissing in the North to Lake Ontario in the South and Île Perrot in the East to around Owend Sound in the West. This territory is today marked by several hundred archaeological sites, listed to date, testifying to this strong occupation of the territory by the Nation. It is an invaluable heritage for the Huron-Wendat Nation and the largest archaeological heritage related to a First Nation in Canada.

According to our own traditions and customs, the Huron-Wendat are intimately linked to the Saint Lawrence River and its estuary, which is the main route of its activities and way of life. The Huron-Wendat formed alliances and traded goods with other First Nations among the networks that stretched across the continent.

Today, the population of the Huron-Wendat Nation is composed of more than 4000 members distributed on-reserve and off-reserve.

The Huron-Wendat Nation band council (CNHW) is headquartered in Wendake, the oldest First Nations community in Canada, located on the outskirts of Quebec City (20 km north of the city) on the banks of the Saint Charles River. There is only one Huron-Wendat community, whose ancestral territory is called the Nionwentsïo, which translates to "our beautiful land" in the Wendat language.

The Huron-Wendat Nation is also the only authority that have the authority and rights to protect and take care of her ancestral sites in Wendake South.

APPENDIX D: REVIEW OF REPORTS DOCUMENTING PREVIOUS ARCHAEOLOGICAL FIELDWORK

Table D1: Development Statuses of Registered Archaeological Sites Within and Immediately Adjacent to the Study Area[2]

Borden #	Site Name	Time Period	Site Type	Affinities	Development Status	PIF Number(s) of Most Recent Relevant Report(s)
Archaeological Sites within the Study Area Limits						
AkGw-3	Livingston	Archaic	-	Indigenous	No Further CHVI	P013-1068-2014
AkGw-66	John Laughlin	Pre-Contact; Post-Contact	Findspot; Homestead	Indigenous; Euro-Canadian	Further CHVI	PIF-93-010-LIC-1993-088; PIF-93-010-LIC-1993-088-STG3
AkGw-69	Avery	Pre-Contact	Findspot	Indigenous	No Further CHVI	PIF-93-010-LIC-1993-088; PIF-93-010-LIC-1993-088-STG3
AkGw-70	Dennis	Pre-Contact	Findspot	Indigenous	No Further CHVI	PIF-93-010-LIC-1993-088; PIF-93-010-LIC-1993-088-STG3
AkGw-317	Peel 3-IF.1	Pre-Contact	Findspot	Indigenous	Further CHVI	P015-017
AkGw-318	Peel 3-IF.2	Pre-Contact	Findspot	Indigenous	Further CHVI	P015-017
AkGw-319	Peel 3-IF.3	Pre-Contact	Findspot	Indigenous	Further CHVI	P015-017
AkGw-454	AkGw-454	Post-Contact	House	Euro-Canadian	No Further CHVI	P390-0242-2016
AkGw-460	Dusty Rose P1	Pre-Contact	Findspot	Indigenous	No Further CHVI	P334-200-2012
AkGw-482	Genesee Highway 50	Late Archaic	Findspot	Indigenous	No Further CHVI	P013-527-2010
AkGw-495	Countryside H1	Post-Contact	Homestead	Euro-Canadian	No Further CHVI (report pending approval)	P439-0082-2020
AkGw-496	Countryside H2	Post-Contact	Homestead	Euro-Canadian	No Further CHVI (report pending approval)	P439-0083-2020
AkGw-499	Clarkway Point	Early Woodland	Unknown	Indigenous	No Further CHVI	P038-0845-2016
AkGw-507	H1	Post-Contact	Homestead	Euro-Canadian	No Further CHVI (report pending approval)	P052-0925-2018
AkGw-508	H2	Post-Contact	Homestead	Euro-Canadian	No Further CHVI (report pending approval)	P052-0926-2018
AkGw-510	Craven 1	Post-Contact	Homestead	Euro-Canadian	No Further CHVI	P120-0232-2019
AkGw-511	Craven 2	Post-Contact	Homestead	Euro-Canadian	No Further CHVI	P120-0232-2019
AkGw-512	H1	Post-Contact	Homestead	Euro-Canadian	No Further CHVI (report pending approval)	P052-1041-2020
AkGw-548	-	Post-Contact	homestead	Euro-Canadian	No Further CHVI	P052-1121-2021
AlGw-3	Harper	Paleo-Indian; Archaic	Other: camp/campsite; Other: camp/campsite;	Indigenous	Further CHVI (presumed)	(Latta, 1979)
AlGw-4	Goodfellow	Paleo-Indian; Archaic	Other: camp/campsite; Other: camp/campsite	Indigenous	Further CHVI (presumed)	(Latta, 1979)
AlGw-5	French	Pre-Contact	Other: camp/campsite	Indigenous	No Further CHVI[3]	P019-150-2008

[2] Note: only sites lying within and immediately adjacent to the study area limits are included in this table. Sites located within 50 metres of the Focus Area are in **bold**.
[3] Most recent Stage 1-2 AA of the property on which the site is situated (PIF# P019-150-2008) has not resulted in the recovery of more artifacts related to the site.

Borden #	Site Name	Time Period	Site Type	Affinities	Development Status	PIF Number(s) of Most Recent Relevant Report(s)
AlGw-6	-	Late Archaic; Early Woodland	Other: camp/campsite; Other: camp/campsite	Indigenous	No Further CHVI[4]	(Latta, 1979)
AlGw-7	Castlederg	Post-Contact	Homestead	Euro-Canadian	Further CHVI (presumed)	(Latta, 1979)
AlGw-8	Judge	Early Archaic	Other: camp/campsite	Indigenous	Further CHVI	(Latta, 1979)
AlGw-10	G. Robinson	Archaic	Gathering, hunting	Indigenous	Further CHVI (presumed)	(Latta, 1979)
AlGw-11	J. Downey	Archaic	Hunting	Indigenous	Further CHVI (presumed)	(Latta, 1979)
AlGw-12	Grogan	Late Archaic	Other: camp/campsite	Indigenous	Further CHVI	(Latta, 1979)
AlGw-15	-	Pre-Contact	-	Indigenous	No Further CHVI[5]	P303-004-2008
AlGw-16	-	Pre-Contact	-	Indigenous	No Further CHVI[6]	P303-004-2008
AlGw-17	-	Pre-Contact	-	Indigenous	Further CHVI (presumed)	(Latta, 1979)
AlGw-19	Burns/C. Saunders	Post-Contact	Manufacturing	Euro-Canadian	Further CHVI (presumed)	No known report found
AlGw-25	Belly	Pre-Contact	Unknown	Indigenous	Further CHVI (presumed)	1992-051-013-1992
AlGw-26	Conolly	Middle Archaic	Other: camp/campsite	Indigenous	Further CHVI	1987-70-002-1987
AlGw-27	Edge	Middle Archaic	Other: camp/campsite	Indigenous	Further CHVI	1987-70-002-1987
AlGw-28	Beesting	Pre-Contact	Unknown	Indigenous	Further CHVI	1987-70-002-1987
AlGw-31	Lotor	Middle Archaic	Other: camp/campsite, processing	Indigenous	Further CHVI (presumed)	1988-09-001-1988
AlGw-32	Westlake	Paleo-Indian	Camp/Campsite	Indigenous	Further CHVI (presumed)	1988-09-001-1988
AlGw-36	-	Early Woodland (Meadowood)	Findspot	Indigenous	No Further CHVI[7]	(MIA, 1988)
AlGw-38	-	Pre-Contact	Findspot	Indigenous	No Further CHVI[8]	(MIA, 1989)
AlGw-39	-	Pre-Contact	Findspot	Indigenous	No Further CHVI[9]	(MIA, 1989)
AlGw-40	-	Early Woodland (Meadowood)	Findspot	Indigenous	No Further CHVI	89-160B
AlGw-41	-	Post-Contact	Findspot	Euro-Canadian	No Further CHVI	89-160B
AlGw-42	-	Post-Contact	Unknown	Euro-Canadian	No Further CHVI[10]	(MIA, 1989)
AlGw-43	Loring	Post-Contact	Homestead	Euro-Canadian	No Further CHVI	(ASI, 1991; Licensee: Ronald Williamson [1990-021])
AlGw-44	Swinarton	Early Archaic; Middle Archaic	Findspot; findspot	Indigenous	No Further CHVI	(ASI, 1991; Licensee: Ronald Williamson [1990-021])

[4] Researcher comments on the OASD entry for this site states “Might repay further investigation to determine significance of the clustering [of artifacts]." However, the site area has since been redeveloped into a residential subdivision.
[5] Most recent Stage 1-2 AA of the property on which the site is situated (PIF# P303-004-2008) has not resulted in the recovery of more artifacts related to the site.
[6] Most recent Stage 1-2 AA of the property on which the site is situated (PIF# P303-004-2008) has not resulted in the recovery of more artifacts related to the site.
[7] The site area has since been redeveloped into a residential subdivision.
[8] The site area has since been redeveloped into a residential subdivision.
[9] The site area has since been redeveloped into a residential subdivision.
[10] The site area has since been redeveloped into a residential subdivision.

Borden #	Site Name	Time Period	Site Type	Affinities	Development Status	PIF Number(s) of Most Recent Relevant Report(s)
AlGw-45	Fleming Shaw	Pre-Contact; Post-Contact	Findspot; Homestead	Indigenous; Euro-Canadian	Further CHVI	PIF-93-010-LIC-1993-088
AlGw-46	DiSanto	Pre-Contact	Findspot	Indigenous	No Further CHVI	PIF-93-010-LIC-1993-088
AlGw-47	French	Late Archaic	Findspot	Indigenous	No Further CHVI	PIF-93-010-LIC-1993-088
AlGw-48	Humberview	Pre-Contact	Findspot	Indigenous	No Further CHVI	PIF-93-010-LIC-1993-088
AlGw-49	Lougheed	Pre-Contact	Findspot	Indigenous	No Further CHVI	PIF-93-010-LIC-1993-088
AlGw-51	Samuel Walford House	Post-Contact	Other: building; homestead; house; manufacturing	Euro-Canadian	Further CHVI	No known report found
AlGw-55	John Corless Farmstead	Post-Contact	Other: privy; homestead; midden	Euro-Canadian	No Further CHVI	PIF-96-002-LIC-1996-001; PIF-96-025-LIC-1996-001
AlGw-56	Jetron	Middle Archaic	Findspot	Indigenous	No Further CHVI	P316-017-2009; P316-017-2009-STG3; P053-189-2008
AlGw-59	-	Pre-Contact	Unknown	Indigenous	No Further CHVI[11]	-
AlGw-60	Moore	Post-Contact	Scatter	Euro-Canadian	No Further CHVI[12]	-
(a site also designated AlGw-60)[13]		Pre-Contact	Scatter	Indigenous	No Further CHVI[14]	97CA-01
AlGw-62	-	Pre-Contact	Other: camp/campsite	Indigenous	No Further CHVI[15]	PIF-98-04-LIC-1998-054
AlGw-63	-	Post-Contact	Scatter	Euro-Canadian	No Further CHVI[16]	PIF-98-04-LIC-1998-054
AlGw-65	-	Pre-Contact	Findspot	Indigenous	No Further CHVI	2000-026-004; 2000-026-004-S4EX
AlGw-66	-	Pre-Contact	Findspot	Indigenous	No Further CHVI	2000-026-004; 2000-026-004-S4EX
AlGw-67	-	Late Archaic	Findspot	Indigenous	No Further CHVI	2000-026-024
AlGw-69	-	Early Archaic	Findspot	Indigenous	No Further CHVI	2002-035-015
AlGw-80	Graham	Post-Contact	Farmstead	Euro-Canadian	No Further CHVI	P052-101
AlGw-81	-	Early Archaic	Findspot	Indigenous	No Further CHVI	P117-110
AlGw-84	Peel 8-IF.1	Pre-Contact	Unknown	Indigenous	No Further CHVI	P019-062-2006
AlGw-85	Peel 8-IF.2	Pre-Contact	Unknown	Indigenous	No Further CHVI	P019-062-2006
AlGw-87	Peel 7-15	Post-Contact	Unknown	Euro-Canadian	Further CHVI[17]	P015-017

[11] The site area has since been redeveloped into a residential subdivision.
[12] The site area has since been redeveloped into a residential subdivision.
[13] The associated report (PIF# 97CA-01) for a lithic scatter found at the southwest corner of Lot 4, Concession 6, Geo. Twp, of Albion designates the archaeological site as "AlGw-60." However, the OASD officially assigns this Borden number to a different site located on Lot 10, Concession 6 (about 4 km away).
[14] The site area has since been redeveloped into an industrial lot.
[15] The site area has since been redeveloped into an industrial lot.
[16] The site area has since been redeveloped into an industrial lot.
[17] This site is reported upon under PIF# P015-017, but was mislabelled in the report as AlGw-119. OASD data indicates that AlGw-119 is an entirely different site, located outside of the current study area limits.

Borden #	Site Name	Time Period	Site Type	Affinities	Development Status	PIF Number(s) of Most Recent Relevant Report(s)
AlGw-88	-	Pre-Contact	Unknown	Indigenous	No Further CHVI	P019-064-2006
AlGw-99	Peel 5-5	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-100	Peel 5-IF.1	Pre-Contact	Findspot	Indigenous	Further CHVI	P015-017
AlGw-101	Peel 5-IF.2	Pre-Contact	Findspot	Indigenous	Further CHVI	P015-017
AlGw-102	Peel 5-IF.3	Early Woodland	Findspot	Indigenous	Further CHVI	P015-017
AlGw-103	Peel 5-IF.4	Pre-Contact	Findspot	Indigenous	Further CHVI	P015-017
AlGw-104	Peel 5-IF.5	Pre-Contact	Findspot	Indigenous	Further CHVI	P015-017
AlGw-105	Peel 6-6	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-106	Peel 6-7	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-107	Peel 6-8	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-108	Peel 6-9	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-109	Peel 6-10	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-110	Peel 6-11	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-111	Peel 6-12	Post-Contact	Unknown	Euro-Canadian	Further CHVI	P015-017
AlGw-112	Peel 6-IF.1	Pre-Contact	Findspot	Indigenous	Further CHVI	P015-017
AlGw-113	Peel 6-IF.2	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-114	Peel 6-IF.3	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-115	Peel 6-IF.4	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-116	Peel 6-IF.5	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-117	Peel 7-12	Pre-Contact; Post-Contact	Unknown; unknown	Indigenous; Euro-Canadian	Further CHVI	P015-017
AlGw-118	Peel 7-13	Pre-Contact	Unknown	Indigenous	Further CHVI	P015-017
AlGw-120	Coleraine	Post-Contact	-	Euro-Canadian	No Further CHVI	P038-250-2007; P038-250-2007-STG3
AlGw-121	Sparrow	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P013-290-2007; P013-290-2007-STG3
AlGw-123	Albion Presbyterian Cemetery	Post-Contact	Cemetery	Euro-Canadian	Further CHVI[18]	P048-040-2007
AlGw-124	Solmar P2	Pre-Contact	Findspot	Indigenous	No Further CHVI	P029-1032-2021
AlGw-125	Solmar H1	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1032-2021
AlGw-126	Solmar H2	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1032-2021
AlGw-127	Solmar H3	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1032-2021
AlGw-128	Solmar H4	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1032-2021
AlGw-129/ AlGw-187	Solmar H5/Clark	Post-Contact	Homestead	Euro-Canadian	No Further CHVI[19]	P013-1153-2016

[18] For specific recommendations for further work, review of associated Stage 1-2 AA report (PIF# P048-040-2007) is required.

[19] Site was first discovered during Stage 2 AA in 2007-2008 (PIF# P029-1032-2021). A separate Stage 1-2 AA was carried out in 2015 (P013-1098-2015) during which the site was registered a second time under the name “Clark” and under a different Borden number AlGw-187. Stage 3 AA in 2016 determined the site was of no further CHVI (PIF# P013-1153-2016).

Borden #	Site Name	Time Period	Site Type	Affinities	Development Status	PIF Number(s) of Most Recent Relevant Report(s)
AlGw-130	Solmar H6	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1032-2021
AlGw-132	Caldwell	Post-Contact	Homestead	Euro-Canadian	No Further CHVI	P049-261-2008
AlGw-134	-	Post-Contact	Unknown	Euro-Canadian	Further CHVI	P303-004-2008
AlGw-135	**-**	**Pre-Contact**	**Unknown**	**Indigenous**	**Further CHVI**	**P303-004-2008**
AlGw-136	-	Pre-Contact	Findspot	Indigenous	Further CHVI	P303-004-2008
AlGw-137	**-**	**Post-Contact**	**Unknown**	**Euro-Canadian**	**Further CHVI**	**P303-004-2008**
AlGw-138	-	Post-Contact	Unknown	Euro-Canadian	Further CHVI	P303-004-2008
AlGw-141	-	Post-Contact	Scatter	Euro-Canadian	Further CHVI	P303-0359-2015; P303-0430-2016
AlGw-142	-	Middle Archaic	Scatter	Indigenous	Further CHVI	P303-0359-2015; P303-0430-2016
AlGw-143	-	Pre-Contact	-	Indigenous	No Further CHVI	P303-0272-2013
AlGw-144	-	Pre-Contact	Unknown	Indigenous	No Further CHVI	P303-0272-2013
AlGw-145	-	Pre-Contact	Unknown	Indigenous	Further CHVI[20]	P303-0272-2013
AlGw-146	-	Pre-Contact	Unknown	Indigenous	Further CHVI	P303-0391-2016
AlGw-147	-	Pre-Contact	Unknown	Indigenous	No Further CHVI	P303-0272-2013
AlGw-151	Hart	Post-Contact	-	Euro-Canadian	Further CHVI[21]	P468-0101-2022
AlGw-152	Graham-Robinson	Post-Contact	Homestead	Euro-Canadian	No Further CHVI	P125-0246-2017
AlGw-160	**The Taylor Homestead**	**Post-Contact**	**Homestead**	**Euro-Canadian**	**No Further CHVI**	**P303-083-2010**
AlGw-161	-	Pre-Contact	Findspot	Indigenous	No Further CHVI	P303-035-2009
AlGw-163	Shore Site	Post-Contact	Farmstead	Euro-Canadian	Further CHVI[22]	P243-093-2010+P218-026-2011; P243-217-2011; P366-031-2013; P362-0083-2014
AlGw-169	Northcote Site	Pre-Contact; Post-Contact	Other: scatter, homestead	Indigenous; Euro-Canadian	No Further CHVI	P316-0293-2014
AlGw-171	**Goodfellow**	**Post-Contact**	**Unknown**	**Euro-Canadian**	**No Further CHVI**	**P303-159-2011**
AlGw-172	**Harper**	**Pre-Contact; Post-Contact**	**-**	**Indigenous; Euro-Canadian**	**Further CHVI[23]**	**P390-0067-2013**
AlGw-180	Loring Site	Post-Contact	Midden	Euro-Canadian	No Further CHVI	P303-0361-2015
AlGw-181	Loring/Burton Site	Post-Contact	Midden; scatter	Euro-Canadian	Further CHVI	P303-0273-2013
AlGw-182	-	Post-Contact	Other: Domestic/Agricultural	Euro-Canadian	Further CHVI	P303-163-2013

[20] Renewed Stage 1-2 AA (PIF# P303-0272-2013) carried out five years after initial site identification (P019-150-2008) considers this site as assimilated into the nearby AlGw-146 site. Current development status given therefore reflects that of AlGw-146.

[21] Part of the site within the Highway 50 ROW was subjected to Stage 4 excavation in 2016 (PIF# P390-0192-2016) and cleared of archaeological concern. Another portion of the site was subjected to Stage 3 AA (P468-0101-2022), and requires further Stage 4 mitigation.

[22] Portion of the site which extends beyond the Stage 4-mitigated area will require further archaeological assessment.

[23] Portion of the site which extends beyond the Stage 4-mitigated area will require further archaeological assessment.

Borden #	Site Name	Time Period	Site Type	Affinities	Development Status	PIF Number(s) of Most Recent Relevant Report(s)
AlGw-189	Goodfellow Site	Post-Contact	Farmstead; midden	Euro-Canadian	No Further CHVI	P013-1171-2016
AlGw-190	Coleraine	Pre-Contact	Findspot	Indigenous	No Further CHVI	P013-1168-2016
AlGw-192	W. Jaffery	Post-Contact	Unknown	Euro-Canadian	No Further CHVI (pending report approval)	P038-0912-2017
AlGw-194	Lougheed Site	Post-Contact	Farmstead; house	Euro-Canadian	No Further CHVI	P321-0360-2022
AlGw-196	Nattress	Post-Contact	Homestead	Euro-Canadian	No Further CHVI	P310-0190-2018
AlGw-199	Location 1	Pre-Contact	Camp/campsite; scatter	Indigenous	Further CHVI	P007-1145-2020
AlGw-200	Location 2	Middle Archaic	Findspot	Indigenous	No Further CHVI	P468-0055-2020
AlGw-201	AlGw-201	Early Archaic	Findspot	Indigenous	No Further CHVI (pending report approval)	P1128-0007-2022
AlGw-202	AlGw-202	Early Archaic	Findspot	Indigenous	No Further CHVI (pending report approval)	P1128-0006-2022
AlGw-203	O'Leary	Post-Contact	Scatter	Euro-Canadian	No Further CHVI (pending report approval)	P379-0390-2021
AlGw-204	Mary	Post-Contact	Dump	Euro-Canadian	No Further CHVI (pending report approval)	P379-0421-2021
AlGw-205	-	Early Archaic	Findspot	Indigenous	No Further CHVI (pending report approval)	P1016-0210-2022
AlGw-206	Copeland	Post-Contact	Homestead; scatter	Euro-Canadian	Further CHVI	P400-0211-2023
AlGw-207	P2	Late Archaic	Findspot	Indigenous	No Further CHVI	P449-0458-2020
AlGw-208	5603 Countryside Drive Brewerton Point	Middle Archaic	Hunting loss	Indigenous	No Further CHVI	P058-2162-2022
AlGw-209	Glacial Loss	Paleo-Indian	Findspot	Indigenous	Further CHVI	P379-0467-2022
AlGw-213	Location 1	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P390-0374-2022
AlGw-214	H4	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1073-2022; P029-1152-2023
AlGw-215	H5	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1152-2023
AlGw-216	H2	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1073-2022
AlGw-217	H3	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1073-2022
AlGw-218	**H6**	**Post-Contact**	**Homestead**	**Euro-Canadian**	**Further CHVI**	**P029-1073-2022**
AlGw-219	P3	Middle Archaic	Findspot	Indigenous	No Further CHVI (pending report approval)	P029-1073-2022
(unregistered archaeological site on Lot 17, Con. 12 N.D., Geo. Twp. of Toronto Gore)[24]		-	-	-	Further CHVI (presumed)[25]	P059-321-2010

[24] The mapping in the Stage 1-2 AA report associated with PIF# P059-321-2010 depicts a dense scatter of artifacts within the property at the southeast corner of Mayfield Road and Coleraine Drive (i.e., Lot 17, Concession 12 Northern Division, Geo. Twp. of Toronto Gore), but the text of the report discusses an entirely different property (Lot 17, Concession 4 East of Hurontario Street, Geo. Twp. of Chinguacousy) and three archaeological sites found within that property.

[25] Review of corrected Stage 1-2 AA report, if available, is recommended to determine how to address the outstanding archaeological concerns tied to this site, if there are any.

Borden #	Site Name	Time Period	Site Type	Affinities	Development Status	PIF Number(s) of Most Recent Relevant Report(s)
Archaeological Sites within 50 m of the Study Area Limits						
AlGw-68	Hall	Post-Contact	Cabin	Euro-Canadian	No Further CHVI	2002-086-004
AlGw-168	H1	Post-Contact	-	Euro-Canadian	No Further CHVI	P1016-0019-2014

APPENDIX E: IMAGES



Image 1: View of paved King Street/RR 9 road platform, and north side gravel shoulder, roadside ditching and testable grass margin at top of ditch slope.



Image 2: View of paved King Street/RR 9 road platform, and north side gravel shoulder, roadside ditching and testable grass margin at edge of residential lawn.



Image 3: View of paved King Street/RR 9 and Harvest Moon Drive road platforms, and south side paved shoulder, roadside ditching and sewer grate within the ditch.



Image 4: View of extant conditions within the previously assessed portion of the Emil Kolb Parkway/RR 150 ROW.



Image 5: View of raised platform of the abandoned road alignment east of the Humber River, with undisturbed wooded areas flanking it.



Image 6: View of cut slope within the extant Emil Kolb Parkway/RR 150 ROW, with undisturbed wooded area beyond the ROW limit.



Image 7: View of overgrown area at the southwest corner of Duffys Lane and Emil Kolb Parkway/RR 150, with exposed graded soil within the previously surveyed portion of the ROW visible in the foreground.



Image 8: View of undisturbed overgrown area at the southwest corner of Duffys Lane and Emil Kolb Parkway/RR 150.



Image 9: View of conditions along north side of Emil Kolb Parkway/RR 150, showing disturbed ditching (left) and undisturbed previously unassessed land between the rows of coniferous and deciduous trees.



Image 10: View of conditions along north side of Emil Kolb Parkway/RR 150, showing disturbed ditching (foreground) and undisturbed previously unassessed land between the rows of coniferous and deciduous trees.



Image 11: View of saturated area just outside the Highway 50 ROW limit, and active agricultural field at 14475 Highway 50.



Image 12: View of saturated area just outside the Highway 50 ROW limit, and active agricultural field at 14475 Highway 50.



Image 13: View of west side of Highway 50, showing gravel shoulder, shallow ditching and driveway, with testable margin visible at right.



Image 14: View of east side of Highway 50, showing gravel shoulder and ditching, with narrow strip of testable margin visible at left.



Image 15: View of saturated soil conditions along the west side of Highway 50.



Image 16: View of saturated soil conditions along the east side of Highway 50.



Image 17: View of paved Highway 50 road platform and commercial frontage along the east side, at 14289 Highway 50.



Image 18: View of saturated soil conditions along the west side of Highway 50.



Image 19: View of conditions along the east side of Highway 50, showing paved road platform, gravel shoulder, ditching and saturated soil conditions up to the ROW limit.



Image 20: View of paved Mount Hope Road platform, east side gravel shoulder, ditching and narrow testable margin by the ROW limit.



Image 21: View of steep embankment and culvert along the west side of Mount Hope Road.



Image 22: View along Mount Hope Road looking north, with embankment visible at left and cut slope visible at right.



Image 23: View along Mount Hope Road looking south, showing road platform flanked by gravel shoulders, driveways, ditching and narrow testable margins.



Image 24: View of saturated soil conditions along the west side of Mount Hope Road.



Image 25: View along Mount Hope Road, showing road platform flanked by gravel shoulders, driveways, ditching and narrow testable margins.



Image 26: View along Mount Hope Road, showing road platform flanked by gravel shoulders, driveways, ditching and narrow testable margins.

APPENDIX F: INVENTORY OF DOCUMENTARY AND MATERIAL RECORD

Project Information:				
Project #:	334-PE2116-22			
Licensee (#):	Kim Slocki (P029)			
MCM PIF #:	P029-1153-2024			
Document/Material		**Details**	**Location**	
1.	Written Field Notes, Annotated Field Drawings and Maps	Thirteen (13) scanned pages of field notes, drawings and maps	Archeoworks Inc., 16715-12 Yonge St., Suite 1029, Newmarket, ON, Canada, L3X 1X4	Stored on Archeoworks network servers
2.	Fieldwork Photographs	236 digital photographs	Archeoworks Inc., 16715-12 Yonge St., Suite 1029, Newmarket, ON, Canada, L3X 1X4	Stored on Archeoworks network servers
3.	Research/ Analysis/ Reporting Material	Digital files stored in: /2022/334-PE2116-22 - Peel-Bolton Water + Wastewater Servicing Class EA/Stage 1	Archeoworks Inc. 16715-12 Yonge Street Suite 1029 Newmarket, ON L3X 1X4	Stored on Archeoworks network servers

Under Section 14 of the Terms and Conditions for Archaeological Licences issued under the Ontario Heritage Act, “the licensee shall hold in safekeeping all artifacts and records of archaeological fieldwork carried out under this licence, except where those artifacts and records are transferred by the licensee to His Majesty the King in right of Ontario or the licensee is directed to deposit them in a public institution in accordance with subsection 66(1) of the Act." The collections are being stored at *Archeoworks Inc.* on the licensee's behalf.

ARCHEOWORKS INC.

Stage 1 Archaeological Assessment for the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment Within Lots 15-17, Concessions 8 to 12 (Northern Division) in the Geographic Township of Toronto Gore Lots 1-17, Concessions 2-7, Lots 6-17, Concession 8, Lots 11-16, Concession 9 and Lot 16, Concession 10 in the Geographic Township of Albion Historic County of Peel Now in the Town of Caledon and City of Brampton Regional Municipality of Peel (Peel Region) Ontario

Project #: 334-PE2116-22
Licensee (#): Kim Slocki (P029)
PIF #: P029-1153-2024

Supplementary Document

May 9, 2025

Presented to:
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1.0 ARCHIVAL IMAGE

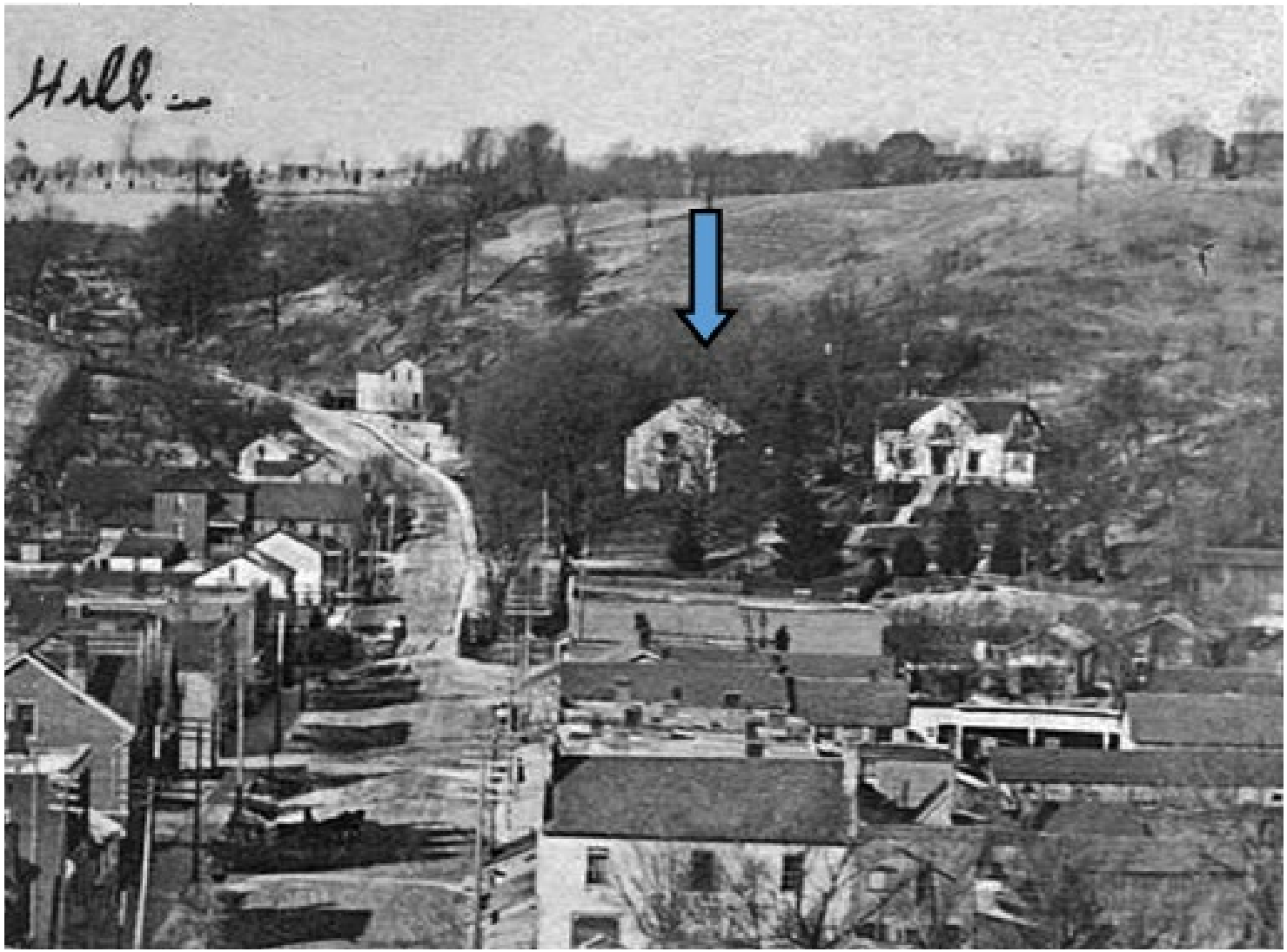
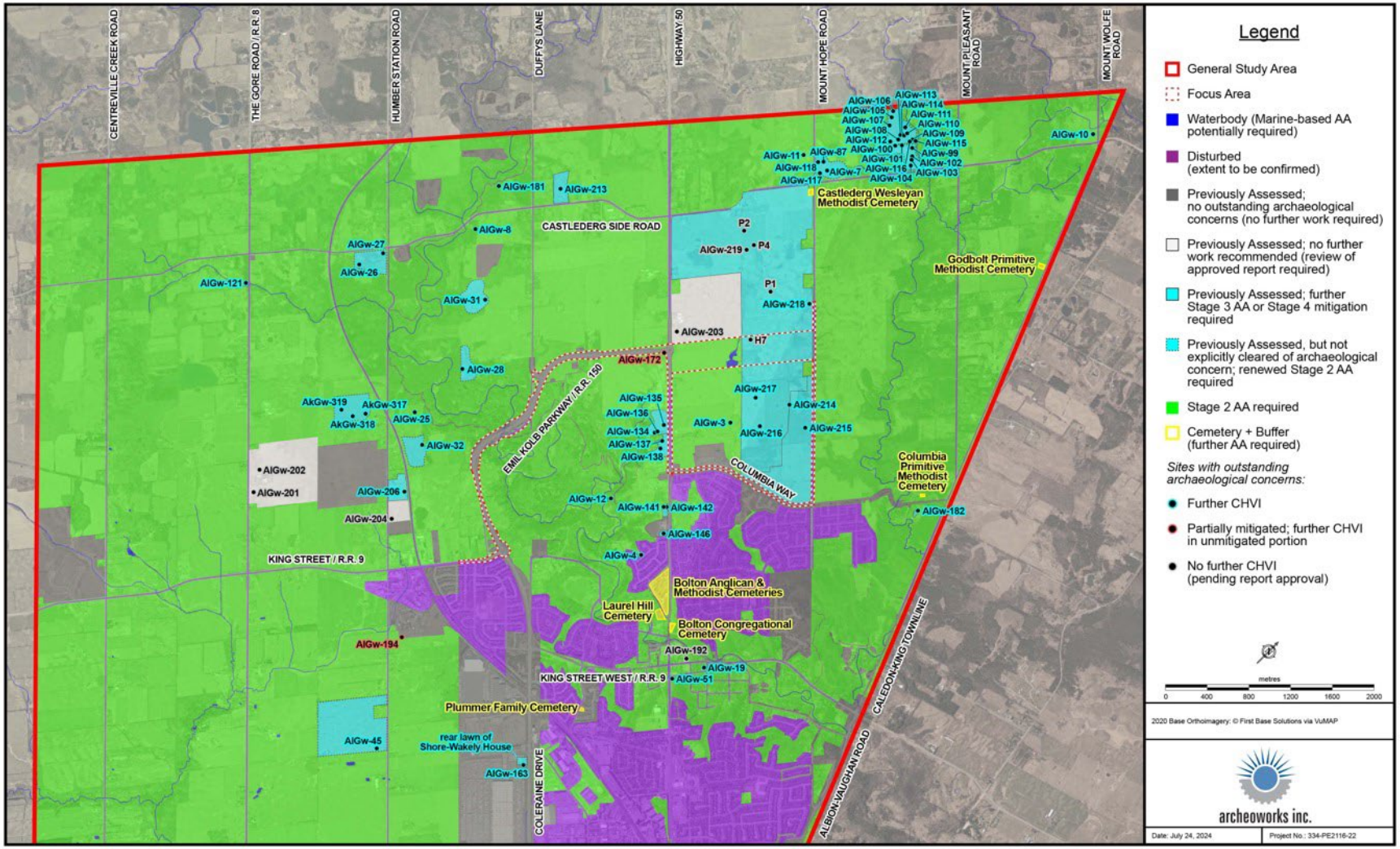
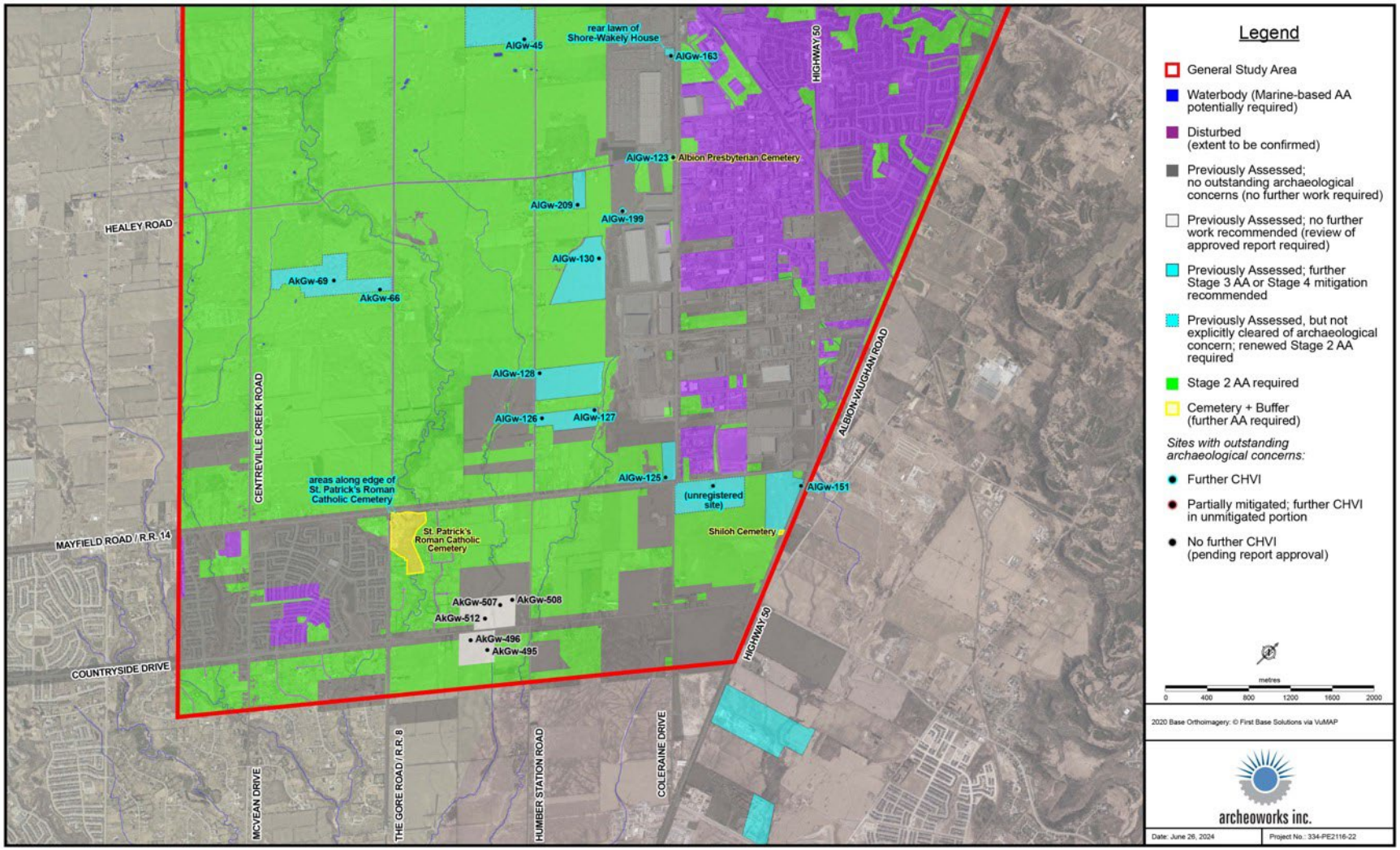


Image S1: Bolton Congregational Church. Note: the arrow points to the former frame church, and the gravestones are visible to the right of the church, up the hillside.

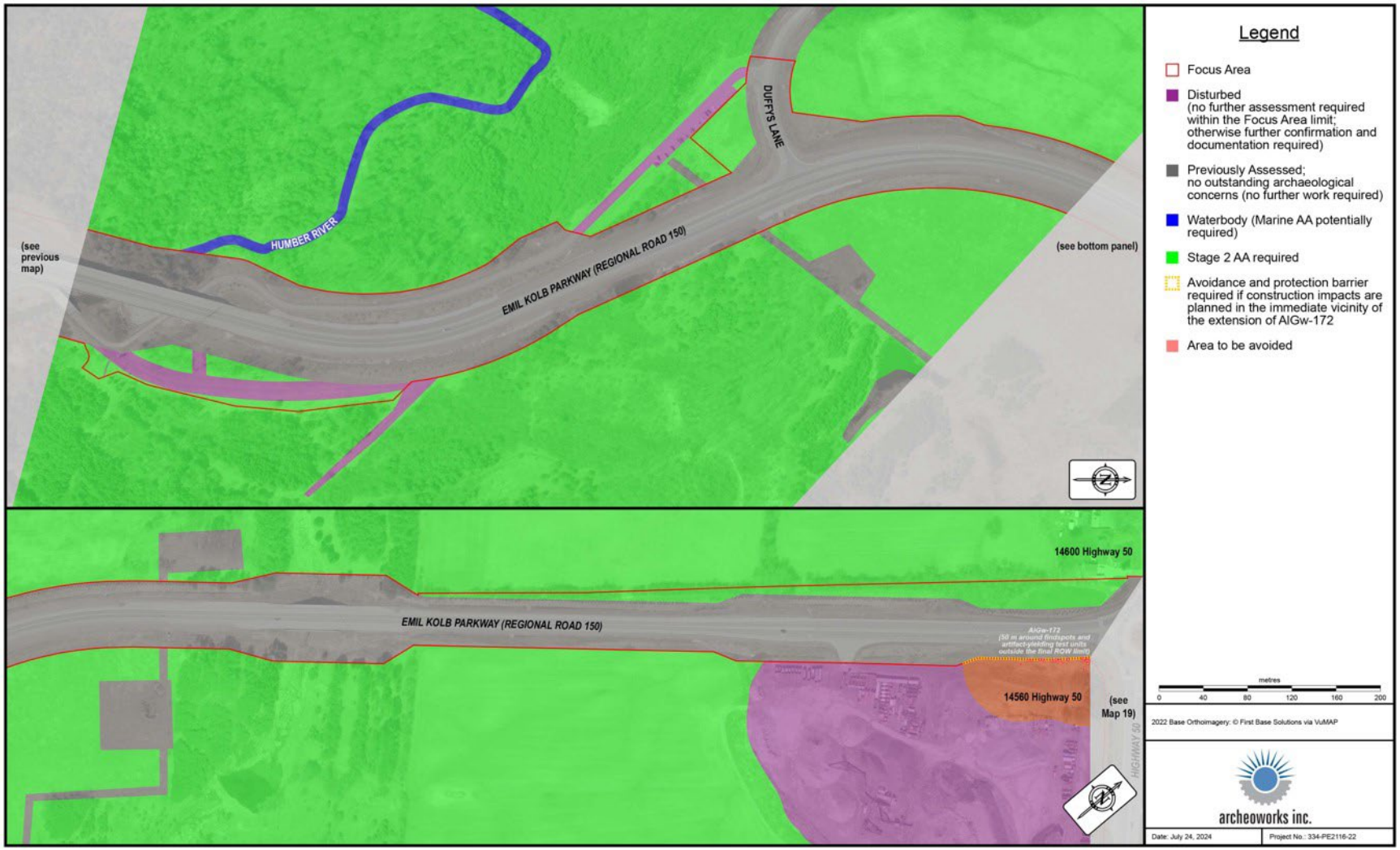
2.0 DETAILED MAPS



Map S1: Stage 1 AA map (north half), showing sites and areas with outstanding archaeological concerns.



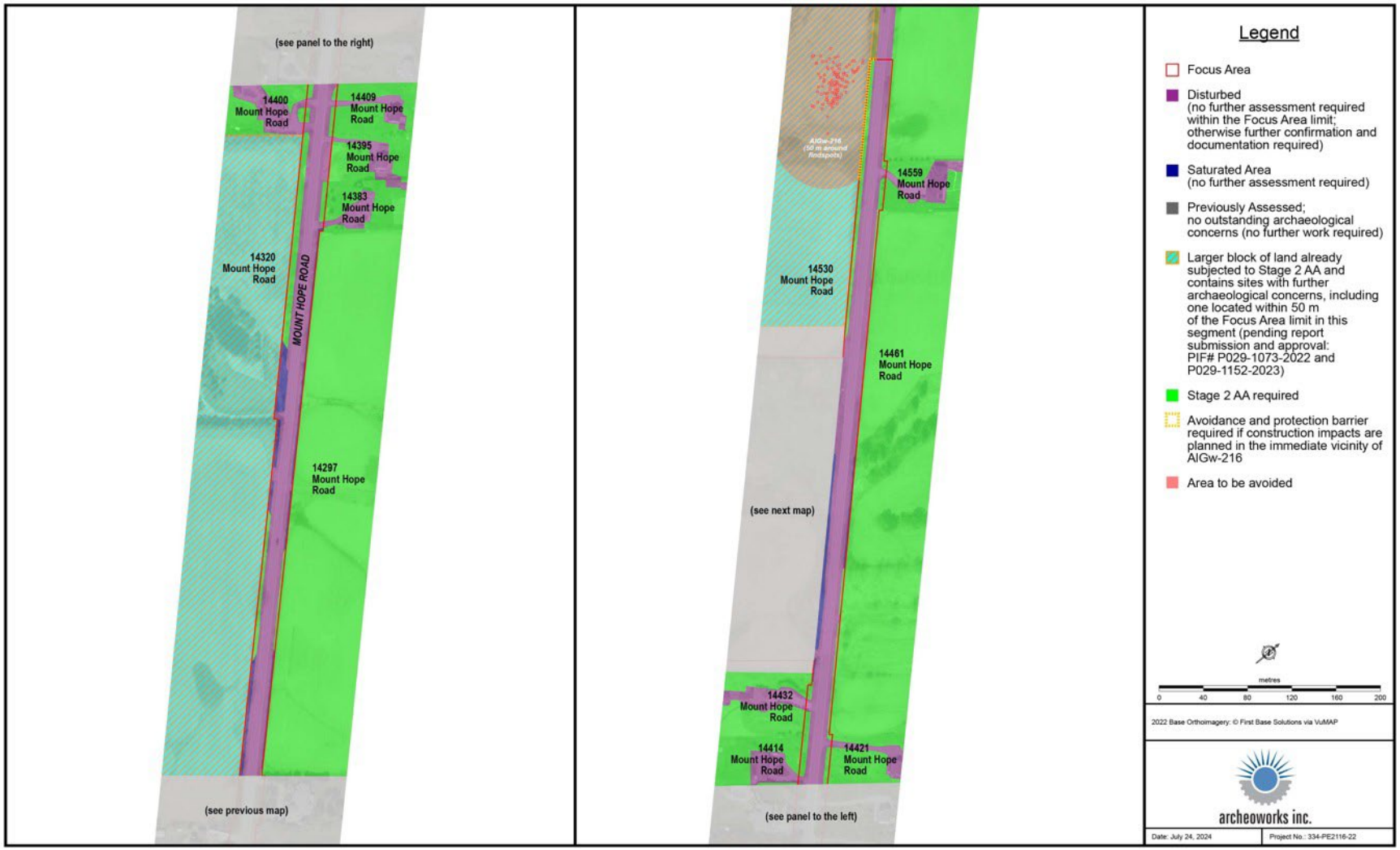
Map S2: Stage 1 AA map (south half), showing sites and areas with outstanding archaeological concerns.



Map S3: Stage 1 AA results within focus area (covering the segments of Emil Kolb Parkway north/east of the Humber River), showing archaeologically sensitive area related to AlGw-172.



Map S4: Stage 1 AA results within focus area (covering segments of Highway 50 and the western segment of Columbia Way), showing archaeologically sensitive areas related to AlGw-135, AlGw-137 and AlGw-172.



Map S5: Stage 1 AA results within focus area (covering segments of Mount Hope Road), showing archaeologically sensitive area related to AlGw-216.

3.0 CORRESPONDENCE WITH THE MCM[1]

From: ltempleton@archeoworks.com
Sent: October 20, 2023 1:44 PM
To: Shari.Prowse@ontario.ca
Cc: 'Archaeology (MHSTCI)' <archaeology@ontario.ca>; kslocki@archeoworks.com, blawson@archeoworks.com, Kaldridge@archeoworks.com, 'Jay Villapando' <jay@archeoworks.com>
Subject: Request for Technical Advice: P439-0171-2023

Hi Shari,

Please see attached request for technical advice for **P439-0171-2023** [334-PE2116-22 - Peel-Bolton Water + Wastewater Servicing Class EA].

The recommendations contained within have been created based on Archeoworks Inc.'s opinions and current interpretation of MCM cemetery requirements.

As of February 2022, the MCM has not updated the 2011 *Standards and Guidelines* or issued a *Technical Bulletin* to address the assessment of cemeteries and lands adjacent to those cemeteries. However, we understand that cemetery requirements are ongoing and ever changing at the MCM. Per previous correspondence (dated May 6, 2021) and the BAO's *REGISTRAR'S DIRECTIVE: Authorization for Stages 2-4 Archaeological Fieldwork (Assessments and Investigations) on Cemetery Lands* (updated as of February 12, 2021), where it has been recommended that archaeological consultants seek advice to ensure that recommendations regarding cemetery investigations are in line with the most up-to-date advice to guarantee that the proponent is aware of additional requirements and possible options, these recommendations are considered incomplete until the final recommendations by the MCM are offered.

Thank you,

Lee

Lee Templeton, H.B.A. *(she/her)*
archeoworks inc.
16715-12 Yonge St., Suite 1029, Newmarket, ON, L3X 1X4
T: 416-948-6896 | F: 647-436-1938

[Attachment]

[1] This correspondence makes reference to seven (7) locations which were depicted on the attachment's Map 2 (page 5 of 6), as part of the former archaeological screening process.

ARCHEOWORKS INC.

Friday, October 20, 2023

Archaeological & Heritage Planning
Ministry of Citizenship and Multiculturalism
Programs and Services Branch
401 Bay Street, Suite 1700
Toronto, ON, M7A 0A7

RE: Request for Technical Advice for MCM Project Information Form Number P439-0171-2023 (Stage 1 – Peel-Bolton Water + Wastewater Servicing Class EA). Archeoworks Inc. Project Number: 334-PE2116-22.

Development Context

The Regional Municipality of Peel has initiated the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment (EA) to evaluate all potential alternatives to develop the optimal water and wastewater servicing solutions to meet existing needs and growth within the vicinity of Bolton.

To facilitate this study, *Archeoworks Inc.* was retained by *GM BluePlan Engineering Limited* to conduct a Stage 1 Archaeological Assessment (AA) of an area of study that is roughly bounded by Castlederg Side Road in the northwest (in this report, to be simplified to "north"), Caledon-King Townline/Albion-Vaughan Road/Highway 50 to the northeast ("east"), Countryside Drive to the southeast ("south") and McVean Drive/Centreville Creek Road to the southwest ("west"), in the Town of Caledon and City of Brampton, Regional Municipality of Peel. The study area encompasses Lots 15 to 17 of Concessions 8 to 12 (Northern Division) of the Geographic Township of Toronto Gore; Lots 1 to 17 of Concessions 2 to 7, Lots 6 to 17 of Concession 8, Lots 11 to 16 of Concession 9, and Lot 16 of Concession 10 in the Geographic Township of Albion, historic County of Peel.

Within this large study area, seven short list of alternative sites for a new Bolton PZ Booster Pumping Station (henceforth referred to as, "proposed short list of Alternative Sites 1 to 7" or "proposed short list of Alternative Sites") have been established. They are as follows:

- Alternative #1: to the rear of 13377 Coleraine Drive, in Lot 7, Concession 6, Geographic Township of Albion.
- Alternative #2: at 0 Emil Kolb Parkway, north of DeRose Avenue, east of Emil Kolb Parkway and Chickadee Lane, in Lot 10, Concession 5, Geographic Township of Albion.
- Alternative #3: at 13659 Emil Kolb Parkway, in Lot 9, Concession 6, Geographic Township of Albion.
- Alternative #4: at 0 King Street, between 8224 King Street and 8264 King Street, in Lot 11, Concession 5, Geographic Township of Albion.
- Alternative #5: at 0 Duffy's Lane, north of King Street, west of Emil Kolb Parkway and east of Duffy's Lane, in Lot 10, Concession 5, Geographic Township of Albion.
- Alternative #6: immediately north of 14068 Duffy's Lane, between Lots 10 and 11, Concession 5, Geographic Township of Albion.
- Alternative #7: at 505 Glasgow Road, in Lot 10, Concession 6, Geographic Township of Albion.

Cemeteries

There are ten historic cemeteries located within the study area (***see Appendix A – Map 1***). We are writing to the *Ministry of Citizenship and Multiculturalism (MCM)* to seek technical advice regarding these cemeteries to ensure our recommendations are in line with current standards.

The following cemeteries are located within the limits of the study area:

1. *Albion Presbyterian Cemetery* (also known as Caven; Collins; Caldwells; Old Presbyterian): 12992 Coleraine Drive, within part of Lot 5, Concession 5, in the Geographic Township of Albion.

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2. *Bolton Anglican & Methodist Cemeteries* (also known as Old Christ Church Cemetery; Old Anglican Abandoned Cemetery; Abandoned Cemetery (Bolton); Old Methodist Cemetery (Bolton)): 166 Centennial Drive, within part of Lot 9, Concession 6, in the Geographic Township of Albion.
3. *Bolton Congregational Cemetery* (also known as Albion Congregational Church Cemetery): 107 Queen Street North, within part of Lot 9, Concession 7, in the Geographic Township of Albion.
4. *Columbia Primitive Methodist Cemetery* (also known as Coventry Primitive Methodist Cemetery; Coventry Old Methodist Cemetery; Old Methodist Cemetery: 9950 Columbia Way, within part of Lot 11, Concession 8, in the Geographic Township of Albion.
5. *Castlederg Wesleyan Methodist Cemetery* (also known as Castlederg Cemetery; Castlederg United Church Cemetery; Castledurg Wesleyan Methodist Cemetery; Brigg's Cemetery): south of 9485 Castlederg Sideroad on Mount Hope Road, within part of Lot 15, Concession 7, in the Geographic Township of Albion.
6. *Godbolt Primitive Methodist Cemetery* (also known as Godbolt Cemetery): 14686 Caledon/King Town Line South, within part of Lot 14, Concession 9, in the Geographic Township of Albion.
7. *Laurel Hill Cemetery*: 399 Centennial Drive, within part of Lot 9 and 10, Concession 6, in the Geographic Township of Albion.
8. *Plummer Family Cemetery* (also known as Plummer Family Farm Cemetery; Whakely Family Farm Cemetery): 2 Plummer Road, within part of Lot 8, Concession 6, in the Geographic Township of Albion.
9. *Shiloh Cemetery* (also known as Shiloh Methodist/United Church Cemetery): southwest corner of 11970 Highway 50, within part of Lot 17, Concession 12 Northern Division, in the Geographic Township of Toronto Gore.
10. *St. Patrick's Roman Catholic Cemetery* (also known as Wildfield Cemetery; Grantville; Gribben): 11873 The Gore Road, within part of Lot 17, Concession 10 Northern Division, in the Geographic Township of Toronto Gore.

Recommendations

Although the ten cemeteries are located within the study area, they are located between 500 metres and one kilometre from any of the seven proposed short list of Alternative Sites (***see Map 2***). Therefore, no cemetery investigation will be required for these cemeteries within the scope of this project.

As such, the following recommendations are presented:

1. As per the *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 no intrusive activity may occur within the Albion Presbyterian Cemetery, Bolton Anglican & Methodist Cemeteries, Bolton Congregational Cemetery, Columbia Primitive Methodist Cemetery, Castlederg Wesleyan Methodist Cemetery, Godbolt Primitive Methodist Cemetery, Laurel Hill Cemetery, Plummer Family Cemetery, Shiloh Cemetery and St. Patrick's Roman Catholic Cemetery without consent from the cemetery operator and the *BAO*.
    a. Should the area within the current municipally recognized cemetery limits be impacted, additional archaeological investigation (e.g., Stage 1 background research and an optional property inspection; Stage 2/3/4 investigations; construction monitoring) is required. A Cemetery Investigation Authorization (CIA) issued by the *Bereavement Authority of Ontario* is also required and needs to be obtained prior to conducting any soil-intrusive work (e.g., Stage 2/3/4 investigations; construction monitoring).

2. Should proposed construction impacts extend beyond the established limits of the proposed short list of Alternative Sites 1 to 7 documented in this report and occur within the swaths of land adjacent (i.e., within ten metres) of the Albion Presbyterian Cemetery, Bolton Anglican & Methodist Cemeteries, Bolton Congregational Cemetery, Columbia Primitive Methodist Cemetery, Castlederg Wesleyan Methodist Cemetery, Godbolt Primitive Methodist Cemetery, Laurel Hill Cemetery, Plummer Family Cemetery, Shiloh Cemetery and St. Patrick's Roman Catholic Cemetery, further archaeological assessment to confirm the presence or absence of burials (e.g., Stage 1 background research and an optional property inspection;

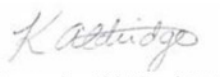
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Stage 2/3/4 investigations; construction monitoring) is required within the ten-metre-wide swath of land surrounding the municipally-recognized boundaries of the cemetery.

Conclusions

We are requesting feedback and assistance from the *Ministry of Citizenship and Multiculturalism* regarding the most up-to-date advice for the cemetery investigations of the Albion Presbyterian Cemetery, Bolton Anglican & Methodist Cemeteries, Bolton Congregational Cemetery, Columbia Primitive Methodist Cemetery, Castlederg Wesleyan Methodist Cemetery, Godbolt Primitive Methodist Cemetery, Laurel Hill Cemetery, Plummer Family Cemetery, Shiloh Cemetery and St. Patrick's Roman Catholic Cemetery to ensure our client is aware of additional requirements and possible options, to ensure our recommendations are in line with current standards, and to ensure ministry compliance. We look forward to working through this process to achieve a successful conclusion. Please do not hesitate to call or email the undersigned with any questions, comments or concerns.

Sincerely,



Kassandra Aldridge (P439), MSc., HBSc.
E: kaldridge@archeoworks.com

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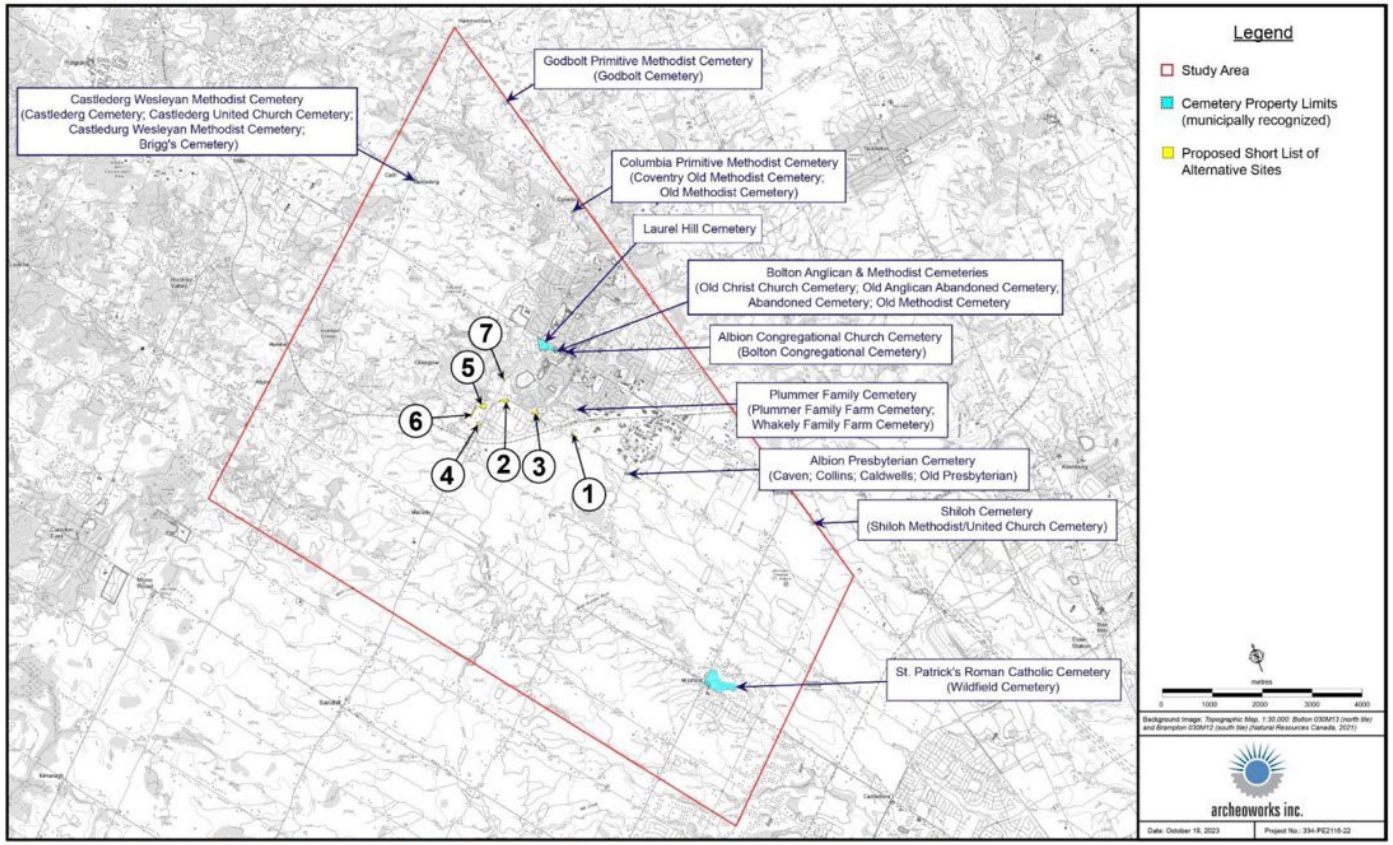
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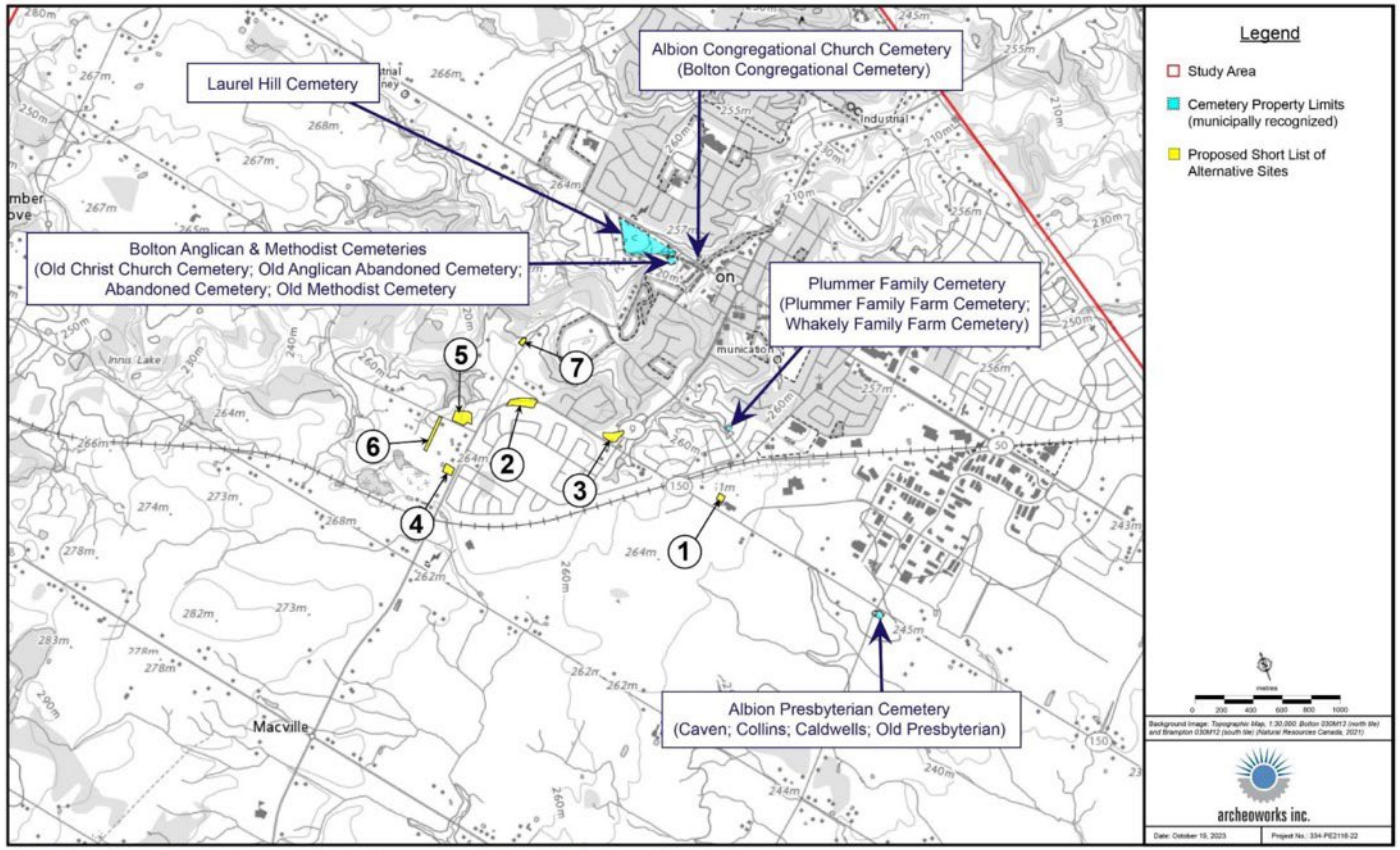
APPENDIX A: MAPS



Map 1: Location of all cemeteries in relation to the study area and proposed short list of alternative site locations.

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Map 2: Location of nearest cemeteries to the proposed short list of alternative site locations.

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From: Shari.Prowse@ontario.ca
Sent: December 1, 2023 12:56 PM
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Cc: 'Archaeology (MHSTCI)' <archaeology@ontario.ca>; kslocki@archeoworks.com, Kaldridge@archeoworks.com, 'Jay Villapando' <jay@archeoworks.com>, Wallace, Melissa (MCM)" <Melissa.Wallace@ontario.ca>
Subject: RE: Request for Technical Advice: P439-0171-2023

Hi Lee,

Thank you for your patience.

We recommend that you revise recommendation 2 to indicate that the Stage 1 assessment and the property inspection will be required if development is proposed "within 20 metres from the assumed boundaries the cemetery".

This is because you have not done the background research to know where the 10m buffer would be drawn from. You also don't know if a 10m buffer is sufficient. As such, we recommend that the Stage 1 assessment be carried out within 20 meters of the assumed boundaries of the cemetery which should give sufficient distance to account for those rare instances where the cemetery extends a great distance beyond the assumed boundaries.

Happy to discuss further,

Shari Prowse, MA
Senior Policy Advisor
Cemeteries and Burial Sites Lead
Archaeology Program Unit
Tel/Mobile: (519) 671-7742

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Stage 2 Archaeological Assessment for the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment Within Lots 10-13, Concession 5; Lots 11-13, Concession 6; Lots 11-13, Concession 7; Lots 12-13, Concession 8; and Road Allowances in Between in the Geographic Township of Albion Historic County of Peel Now in the Town of Caledon Peel Region Ontario

Project #: 334-PE2116-22
Licensee (#): Ian Boyce (P1059)
PIF #: P1059-0178-2024

Original Report

October 31, 2025

Presented to:
GEI Consultants Canada Ltd.
Royal Centre, 3300 Highway No. 7, Suite 402
Vaughan, Ontario
L4K 4M3
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Prepared by:
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EXECUTIVE SUMMARY

The *Peel Region* has initiated the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment (Class EA) to evaluate potential alternatives in developing optimal water and wastewater servicing solutions to meet existing needs and growth in the community of Bolton.

In support of this Class EA, *Archeoworks Inc*. was retained to conduct a Stage 2 Archaeological Assessment (AA) of all lands tied to Preferred Servicing Strategy Focus Area (Archeoworks Inc., 2024a [draft] - P029-1153-2024) except for lands under Toronto and Region Conservation Authority (TRCA) ownership which will undergo Stage 2 AA testing by TRCA staff. The Preferred Servicing Strategy Focus Area, henceforth referred to as the "study area" (alternatively named the 'Stage 2 AA Study Area' or 'Stage 2 AA Focus Area'), involves the construction of a new sanitary pumping station, forcemains, gravity sanitary sewers, access and valve shafts, and watermains roughly following Emil Kolb Parkway, Highway 50, Columbia Way, Mount Hope Road and a new infrastructure corridor running from Highway 50 easterly to Mount Hope Road.

While undertaking the Stage 2 AA, the **H1 Site** (**AlGw-229**), a domestic pioneer site representing a collection of 253 Euro-Canadian artifacts and encountered in the new infrastructure corridor, was discovered. Artifact analysis suggests a habitation beginning in the late 1840s and continuing into the late 19th century, with a mid-19th century peak habitation, which coincides with the occupation of the property by Henry Bolton (ca.1847 to 1875). Owing to its timeframe, the H1 site has further cultural heritage value and interest (CHVI). Additionally, the presumed extension of the **Harper (AlGw-172)** site (i.e., along the south side of RR 150/west side of Highway 50) lies beyond the right-of-way and immediately adjacent to the study area; this site also containing CHVI.

To facilitate appropriate recommendations for the **Harper Site (AlGw-172)**, a review of engineering designs depicting the location of proposed construction impacts (open cut areas, shaft locations, microtunnelling and tunnelling areas, temporary easements or access routes) was undertaken. This review has revealed there currently are no concerns for negative impacts directly to the Harper Site (AlGw-172). However, owing to impacts occurring immediately adjacent to this archaeological resource, avoidance and protection measures must be implemented. Furthermore, should future construction activities (i.e., including but not limited to: construction laydown areas, temporary access routes or easements, and/or amending of proposed construction impacts, etc.) extend into the unexcavated portions of the Harper Site (AlGw-172) site area, further archaeological assessment in accordance with the *2011 S&G*, will be required.

To accommodate the need for construction to proceed while outstanding archaeological concerns for the H1 Site (AlGw-229) are addressed, partial clearance for the study area is being recommended, as per *Section 7.8.5* of the *2011 S&G*. A 20-metre protective buffer as well as a 50-metre monitoring zone, have been instituted around the H1 Site (AlGw-229) requiring Stage

3 AA. Beyond the established protective buffer/monitoring zones around this site, there are no further archaeological concerns for the remaining balance of the study area. No further archaeological assessment is required for these areas.

In summary, based on the results of the Stage 2 AA, the following recommendations can be made:

1. Lands which have already been subjected to a previous archaeological assessment and deemed free of further archaeological concern are recommended to be exempt from further assessment.
2. Avoidance and Protection measures are required immediately adjacent to the Harper Site (AlGw-172), located along the south side of RR 150/west side of Highway 50, where construction activities are proposed.
3. Stage 3AA is required for the H1 (AlGw-229) site if to be impacted by construction activities. To allow for development to proceed, partial clearance recommendations, including the 20m protective buffer and 50m monitoring buffer, are to be implemented around the H1 (AlGw-229) site area.
4. Stage 2 AA of lands under the ownership of TRCA is required.
5. Marine AA is required along the Humber River should the project involve in-water construction impacts.
6. Outside of the above, the remainder of the assessed portions of the study area are considered clear of further archaeological concern.

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Lee Templeton

Report Review ..... Kim Slocki – MCM licence P029

1.0 PROJECT CONTEXT

1.1 Objectives

The objectives of a Stage 2 Archaeological Assessment (AA), as outlined by the 2011 *Standards and Guidelines for Consultant Archaeologists* (*'2011 S&G'*) published by the *Ministry of Citizenship and Multiculturalism* (*MCM*) (2011), are as follows:

- To document all archaeological resources on the property;
- To determine whether the property contains archaeological resources requiring further assessment; and,
- To recommend appropriate Stage 3 assessment strategies for archaeological sites identified.

1.2 Development Context

Peel Region has initiated the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment (Class EA) to evaluate potential alternatives in developing optimal water and wastewater servicing solutions to meet existing needs and growth in the community of Bolton.

To facilitate this study, *Archeoworks Inc*. was retained by GEI Consultants Canada Ltd. (formerly GM BluePlan Engineering Limited) to conduct a Stage 1 AA of an general study area roughly bounded by Castlederg Side Road in the northwest (in this report, to be simplified to "north"), Caledon-King Townline/Albion-Vaughan Road/Highway 50 to the northeast ("east"), Countryside Drive to the southeast ("south") and McVean Drive/Centreville Creek Road to the southwest ("west"), in the Town of Caledon and City of Brampton, Regional Municipality of Peel (***see Appendix A – Maps 1-2***). The Stage 1 AA general study area encompasses Lots 15 to 17 of Concessions 8 to 12 (Northern Division) of the Geographic Township of Toronto Gore; Lots 1 to 17 of Concessions 2 to 7, Lots 6 to 17 of Concession 8, Lots 11 to 16 of Concession 9, and Lot 16 of Concession 10 in the Geographic Township of Albion, historic County of Peel.

A smaller "Focus Area" was also reviewed during the Stage 1 AA (***see Map 2***), this area roughly following Emil Kolb Parkway, Highway 50, Columbia Way, Mount Hope Road and a proposed future infrastructure corridor running from Highway 50 easterly to Mount Hope Road. Within this smaller Focus Area (referred to as the "Stage 1 AA Focus Area"), and following the completion of a property inspection, several portions were identified as both previously unassessed and undisturbed; those undisturbed sections still retaining archaeological potential and, thus, recommended for Stage 2 AA (Archeoworks Inc., 2024a [draft] – P029-1153-2024).

Archeoworks Inc. was further retained to undertake a Stage 2 AA (***see Maps 2-20; Supplementary Document***) on a refined portion of the Stage 1 AA Focus Area, henceforth referred to as the

"study area" (alternatively named the 'Stage 2 AA Study Area' or 'Stage 2 AA Focus Area') except for lands under Toronto and Region Conservation Authority (TRCA) ownership.[1] These lands include the following:

- Small section of land along the south/east side of Emil Kolb Parkway, north/east of the Humber River crossing corresponding to proposed sanitary pumping station and access road.
- TRCA land at the immediate southwest corner of Emil Kolb Parkway and Duffy's Lane.

This study was triggered by the Ontario *Environmental Assessment Act* and was conducted under the project direction of Mr. Ian Boyce, under archaeological consultant licence number P1059, in accordance with the *Ontario Heritage Act* (1990; amended 2021) and *2011 S&G*. Permission to commence with the Stage 2 AA was granted by the proponent on September 11th, 2024 and permission to enter lands outside of Peel Region ownership was given by the various landowners prior to undertaking the field assessment.

1.3 Historical Context

To establish the historical context and archaeological potential of the study area, *Archeoworks Inc.* previously conducted a review of Indigenous and Euro-Canadian settlement history, and a review of historical mapping and aerial imagery (Archeoworks Inc., 2024a [draft] - P029-1153-2024). The results of this background research, with updated information relevant to the current study area, are presented below.

1.3.1 Pre-Contact Period

The pre-contact period of Southern Ontario includes numerous Indigenous groups that continually progressed and developed within the environment they inhabited (Ferris, 2013, p.13). **Table 1** includes a brief overview and summary of the pre-contact Indigenous history of Southern Ontario. **Appendix B** includes the oral traditional histories of those Indigenous groups closely related to the study area.

Table 1: Pre-Contact Period

Periods	Date Range	Overview and Attributes
PALEO (Early)		
Early	ca. 11000 to 8500 BC	Small groups of nomadic hunter-gatherers who utilized seasonal and naturally available resources; sites are rare; hunted in small family groups who periodically gathered into larger groups/bands during favourable periods in the hunting cycle; campsites used during travel episodes and found in well-drained soils in elevated

[1] TRCA advised the Region of Peel they will complete a Stage 2 AA on lands under their authority.

Periods	Date Range	Overview and Attributes
Late	ca. 8500 to 7500 BC	situations; sites also found along glacial features (e.g., glacial lake shorelines/strandlines) due to current understanding of regional geological history; artifacts include fluted and lanceolate stone points, scrapers and dart heads. - Gainey, Barnes, Crowfield Fluted Points (Early Paleo). - Holcombe, Hi-Lo, Lanceolates (Late Paleo). (Ellis and Deller, 1990, pp.37-64; Ellis, 2013, p.37; Wright, 1994, p.25).
ARCHAIC (Middle)		
Early	ca. 7800 to 6000 BC	Descendants of Paleo ancestors; lithic scatters are the most encountered site type; trade networks appear; artifacts include reformed fluted and lanceolate stone points with notched bases to attach to wooden shaft; ground-stone tools shaped by grinding and polishing; stone axes, adzes and bow and arrow; Shield Archaic in Northern Ontario introduced copper tools. - Side-notched, corner-notched, bifurcate projectile points (Early Archaic). - Stemmed, Otter Creek/Other Side-notched, Brewerton side and corner-notched projectile points (Middle Archaic). - Narrow Point, Broad Point, Small Point projectile points (Late Archaic). (Dawson, 1983, pp.8-14; Ellis et al., 1990, pp.65-124; Ellis, 2013, pp.41-46; Wright, 1994, pp.26-28).
Middle	ca. 6000 to 2000 BC	
Late	ca. 2500 to 500 BC	
WOODLAND (Late)		
Early	ca. 800 to AD 1	Evolved out of the Late Archaic Period; introduction of pottery (ceramic) where the earliest were coil-formed, under fired and likely utility usage; two primary cultural complexes: Meadowood (broad extent of occupation in Southern Ontario) and Middlesex (restricted to Eastern Ontario); poorly understood settlement-subsistence patterns; artifacts include cache blades, and side-notched points that were often recycled into other tool forms; primarily Onondaga chert; intensive exploitation of quarries in southeastern Ontario; commonly associated with Saugeen and Point Peninsula complexes. - Meadowood side-notched projectile points. (Dawson, 1983, pp.15-19; Ferris and Spence, 1995, pp.89-97; Gagné, 2015; Spence et al., 1990, pp.125-142; Williamson, 2013, pp.48-61; Wright, 1994, pp.29-30).
Middle	ca. 200 BC to AD 700	Three primary cultural complexes in Southern Ontario: Point Peninsula (generally located throughout south-central and eastern Southern Ontario), Saugeen (generally located southwestern Southern Ontario), and Couture (generally located in southwestern-most part of Ontario); “given the dynamics of hunter-gatherer societies, with high levels of interaction and intermarriage among neighbouring groups, one would not expect the existence of discrete cultures” and the “homogeneity of these complexes have been challenged” (Ferris and Spence, 1995, p.98); introduction of large “house” structures and substantial middens; settlements have dense debris cover indicating increased degree of sedentism; incipient horticulture; burial mounds present; shared preference for stamped, scallop-edged or tooth-like decoration, but each cultural complex had distinct pottery forms; Laurel Culture (ca. 500 BC to AD 1000) established in boreal forests of Northern Ontario. - Saugeen Point projectile points (Saugeen). - Vanport Point projectile points (Couture). - Snyder Point projectile points. - Laurel stemmed and corner-notched projectile points. (Dawson, 1983, pp.15-19; Ferris and Spence, 1995, pp.97-102; Gagné, 2015; Hessel, 1993, pp.8-9; Spence et al., 1990, pp.142-170; Williamson, 2013, pp.48-61; Wright, 1994, pp.28-33; Wright, 1999, pp.629-649).

Periods	Date Range	Overview and Attributes
Late Woodland		
Late (Transitional)	ca. AD 600 to 1000	Earliest Iroquoian development in Southern Ontario is Princess Point which exhibits few continuities from earlier developments with no apparent predecessors; hypothesized to have migrated into Ontario, but more recent research of ceramic data from the Rice Lake-Trent River region determined early Iroquoian development to be an in situ cultural development (Curtis, 2014, p.190); the settlement data is limited, but oval houses are present; introduction of maize/corn horticulture; artifacts include 'Princess Point Ware' vessels that are cord roughened, with horizontal lines and exterior punctation; smoking pipes and ground stone tools are rare; continuity of Princess Point and Late Woodland Iroquoian groups. - Triangular projectile points. (Ferris and Spence, 1995, pp.102-106; Fox, 1990, pp.171-188).
Early	ca. AD 900 to 1300	Two Iroquoian cultures in Southern Ontario: Glen Meyer (located primarily in southwestern Ontario from Long Point on Lake Erie to southwestern shore of Lake Huron) and Pickering (encompassed north of Lake Ontario to Georgian Bay and Lake Nipissing); the abandonment of these two phases "were expressed early on, with the recognition that local site sequences were more or less continuous through what has been classified as distinct phases" (Birch, 2015, p.271); early houses were small and elliptical; developed into multi-family longhouses and some small, semi-permanent palisade villages; adoption of greater variety of harvest goods; increase in corn-yielding sites; well-made and thin-walled clay vessels with stamping, incising and punctation; crudely made smoking pipes, and worked bone/antler present; evolution of ossuary burials; grave goods are rare and not usually associated with a specific individual. - Triangular-shaped, basally concave projectile points with downward projecting corners or spurs. (Ferris and Spence, 1995, pp.106-109; Williamson, 1990, pp.291-320).
Middle	ca. AD 1300 to 1400	Two Iroquoian cultures in Southern Ontario: Uren and Middleport; increase in village sizes (0.5 to 1.7 hectares) and campsites (0.1 to 0.6 hectares) appear; some with palisades; classic longhouse takes form; increasing reliance on maize and other cultigens such as beans and squash; intensive exploitation of locally available land and water resources; decorated clay vessels decrease; well-developed clay pipe complex that includes effigy pipes; from Middleport emerged the Huron-Wendat, Petun, Neutral Natives and the Erie. - Triangular and (side of corner or corner removed) notched projectile points. - Middleport Triangular and Middleport Notched projectile points. (Dodd et al., 1990, pp.321-360; Ferris and Spence, 1995, pp.109-115).

Periods	Date Range	Overview and Attributes
Late	ca. AD 1400 to 1600	Two major Iroquoian groups: the Neutral Natives to the west of the Niagara Escarpment and the Huron-Wendat to the east; traditionally, the Huron-Wendat "concentrations of sites occur in the areas of the Humber River valley, the Rouge and Duffin Creek valleys, the lower Trent valley, Lake Scugog, the upper Trent River and Simcoe County" (Ramsden, 1990, p.363); longhouses; villages enlarged to 100 longhouses clustered together as horticulture (maize, squash and beans) gained importance in subsistence patterns; villages chosen for proximity to water, arable soils, available fire wood and defendable position; diet supplemented with fish; ossuaries; tribe/band formation; gradual relocation to north of Lake Simcoe. Neutral (called *Attiewandaron* by the Huron-Wendat) Natives distributed west of the Niagara Escarpment, around the western end of Lake Ontario and eastward across the Niagara Peninsula to Lake Erie; sites also found in the Grand River area and as far as Milton in the east; varying settlements include villages up to five acres in size to isolated fishing cabins; villages tend to be located along smaller creeks, headwaters and marshlands; diet dependent on hunting, gathering, fishing and farming; longhouses present; ossuaries; tribe/band formation; theorized that Credit River may have functioned as a boundary marker between the ancestral Neutral Natives and Huron-Wendat peoples. The Petun (*Tionnontaté* or *Khionontateronon*) were located along the Blue Mountains to the north and have been theorized to have arrived ca. 1580 from Neutral territory; the Grand River headwaters are located in the northwest corner of Dufferin County and the Petun are believed to have utilized Dufferin County (northwest of the study area) as hunting territory. - many trails used throughout the area including the Toronto Carrying Place Trail which travelled along the Humber River and the Rouge River connecting Lake Ontario to Lake Simcoe (Ferris and Spence, 1995, pp.115-122; Garrad, 2014, pp.1, 147-148; Heidenreich, 1978, pp.368-388; Lennox and Fitzgerald, 1990, pp.405-456; Ramsden, 1990, pp.361-384; Sawden, 1952, p.7; TRCA, 2007, p.9; Warrick, 2000, p.446; Warrick, 2008, p.15).

1.3.2 Contact Period

The contact period of Southern Ontario is defined by European arrival, interaction and influence with the established Indigenous communities of Southern Ontario. **Table 2** includes an overview of some of the main developments that occurred during the contact period of Southern Ontario.

Table 2: Contact Period

Periods	Date Range	Overview and Attributes
European Contact	ca. AD 1600s	The Anishinaabeg (i.e., Algonquin, Chippewa, Mississauga, Odawa, Ojibway, and others) continued to inhabit Ontario, alongside Iroquoian-speaking groups such as the Huron-Wendat north of Lake Simcoe and the Neutral Natives (*Attiewandaron*) in the Niagara Peninsula; inter-marriage between Algonquian- and Iroquoian-speaking groups; French arrival into Ontario; numerous Huron-Wendat villages north of Lake Simcoe in and around the City of Barrie ("Huronia"); extensive trade relationship with Huron-Wendat and French established; Neutral Natives clustered in the Niagara Peninsula; Neutral Natives referred to as *la Nation neutre* by Samuel de Champlain but limited European contact with Neutral Natives; the *Tionnontaté* or

Periods	Date Range	Overview and Attributes
		Khionontateronon were called 'Petun' a term meaning tobacco; little references to the Petun were made by fur traders leading to the belief that fur traders assumed they were similar to the Huron-Wendat; trade goods begin to replace traditional tools/items; Jesuit and Récollets missionaries; epidemics (Fox and Garrad, 2004, p.124; Garrad, 2014, pp.148, 167-168, 490; Garrad and Heidenreich, 1978, pp.395-396; Gitiga Migizi and Kapyrka, 2015, pp.1-3; Heidenreich, 1978, pp.368-388; Jury, 1974, pp.3-4; Lennox and Fitzgerald, 1990, pp.405-456; Trigger, 1994, pp.47-55; Warrick, 2008, pp.12, 245; White, 1978, pp.407-411).
Five Nations of Iroquois (Haudenosaunee)	ca. AD 1650s	The Five (later Six) Nations (Cayuga, Mohawk, Oneida, Onondaga and Seneca; later included the Tuscarora) of Iroquois (or Haudenosaunee), originally located south of the Great Lakes, engaged in warfare with Huron-Wendat neighbours as their territory no longer yielded enough furs; the Five Nations, armed with Dutch firearms, attacked and destroyed numerous Huron-Wendat villages in 1649-50; the Huron-Wendat groups that remained became widely dispersed throughout the Great Lakes region but remained an independent Nation; the Huron-Wendat ultimately resettled near Quebec City (forming the oldest First Nations community in Canada), in southwestern Ontario and in America; the Five Nations attacked Neutral Natives ca. 1650s and caused their dispersal; the Five Nations established settlements along the northern shoreline of Lake Ontario at strategic locations along canoe-and-portage routes and used territory for extensive fur trade; European fur trade and exploration continued (Abler and Tooker, 1978, p.506; Gitiga Migizi and Kapyrka, 2015, p.2; Robinson, 1965, pp.15-16; Schmalz, 1991, pp.12-34; Trigger, 1994, pp.53-59; Warrick, 2008, p.208; Williamson, 2013, p.60).
Anishinaabeg Return (and Arrival)	ca. AD 1650s to 1700s	Some narratives tell of Anishinaabeg groups either returning (Gitiga Migizi and Kapyrka, 2015, p.2) or moving by military conquest (MCFN, 2017) to Southern Ontario in the 1690s; battles fought throughout, ultimately resulting in most of the Five Nations being driven out of Southern Ontario and returning to their lands south of the Great Lakes (and some remained in parts of Southern Ontario); the English referred to those Algonquian-speaking groups that settled in the area bounded by Lakes Ontario, Erie, and Huron as Chippewas or Ojibwas (Smith, 2002, p.107); '*Mississauga*' term applied to Anishinaabeg bands living on the north shore of Lake Ontario; they were focused on hunting/fishing/gathering with little emphasis on agriculture; temporary and moveable houses (wigwam) left little archaeological material behind; multiple settlements throughout Southern Ontario; the study area is within the traditional territory of the Mississaugas of the Credit First Nation who state they, "were the original owners of the territory embraced in the following description, namely commencing at Long Point on Lake Erie thence eastward along the shore of the Lake to the Niagara River. Then down the River to Lake Ontario, then northward along the shore of the Lake to the River Rouge east of Toronto then up that river to the dividing ridge to the head waters of the River Thames then southward to Long Point the place of the beginning" (MCFN, 2017) (Gibson, 2006, pp.35-41; Hathaway, 1930, p.433; Johnston, 2004, pp.9-10; McMillan and Yellowhorn, 2004, pp.110-111; Smith, 2013, pp.16-20; Trigger, 1994, pp.57-59; Williamson, 2013, p.60).
Trade, Peace and Conflict	ca. AD 1700 to 1770s	Great Peace negotiations of 1701 in Montreal established peace around the Great Lakes; collectively referred to the Anishinaabeg and Five Nations of Iroquois as the First Nations; European commerce and exploration resumed;

Periods	Date Range	Overview and Attributes
		the Anishinaabeg continued to trade with both the English and the French; beginnings of the Métis and their communities; skirmishes between France and Britain as well as their respective First Nations allies erupt in 1754 ("French and Indian Wars") and forms part of the larger Seven Years' War; French defeat transferred the territory of New France to British control; Treaty of Paris (1763); Royal Proclamation of 1763 "states explicitly that Indigenous people reserved all land not ceded by or purchased from them" (Hall, 2019); the Proclamation established framework for how treaties were negotiated (by only the King or an assigned representative of the King, and only at a public meeting called for this specific purpose) and established the "constitutional basis for the future negotiations of Indigenous treaties in British North America" (Hall, 2019); the Proclamation established the British administration of North American territories ceded by France to Britain; uprising by several First Nations groups against British ("Pontiac's War"); fur trade continued until Euro-Canadian settlement (Abler and Tooker, 1978, pp.505-517; Hall, 2019; Jaenen, 2023a; Johnston, 2004, pp.13-14; Schmalz, 1991, pp.35-62, 81; Surtees, 1994, pp.92-97; Tooker, 1978, pp.418-441).
Early British Administration and Euro-Canadian Settlement	ca. AD 1770s to 1790s	American Revolutionary War (1775-1783) drove large numbers of United Empire Loyalists (American settlers who were loyal to the British Crown), military petitioners, and groups who faced persecution in the United States to re-settle in Upper Canada; Treaty of Paris (1783) formally recognized the independence of the United States; Province of Quebec divided in 1791 into sparsely populated Upper Canada (now southern Ontario) and culturally French Lower Canada (now southern Quebec); Jay's Treaty of 1795 establishes American/Canadian border along the Great Lakes; large parts of Upper Canada opened to settlement from the British Isles and continental Europe after land cession treaties were negotiated by the British Crown with various First Nations groups (Government of Ontario, 2024; Hall, 2022; Jaenen, 2023b; Surtees, 1994, p.110; Sutherland, 2020).

1.3.3 Euro-Canadian Settlement Period (AD 1800s to present)

1.3.3.1 Indigenous Land Treaties

In 1805, a tract of land was ceded from the Mississaugas that included lands "reaching from the Etobicoke Creek on the East for twenty-six miles westward to the outlet of Burlington Bay, these lands stretching back from the Lake shore line for from five to six miles to what we now know as the Second Concession North of Dundas (or Eglinton Avenue)" (Fix, 1967, p.13). One mile (or 1.6 kilometres) on either side of the Credit River and the 'flat lands' bordering the Etobicoke Creek were to remain property of the Mississaugas, and they were to obtain £1000 worth of goods and the right to retain their fishery sites at the mouths of the Credit River, Sixteen Mile Creek, and Twelve Mile Creek (Bronte Creek) as part of the treaty. This treaty, Treaty No.13a, included lands in the southern parts of the Township of Toronto in Peel County and the Townships of Trafalgar and Nelson in Halton County. In September 1806, representatives of the Crown and certain Mississaugas signed Treaty 14, or the 'Head of the Lake Purchase,' confirming the cession of lands along the north shore of Lake Ontario that had been agreed upon the previous year (Department

of Indian Affairs, 1891, pp.35-40; Government of Ontario, 2024; Loverseed, 1987, p.21; MCFN, 2020a; Surtees, 1994, p.110; Weaver, 1913, p.65).

After the War of 1812, there was mounting pressure for new land to accommodate the "increasing amount of new settlers from the British Isles, to meet the demands of the demobilized military personnel for their promised land grants, and to provide the necessary land for children of the United Empire Loyalists who had settled in eastern Ontario and on the Niagara Frontier a generation earlier" (McKinney, 1967, p.244). To accommodate this influx of settlers, the remainder of the Mississauga Tract, within what is now the Regional Municipality of Peel, was negotiated by William Claus in 1818. The area belonged to the Credit River Mississaugas who, despite efforts from the Indian Department officials to protect them, found themselves victim to encroachment on their lands and fisheries by Euro-Canadian settlers (Surtees, 1994, p.116). Under the leadership of Chief Ajetance, the Mississaugas settled for goods in the value of £522.10 annually per person in exchange for 648,000 acres of land, including some land along the Credit River. This second purchase, known as Treaty No.19 or the 'Ajetance Purchase,' surrendered those lands within what would encompass the Township of Albion where the study area lies (Department of Indian Affairs, 1891, p.iv, 47-48; Government of Ontario, 2024; MCFN, 2020b; Surtees, 1994, pp.116-117).

1.3.3.2 Township of Albion

From 1818 to 1819, the Township of Albion was surveyed by William Chewett (Scheinman, 2009a, p.9-2; Pope, 1877, p.89). Official settlement in the area began soon afterwards, and by 1820 all the lots on the first concession were settled as far as Lot 38 (Heyes, 1961, p.11). Settlers in the southern part of the township recognized the agricultural potential of the rich soils and flat terrain, and focused on agriculture (Scheinman, 2009b, p.10-1). Settlers in the northern part of the Township of Albion navigated the difficult terrain and settled in plateau areas and along river valleys while attempting to farm (Scheinman, 2009a, p.9-7). Strands of mixed hardwood covering the Township of Albion were cleared by settlers, and by 1830 Albion had numerous prosperous wheat farms (Heyes, 1961, p.111). By 1840, after several years of severe agricultural depression, the export of Canadian wheat increased when new British Corn laws gave preferential treatment to Canadian wheat, and after 1853 European crop failure sent the prices of Canadian grain skyrocketing (Heyes, 1961, p.111). The Crimean War prevented supplies of Russian wheat from entering the European markets and brought the wheat prices still higher; farms throughout the township experienced great financial surplus (Heyes, 1961, p.111). The agricultural prosperity was short lived, and livestock husbandry stimulated the economy with emphasis placed on breeding high quality beef and dairy cattle (Heyes, 1961, p.113).

1.3.3.3 Village of Bolton

Villages existed within the Township of Albion, such as Bolton, located around the intersection of County Road 50 and King Street and southeast of the study area. Initially named Bolton Mills, it was founded by James Bolton who came to Albion with his family in 1819 (Heyes, 1961, p.133). When George Bolton, James' nephew, arrived in 1824, they began construction of a small-framed grist mill on part of James' property where the Humber River flowed (Pope, 1877, p.89). The mill

became profitable as local farmers utilized the closer mill to process their wheat (Pope, 1877, p.89). Most early settlers to Bolton Mills were from England (Heyes, 1961, p.133).

By 1840, Bolton Mills boasted two stores, a distillery, post office, blacksmith shop, a shoemaker, a tailor, a tannery and a hotel (Scheinman, 2009c, p.11-2; Pope, 1877, p.89). In 1842, the first schoolhouse was opened and in the following year, a church structure was built of mud bricks by the Congregationalists and later, another by the Anglicans (Scheinman, 2009c, p.11-2).

By 1860, a soda-biscuit factory, steam bakery, a metal shop for tin and copper, a lawyer and doctor were available in Bolton Mills (Pope, 1877, p.89; Scheinman, 2009c, p.11-3). In 1872, the hamlet was incorporated, and it separated from the Township of Albion to become the Village of Bolton. Incorporation as a village accelerated the development of Bolton while the number of inhabitants and development in the township was declining (Heyes, 1961, p.135). The Toronto, Grey and Bruce Railway arrived in Bolton in 1873 and brought further prosperity to Bolton. By 1877, Bolton's inhabitants exceeded nine hundred individuals. However, by 1881 the population had dropped to 200-300 hundred individuals due to poor harvests forcing many young men into the cities (Heyes, 1961, p.136).

1.3.3.4 Community of Columbia/Coventry

Coventry was originally known as Columbia and is located northeast of the study area. The community formed after Thomas Swinarton constructed a saw and grist mill on the tributary of the Humber River. In 1858 a post office was established in the community and Thomas Swinarton was the first postmaster; it was closed in 1913. By the 1860s, 100 individuals resided in the village and there was a store, tannery, blacksmith, a school, a church with a graveyard and an inn. In 1873, it was described as, "a post village in Cardwell co., Ont., situated on a branch of the Humber, 3 miles from Bolton. Pop. 250" (Crossby, 1873, p.94). By the 19th century, the community was renamed Coventry and it remained a village in the Township of Albion prior to be incorporated in the Town of Caledon (LAC, 2023; Lovell, 1857-58, p.111; Thomas, 1967, p.229).

1.3.4 Land Use History

1.3.4.1 Pre-1900 Land Use – Historical Maps Review

Several documents were reviewed to gain an understanding of the land use history and of the study area's potential for the recovery of historic pre-1900 remains, namely the 1859 *Tremaine's Map of the County of Peel* and the 1877 *Illustrated Historical Atlas of the County of Peel* (***see Maps 3-4; Table 3***).

Table 3: Summary of Structures and Property Owners/Occupants documented in the 1859 *Tremaine's Map* and the 1877 *Illustrated Historical Atlas* in the Study Area

Con.	Lot	Part	Owner/Occupant		Structure(s) within 300 m of Study Area	
			1859	1877	1859	1877
TOWNSHIP OF ALBION						
	10	SW pt	Geo. Taylor	Thom. Nattrass	-	-
	10	SE pt	Geo. Taylor	(not listed)	-	-

Con.	Lot	Part	Owner/Occupant		Structure(s) within 300 m of Study Area	
			1859	1877	1859	1877
	10	NW pt	Geo. Taylor		-	1 homestead
	10	NE pt	George Taylor	Wm. Goodfellow	-	1 homestead
	11	NW pt	Walter Taylor	Mrs. Mary McDougall	-	-
	11	SW pt	Wm. Irwin		-	
	11	NE pt	Jas. Duffy	Jas. Duffy	-	1 homestead
	11	SE pt	Robt. Duffy		-	
	12	E half	Geo. Elliott	Geo. Elliott Sr.	-	2 homesteads
	13	E half	Late Wm. Gott	Geo. Elliott Sr.	-	1 homestead
6	11	W half	Robt. Whittiers	(not listed)	-	-
	11	SE pt	Sarah Johnston	James Taylor	-	1 homestead
	11	NE pt	Wm. Armstrong (deceased)	Saml. Johnson	-	2 homesteads
	12	SE pt			-	-
	12	NE pt	George Evans		-	1 homestead
	12	W half			-	-
	13	W half	Richd. Shore	Abram Taylor	-	1 homestead
	13	E half	Henry Harper		1 homestead	1 homestead
	14	E part	Hannah Ellis	Henry Harper	-	-
7	10	E half	Wm. Ewart	Wm. Morrison	-	1 homestead
	11	W half	James Taylor		-	1 homestead
	11	E half	Isaac Karr (or Carr)		-	1 homestead
	12	SW pt	Jas. Redpath	Jas. Gott	-	1 homestead
	12	NW pt	John Long	Jas. Rutherford	-	1 homestead
	12	SE pt	T.C. Starrett		-	1 homestead
	12	NE pt	Geo. Elliott		-	1 homestead
	13	W half	Henry Bolton	Henry Harper	-	1 homestead
	13	E half	John Fletcher	Jos. Scott	-	1 homestead
	14	W half	A. Bolton	Humphy O'Leary (non-resident)	1 homestead	1 homestead
	14	E half	Thos. Clark	Charles Clark	-	2 homesteads
8	11	W half	Thos. Swinerton	Robt. Dick (non-resident)	-	1 homestead
	12	W half	John Graham	J. Graham	-	1 homestead
	13	SW pt	Thos. Scott	J. Rutherford	-	1 homestead
	13	SW¼, 50 ac	Jos. Scott	H. Jamieson	-	1 homestead
	14	W half	Edwd. Duke	E. Duke	-	2 homesteads
TOTAL HISTORIC STRUCTURES:					***2***	***30***

A total of only two historic structures are depicted within 300 metres of the study area in the 1859 *Tremaine's Map*. The 1877 *Illustrated Historical Atlas* depicts a total of 30 homesteads within 300 metres of the study area, many of which are depicted with an orchard nearby.

In addition, the study area encompasses several historic transportation routes established in the 19th century, including present-day King Street, Duffy's Lane (including its old southerly extension toward King Street; now superseded by Emil Kolb Parkway/Regional Road 150), Highway 50, Columbia Way and Mount Hope Road.

1.3.4.2 Pre-1900 Land Use – Archival Data Review

In accordance with *Section 3.1, Standard 1* of the *2011 S&G,* a review of available archival data pertaining to the portion of the study area within which a Euro-Canadian site was encountered was conducted via various online sources (***see Appendix C – Tables C1-C2***). For ease of discussion pertaining to the archival data, the lot will be described as west half (fronting on Highway 50) and the east half (fronting on Mount Hope Road) despite its actual northeast-southwest orientation.

SUMMARY: West Half of Lot 13, Concession 7, Township of Albion

Lot 13, Concession 7 (L13C7) in the Township of Albion, in the County of Peel was divided into two parcels: the east half measuring 100 acres and the west half measuring 100 acres. The H1 site area lay in the (north) west half (W½) of L13C7.

The archival research indicates that Thomas Morrison had obtained the location ticket for the W½ of L13C7 in 1819. By 1843, he had passed away but had not obtained the crown patent for the W½ of L13C7 before his death. To obtain the crown patent, his son, William Morrison, appearing before the Second Heir and Devisee Commission to prove his father occupied the land. William Morrison was the eldest son and heir of his father, and had several individuals and the surveyor general confirming the settlement duties were completed on his father's land. By 1845 (and registered in 1847), William Morrison had obtained the crown patent for all 100 acres of the W½ of L13C7. According to the 1837 *County Directory,* William and Hugh Morrison were not listed in the Township of Albion despite noting they were residents Albion. One gentleman, H.H. Gowan, was listed in the 1837 *Directory* on L13C7, but it is not known where he resided in the lot.

In 1847, William Morrison (who was noted to be a resident of the Township of Albion) sold the W½ of L13C7 to Henry Bolton (who was a distiller from the Township of King) for £167.10. In 1846, Henry Bolton was listed on L13C7 in the *County Directory* but was not enumerated in the Township of Albion in the 1850/1 *Directory* and could not be found in the 1851 *Census Record.* It is plausible that John Hilliard was a brief tenant of Henry Bolton, but a description of him could not be found in the 1851 *Census Record*.

From ca. 1861 to 1875, Henry Bolton was consecutively listed on the W½ of L13C7 (no archival resources have survived that cover the years from 1852 to 1860). He was noted to be a 43-year-old farmer from England who lived with his wife Elizabeth (or Eliza) and their children in a one-storey log house in 1861. Only one dwelling house and three outbuildings (i.e., barns or stables) were noted to be owned by Henry Bolton in 1871. From the earliest available *Tax Assessment Roll* dating to 1866 to 1873, Henry Bolton was listed on all 100 acres of the W½ of L13C7 where the total value of real and personal property was listed at $2,200. In 1873, Henry and Eliza Bolton sold the W½ of L13C7 to Henry Harper (their neighbour across the street in Lot 13, Concession 6) for $7,600. For about two (or more) more years, Henry Bolton resided in the W½ of L13C7 but was only listed on two-acres of land likely encompassing his one-storey log house. The W½ of L13C7 was briefly divided into two 50-acre parcels: the southwest quarter and the northwest

quarter (NW¼). The two-acres occupied by Henry Bolton was in the NW¼ while the remaining 48-acres was farmed by James Linn, the brother-in-law of Henry Harper.

From 1879 to 1887, Henry Harper farmed the W½ of L13C7, but no tenants were listed suggesting the W½ was vacant and/or the former homestead of Henry Bolton was demolished around this time. It appears Henry Harper used the W½ of L13C7 as additional farmland while continuing to live in his farmstead on Lot 13, Concession 6. Henry Harper was listed on L13C7 in the 1886/7 *County Directory*; however, this may have been indicative of a building event in the southwest quarter of L13C7 that was sold to his son, Alfred Thomas Harper, in 1887. Henry Harper continued to use the NW¼ as additional farmland and it was noted to be vacant in the *Tax Assessment Rolls*.

In 1893, Henry Harper died and his wife, Jane (née Linn), was assigned to administer his will. By 1895, the entire W½ of L13C7 was obtained by Alfred Thomas Harper who continued to live in the southwest quarter (likely at present-day 14475 Highway 50) until his death in 1936. The NW¼ likely remained as farmland during Alfred Thomas Harper's ownership of the W½ of L13C7. After his death, his sons remained owners of the W½ of L13C7 until 1963.

The complete timeline of recorded occupation of the W½ of L13C7 associated with the site area to the year 1936 is presented in **Table 4** below.

Table 4: Historic Ownership of the West Half of Lot 13, Concession 7 up to 1950

Year	Name of Owner	Name of Tenant	Site Affiliation	Details
West Half (W½) of Lot 13, Concession 7 (L13C7), Township of Albion, County of Peel – 100 acres				
1843-1887	Thomas Morrison (1819 to 1845)		H1 site area: ~ *Vacant*	* According to the *Land Petitions of Upper Canada*, Thomas Morrison was from Ireland and had arrived in Upper Canada (specifically the Town of York) in by August 1819. He petitioned the government for land in the province and received 100 acres (in the Township of Albion) on the 8th of September 1819 (Land Petitions of Upper Canada, 1763-1865: Morrison, Thomas; Bundle M 12, Petition 281: microfilm c-2201). * Contained with the *Second Heir and Devisee Commission Case Files* was the location ticket issued to Thomas Morrison that noted he was native of Ireland, and by way of an Order in Council received the location ticket for all 100 acres of the W½ of L13C7 on 27th of October 1819. By 1845, William Morrison, as eldest son and heir of Thomas Morrison, claimed the W½ of L13C7 before the Second Heir and Devisee Commission. He was a resident of the Township of Albion and noted his father was the original nominee for the W½ of L13C7 that was not under patent as of July 1843. Several affidavits were signed, and it was certified by Thomas Parke, surveyor general, that settlement duties had been completed in the W½ of L13C7 (Second Heir and Devisee Commission Case Files: Morrison, William; Case File Number 40-2732: film 1314393). * According to the *Township Papers*, in January 1843, Thomas Parke, surveyor general, noted, "I shall also full and authentically obliged by year [sic] station[sic] the amount of fees due on the west half of Lot no 13.7 concession of Albion located by Thomas Morrison lately deceased, for which I hold the attested Location Ticket for the settlement duties being done thereon and which I will claim before the commencement [sic] under the Heir & D. act for his eldest son William Morrison" (Township Papers, ca.1783-1870's: Adjala, E half 51&22/1 to E half 17/6: film: 1319290 Items 133-1388). By March of 1843, Thomas Parke noted, "for Lot 13.7 Concession I have hold the location ticket for the performance of settlement duty attested and admitted by the other Surveyor General (Ridout) which I shall claim under the Heir & Devisee Act" (Township Papers, ca.1783-1870's: Adjala, E half 51&22/1 to E half 17/6: film: 1319290 Items 133-1388). * According to the *Land Patent Index,* the deed by way of a free grant through the Heir and Devisee Commissions was issued to William Morrison, who was a resident of the Township of Albion for all 100 acres of W½ of L13C7 in July 1845 (Index to Land Patents Arranged by Township 1793-1852, RG 53-55, Albion: microfiche 007). * One individual was listed on L13C7 in Walton's 1837 *The City of Toronto and the Home District Commercial Directory and Register*: H.H. Gowan (p.56). It is not clear which portion of L13C7 H.H. Gowan resided on. Neither Hugh or William Morrison are listed in the Township of Albion (p.57). * According to the *Abstract Land Indexes*, William Morrison had obtained the crown patent for all 100 acres of W½ of L13C7 on the 5th of January 1847. * In March 1847, William Morrison (who was of the Township of Albion) sold the W½ of L13C7 measuring 100 acres to Henry Bolton (who was a distiller from the Township of King) for £167.10 (Instrument and Deed, No.28890: film 179270).
	William Morrison (1845 to 1847)			
				* Two individuals are listed on L13C7 in Brown's 1846-7 *Toronto-City and Home District Directory*: Henry Bolton and John Sterne (pp.1,5). Henry Bolton was the owner of the W½, and it is likely that John Sterne was located in the east 100 acres. * Two individuals are listed on L13C7 in Rowsell's 1850-1 *City of Toronto and County of York Directory*: John Hilliard and John Sterne (pp.3,6). - Henry Bolton was not listed in the Township of Albion (p.1). John Hilliard may have been a tenant of Henry Bolton.

Year	Name of Owner	Name of Tenant	Site Affiliation	Details
	Henry Bolton (1847 to 1873)	Henry Bolton (1846) John Hilliard (ca. 1850 to unknown) Henry Bolton (ca.1861 to 1875)	<u>H1 site area:</u> *~ possibly constructed as early as 1846; however, it is not clear who was on the W½ between 1852 to ca.1860.* *~ identified as a one-storey log house in 1861.* *~ one dwelling house in 1871.*	* The agricultural portion of the 1851 *Census Record* for the Township of Albion did not survive and therefore, no direction correlations between owners and land owned can be made from this resource. Henry Bolton could not be located in the personal portion of the 1851 *Census Record.* A John Hilliard was listed in the *Census Record*, but he was a one-year-old child who lived with Isaac Kerr (1851 Census Record, Township of Albion, Personal Census, Enumeration District No.3, p.85, line 40: microfilm c-11746). * Review of the *Tremaine's* 1859 *Map of the County of Peel – Township of Albion* (***see Map 2***) depicts the site area within lands owned by Henry Bolton. No structures are depicted within the site area or within the W½ of the lot. One structure is depicted within 100 metres within the adjacent lot. * Two farms were listed on L13C7 in the 1861 *Census Record*: Henry Bolton was listed on 100 acres [the W½] and Margaret Garbet was listed on 100 acres [the E½] (1861 Census Record, Township of Albion, Agricultural Census, Enumeration District No.7, p.108, lines 4, 19: microfilm c-1062). - Henry Bolton was listed as a 43-year-old farmer from Ireland who lived with his 42-year-old wife, Elizabeth, and their four children (Mary, Henriette, Maria and John) in a one-storey log house (1861 Census Record, Township of Albion, Personal Census, Enumeration District No.7, p.27, lines 25-30: microfilm c-1062). Of the 100 acres held, 52 acres were under cultivation (32 acres were under crops and 20 acres were under pasture) and 48 acres were under wood or wild. The cash value of the farm was listed at $2,400. Henry Bolton farmed wheat, peas, oats, potatoes and hay (1861 Census Record, Township of Albion, Agricultural Census, Enumeration District No.7, p.108, line 4: microfilm c-1062). * The first available *Tax Assessment and Collector's Rolls* encompassing the site area is dated to 1866 and lists the W½ as owned (freeholder) by Henry Bolton. He was listed on 100 acres where the total value of real and personal property was noted to be $2,200. He continued to be listed on all 100 acres of the W½ of L13C7 until ca. 1874. - It should be noted that beginning in 1870, L13C7 was included in two enumeration wards in the *Tax Assessment Rolls:* Ward 3 encompassed the W½ and Ward 5 encompassed the east 100 acres. Ward 3 was not consistently available from 1870 to 1899. * Two individuals are listed on L13C7 in Mitchell & Co.'s 1866 *General Directory for the City of Toronto and Gazetteer of the Counties of York and Peel*: Henry Bolton (a freeholder) and John Beaty (a freeholder). * Only one farm was listed on L13C7 in the 1871 *Census Record*: Henry Bolton on W½ measuring 100 acres (1871 Census Record, Township of Albion, Schedule No. 4, Division No.4, p.8, line 5: microfilm c-9959). - Henry Bolton was listed as a 56-year-old farmer born in Ireland who lived with his 51-year-old wife, Eliza, and their two young children (Mary Jane and John) (1871 Census Record, Township of Albion, Schedule No. 1, Division No.4, p.43, lines 11-14: microfilm c-9959). - Of the 100 acres occupied, 70 acres were improved, 10 acres were in pasture, and half-an-acre was in gardens/orchards. He farmed wheat, barley, peas, potatoes and hay (1871 Census Record, Township of Albion, Schedule No. 4, Division No.4, p.8, line 5: microfilm c-9959). - Henry Bolton was listed as owning a grand total of 100 acres, one dwelling house, three barns/stables (1871 Census Record, Township of Albion, Schedule No. 3, Division No.4, p.8, line 12: microfilm c-9959). * Two individuals are listed on L13C7 in Lynch's 1873-4 *Directory of the County of Peel*: Matthew Beatty and Henry Bolton (p.51).

Year	Name of Owner	Name of Tenant	Site Affiliation	Details
				* In November 1873, Henry Bolton (who was of the Township of Albion) and his wife, Eliza, sold the W½ of L13C7 measuring 100 acres to Henry Harper (who was an esquire from the Township of Albion) for $7,600 (Instrument and Deed, No. 1127: film 179276). Henry Harper mortgaged $6,800 from Henry Bolton which was discharged after repayment was made (Instrument and Deed, No.1128: film 179276; No.3582: film 1703984).
	Henry Harper (1873 to 1887)	Henry Bolton (ca.1861 to 1875) *~ two-acres containing the one-storey log house in NW¼.*	<u>H1 site area:</u> *~ one-storey log house* *~ structure likely demolished ca.1887; NW¼ vacant*	* According to the 1875 *Tax Assessment Roll*, despite having sold the W½ to Henry Harper (who lived across the street in Lot 13, Concession 6), Henry Bolton continued to live on L13C7 on a two-acre parcel that likely only included his original one-storey log house valued at $100. The remaining 48 acres that specifically discusses the northwest quarter was owned by Henry Harper (who lived on Lot 13, Concession 6) and was valued at $850. - the entire 50 acres of the southwest quarter of L13C7 were farmed by James Linn. * Review of the 1877 *Illustrated Historical Atlas of the County of Peel – Township of Albion* depicts the site area in property owned by the Henry Harper (***see Map 3***). A historic homestead is depicted south of site area; this structure is likely incorrectly depicted and is likely the structure associated with the site area. Henry Harper's farmstead is depicted across the street in Lot 13, Concession 6 and within 300 metres of the site area. * From 1879 to 1887, Henry Harper owned the W½ of L13C7 and appears to have used it as farmland. No tenants are listed on the W½ of L13C7 owned by Henry Harper despite it being built on. * Henry Harper was listed in the 1881 Census Record as a 51-year-old farmer who was born in England, who lived with his 37-year-old wife Jane and their 12 children ranging in age from 11 months to 23-years (Alfred, Henry, Margaret, Frederick, William, Elizabeth, Morrow, John, Milton, Malina, Leonard and Maud). He was also listed with Samuel Elliott, a 22-year-old farmer labourer (1881 Census Record, Township of Albion, Division No.3, p.32, lines 7-21: microfilm c-13252). His first three children (Alfred, Henry and Margaret) are children from his first marriage to Mary Foster, while the remaining nine children are from his second marriage to Jane Lynn (ancestry.ca, 2024). * Three individuals are listed on L13C7 in Union Publishing Co.'s 1884-5 *Farmers' and Business Directory of the Counties of Ontario, Peel and York*: J. A. Scott (a tenant; post office: Mt. Wolfe), Joseph Scott Sr. (a freeholder; post office: Mt. Wolfe) and Samuel Scott (a tenant; post office: Mt. Wolfe) (p.256). - The Scott Family were located on the east 100 acres of L13C7. Henry Harper is located in Lot 13, Concession 6 (p.252). * Four individuals are listed on L13C7 in Union Publishing Co.'s 1886-7 *Farmers' and Business Directory of the Counties of Ontario, Peel and York*: Henry Harper (a freeholder; post office: Albion), Joseph Scott (a freeholder; post office: Castlederg), J. A. Scott (a tenant; post office: Castlederg) and Samuel Scott (a tenant; post office: Castlederg) (pp.155, 158-159). - The Scott Family were located on the east 100 acres of L13C7. - It's plausible that Henry Harper was noted on this lot as he may have been in the process of demolishing the former log house occupied by Henry Bolton and constructing a new structure in the southwest quarter. * Four individuals are listed on L13C7 in Union Publishing Co.'s 1888 *Farmers and Business Directory for the Counties of Dufferin, Peel and York*: J. A. Scott (a tenant; post office: Castlederg) and Samuel Scott (a tenant; post office: Castlederg) (p.166). - The Scott Family were located on the east 100 acres of L13C7. Henry Harper is located in Lot 13, Concession 6 (p.162). * In June 1887, Henry Harper and his wife, Jane (both of the Township of Albion), gave 50 acres of the south half of the west half (of the SW¼) of L13C7 to Alfred Thomas Harper (Instrument and Deed, No.3940: film 1704173). The only condition on this purchased was that Alfred Thomas Harper pay half the mortgage made to Andrew McCort valued at $2,000 (Instrument and Deed, No.3862: film 1704173).

Year	Name of Owner	Name of Tenant	Site Affiliation	Details
				* The northwest quarter (NW¼) of L13C7, where the site area is located, continued to be owned by Henry Harper.
Northwest Quarter (NW¼) of Lot 13, Concession 7 (L13C7), Township of Albion, County of Peel – 50 acres				
1887-1895	Henry Harper (1887 to 1895)		H1 site area: *~ NW¼ was vacant; structure likely demolished ca.1887.*	* According to the *Tax Assessment Rolls* from 1889 to 1893, Henry Harper continued to own the NW¼ of L13C7 while living in Lot 13, Concession 6. The NW¼ was noted to contain 50 acres, was vacant of structures and was valued at $1,150. - Alfred Thomas Harper resided in the southwest quarter, likely the structure at present-day 14475 Highway 50. * According to the 1891 *Census* Record, Henry Harper was listed as a 60-year-old farmer who was born in England and lived with his 48-year-old wife, Jane, and their 10 children ranging in age from eight to 22 (Frederick, William H., Tillie, James, John, Andrew, Maline, Eva Maud, Linard and Sarah M.) in a seven-room, two-storey wood house (1891 Census Record, Township of Albion, p.9, lines 24-25; p.10, lines 1-10: microfilm t-6329). This house was located in Lot 13, Concession 6. * One individual was listed on L13C7 in Union Publishing Co.'s 1893 *Farmers and Business Directory for the Counties of Ontario, Peel and York*: Joseph Scott Sr. (a freeholder; post office: Castlederg) (p.7). - The Scott Family were located on the east 100 acres of L13C7. Henry Harper is located in Lot 13, Concession 6 (p.3). * On the 16th of December 1893, Henry Harper died and was buried at Laurel Hill Cemetery in Bolton (findagrave.com, 2024). * At the time of his death, his wife, Jane, was appointed to administer his estate (Ontario. Surrogate Court (Peel County). Probate Records, 1867-1935: Registers 5-6 1890-1896, p.479: film 556896). * In March 1895, a caution and subsequent quit claims were issued regarding the NW¼ of L13C7 where beneficiaries of Henry Harper's estate released their claim to the NW¼ of L13C7 to Jane Harper and the Henry Harper Estate (Instrument and Deeds, No.7073, 7074, 7075: film 1704174). By mid-March 1895, Jane Harper (as administrator of Henry Harper's Estate) sold the NW¼ of L13C7 to Alfred Thomas Harper for $1,900 (Instrument and Deed, No.7082: film 1704174). * After this time, Alfred Thomas Harper was owner of all 100 acres of the W½ of L13C7 and his homestead was in the southwest quarter.
West Half (W½) of Lot 13, Concession 7 (L13C7), Township of Albion, County of Peel – 100 acres				
1895-1936	Alfred Thomas Harper (1895 to 1936) James A. and R. Harper (1936 to 1963)		H1 site area: *~ NW¼ was vacant; structure likely demolished ca.1887.* *~ homestead likely in SW¼.*	* From ca.1895 to 1899, Alfred Thomas Harper was listed on 100 acres of the W½ of L13C7 in the *Tax Assessment Rolls*. During this time, the total value of real and personal property was listed as $2,600. - His homestead was located in the southwest quarter of the lot, likely the structure at present-day 14475 Highway 50. * One individual was listed on L13C7 in Union Publishing Co.'s 1896 *Farmers and Business Directory for the Counties of Dufferin, Peel and York:* Joseph Scott Sr. (a freeholder; post office: Castlederg) (p.51). - A[lfred] T[homas] Harper was listed on Lot 14, Concession 7 (p.48). This may be a clerical error as the Clark and O'Leary families were known to occupy Lot 14, Concession 7 at this time. * Two individuals are listed on L13C7 in Union Publishing Co.'s 1900 *Farmers' and Business Directory of the Counties of Dufferin, Ontario, Peel and York:* A[lfred] T[homas] Harper (a freeholder; post office: Bolton) and Joseph Scott Sr. (a freeholder; post office: Castlederg) (pp.A138, A142). * Alfred Harper was listed on the W½ of L13C7 in the 1901 *Census Record.* He was listed as a 45-year-old farmer who was born in Ontario and lived with his 44-year-old wife, Jane, their three children (Mary J., Henry and James) (1901 Census Record, Township of Albion, Schedule No.1, Enumeration District No.3, p.3, lines 28-32: microfilm t-6462). He owned 100 acres where a one-storey wood house with six rooms that was inhabited. He also had two barns/stables/outbuildings (1901 Census Record, Township of Albion, Schedule No.2, Enumeration District No.3, p.1, line 28: microfilm t-6462).

Year	Name of Owner	Name of Tenant	Site Affiliation	Details
				* Alfred Harper was listed on L13C7 in the 1911 *Census Record.* He was listed as a 53-year-old farmer who was born in Ontario and lived with his 52-year-old wife, Jane, their three children (Mary J., Henry and James) (1911 Census Record, Township of Albion, Schedule No.1, Enumeration District No.3, p.5, lines 10-14: ancestry.ca). * Review of the 1914 *Topographic Map* (***see Map 4***) depicts no structures within the site area, and a brick house south of site area. This was likely the homestead of Alfred Harper. * Alfred Harper was listed in the 1921 *Census Record.* He was listed as a 65-year-old farmer who was born in Ontario, was a widower, and lived with his three children (Mary J., Henry and James). He was listed as owning a single dwelling house of unknown construction type with six-rooms (1921 Census Record, Township of Albion, Schedule No.1, Enumeration District No.4, p.6, lines 11-14: ancestry.ca). * Alfred Harper was listed in the 1931 *Census Record.* He was listed as a 74-year-old farmer who was born in Ontario, was a widower, and lived with his three children (Mary J., Henry and James). He was listed as owning a single dwelling house that was roughcast, with 10 rooms, had a radio and was valued at $1,500 (1931 Census Record, Township of Albion, Schedule No.1, Enumeration District No.2, p.7, lines 7-10: ancestry.ca). * On the 14th of August 1936, Alfred Thomas Harper died. At the time of his death, he resided on L13C7 and was a farmer practicing mixed farming for 60 years. He noted his wife was Jane Mitchell (deceased) and his parents were Henry Harper and Mary Foster (Ontario, Canada: Death and Deaths Overseas, 1869-1950: Alfred Thomas Harper: Folder No. 80, p.6: ancestry.ca). * Alfred Thomas Harper's sons, James A. and Henry R., appear to have continued to own the W½ of L13C7 and likely jointly occupied the W½ after their father died. In June 1949, James A. Harper and Henry R. Harper sold a portion of the W½ of L13C7 to Westney Watson for $2.00 (Instrument and Deed, No.15546). This parcel would eventually become the Esso Gas Station located at 14445 Highway 50 (initially owned by Superior Petroleum Corp. Limited). * James A. and Henry R. Harper appear to own the majority of the W½ of L13C7 until 1963 (Instrument and Deed, No.20909), and likely continued to live at present-day 14475 Highway 50 during this time.

1.3.4.3 Post-1900 Land Use

To facilitate further evaluation of the established archaeological potential within the study area, a review of 1914 and 1938 topographic maps (***see Maps 5-6***), and aerial imagery from 1954, 2002 and 2021 (***see Maps 7-9***) was undertaken.

The topographic maps show that by the early 20th century most of the study area outside of opened road rights-of-way as comprising agricultural lands that had been mostly cleared of vegetation and already brought into agricultural productivity. In 1914 there were 26 house (11 brick and 15 wood) within 300 metres of the study area; by 1938 this had increased to a total of 29 houses.

The 1954 aerial photographs depict similar conditions to that illustrated in the topographic maps, in that much of the study area comprised paved roadways and agricultural land with patches of woodland. The alignment of Duffy's Lane (predecessor of Emil Kolb Parkway/Regional Road 150) appears to have been slightly modified by the mid-20th century with the elimination of a sharp jog along the north side of the Humber River.

By 2002 most of present-day Columbia Way west of Mount Hope Road was constructed, and the lands south of this new road had been redeveloped into residential subdivisions. Old Duffy's Lane was also realigned again to follow a smoother curve north/east of the Humber River. Land development south of King Street (east half of Lot 10, Concession 5) had also commenced, with the outline of Harvest Moon Drive already visible in the orthoimagery.

By 2022 much of the old Duffy's Lane alignment had been superseded by the Emil Kolb Parkway (Regional Road 150), which was constructed ca. 2013. To date, the rest of the study area still encompasses mostly road alignments, flanked by rural or suburban residential parcels, with the main exception being the agricultural land within 14475 Highway 50.

1.3.5 Present Land Use

The right-of-way (ROW) of Emil Kolb Parkway (Regional Road 150) is classified as part of the Bolton Arterial Road Network; Highway 50 and King Street (Regional Road 9) are classified as regional roads, while Columbia Way is considered a local road. Outside of the road ROWs, the land use of 14475 Highway 50 is presently categorized as Environmental Policy Area and Prime Agricultural Area (Town of Caledon, 2024).

1.4 Archaeological Context

To establish the archaeological context and further establish the archaeological potential of the study area, *Archeoworks Inc*. conducted a comprehensive review of the local archaeological management plans, designated and listed cultural heritage resources, heritage conservation districts, commemorative markers and pioneer churches and early cemeteries in relation to the study area. Furthermore, an examination of registered archaeological sites and previous AAs

within proximity to the study area limits, and a review of the physiography of the study area were performed (Archeoworks Inc., 2024a [draft] – P029-1153-2024). The results of this background research, with updated information relevant to the current study area, are presented below.

1.4.1 Archaeological Management Plan

Per *Section 1.1, Standard 1* of the *2011 S&G*, when available, an archaeological management plan (AMP) or other archaeological potential mapping must be reviewed. According to the Town of Caledon's AMP, most of the study area generally has archaeological potential for the recovery of both pre-contact Indigenous sites and historical archaeological sites (ASI, 2021h, p.37; ***see Map 10***).

1.4.2 Designated and Listed Cultural Heritage Resources

Per *Section 1.3.1* of the *2011 S&G*, property listed on a municipal register or designated under the *Ontario Heritage Act*, or that is a federal, provincial, or municipal historic landmark or site, are considered features or characteristics that indicate archaeological potential.

The study area encompasses one listed heritage property (14475 Highway 50). It immediately abuts one designated heritage property (the Duffy Homestead at 14121 Emil Kolb Parkway) and three other listed heritage properties (14291 Highway 50; 14328 Highway 50; 14685 Highway 50) (Town of Caledon, 2023a; ***see Table 5; see Map 11***).

Table 5: Heritage Properties within 300 metres of the Study Area

Address	Description	Heritage Status
14121 Emil Kolb Parkway	Duffy Homestead, c.1840s	Designated Part IV
14291 Highway 50	c. 1870s	Listed
14328 Highway 50	c. 1850s	Listed
14475 Highway 50	c. 1877	Listed
14685 Highway 50	c. 1900s	Listed

1.4.3 Heritage Conservation Districts

Per *Section 1.3.1* of the *2011 S&G*, heritage resources listed on a municipal register or designated under the *Ontario Heritage Act* are considered features or characteristics that indicate archaeological potential. There is no heritage conservation districts within 300 metres of the study area (Town of Caledon, 2023b).

1.4.4 Commemorative Plaques or Monuments

Per *Section 1.3.1* of the *2011 S&G,* commemorative markers of Indigenous and Euro-Canadian settlements and history which may include local, provincial, or federal monuments, cairns or plaques, or heritage parks are considered features or characteristics that indicate archaeological potential. The *Ontario Heritage Trust* records no commemorative plaque or marker within the study area (OHT, 2021).

1.4.5 Pioneer/Historic Cemeteries

Per *Section 1.3.1* of the *2011 S&G,* pioneer churches and early cemeteries are considered features or characteristics that indicate archaeological potential. No cemeteries are located within 300 metres of the study area.

1.4.6 Registered Archaeological Sites

Per *Section 1.1, Standard 1* and *Section 7.5.8, Standard 1* of the *2011 S&G*, the *Ontario Archaeological Sites Database* (OASD) maintained by the *MCM* was consulted to provide a summary of registered or known archaeological sites within a minimum one-kilometre distance of the study area limits. A total of 53 archaeological sites have been registered within one kilometre of the study area (MCM, 2024). Of these, two were located within the study area limits (AlGw-171 and AlGw-172), and six more were located within 50 metres of the study area limits (***see Table 6; Appendix D***).

It must be noted that all archaeological concerns regarding the two sites (AlGw-171 and AlGw-172) encompassed within the ROW limits of Emil Kolb Parkway have been addressed (PIF# P303-159-2012; PIF# P390-0039-2013) (***see Appendix D***). However, further archaeological concerns exist for the presumed archaeological site extension of AlGw-172 that will have to be addressed should proposed construction extend beyond the ROW limits near this site (***see Section 2.2.1.1***).

Table 6: Registered Archaeological Sites within One Kilometre of the Study Area

Borden #	Name	Cultural Affiliation	Type
Registered sites within the study area			
AlGw-171	Goodfellow	Post-Contact	Unknown
AlGw-172	Harper	Pre-Contact; Post-Contact	-
Registered sites within 50 metres of the study area limit			
AlGw-15	-	-	-
AlGw-16	-	-	-
AlGw-44	Swinarton	Early Archaic; Middle Archaic	Findspot; findspot
AlGw-135		Pre-Contact (Indigenous)	Unknown
AlGw-137		Post-Contact (Euro-Canadian)	Unknown
AlGw-218	H6	Post-Contact (Euro-Canadian)	Homestead
Other registered sites within one kilometre			
AlGw-3	Harper	Paleo-Indian; Archaic	Other: camp/campsite
AlGw-4	Goodfellow	Archaic	Other: camp/campsite
AlGw-5	French	Archaic	Other: camp/campsite
AlGw-12	Grogan	Late Archaic	Other: camp/campsite
AlGw-25	Belly	Pre-Contact (Indigenous)	Unknown
AlGw-28	Beesting	Pre-Contact	Findspot
AlGw-31	Lotor	Middle Archaic	Other: camp/campsite; processing
AlGw-32	Westlake	Paleo-Indian	Camp/campsite
AlGw-36	-	Early Woodland (Meadowood)	Findspot
AlGw-38	-	Pre-Contact (Indigenous)	Findspot
AlGw-39	-	Pre-Contact (Indigenous)	Findspot
AlGw-40	-	Early Woodland (Meadowood)	Findspot
AlGw-41	-	Post-Contact (Euro-Canadian)	Findspot
AlGw-42	-	Post-Contact (Euro-Canadian)	Unknown

Borden #	Name	Cultural Affiliation	Type
AlGw-43	Loring	Post-Contact (Euro-Canadian)	Homestead
AlGw-59	-	Pre-Contact (Indigenous)	Unknown
AlGw-60	Moore	Post-Contact (Euro-Canadian)	Scatter
AlGw-69		Early Archaic (Kirk-Nettling)	Findspot
AlGw-134		Post-Contact (Euro-Canadian)	Unknown
AlGw-136		Pre-Contact (Indigenous)	Findspot
AlGw-138	-	Pre-Contact (Indigenous)	Unknown
AlGw-141		Post-Contact (Euro-Canadian)	Scatter
AlGw-142	AlGw-142	Middle Archaic	Scatter
AlGw-143		Pre-Contact (Indigenous)	-
AlGw-144		Pre-Contact (Indigenous)	Unknown
AlGw-145	-	Pre-Contact (Indigenous)	Unknown
AlGw-146	-	Pre-Contact (Indigenous)	Unknown
AlGw-147	-	Pre-Contact (Indigenous)	Unknown
AlGw-160	The Taylor Homestead	Post-Contact (Euro-Canadian)	Homestead
AlGw-161	-	Pre-Contact (Indigenous)	Findspot
AlGw-180	-	Post-Contact (Euro-Canadian)	Midden; scatter
AlGw-182	-	Post-Contact (Euro-Canadian)	Other: Domestic/ Agricultural, possibly associated with the village of Coventry/Columbia
AlGw-194	Lougheed Site	Post-Contact (Euro-Canadian)	farmstead; house
AlGw-196	Nattress	Post-Contact (Euro-Canadian)	homestead
AlGw-203	O'Leary	Post-Contact (Euro-Canadian)	Scatter
AlGw-204	Mary	Post-Contact (Euro-Canadian)	Dump
AlGw-205	-	Early Archaic	Findspot
AlGw-206	Copeland	Post-Contact	Homestead
AlGw-207	P2	Late Archaic	Findspot
AlGw-212	Bowes	Post-Contact (Euro-Canadian)	House, Logging
AlGw-214	H4	Post-Contact (Euro-Canadian)	Homestead
AlGw-216	H2	Post-Contact (Euro-Canadian)	Homestead
AlGw-215	H5	Post-Contact (Euro-Canadian)	Homestead
AlGw-217	H3	Post-Contact (Euro-Canadian)	Homestead
AlGw-219	P3	Middle Archaic	Findspot

"-" denotes no information provided in the OASD

1.4.7 Previous Archaeological Assessments

Per *Section 1.1, Standard 1* and *Section 7.5.8, Standards 4-5* of the *2011 S&G*, to further establish the archaeological context of the study area, a review of previous AAs carried out within the limits of, or immediately adjacent (i.e., within 50 metres) to the study area, as documented by all available reports, was undertaken.

A total of 25 reports documenting previous archaeological work within and immediately adjacent to (within 50 metres of) the study area were identified (***see Table 7***). A depiction of their extents is delineated and labelled in **Map 12.**

Table 7: Previous Archaeological Assessments

Company, Report Date [PIF]	Stage of Work	Portion of Study Area	Details and Recommendations
Previous assessments encompassing portions of the study area			
TRCA, 2011 [P303-035-2009]	Stage 1-2 AA	Small segments along RR 150 ROW	Stage 1-2 AA for monitoring boreholes (as part of pre-construction activities for the proposed Bolton Arterial Road) and related access routes. Encountered were the foundation of a historic Euro-Canadian homestead (Taylor Homestead/AlGw-160) (but not assessed), and a single lithic flake findspot (AlGw-161). No further work recommended for AlGw-161, but monitoring recommended for AlGw-160 (note: this site lies outside the current Stage 2 AA study area).
TRCA, 2012 [P303-083-2010; P303-101-2011]	Stage 1-2 AA	Segments of RR 150 within TRCA lands	Stage 1-2 AA for segments of the RR 150 ROW lying within TRCA lands. Three Euro-Canadian sites (Goodfellow/AlGw-171; Taylor Homestead/AlGw-160; Elliot Foundations Cluster) and several lithic findspots were encountered, but only Goodfellow/AlGw-171 was recommended for Stage 3 AA.
TRCA, 2013 [P303-159-2012]	Stage 3 AA	Portion of RR 150 ROW at intersection with King Street	Stage 3 AA for Goodfellow (AlGw-171) site. Site was determined to not have significant CHVI, and no further work was recommended.
Archeoworks, 2013a [P029-859-2013]	Stage 1-2 AA	Majority of the current RR 150 ROW (except for TRCA lands) + parts of Highway 50, Duffy's Lane and King Street ROW	Stage 1-2 AA for Bolton Arterial Road (RR 150/Emil Kolb Parkway) from King Street to Highway 50, covering most of the proposed road ROW and intersections except for TRCA lands which were subject to a separate assessment. Three sites (H1, H2/AlGw-172, H3) found; only H2/AlGw-172 recommended for further work. No further work recommended for most other portions of the RR 150 ROW. Note that a sliver of land lying between the grading limit and RR 150 northern ROW limit was not subjected to Stage 2 assessment at this time; this strip is being subjected to Stage 2 AA in the current report.
Archeoworks, 2013b [P334-045-2011]	Stage 2 AA	Small portion of Columbia Way ROW, east of Highway 50	Stage 2 AA for the proposed Bolton Feedermain alignment. Segment of Columbia Way that is encompassed within the current Stage 2 AA study area did not yield archaeological resources, and no further work was recommended.
Archeoworks, 2013c [P390-0039-2013] + Archeoworks, 2015 [P390-0067-2013]	Stage 3 AA + Stage 4 excavation	Portion of RR 150 ROW at intersection with Highway 50	Stage 3 AA and Stage 4 excavation of Harper (formerly H2)/AlGw-172 site. Site fully excavated within RR 150 ROW limits and there are no further archaeological concerns within the ROW. Further assessment required for presumed southerly extension of site lying outside the ROW.
Archeoworks, 2014 [P334-176-2012]	Stage 1-2 AA	Two sections of Columbia Way ROW, east of Highway 50	Stage 1-2 AA for the proposed Bolton Feedermain alignment. Two segments of Columbia Way that are encompassed within the current Stage 2 AA study area did not yield archaeological resources, and no further work was recommended.

Company, Report Date [PIF]	Stage of Work	Portion of Study Area	Details and Recommendations
ASI, 2021 [P383-0211-2020]	Stage 1 AA	Entirety of Columbia Way ROW	Stage 1 AA for the Columbia Way Environmental Assessment Study, covering the Columbia Way ROW plus flanking lands, from Highway 50 to the Caledon-King Townline. Lands within the Columbia Way ROW were found to no longer retain potential, and no further work was recommended for this portion.
Timmins Martelle Heritage Consultants, 2022 [P450-0077-2021]	Stage 1 AA	Most of the Highway 50 ROW north of Columbia Way	Stage 1 AA for Bolton North Hill Secondary Plan, encompassing a large section of the Town of Caledon. The segment of the Highway 50 ROW lying within the current Stage 2 AA study area was determined to no longer retain archaeological potential, and no further work was recommended for this portion.
Archeoworks, 2024a – draft [P029-1152-2023]	Stage 1 AA	All of current study area	Stage 1 AA for Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment. Portions within current Stage 2 AA study area found to retain archaeological potential, and therefore require Stage 2 AA.
Previous assessments on lands within 50 m of the study area			
ASI, 1997 [Licence # 96-019]	Stage 1-2 AA (equivalent)	Within 50 m of study area	AA for proposed subdivision development immediately south of the Columbia Way ROW. Lands were found to be already disturbed by developmental activities at the time of survey; no further work was recommended.
Archeoworks, 2002 [2002-035-015]	Stage 1-2 AA	Within 50 m of study area	AA for subdivision development in the west half of Lot 10, Con. 5. Isolated projectile point (AlGw-69) found, but no further work recommended.
ASI, 2007 [P047-259-2007]	Stage 1 AA	Within 50 m of study area	AA for land immediately east of Highway 50 and north of Columbia Way. Portion at the corner of the intersection was found to be disturbed and no further work was recommended; the rest requires Stage 2 AA.
A.M. Archaeological Associates, 2007 [P035-034-2006]	Stage 1-2 AA	Within 50 m of study area	AA for land along the north side of Columbia Way. No archaeological resources encountered, and no further work recommended.
TRCA, 2010 [P303-004-2008]	Stage 1-2 AA	Within 50 m of study area	AA for two TRCA fields along the west side of Highway 50. Five artifact collections — two Euro-Canadian clusters (AlGw-134 & AlGw-137); and three isolated Indigenous lithic findspots (AlGw-135, AlGw-136 & AlGw-138) were encountered. Both fields "cannot be cleared of archaeological concerns" and "further archaeological investigations" were recommended.
Fisher Archaeological Consulting, 2007 [P042-090-2006] + This Land Archaeology, 2009 [P059-163-2009]	Stage 1 AA + Stage 2 AA	Within 50 m of study area	AAs for 14182 Highway 50, located immediately outside of the current Stage 2 AA study area. Stage 1 AA conducted by Fisher Archaeological Consulting determined that archaeological potential exists for a portion of the property. Stage 2 AA conducted by TLA found no archaeological resources, and no further work was recommended.

Company, Report Date [PIF]	Stage of Work	Portion of Study Area	Details and Recommendations
TRCA, 2010 [P303-004-2008]	Stage 1-2 AA	Within 50 m of study area	AA for two TRCA fields along the west side of Highway 50. Five artifact collections — two Euro-Canadian clusters (AlGw-134 & AlGw-137); and three isolated Indigenous lithic findspots (AlGw-135, AlGw-136 & AlGw-138) were encountered. Both fields "cannot be cleared of archaeological concerns" and "further archaeological investigations" were recommended.
TRCA, 2014 [P303-0271-2013]	Stage 1-2 AA	Within 50 m of study area	AA for two small areas east of Duffy's Lane and north of King Street, adjacent to the RR 150 ROW. Two lithics and two faunal fragments found, but no further work recommended.
TRCA, 2015 [P303-0347-2015]	Stage 1-2 AA	Within 50 m of study area	AA for three small areas south/east of RR 150 ROW. No archaeological resources encountered, and no further work recommended.
TRCA, 2016 [P338-0112-2015]	Stage 1-2 AA	Within 50 m of study area	AA for Bolton Mid Trail which connects into the RR 150 ROW. No archaeological resources encountered, and no further work recommended.
TRCA, 2017 [P303-0454-2017]	Stage 1-2 AA	Within 50 m of study area	AA for the proposed access route for culvert removal and wildlife restoration activities just outside the RR 150 ROW. No archaeological resources encountered, and no further work recommended.
Irvin Heritage, 2022 [P379-0390-2021]	Stage 1-2 AA	Within 50 m of study area	AA for 14685 Highway 50. Euro-Canadian site (AlGw-203) was encountered, but no further work is recommended. Note that this report is awaiting MCM review and approval.
Archeoworks, 2024b – draft [P029-1073-2022]	Stage 1-2 AA	Within 50 m of current study area	AA for large block of land extending between Castlederg Side Road and Columbia Way, west of Mount Hope Road. Several sites were found, and further work was recommended for H4/AlGw-214 and H5/AlGw-215. Note: none of these sites are located within the current Stage 2 AA study area.
Archeoworks, 2024c – draft [P029-1152-2023]	Stage 1-2 AA	Within 50 m of study area	AA for proposed development of lands immediately north of Columbia Way and west of Mount Hope Road. Several sites were found, and further work was recommended for H2/AlGw-216, H3/AlGw-217, H4/AlGw-214 and H6/AlGw-218. Note: none of these sites are located within the current Stage 2 AA study area.

The comprehensive review of reports during the Stage 1 AA (Archeoworks Inc., 2024a [draft] – P029-1153-2024) revealed that within the Stage 1 AA Focus Area (now called Focus Area 1), eight areas had not yet been cleared of archaeological concern within and immediately adjacent to the study area:

A. Segment of the current King Street/Regional Road 9 Right-Of-Way (ROW) fronting 8264, 8286 and 8302 King Street.
B. Within the current Emil Kolb Parkway/Regional Road 150 ROW:
    - Strip of land fronting 14219 Emil Kolb Parkway (note: this portion is no longer part of the study area).
C. Immediately outside the Emil Kolb Parkway/Regional Road 150 ROW:

- land flanking the abandoned road alignment, just north/east of the Humber River crossing (note: this portion is not part of the study area and will be subject to a separate Stage 2 AA by the TRCA who manages the land).

D. Immediately outside the Emil Kolb Parkway/Regional Road 150 ROW:
   - southwest corner of the Duffy's Lane–Emil Kolb Parkway intersection (note: this portion is not part of the Stage 2 AA study area and will be subject to a separate Stage 2 AA by the TRCA who manages the land).

E. Within the current Emil Kolb Parkway/RR 150 ROW:
   - strips of land extending westward from the Highway 50–Emil Kolb Parkway intersection, between the graded slope and the ROW limit.

F. Northern end of the private property municipally addressed 14475 Highway 50 (note: only a narrow corridor within this property remains part of the Stage 2 AA).

G. Segment of the current Highway 50 ROW, from south of Emil Kolb Parkway/Regional Road 150 to Columbia Way.

H. Segment of the current Mount Hope Road ROW, from Columbia Way to about 300 metres northwest of the northernmost corner of the 14432 Mount Hope Road property.

It must be acknowledged that a draft report of a Stage 1 AA by TMHC (PIF# P450-0077-2021), which overlaps a portion of the Stage 1 Focus Area, was consulted as part of the Stage 1 AA. However, the status of the report's acceptance into the *Ontario Register of Archaeological Reports* was not clear at the time of Stage 1 report writing, its findings — namely that a significant portion of Highway 50 no longer retained archaeological potential — were not incorporated into the Stage 1 AA report. At the time of Stage 2 report writing, it was confirmed that the *THMC* report had indeed been accepted into the register. However, Stage 2 test pit survey on testable lands along the Highway 50 ROW still proceeded despite the TMHC recommendation of no further work, especially given the presence of a number Indigenous sites still retaining CHVI (e.g., AlGw-134, AlGw-135, AlGw-136, AlGw-137, AlGw-138) in close vicinity.

A review of the draft report for the Stage 1-2 AA of the block development that includes 14530 Mount Hope Road (Archeoworks Inc., 2024b – PIF# P029-1073-2022) reveals that the land encompassed within a portion of the Stage 1 Focus Area had already been fully surveyed, resulting in the identification of H7, a small (n=10) collection of Euro-Canadian artifacts interpreted to represent a small dumping episode. This site does not merit further Stage 3 AA and therefore the land falling within the Stage 1 Focus Area has no further archaeological concerns. However, it must be noted that the report has yet to receive approval from the *MCM*. Additionally, this portion of the Stage 1 Focus Area is not part of the current study area.

1.4.8 Physical Features

1.4.8.1 Physiographic Region

The study area is encompassed within the South Slope physiographic region, which is the southern slope of the Oak Ridges Moraine extending from the Niagara Escarpment in the west to the Trent River in the east. The portion encompassing the study area is morainic, most being a ground moraine of limited relief. The South Slope in general is situated across Verulam and

Lindsay Formation limestone, Georgian Bay Formation grey shales and the reddish shales of the Queenston Formation. The shale content increases going westward and the soils in this area are more clayey and less steep than in the east (Chapman & Putnam, 1984, pp.172-174).

1.4.8.2 Soil Types and Topography

The study area encompasses several native soil types; a description of their characteristics is presented in **Table 8** and are also depicted in **Map 13** (Experimental Farms Service, 1953).

Table 8: Study Area Soil Types

Soil Series and Type	Great Soil Group	Soil Materials	Profile	Drainage	Topography and Surface Stoniness
Bottom Land	Alluvial	Alluvial	Low-lying land along stream courses; subject to flooding; profile immature and horizons poorly defined	Variable	variable
Chinguacousy clay loam	Grey-Brown Podzolic	Heavy textured till; shale and limestone	7” dark greyish brown clay loam over mottled less defined A2 and B horizons; clay parent material dark yellowish brown in colour	Imperfect	Smooth gently sloping; few stones
King clay loam	Grey-Brown Podzolic	Heavy textured till; limestone and shale	6” greyish brown clay loam surface; well developed profile, gritty clay parent material brown in colour	Good	Smooth moderately sloping; few stones
Monaghan clay loam	Grey-Brown Podzolic	Heavy textured till; limestone and shale	7” very dark grey clay loam surface; lower A2 and B horizons mottled; gritty clay parent material brown in colour	Imperfect	Smooth gently sloping; few stones

The topography within the study area generally decreases from north to south, with more pronounced elevation changes in lands cut by the Humber River and its tributaries. The elevation across the study area measures between approximately 224 to 267 metres above sea level.

1.4.8.3 Hydrological Features

Hydrological features such as primary water sources (e.g., lakes, rivers, creeks, streams) and secondary water sources (e.g., intermittent streams and creeks, springs, marshes, swamps) would have helped supply plant and food resources to the surrounding area and are indicators of archaeological potential (per *Section 1.3.1* of the *2011 S&G*). The study area encompasses a portion of the Humber River and its tributaries.

1.4.9 Current Land Conditions

The study area is located at the northwest edge of the built-up area of Bolton. It mostly encompasses the rights-of-way of existing roads (King Street, Emil Kolb Parkway, Highway 50, Columbia Way and Mount Hope Road), except for the actively cultivated corridor of land within agricultural property 14475 Highway 50.

1.4.10 Dates of Fieldwork

The Stage 2 AA of the study area was undertaken in 2024 on October 16-17 and November 18.

1.4.11 Stage 2 Fieldwork Strategy

Specific to the study area situated within the Stage 1 Focus Area[2], the recommended Stage 2 fieldwork strategy is as follows (Archeoworks Inc., 2024a, 60-64 [draft] – PIF# P029-1153-2024; note: only those recommendations relevant to the study area are included below):

1. "Waterbodies cannot be assessed under the *2011 S&G*. However, waterbodies within the study area retain potential for marine archaeological sites. Therefore, projects involving in-water impacts must be evaluated for marine-based archaeological potential using the *Ministry of Citizenship and Multiculturalism (MCM)'s Criteria for Evaluating Marine Archaeological Potential* checklist, and a marine archaeological investigation undertaken by a licensed marine archaeologist must be carried out if determined to be necessary.

   Specifically relevant to the Focus Area: prior to in-water impacts, the bodies of water in the east end of 14475 Highway 50 will need to be evaluated for marine archaeological potential.

2. Lands which have already been subjected to a previous archaeological assessment (Stage 1 AA, Stage 2 AA, Stage 3 AA and/or Stage 4 Mitigation), deemed free of further archaeological concern, have no recommendations for further work and/or determined to no longer retain cultural heritage value or interest (CHVI) — and with the associated report accepted by the *MCM* into the *Ontario Public Register of Archaeological Reports* — are recommended to be exempt from further assessment. No further work is required within the scope of this project.

   Specifically within the Focus Area: most of the lands within the current ROW limits of Emil Kolb Parkway/Regional Road 150 and Columbia Way, as well as segments of King Street/Regional Road 9 and Highway 50, require no further assessment.

4. Specifically relevant to the Focus Area: should project designs involve impacts to the fields on which the sites AlGw-135 and AlGw-137 (i.e., along the west side of Highway 50) and AlGw-218 (i.e., along the west side of Mount Hope Road) are situated, further Stage 3 AA will be required. Furthermore, should construction impacts extend right up to the ROW limit in any of these aforementioned areas:
   a. For each of the sites the proponent must erect a temporary barrier along the limit of the project area, issue "no-go" instructions to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction, and show the location of the area to be avoided, with explicit instructions or labelling to avoid that area on all contract drawings when available. Maps depicting the extent of the temporary barriers and the areas for avoidance are provided in the attached Supplementary Document as Maps S4-S5.

[2] The "Focus Area" referred to in the Stage 1AA is now called "Focus Area 1".

b. A licensed archaeologist must inspect and monitor the area to be avoided during grading or other soil-disturbing activities to verify the effectiveness of avoidance strategies. If alteration of the archaeological site is observed at any time during the construction, the MCM must be notified immediately.
c. Following the completion of the grading and other soil disturbing activities, a licensed archaeologist must inspect and file a Stage 4 avoidance and protection report to the MCM on the effectiveness of the strategy in ensuring that the area to be avoided remains intact.

7. Specifically relevant to the Focus Area, should construction impacts extend right up to the ROW limit in the vicinity of the Harper Site (AlGw-172) extension:
    a. The proponent must erect a temporary barrier along the limit of the project area, issue "no-go" instructions to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction, and show the location of the area to be avoided, with explicit instructions or labelling to avoid that area on all contract drawings, when available. A map depicting the extent of the temporary barrier and the area for avoidance are provided in the attached Supplementary Document as Map S2.
    b. A licensed archaeologist must inspect and monitor the area to be avoided during grading or other soil-disturbing activities to verify the effectiveness of avoidance strategies. If alteration of the archaeological site is observed at any time during the construction, the MCM must be notified immediately.
    c. Following the completion of the grading and other soil disturbing activities, a licensed archaeologist must inspect and file a Stage 4 avoidance and protection report to the MCM on the effectiveness of the strategy in ensuring that the area to be avoided remains intact.

9. Parts of the study area that were identified as having archaeological potential removed (i.e., areas of deep and extensive disturbances) are exempt from requiring Stage 2 AA; the extents of these areas are to be confirmed through a detailed on-site property inspection during a Stage 2 AA as per *Section 2.1.8* of the *2011 S&G*.

    Specifically within the Focus Area, this includes: the paved road platforms and associated roadside ditching along King Street/Regional Road 9, Highway 50 and Mount Hope Road; the extant driveways of 8264, 8286 and 8302 King Street, 14219 Emil Kolb Parkway, 14245, 14289, 14291, 14337, 14442, 14445 Highway 50; 9408 Columbia Way; 14190, 14195, 14320, 14383, 14395, 14400, 14409, 14414, 14421, 14432, 14461, 14559, 14676, 14690 Mount Hope Road; the cut slope and road embankment along Mount Hope Road; and the abandoned road alignment at the side of Emil Kolb Parkway just east of the Humber River.

10. Parts of the general study area that were identified as having no or low archaeological potential (i.e., areas of saturated conditions or steep slope) are exempt from requiring

Stage 2 AA; the extents of these areas are to be confirmed through a detailed on-site property inspection during a Stage 2 AA.

Specifically within the Focus Area: areas that have been confirmed through property inspection as exhibiting saturated soil conditions — namely portions of the Highway 50 and Mount Hope Road ROWs, and the westernmost edge of the 14475 Highway 50 property — are exempt from requiring further Stage 2 AA.

13. All other areas identified as retaining archaeological potential must be subjected to a Stage 2 AA. These areas must be subjected to pedestrian or test pit survey, as appropriate, at five-metre intervals in accordance with the standards set within *Sections 2.1.1* and *2.1.2* of the *2011 S&G*.

    Specifically within the Focus Area, these include:
    - Within the current King Street/RR 9 ROW limits:
        - Strips of land fronting 8264, 8286 and 8302 King Street, between the north side ditching and the ROW limit.
    - Within the current Emil Kolb Parkway/RR 150 ROW limits:
        - Strip of land fronting 14219 Emil Kolb Parkway, between the east side ditching and the ROW limit.
        - Strip of land extending westward from the Highway 50–Emil Kolb Parkway intersection, between the row of coniferous trees and the ROW limit/row of deciduous trees.
    - Immediately outside the Emil Kolb Parkway/RR 150 ROW limits:
        - Undisturbed lands flanking the old road alignment just east of the Humber River crossing.
        - Undisturbed land at the southwest corner of the Duffy's Lane–Emil Kolb Parkway intersection.
    - Within the current Highway 50 ROW limits:
        - Undisturbed lands flanking the road, between the roadside ditching and the ROW limit, except for areas of saturated soil conditions.
    - Within private lands between Highway 50 and Mount Hope Road:
        - The agricultural field and wooded areas of 14475 Highway 50.
    - Within the current Mount Hope Road ROW limits:
        - Undisturbed lands flanking the road, between the roadside ditching and the ROW limit, except for areas of saturated soil conditions, cut slope and road embankments."

2.0 FIELD METHODS

This field assessment was conducted in compliance with the *2011 S&G*. Photographic images of the study corridor are presented within **Appendix E**. The results of the Stage 2 AA are provided within ***Maps 14-19***. The study area encompassed 42.23 hectares of land.

2.1. Indigenous Engagement

Engagement activities with various First Nations included but were not limited to: information dissemination about the Stage 1 AA results, extending invitations to participate in Stage 2 fieldwork, and disseminating the Stage 2 fieldwork results. A total of six representatives from three First Nations groups monitored the fieldwork over the three days and included:

- Timothy Nanticoke (Haudenosaunee Development Institute - HDI): monitored October 16-17
- Tyson Zachariah (HDI): monitored November 18
- Jordan Zachariah (HDI): monitored November 18
- Leah Sault (Mississaugas of the Credit First Nation - MCFN) monitored October 16-17
- Jordan Jamieson (MCFN): monitored November 18
- Darryl VanEvery (Six Nations of the Grand River First Nation) monitored October 16-17

Details regarding communications with Indigenous communities are provided in the **Record of Indigenous Engagement document**.

2.2 Land-Based Archaeological Assessment

2.2.1 Tunnelled Areas and Proposed Construction

The proposed construction includes the following components (***see Appendix F - Figures 1-12***):

- New watermain on Emil Kolb Parkway, Highway 50, Mount Hope Road, along new infrastructure corridor (between Highway 50 and Mount Hope) and new section of watermain on Columbia Way (minimum depth of ~1.8 m).
- New Sanitary Pumping Station (SPS) and access road north-east of the Humber River adjacent to the Emil Kolb Parkway.
- New deep gravity sanitary sewer on Emil Kolb Parkway from Highway 50 / Emil Kolb Parkway intersection to the new SPS.
- New gravity sanitary sewers on Highway 50, Mount Hope Road, and along new infrastructure corridor to connect to the Emil Kolb Parkway sewer.
- New sanitary twin forcemains extending from the new SPS south along Emil Kolb Parkway to north of King Street (minimum depth of ~1.8 m).

The proposed water alignment will be constructed mainly through open cut construction due to the shallow depth of the pipe (minimum depth ~1.8m). However, sections of pipe that cross watercourses will be tunnelled.

The proposed wastewater gravity alignment will be constructed through tunnelled construction due to the deep depth of the gravity pipe needed to connect into the existing and future system (minimum depth ~14m). The twin forcemain and sewer from the new Sanitary Pumping Station (SPS) to King Street along Emil Kolb will be open cut due to the shallow depth of the pipe (minimum depth of ~1.8m).

The majority of the tunnel shaft locations are located within the road right of way. There is a section of shafts that will be required across agricultural lands between Highway 50 and Mount Hope.

Given the extensive depth of the tunnelling and construction activities, the proposed construction activities will not negatively impact any potential underlying archaeological deposits.

2.2.2 Previously Assessed Areas

A total of approximately 35.57 hectares, or 84.22% of the Stage 2 AA study area had been previously subjected to Stage 1 AA (including a property inspection by Archeoworks Inc., 2024a [draft] –P029-1153-2024), Stage 2 AA, Stage 3 AA and/or Stage 4 Mitigation and cleared of archaeological concern. Systematic survey was neither warranted nor conducted within these areas as they were deemed free of further archaeological concern, have no recommendations for further work and/or determined to no longer retain cultural heritage value or interest (CHVI) are recommended to be exempt from further assessment. Note: this excludes the results of TMHC's Stage 1 AA (PIF# P450-0077-2021 (***see Section 1.4.7***).

2.2.2.1 Adjacent Archaeological Sites with Additional Recommendations

The Stage 1 AA report identifies four nearby archaeological sites (within 50 metres) for which additional recommendations will apply should proposed impacts extend beyond the study area (and beyond the ROW) limit in certain areas:

- Harper Site (AlGw-172): The Stage 4 excavation report acknowledges that the site likely extends into the adjacent property, beyond the ROW (Archeoworks Inc., 2013; PIF# P390-0067-2013). This area is located near the intersection of Emil Kolb Parkway and Highway 50 (***see Supplementary Document – Map S1-2***). Consequently, it was recommended that "should grading or other soil disturbing activities caused by road construction activities extend to the edge of the project boundary where the remainder of the site is located, a licensed archaeologist must inspect and monitor the area to be avoided during construction, to verify the effectiveness of avoidance strategies. If alteration of the archaeological site is observed at any time during the construction, the MTCS[3] must be notified immediately. Furthermore, following the completion of the grading and other soil

[3] Now the Ministry of Citizenship and Multiculturalism (MCM)

disturbing activities, a licensed archaeologist must inspect and file a Stage 4 avoidance and protection report to the MTCS on the effectiveness of the strategy in ensuring that the area to be avoided remains intact" (p.74). Further discussion of the proposed construction impacts in proximity to the Harper Site (AlGw-172) can be found in **Section 4.2**.

- AlGw-135 and AlGw-137: found during Stage 2 pedestrian survey where the fields on which these sites are located should "continue to be monitored and should there be any proposed future construction of any kind […] additional archaeological investigations will likely be necessary" (TRCA, 2010, p.24; PIF# P303-004-2008). The fields are located along the west side of Highway 50 (***see Supplementary Document – Map S3-5***). Further discussion of the proposed construction impacts in proximity to the AlGw-135 and AlGw-137 can be found in **Section 4.2**.
- H6 (AlGw-218): Stage 3 AA is recommended for this site (Archeoworks Inc., 2024b; P029-1073-2022). This area is located along the west side of Mount Hope Road (***see Supplementary Document – Map S6-7***).

2.2.3 Test Pit Survey

A portion of the study area consisted of manicured grass frontages, wooded and grassed margins, and areas of overgrown vegetation dotted with trees. Ploughing was not viable due to the presence of landscaping features, utility installations and/or vegetation. In accordance with *Section 2.1.2, Standard 1* of the *2011 S&G*, these areas were therefore subjected to a test pit form of survey (***see Images 1-24***).

A test pit form of survey involves the systematic walking of an area, excavating 30-centimetre diameter pits by hand, and examining their contents. Where space allows, test pit survey was performed in a grid pattern at five-metre intervals; in narrower corridors (<5 m wide) test pit survey was conducted in a single row at five-metre intervals. The topsoil was screened through six-millimetre wire mesh to facilitate the recovery of artifacts. All test pits were examined for stratigraphy, cultural features, and evidence of fill and were test-pitted to within one metre of built structures, where encountered. All test pits were excavated into the first five centimetres of subsoil and all test pits were backfilled (per *Section 2.1.2, Standards 2, 4-7* and *9* of the *2011 S&G*).

Approximately 1.69 hectares or 4.00% of the study area was subjected to shovel test-pit survey at five-metre intervals. Approximately 700 test pits were excavated in these areas. Test pits were excavated to depths of 30 to 60 centimetres in clayey and sandy loam topsoil. No archaeological resources were encountered in areas subjected to test pit survey. Additionally, where test pit survey was conducted within the study area in proximity to the AlGw-135, AlGw-137 and AlGw-218 sites, no archaeological resources were encountered.

2.2.4 Pedestrian Survey

The remaining balance of the study area, consisting of an agricultural field at 14475 Highway 50, was subjected to pedestrian survey (***see Images 24-27***). This form of survey involves systematically walking the ploughed area, and mapping and collecting any artifacts found on the

ground surface. Ploughing was conducted deep enough to provide total topsoil exposure, but not deeper than previous ploughing and was subjected to the appropriate weathering requirements. Greater than 80% of the ploughed ground surface was visible at the time of survey and the ploughed areas were tested at survey transects spaced at five-metre intervals, in accordance with *Section 2.1.1, Standards 1-6* of the *2011 S&G*.

Approximately 3.89 hectares or 9.22% of the study area was subjected to pedestrian survey at five-metre transect intervals.

During the pedestrian survey, one historic 19th century artifact scatter (designated as **H1**) was encountered (***see Section 3.0 for Record of Finds***; ***Image 28***; ***Map 20***). Upon encountering the initial artifact at H1, survey intervals were reduced to one metre over a minimum 20-metre radius around the find to determine whether it was an isolated find or part of a larger scatter. When additional artifacts were encountered, this intensification was continued until the full extent of the surface scatter was defined within the limits of the study area (per *Section 2.1.1, Standard 7* of the *2011 S&G*). All observed artifacts were collected and recorded by their GPS coordinates (per *Section 2.1.1, Standards 8-9* of the *2011 S&G*).

2.2.5 Outstanding Stage 2 AA: Toronto and Region Conservation Authority

Approximately 1.08 hectares, or 2.56% of the study area, falling with the Toronto and Region Conservation Authority (TRCA) property, was not subjected to archaeological survey and will be assessed by the TRCA (***see Map 15***). Per *Section 2.1, Standard 2.f* of the *2011 S&G*, documentation confirming the responsibility of the assessment of this portion of the study area is presented in **Supplementary Document – Section 3.0**.

2.3 Marine- Based Archaeological Assessment

The study area also encompasses a segment of the Humber River. The cold, fresh waters of many of Ontario's lakes and rivers are recognized for conserving evidence of the province's history of exploration, settlement and commerce. There is potential to encounter evidence of both pre- and post-contact peoples' use within these water sources. A 'marine archaeological site' — "an archaeological site that is fully or partially submerged or that lies below or partially below the high-water mark of any body of water" (Government of Ontario, 2022) — can exist within waterbodies in Ontario.

The Humber River falls within previously assessed lands by the TRCA and within TRCA property (TRCA, 2012 - P303-083-2010/P303-101-2011). However, no discussion or recommendations regarding this waterbody is included in this report. Therefore, since the *2011 S&G* only apply to land-based archaeology, if in-water impacts are to occur within the Humber River, the *MCM*'s *Criteria for Evaluating Marine Archaeological Potential* checklist must be completed, and a marine archaeological assessment undertaken by a licensed marine archaeologist must be carried out prior to any in-water impacts to the Humber River.

3.0 RECORD OF FINDS

A catalogue of the artifacts from the H1 site is provided within **Appendix G**. Photographs of a representative sample of artifacts are provided in **Appendix F** as **Images 29-31**. Maps detailing the location of the findspots are provided within **Map 20** and **Maps S8-S10** in the **Supplementary Document**.

A *Trimble GeoExplorer* handheld GPS device was employed, and the North American Datum (NAD) 1983 Canadian Spatial Reference System (CSRS) was utilized to record all GPS readings to an accuracy of less than one metre. A Base Differential Correction method was applied to all GPS data. Detailed site location information is provided within **Section 2.0** of the **Supplementary Document**.

An inventory of the documented record generated in the field can be found within **Appendix H**. All artifacts were stored within one plastic bin (L: 40.0 cm x W: 31.0 cm x H: 30.0 cm), identified as Box: 334-PE2116-22-ST2-01.

3.1 H1 Site

3.1.1 Location

A total of 253 historic artifacts were recovered from 204 findspots at the H1 site (***see Map 19***). The artifacts were found in an agricultural field on the east side of Highway 50 southeast of Emil Kolb Parkway roundabout at 14475 Highway 50. Artifact frequency per findspot ranged from one to two per location, and all were retrieved from a single soil layer, the plough zone. The findspots cover an area that roughly measures 34 metres wide (east-west) by 49 metres long (north-south) in size.

Due to the irregular shape of the study area in the vicinity of the H1 site, land beyond the study area limits were inadvertently included in the pedestrian survey resulting in several findspots located beyond the study area limits. Of the 253 findspots, 24 findspots were located immediately adjacent to the study area: FS40-41, FS145, FS147, FS152-169, and FS202-203. Collectively, these findspots form part of the H1 site, and have been included as such below.

All formal artifact types, diagnostic categories and refined ceramic sherds were collected and, as this site contained greater than 100 artifacts, a large enough sample was left in the field to allow for site relocation. The GPS readings of the locations of all collected artifacts were recorded.

3.1.2 Artifact Analysis

The *Parks Canada's Database Artifact Inventory Guide* was used as a template during the cataloguing phase of the analysis and was modified accordingly. All artifacts were classified according to specific functional classes. These classes are intended to reflect related behaviour and general functionally-related activities. The "Foodways" class, for example, includes all aspects of food preparation, storage and consumption. Likewise, the "Architectural" class is a

catch-all category for items such as brick, nails, window pane glass, etc. These Classes are further subdivided into Groups reflecting more specialized activities. The "Architectural" class, for example, includes groups such as construction materials, nails and window pane glass. The Groups are then further refined into Types defined by attributes that are either functionally or temporally diagnostic, and so on. By classifying archaeological material in this manner, general trends on how an area was used may be discernible. Breakdown of artifacts by artifact class is shown in **Table 9** below.

Table 9: H1 Artifacts by Class

Class	Frequency (FQ)	% of Total
Architectural	27	11
Clothing	1	1
Foodways	204	81
Smoking	10	4
Unassigned	11	4
Total	**253**	**100**

Architectural Class

The Architectural Class (n=27) at the H1 site consists of five nails (all machine cut), nine sherds of window pane glass (all thick), and 13 pieces of construction materials (12 very small fragments of red brick and one coarse ceramic drainage pipe).

Hand wrought nails, common from ca. 17th century to early 19th century, were replaced by cut (machine cut) nails in the 1820s to 1830s. Machine cut nails were available ca. 1790-1820, with hand-made heads (often a 'rose' head as on a wrought nail). While sprigs and brads (trim nails) were completely machine cut ca. 1805, completely machine cut common nails were not in production until ca. 1815. The difference between the 'early' machine cut (ca. 1815 to late 1830s) and 'modern' (post late-1830s to early 20th century) machine cut nails is sometimes discernible (Nelson, 1968, pp.6-7; Phillips, 1994). The cut nails in this assemblage appear to be of the later fully machined variety. Machine cut nails were still in use into the 20th century, preferred by many builders because they did not split the wood on entry as the wire nails were apt to do.

Sheet glass underwent technological improvements in the 19th century, ultimately enabling the development of thicker, larger windows. This change allows us to make statements regarding the relative date of window glass depending on its thickness (Pacey, 1981). The average thickness after 1850 was greater than 1.55 millimetres (considered "thick").

Bricks in the 19th century were made either by homeowners on their property or in a brick yard using a simple, if not standardized, process and locally available raw materials (Karn, 2004, p.4). Clay and sandy loam were mixed in a horse-driven "pug mill", a large tub with a rotating blade. This mixture was packed into brick moulds by hand, air dried, then placed in a kiln to be burned at close to 1000 degrees centigrade (Karn, 2004, p.5). The most common hand struck brick colours tended to be red and yellow. The brick sherds in the assemblage are too small to determine their manufacturing method.

Clothing Class

The Clothing Class (n=1) on this site consists of a single Prosser button.

Prosser buttons replaced shell as the most popular button for shirts in the latter half of the 19th century due to the pressed ceramic buttons' inexpensiveness and efficiency of manufacture (Venovcevs, 2013, pp.4-5). Ceramic buttons are made of a type of pressed ceramic powder using the so-called "Prosser Method", patented by Richard Prosser of Birmingham, England ca. 1840 (Smith-Albert and Kent, 1949, p.35). These ceramic buttons, also known as "agate" buttons, were widely distributed in Canada by the late 1840s.

Foodways Class

The Foodways Class (n=204) at the H1 site consists of tableware ceramics (n=170), utilitarian ceramics (n=30) and glass beverage containers (n=4). The breakdown of ceramic tableware by type is displayed in **Table 10**.

Table 10: H1 Ceramic Tableware by Type

Tableware Type	FQ	% of Ceramic Tableware
Ironstone (IRO)	53	31
Pearlware (PWE)	5	3
Refined White Earthenware (RWE)	83	49
Vitrified White Earthenware (VWE)	27	16
Unidentifiable	2	1
Total	**170**	**100**

Foodways Ceramic

In addition to the ceramic tableware, 28 sherds of coarse lead glazed and unglazed earthenware, one sherd of coarse stoneware and one sherd of yellowware were recovered from the utilitarian ceramic group. Coarse earthenware and stoneware of this type are not considered particularly diagnostic due to their widespread use throughout the 19th century and into the early 20th century. Yellowware, an earthenware with a buff or yellow coloured paste and a clear glaze, was introduced ca. 1840 and continues to the present (Kenyon and Kenyon, 1982) and can be considered a crossover ware between table and kitchen usage.

A number of cross matches, where the sherds do not physically mend but are extremely similar suggesting they may belong to the same vessel, were noted in the ceramic tableware assemblage, specifically what appears to be a set of floral rimmed blue transfer Ironstone, and another set of Chinoiserie blue transfer RWE (likely Willow).

British potters in the 18th and 19th centuries were seeking to duplicate the appearance of the expensive Chinese export porcelains. It was through these efforts that the general tablewares of the period developed. Pearlware (PWE) (n=5) was introduced shortly after Creamware, ca. 1770s; however, it was in the early 1800s that it reached its peak of popularity in Upper Canada (Kenyon, 1995). Refined white earthenware (RWE) (n=83) became the most popular, white-bodied tableware in Ontario in the 1830s when it supplanted PWE as the most common tableware type in households, and is still manufactured today (Kenyon, 1995). Ironstone (IRO) (n=53), a harder

and stronger, white-bodied ware than RWE, was first created in the late 1840s and reached peak popularity during the 1870s in Ontario. Vitrified white earthenwares (VWE) (n=27) and semi-porcelaineous wares became popular in the late 19th century (Kenyon, 1995). The shift from RWE to VWE represents somewhat of a continuum of composition and styles, with wares often found that seem to represent ceramics during this transition period. Some of the refined white earthenware in this assemblage represents the transition from RWE to IRO, and similarly some of the IRO represents the transition towards more vitrified ware, indicative of a continuous habitation on the site from the mid-to-late 19th century.

Decorated tablewares (n=84) in the Foodways Class make up 49% of the ceramic tableware assemblage, including IRO, RWE and VWE and are displayed in **Table 11** by decorative style and ware.

Table 11: H1 Decorated Tableware Ceramics by Style and Ware

Decorative Style	IRO	RWE	VWE	Subtotal	Total by Style
Edged, blue	1	4		**5**	**5**
Moulded	1		2	**3**	**3**
Polychrome hand painted, late palette		11		**11**	**11**
Slipware		6		**6**	**7**
Slip, banded	1			**1**	
Sponged, dense		7		**7**	**15**
Sponged, loose		4		**4**	
Sponged, stamped			4	**4**	
Transfer, black	1			**1**	**43**
Transfer, blue	12	13	3	**28**	
Transfer, blue flow	6			**6**	
Transfer, brown	5	1		**6**	
Transfer, green		1		**1**	
Transfer, red			1	**1**	
Total					**84**

The plain, hand painted, edged, sponged, stamped and slip-decorated earthenwares recovered during the AA of the H1 site were some of the cheapest types of decorated ceramics available throughout the 19th century, and were stocked by most local stores even in the most rural of areas. Transfer printed wares were generally costlier, though mass-manufactured transfer prints in the later 19th century and into the 20th became more available as time passed.

Edged ware was introduced in the mid-1770s and variations on that theme can still be found today. The edged sherds in this assemblage are blue and found RWE and ironstone. The IRO sherd is unscalloped with impressed or unimpressed lines, a style manufactured ca. 1840-1890 (Miller and Hunter, 1990; Miller, 1988). The RWE sherds are scalloped with impressed lines, a style manufactured ca. 1800-1840 (Miller and Hunter, 1990; Miller, 1988).

Hand-painted tablewares, particularly teawares, were a popular style in the first half of the 19th century, though they continued to be manufactured into the second half. There were two main

colour styles, monochromatic (generally in blue) and polychromatic. The polychrome palette is further broken down into early and late, reflecting the popular colour schemes. The early palette consists of earth tones of brown, orange, yellow, green and blue, and it was gradually replaced by the late palette in the 1830s. The late palette colours were brighter, and introduced red and black while dropping orange and brown (Kenyon, 1995). The polychromatic painted tableware sherds in this assemblage are all late palette on RWE. The hand-painted design style also changes through time, from bold, 'peasant-style' in the first two decades of the 19th century to a more delicate 'sprig-style' (ca. 1820-1830). The late palette reverted to the peasant style in the 1830s, before becoming again more delicate and 'sprig-like' from ca. 1840 to 1850. After ca. 1850 the designs are bold and more sloppily executed. Most of the hand painted sherds in this assemblage exhibit the peasant design. Polychrome painted was marketed until 1872 (Kenyon, 1995; Miller, 1991).

Moulding as a technique is not diagnostic, although moulded patterns, such as were popular on IRO, are sometimes recognizable. Moulding became quite popular on tablewares with the rise of Ironstone in the latter half of the 19th century. Though most are not identifiable to pattern, one of the sherds of moulded VWE bears what appears to be a thistle or other botanical pattern.

In 1842, sponged ware was introduced to Ontario, increasing in popularity post-1850. While generally executed with a finer or denser sponge in the first half of the century, the patterns typically consisted of more open sponging from the 1850s onwards (Kenyon, 1995; Majewski and O'Brien, 1987). Stamping (with a sponge) was introduced in 1843 as an alternative to hand-painting and overall sponging, and continued until 1920 (Kenyon, 1995), however it was not generally popular in Ontario until ca. 1850.

Slipwares produced during the first half of the 19th century tended to be more elaborately decorated and more varied in colour, often earthen colours, compared to those from the mid-to-late 19th century. Much of the slipped ware in the assemblage likely represents earlier varieties, while the one sherd of slipped Ironstone is of the later banded variety (Sussman, 1997). Wares of this type are still made today.

Transfer printing was a common decorative technique from 1800 onwards and is still used today (Kenyon, 1995). Blue transfer prints were available from the end of the 18th century onwards. Black, brown, purple, and red were all available ca. 1830. Brown and black were not produced for a period of years: brown, ca. 1860-1880s, and black, ca. 1845-1900 (Kenyon, 1995). Flow-blue, was available in 1845 to the 1920s, and flow mulberry between 1851 and 1868 (Kenyon, 1995). Transfer print motifs in this assemblage include Chinoiserie, filigree, floral and scenic. Several sherds of both RWE and VWE display the popular "Willow" pattern. By 1814, "Willow" was the cheapest available transfer printed pattern, and remains popular to this day (Miller, 1991). Blue transfer wares are easily the most populous of the decorated tablewares in this assemblage.

Foodways Glass

A total of four sherds of foodways glass were recovered during the AA of the H1 site. Of these, all are mould blown green or olive coloured beverage bottle sherds, including one mould blown finish, too burnt to identify further.

Manufacturing technique and design are the two main methods for dating glassware. Free-blown bottles and glassware, (i.e., formed without the use of moulds) is a technique that has been utilized since ca. 1st century B.C. to the present. "Large scale production and a desire for standardized capacity and specific shapes encouraged the use of moulds for container glass manufacture. English 'wine' bottles, for example, started to be mould-blown in the 1730s, but were free-blown before that. Free blown medicine vials, however, continued to be made into the 19th century" (Jones and Sullivan, 1989, p.22). A standard mould blown bottle has a broad date range from the 19th to the early 20th century (Jones and Sullivan, 1989, p.22).

The application of additional glass at the top of the bottle (the finish) following removal of the blowpipe was a standard method for finishing a bottle between the 1830s and 1880s (Jones and Sullivan, 1989).

Smoking Class

The Smoking Class (n=10) in this assemblage consists of three plain white clay pipe bowls, four plain white clay pipe stems, and three marked stems discussed below.

The long-term usage of the clay pipe (pre-19th into the early 20th centuries) limits its usefulness as a diagnostic artifact without the presence of a specific design or makers' mark (Kenyon, 1984). Marked pipe stems included Montreal makers – one just reading 'Montreal,' and the other two reading 'Henderson's.' Montreal specifically had a productive and diverse, if short-lived, clay pipe-making industry. Its rapid expansion was fuelled by post-famine Irish immigration, but it had already begun to decline by the 1870s (Walker, 1983, p.22). William Henderson operated quite successfully out of Montreal between 1847 and 1876 (Kenyon, 1984).

Unassigned Class

This class (n=11) is a catch-all for those items that do not easily fit into the other categories, and for glass fragments that are not identifiable to purpose (i.e., is it a beverage bottle, pharmaceutical jar, decorative lighting?). The Unassigned Class at the H1 site contains six sherds of container or other glass (two mould blown, one tooled bottle finish, one pressed and two unidentifiable to manufacture), three pieces of miscellaneous hardware (including a bar, a bracket and a rail) and two pieces of miscellaneous material (both ferrous scrap).

The application of additional glass at the top of the bottle (the finish) following removal of the blowpipe was a standard method for finishing a bottle between the 1830s and 1880s (Jones and Sullivan, 1989). However, though there is some variation by bottle type, it has been observed that the switch from hand-applied to tooled finishes took place sometime after 1870, peaking in the 1880s (Lindsey, 2023).

4.0 ANALYSIS AND CONCLUSIONS

4.1 Analysis

The overall H1 Site historic assemblage suggests a habitation beginning in the late 1840s and continuing into the late 19th century, with a mid-19th century peak habitation. This domestic assemblage is almost certainly related to the tenure of Henry Bolton (ca. 1847-1875) and his family in the area potentially beginning in the late 1840s (as corroborated by the earlier material in the assemblage such as PWE, dense sponged RWE and scalloped edged RWE). Some of the later material may be related to Henry Harper and his family who purchased the farmstead from Henry Bolton in 1873. Henry Harper lived across the road in Lot 13, Concession 6 during his ownership of the west half of L13C7 (1873 to 1895), and Henry Bolton continued to live on a two-acre parcel in L13C7 in his one-storey log house until 1875. His homestead is likely the structure depicted near the H1 site area in the *1877 Illustrated Atlas*.

The collection is discretely 19th century in origin, with no material suggesting a 20th century component. This terminal end date is supported by the archival data which suggests that after Henry Bolton moved from L13C7, the northwest quarter was vacant, and the former homestead was likely demolished by 1887. Only a small amount of early material was recovered, with the bulk of the assemblage showing a peak habitation in the mid-19th century, as corroborated by machine cut nails, mould blown glass, a tableware assemblage dominated by RWE and IRO, late palette hand painted RWE, the Henderson pipe stems and Prosser button. Post-1870 material such as vitrified white earthenware and a tooled bottle finish is present in the assemblage but makes up a small percentage.

4.2 Conclusions

4.2.1 H1 (AlGw-229) Site

As collections of ten or more 19th century artifacts were found within a ten-metre radius, the H1 site was registered with the *MCM* under the Borden number **AlGw-229** in accordance with *Section 7.12, Standard 1.b* of the *2011 S&G*. Henceforth this site will be referred to as the **H1 (AlGw-229) site**.

In accordance with *Section 2.2 (Determining the requirement for Stage 3 assessment), Standard 1.c* of the *2011 S&G*, as AlGw-229 represents a post-contact site containing at least 20 artifacts that date the period of use to before 1900, this site has further CHVI and therefore requires a Stage 3 AA. A Stage 3 AA is also required for this site in accordance with *Section 2.3, RHF Standard 2.a*, given that the analysis of historical documentation and artifacts has determined that at least 80% of the site's occupation dates to before 1900.

At this stage, the H1 site exhibits a high level of CHVI that would require Stage 4 mitigation, given that 80% or more of the time spans of occupation date to before 1870 (per *Section 3.4.2,*

Standard 1.a of the *2011 S&G* and *Section 3.4, RHF Standard 2.c*). To facilitate impending proposed construction activities, partial clearance tied to the H1 Site (AlGW-229) is recommended.

4.2.2 Harper Site (AlGw-172)

A review of engineering designs depicting the location proposed construction impacts in proximity to the Harper Site (AlGw-172), (***see Map S2, Figures 5, 10***) has revealed there currently are no concerns for negative impacts directly to the Harper Site (AlGw-172); these impacts including:

- Manhole and access driveway construction proposed to occur on the north side of Emil Kolb Parkway, west of Highway 50, approximately 35-40 metres from the Harper Site.
- proposed 1200mm watermain and 600mm sanitary sewer tunneled along the west side of Highway 50 (depth of tunnelling activities confirmed to be greater than six metres below grade), with the previously mitigated portion of the Harper Site (Archeoworks Inc., 2013 – P390-0067-2013).

Owing, however, to impacts occurring immediately adjacent to this archaeological resource, avoidance and protection measures must be implemented. Furthermore, should future construction activities (i.e., including but not limited to: construction laydown areas, temporary access routes or easements, and/or amending of proposed construction impacts, etc.) extend into the unexcavated portions of the Harper Site (AlGw-172) site area, further archaeological assessment in accordance with the *2011 S&G*, will be required. As the unexcavated portion of the Harper Site (AlGw-172) has CHVI, this area must remain avoided and protected during construction (***see Supplementary Document – Section 4.0***).

4.2.3 AlGw-135 and AlGw-137

The proposed construction impacts (***see Map S5, Figures 2-3, 6-7***) in proximity to the AlGw-135 and AlGw-137 site areas include the installation of the tunnelled portions of the proposed 1200mm sanitary sewer and 600mm watermain, valve and access shaft, along the west side of Highway 50, within the roadbed and graded shoulder Owing to the proposed location and depth of tunnelling activities (greater than six metres below grade), construction activities will not negatively impact any potential underlying archaeological deposits of the AlGw-135 and AlGw-137.

However, should the location of the proposed construction impacts change (including, but not limited to, the creation of construction laydown areas) and/or are extended/relocated, further archaeological assessment in relation to the AlGw-135 and AlGw-137 site areas will be required prior to any construction activities.

4.2.4 Partial Clearance

To accommodate the need for development to proceed while outstanding concerns for alterations to the H1 (AlGw-229) site are addressed, partial clearance for the study area is being recommended. A 20-metre protective buffer, within which no construction activities may occur,

as well as a 50-metre monitoring zone, have been instituted around the H1 (AlGw-229) site (in accordance with *Section 7.8.5* of the *2011 S&G*). Beyond the established protective buffer/monitoring zones around this site, there are no further archaeological concerns for the remaining balance of the study area (***see Maps S11-12***).

5.0 RECOMMENDATIONS

Considering the findings outlined within this report, the following recommendations are presented:

1. Lands which have already been subjected to a previous archaeological assessment (Stage 1 AA, Stage 2 AA, Stage 3 AA and/or Stage 4 Mitigation), deemed free of further archaeological concern, have no recommendations for further work and/or determined to no longer retain cultural heritage value or interest (CHVI) are recommended to be exempt from further assessment. No further work is required within the scope of this project.

2. Given the extensive depth of tunnelling activities (a minimum of six metres below ground, microtunnelling and shaft construction in excess of 10 metres) as well as the proposed location of construction impacts associated with access shafts and driveways (greater than 30 metres from the site area limits), there are no concerns for negative impacts to any potential underlying archaeological resources within these portions of the study area in proximity to the **Harper Site (AlGw-172)** or the **H1 (AlGw-229)** site area. Therefore, no further work is recommended for these areas within the scope of this project.

   However, should future construction activities (i.e., including but not limited to: construction laydown and/or staging areas, temporary access routes and/or easements and/or amending of proposed construction impacts, etc.) extend beyond those areas outlined in **Figures 2-3, 5-7** and **10**, and **Maps S2, S5, S8**, further archaeological assessment in accordance with the *2011 S&G*, will be required to ensure that there are no negative impacts to the **Harper Site (AlGw-172)** or the **H1 (AlGw-229)** site areas. This includes:

   a. Should construction impacts extend right up to the southern limit of the ROW on Emil Kolb, at the immediate edge of the Harper (**AlGw-172 site**) as outlined in Archeoworks Inc., 2013; PIF# P390-0067-2013), then the following actions will be required:
      i. The proponent must erect a temporary barrier along the limit of the project area, issue “no-go” instructions to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction, and show the location of the area to be avoided, with explicit instructions or labelling to avoid that area on all contract drawings when available.
      ii. A licensed archaeologist must inspect and monitor the area to be avoided during grading or other soil-disturbing activities to verify the effectiveness of avoidance strategies. If alteration of the archaeological site is observed at any time during the construction, the MCM must be notified immediately.

iii. Following the completion of the grading and other soil disturbing activities, a licensed archaeologist must inspect and file an avoidance and protection report to the MCM on the effectiveness of the strategy in ensuring that the area to be avoided remains intact.
iv. Should construction impacts extend into the unexcavated portion of the Harper (AlGw-172) site, additional archaeological assessment is required.

b. **H1 (AlGw-229) Site**: As per *Section 2.2, Standard 1.c* of the *2011 S&G* and per *Section 2.3, RHF Standard 2.a*, this site is considered to have further cultural heritage value and interest and requires a comprehensive Stage 3 AA in accordance with the *2011 S&G* prior to any intrusive activity that may result in its destruction or disturbance. Of significance to this project, Stage 3 AA is required only if above-ground works are to occur, as the proposed below-ground works will be at a depth sufficient to avoid any negative impacts to the site.

The primary objectives of the Stage 3 AA is to: collect a representative sample of artifacts, determine the extent of the site and characteristics of recovered artifacts, determine any patterning within the site, and assess the cultural heritage value or interest of the site and the potential need for mitigation of development impacts. Additional Stage 3 controlled-surface pick-up (CSP) is not necessary since the intensified Stage 2 CSP survey with GPS recordings at each site meets the requirements of *Section 3.2.1* of the *2011 S&G*. Therefore, the Stage 3 AA must commence with the establishment of a site datum at the centre of the site (or the centres of any localities or concentrations identified from the Stage 2 CSP) and grid system, followed by test unit excavation in accordance with *Section 3.2.2* of the *2011 S&G*.

The Stage 3 AA should include the hand excavation of a series of one-metre by one-metre test units, to gather a larger sample of artifacts and determine the nature and extent of the cultural deposit. Given that this site has a high level of cultural heritage value and interest that will likely result in a recommendation for Stage 4 mitigation of development impacts, the Stage 3 AA should include excavation of a series of test units within a ten-metre grid across the site, in accordance with the methodology outlined in *Section 3.2.3, Table 3.1, Standard 3* of the *2011 S&G*. Furthermore, additional test units, amounting to 40% of the grid unit total, need to be hand-excavated, focusing on areas of interest within the site extent (*Section 3.2.3, Table 3.1, Standard 4* of the *2011 S&G*). Should it become evident during the Stage 3 AA that the site will not result in a recommendation for Stage 4 mitigation of development impacts, the Stage 3 strategy may be amended as per the *2011 S&G*.

All test units must be excavated by systematic levels into five centimetres of sterile subsoil, unless cultural features are encountered, and all excavated soil must be screened through six-millimetre wire mesh to facilitate artifact recovery. The

exposed subsoil must be cleaned by shovel or trowel and all soil profiles examined for undisturbed cultural deposits. If test unit excavation uncovers a cultural feature, the exposed plan of the feature must be recorded, and geotextile fabric is to be placed over the unit floor prior to backfilling the unit.

A thorough photographic record of on-site investigations must be maintained. Finally, a report documenting the methods and results of excavation and laboratory analysis, together with an artifact inventory, all necessary cartographic and photographic documentation must be produced in accordance with the licensing requirements of the *MCM*.

3. Partial clearance, as per *Section 7.8.5* of the *2011 S&G* is recommended for the balance of the study area lying outside the H1 (AlGw-229) site for which further Stage 3 AA is being recommended should future construction activities adversely affect the site area. Therefore, the following recommendations for partial clearance are presented:

    a. No construction activities shall take place within the H1 (AlGw-229) site area, including a 20-metre protective buffer (per *Section 7.8.5, Standard 1.e.i* of the *2011 S&G*). "No go" instructions shall be issued to all on-site construction crews, engineers, architects or others involved in day-to-day decisions during construction.
    b. Any construction activities occurring beyond the 20-metre protective buffer zones around the H1 (AlGw-229) site, but within their 50-metre monitoring zones must be undertaken under the supervision of a licenced archaeologist to ensure there are no destructive activities occurring to the archaeological site. If alteration to the archaeological site is observed at any time during construction, the licenced archaeologist must notify the *MCM* immediately.
    c. Temporary snow-fencing must be erected around the limits of the H1 site (AlGw-229), including the 20-metre protective barrier for any works within the Stage 2 AA study area (including works outside of the 20-metre protective zone and the 50-metre monitoring zone).

    A map showing the location of the H1 (AlGw-229) site, as well as its partial clearance buffers, is provided in the **Supplementary Document** as **Map S11-12**.

4. The following documentation required to obtain partial clearance according to *Section 7.8.5, Standard 1.e* of the *2011 S&G*, is included within **Section 5.0** of the attached **Supplementary Document**. A letter from the proponent explaining the circumstances and reason for requiring partial clearance.
    a. As per *Section 7.8.5, Standard 1.e.ii* of the *2011 S&G*, a detailed avoidance strategy and written confirmation from the proponent regarding their commitment to implementing the strategy and confirmation that ground alterations (including servicing and landscaping) will avoid the H1 (AlGw-229) site and its protective buffer zone.

b. As per *Section 7.8.5, Standard 1.e.iii* of the *2011 S&G*, a construction monitoring schedule and written confirmation from the proponent that a licenced archaeologist will monitor construction in areas within the 50-metre monitoring buffer zone around H1 (AlGw-229), and that the licenced consultant archaeologist is empowered to stop construction if there is a concern for impact to the archaeological site.
c. As per *Section 7.8.5, Standard 1.e.iv* of the *2011 S&G*, a timeline for completing the remaining archaeological fieldwork within the study area.

5. No further archaeological concerns exist for lands within the study area lying beyond the established protective buffer/monitoring zones around the H1 (AlGw-229) site. No further archaeological assessment is required for these assessed areas. It is requested that the *MCM* provide a letter confirming that there are no further concerns regarding alterations to the archaeological site for the specified assessed parts of the study area.

6. A portion of the study area falls within land owned by the Toronto and Region Conservation Authority (TRCA). These lands will be subjected to archaeological survey conducted by the TRCA (***see Supplementary Document – Section 3.0***).

7. Waterbodies within the study area (i.e., the Humber River) cannot be assessed under the *2011 S&G*. However, the Humber River retains potential for marine archaeological sites. Based on the depths of proposed tunnelling activities, which will be occurring beneath the Humber River and at other watercourse crossings for this project, a marine-based archaeological assessment currently is not required. If, however, proposed construction works are modified to involve in-water impacts, the project must be evaluated for marine-based archaeological potential using the *Ministry of Citizenship and Multiculturalism (MCM)'s Criteria for Evaluating Marine Archaeological Potential* checklist, and a marine archaeological investigation undertaken by a licensed marine archaeologist must be carried out if determined to be necessary.

8. Should construction activities associated with this project, including construction laydown areas, extend beyond the assessed limits of the study area, further archaeological investigation will be required prior to construction activities to assess the archaeological potential of these lands.

No construction activities shall take place within the study area prior to the *Ministry of Citizenship and Multiculturalism* (Archaeology Programs Unit) confirming in writing that all archaeological licensing and technical review requirements have been satisfied.

6.0 ADVICE ON COMPLIANCE WITH LEGISLATION

1. This report is submitted to the *MCM* as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c. 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the *MCM*, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

2. It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

3. Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*.

4. The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 (when proclaimed in force) requires that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the *Ministry of Public and Business Service Delivery and Procurement*.

5. Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the Ontario Heritage Act and may not be altered, or have artifacts removed from them, except by a person holding an archaeological licence.

7.0 BIBLIOGRAPHY AND SOURCES

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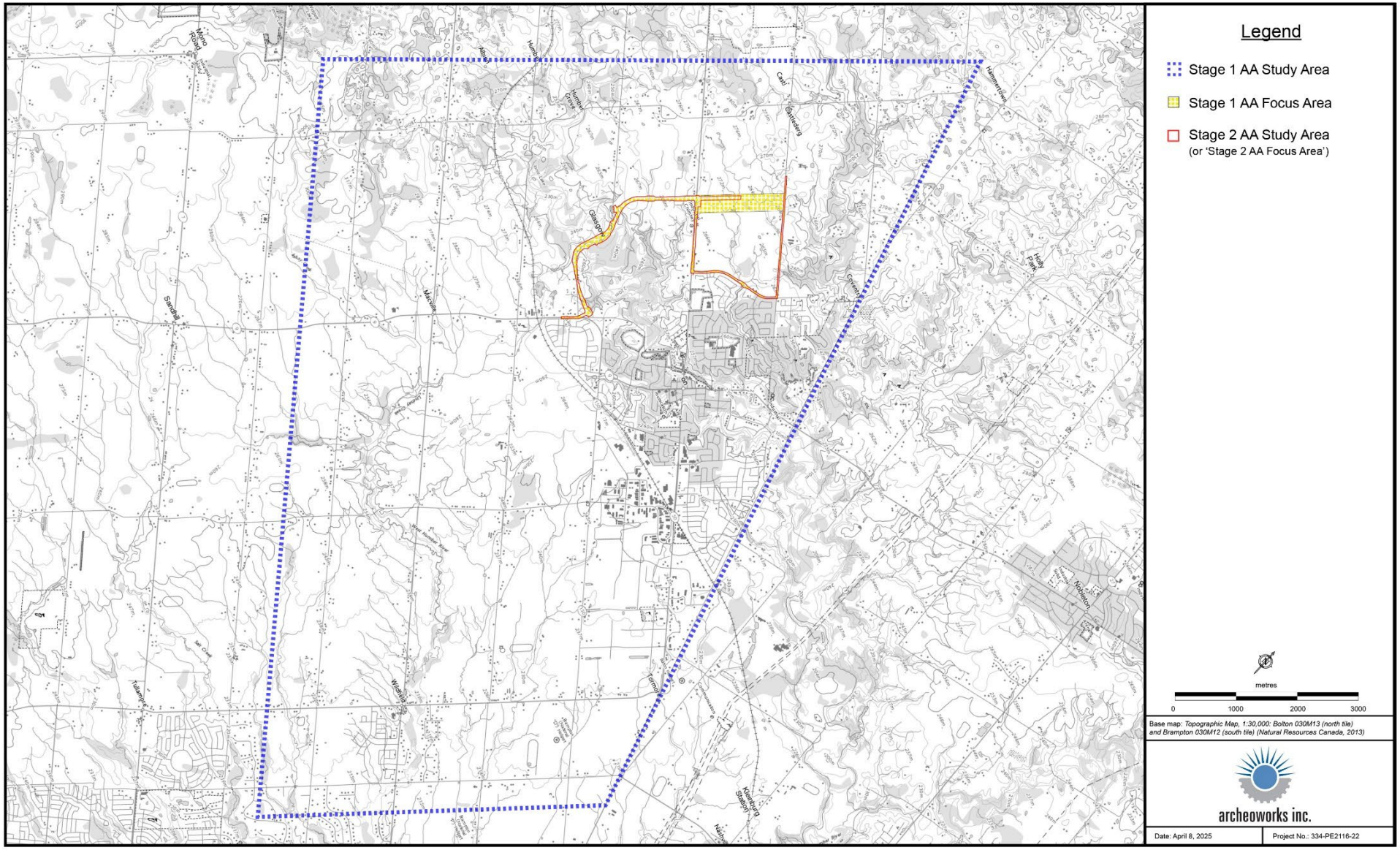
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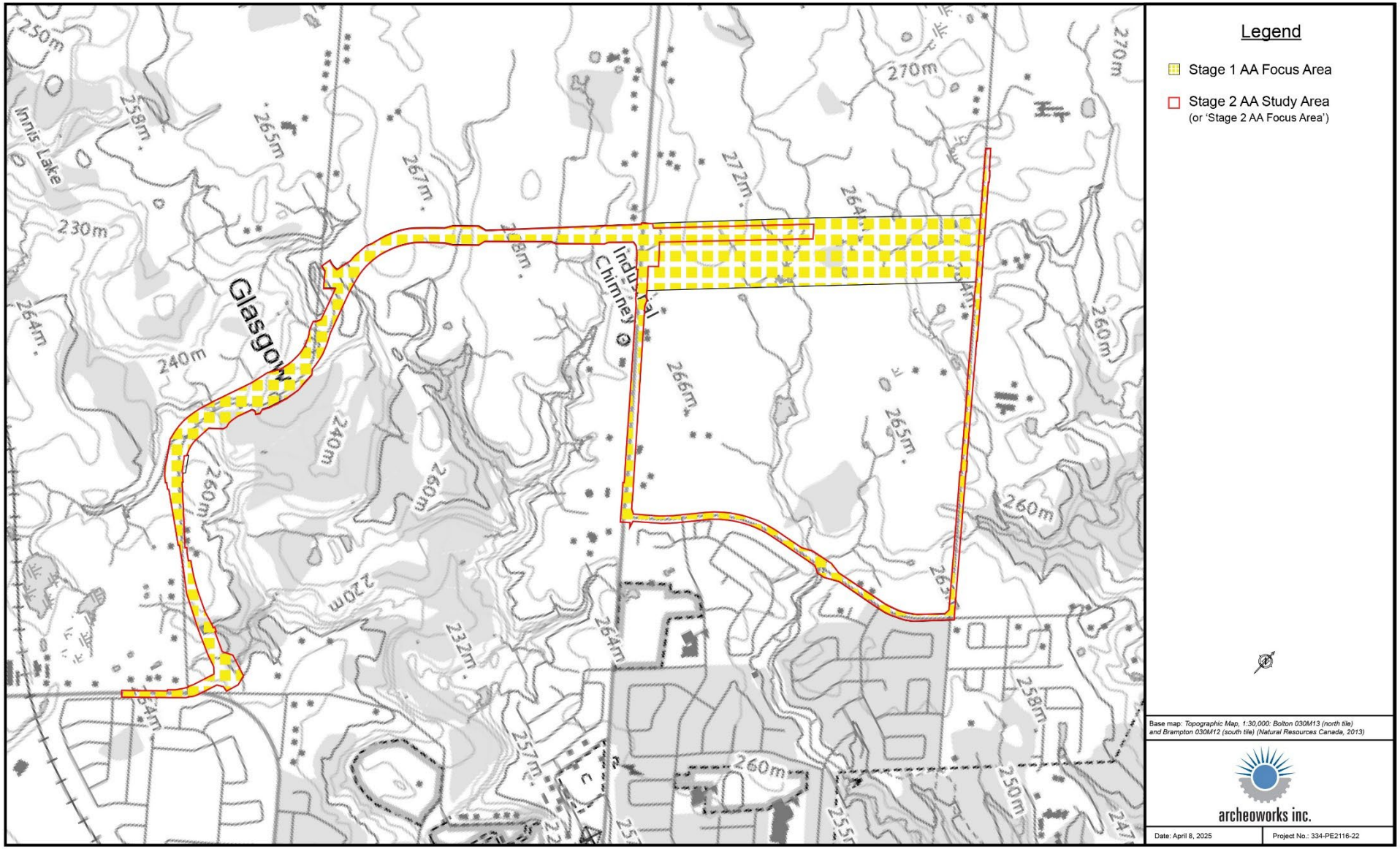
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APPENDICES

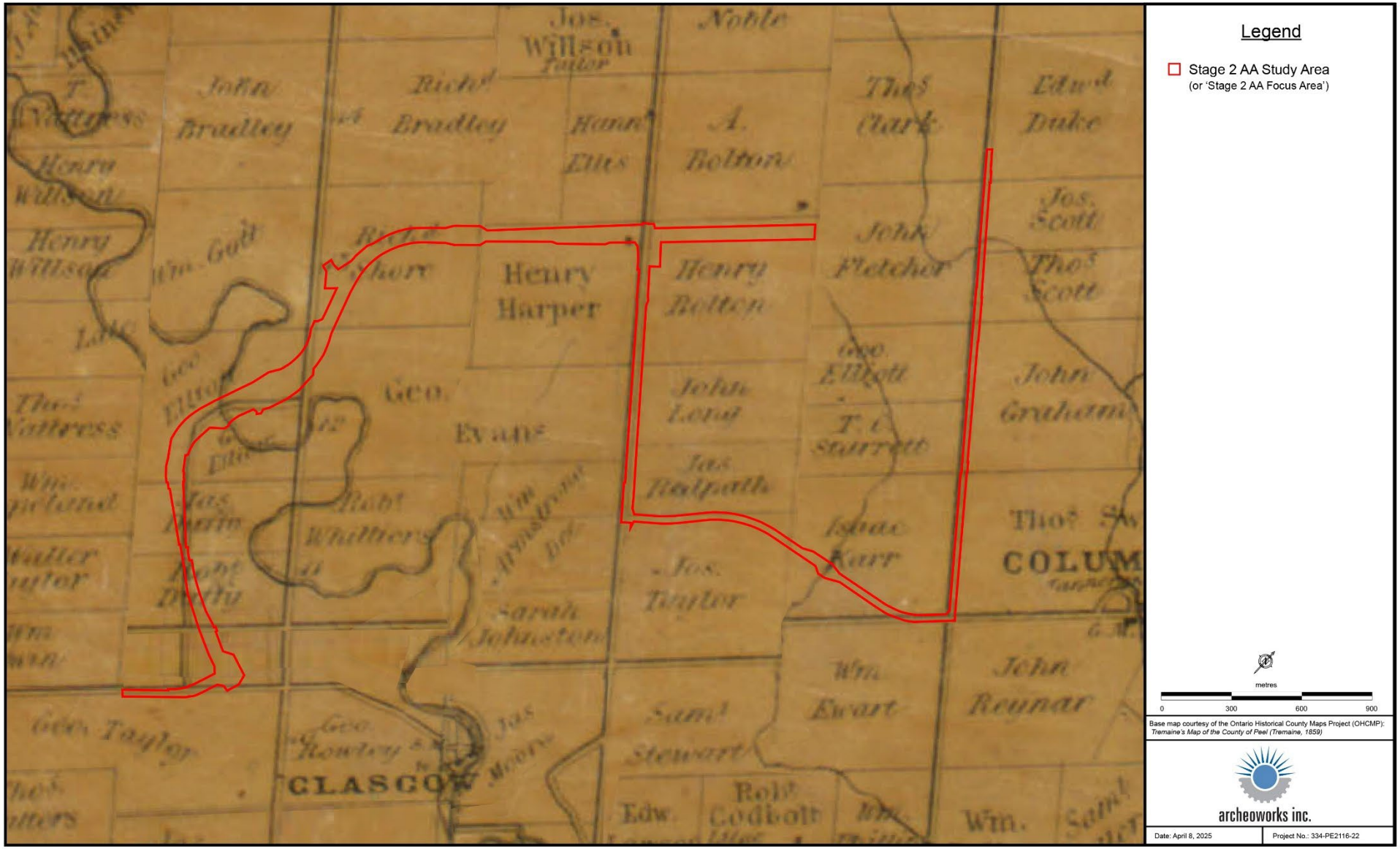
APPENDIX A: MAPS



Map 1: Topographic map section identifying the limits of the larger Stage 1 AA general study area, the smaller Stage 1 AA Focus Area, and the Stage 2 AA study area.



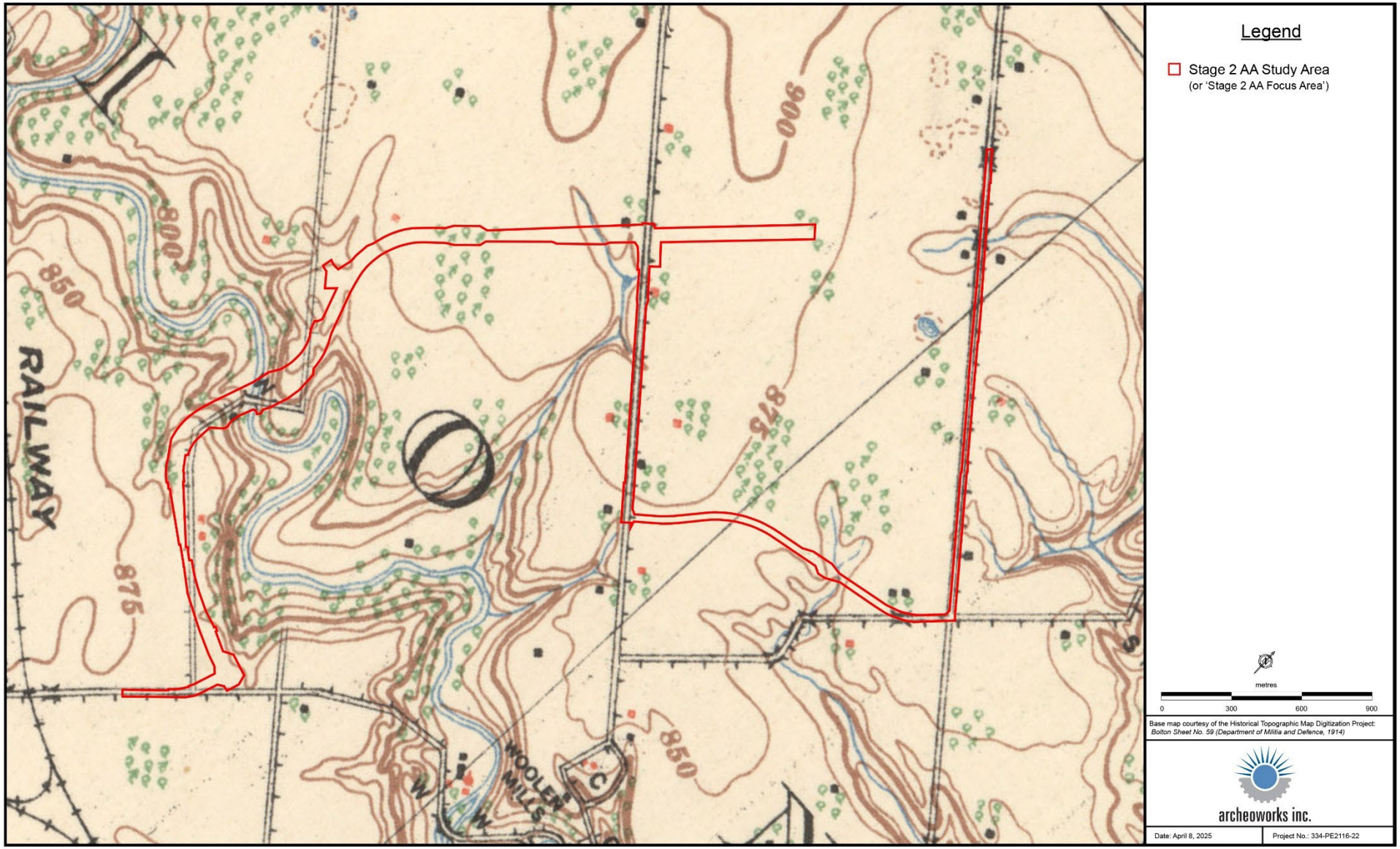
Map 2: Topographic map section identifying the limits of the Stage 1 AA Focus Area, and the Stage 2 AA study area (or "Stage 2 AA Focus Area").



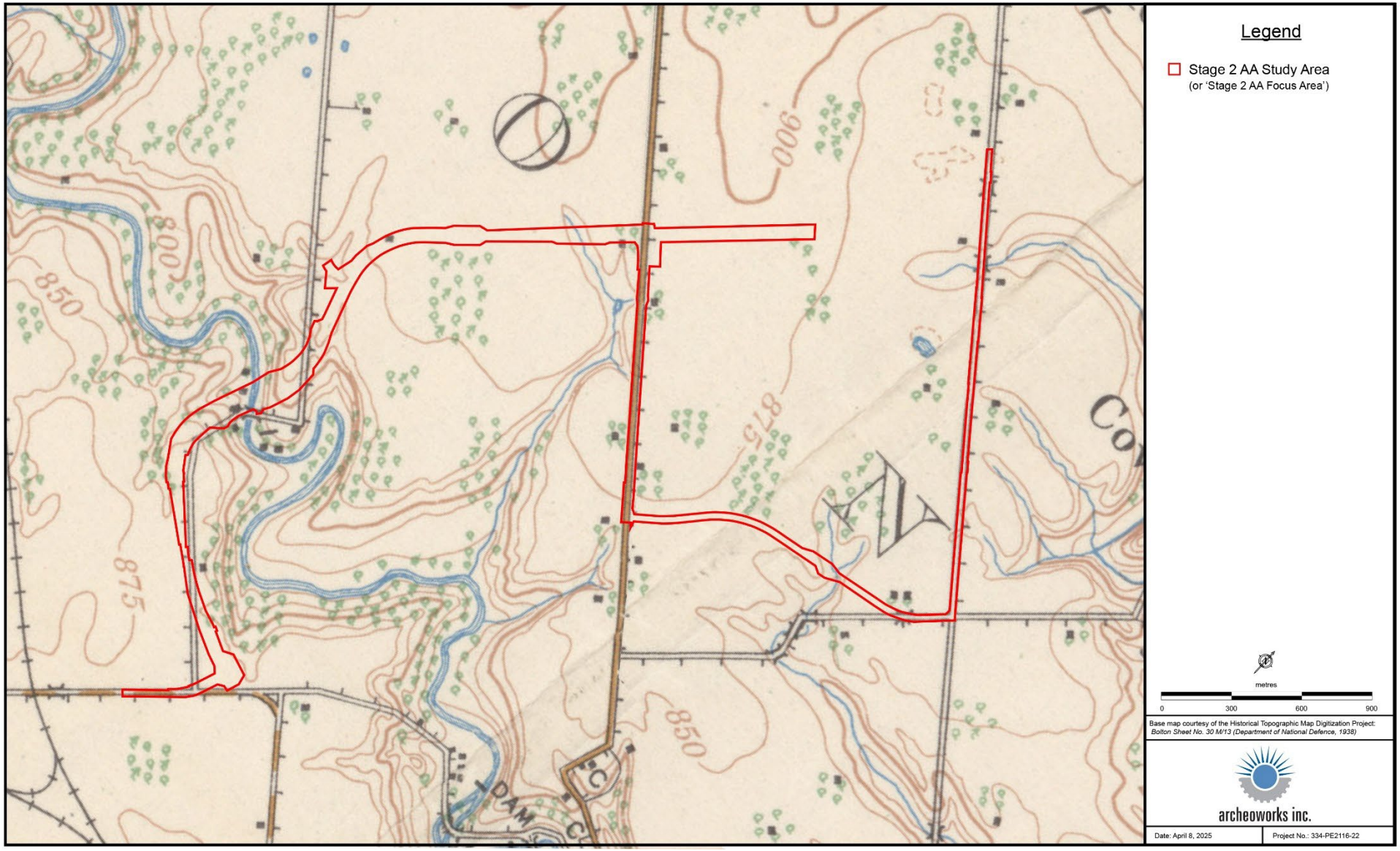
Map 3: Stage 2 AA study area within the 1859 *Tremaine's Map of the County of Peel*. Note: the map has been adapted to align to actual lot lines (i.e., the east and west halves of each lot are staggered).



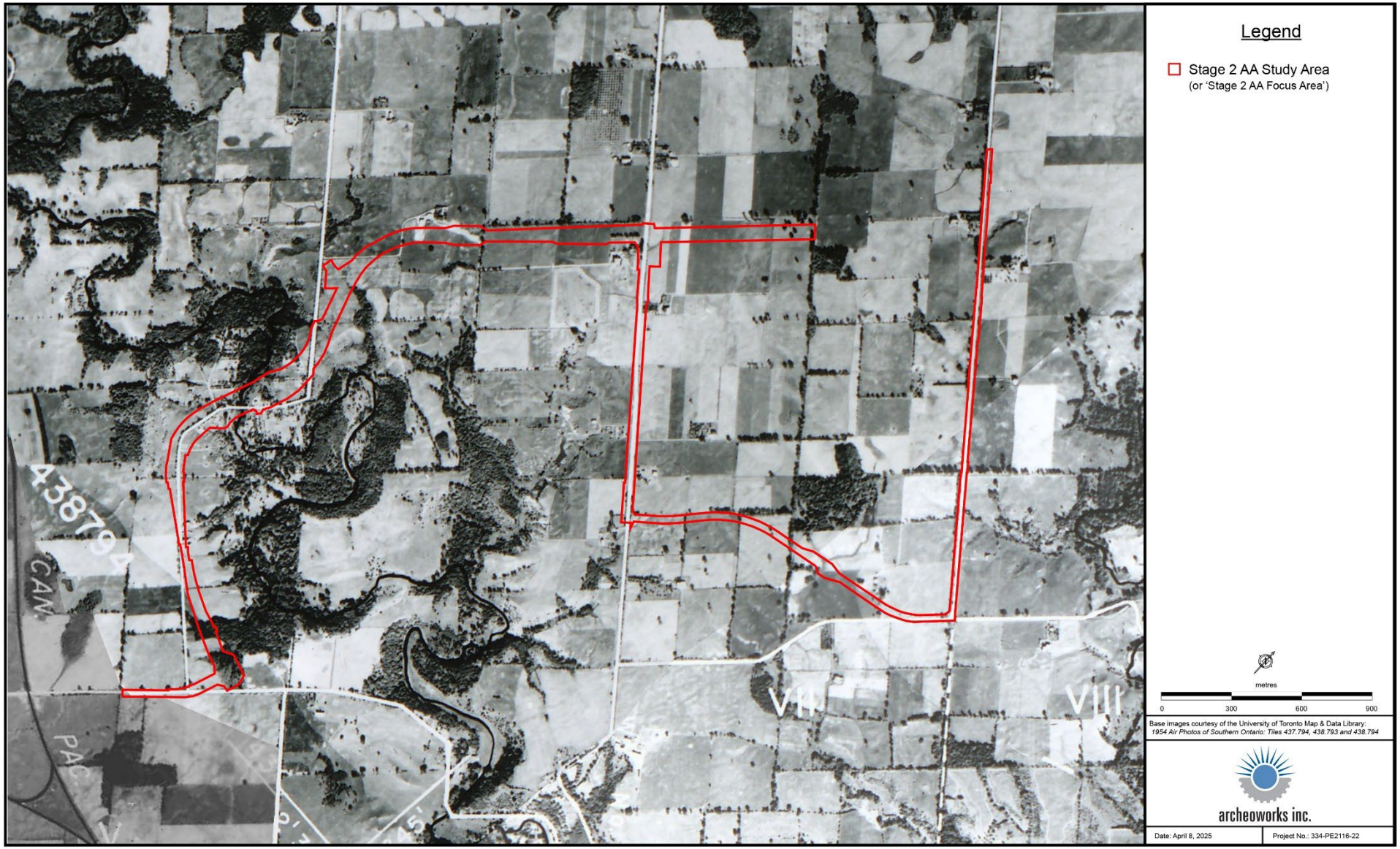
Map 4: Stage 2 AA study area within the 1877 *Illustrated* Historical *Atlas of the County of Peel*.



Map 5: Stage 2 AA study area within a military topographic map published in 1914.



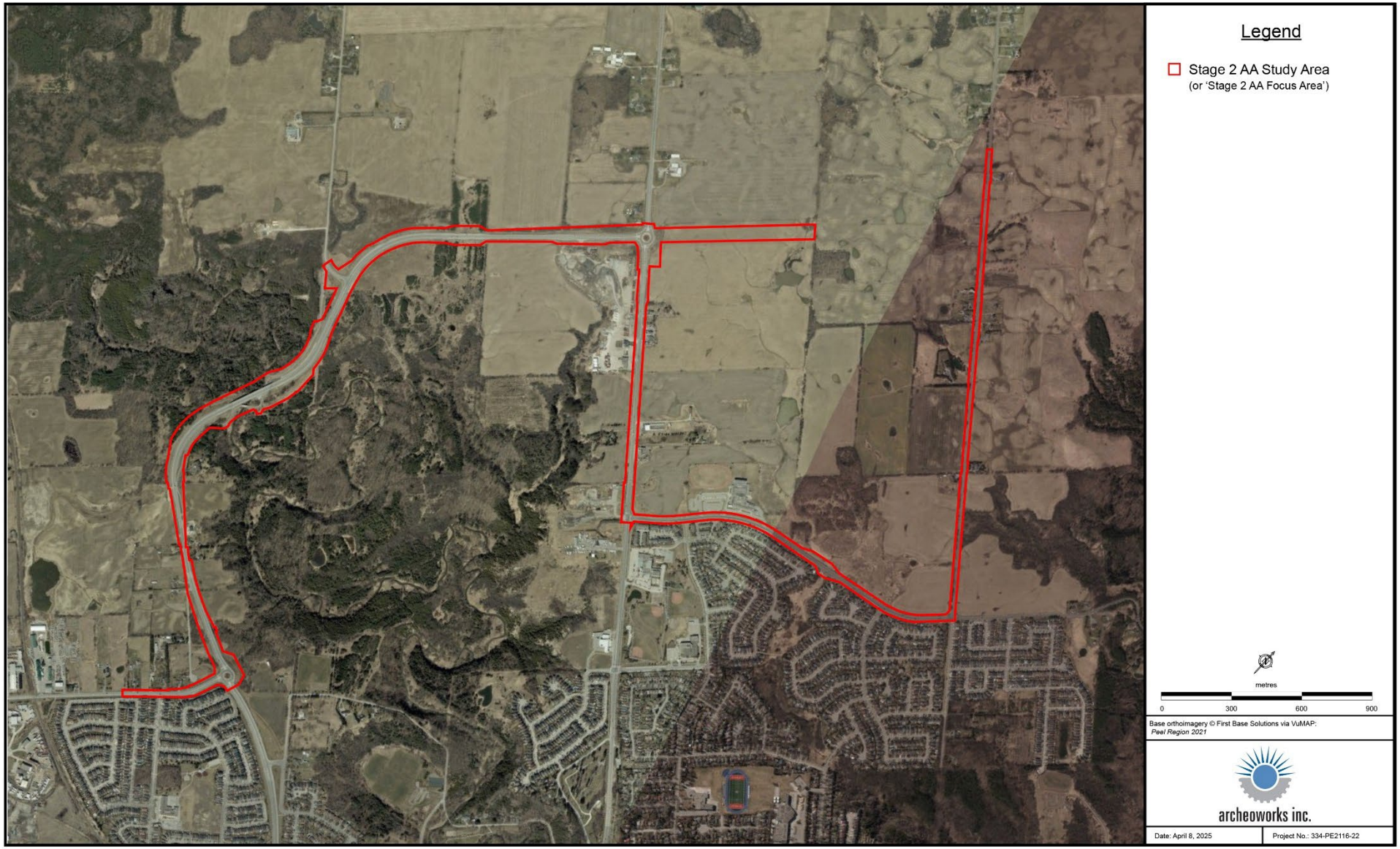
Map 6: Stage 2 AA study area within a military topographic map published in 1938.



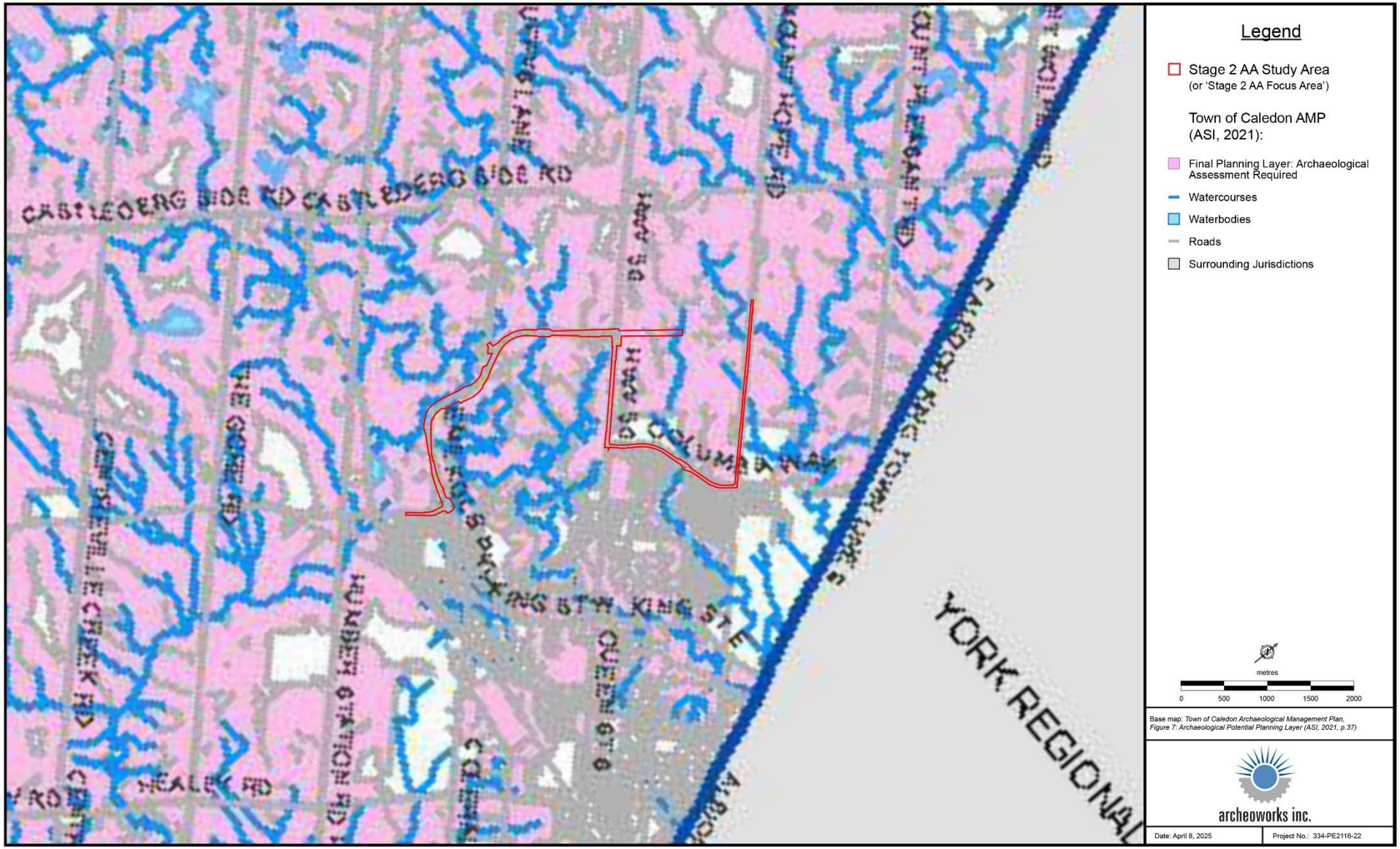
Map 7: Stage 2 AA study area within aerial imagery from 1954.



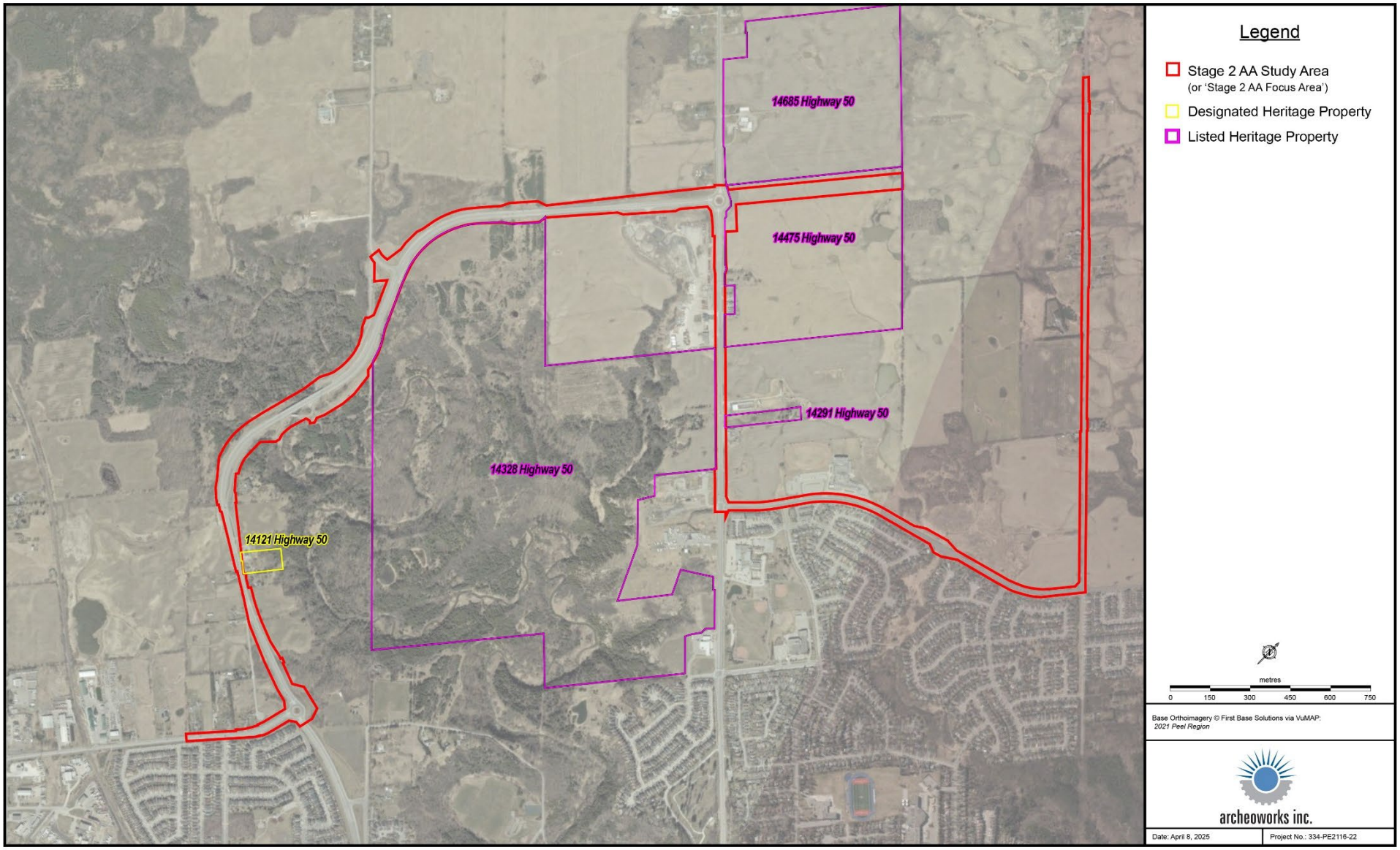
Map 8: Stage 2 AA study area within 2002 orthoimagery.



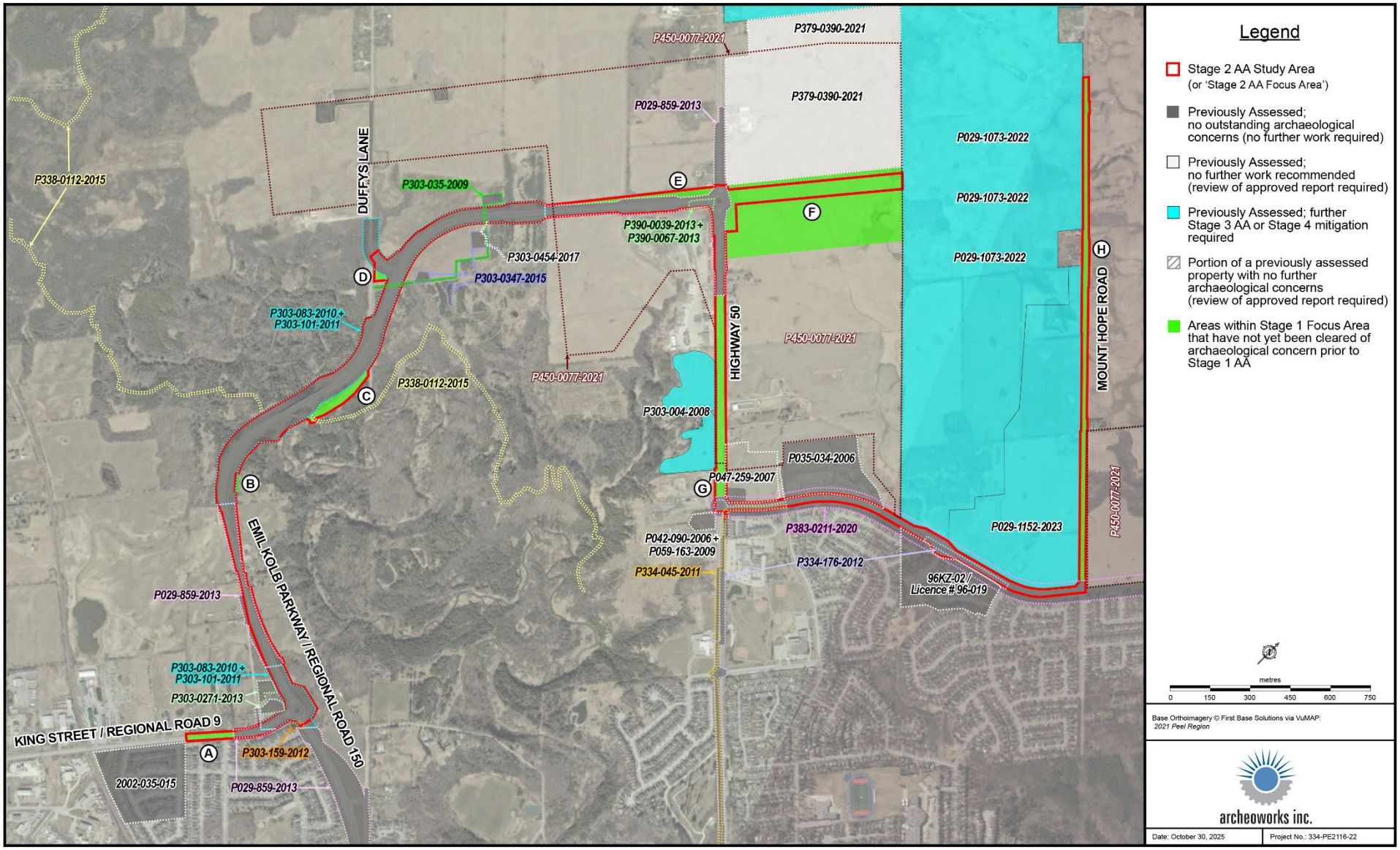
Map 9: Stage 2 AA study area within 2021 orthoimagery.



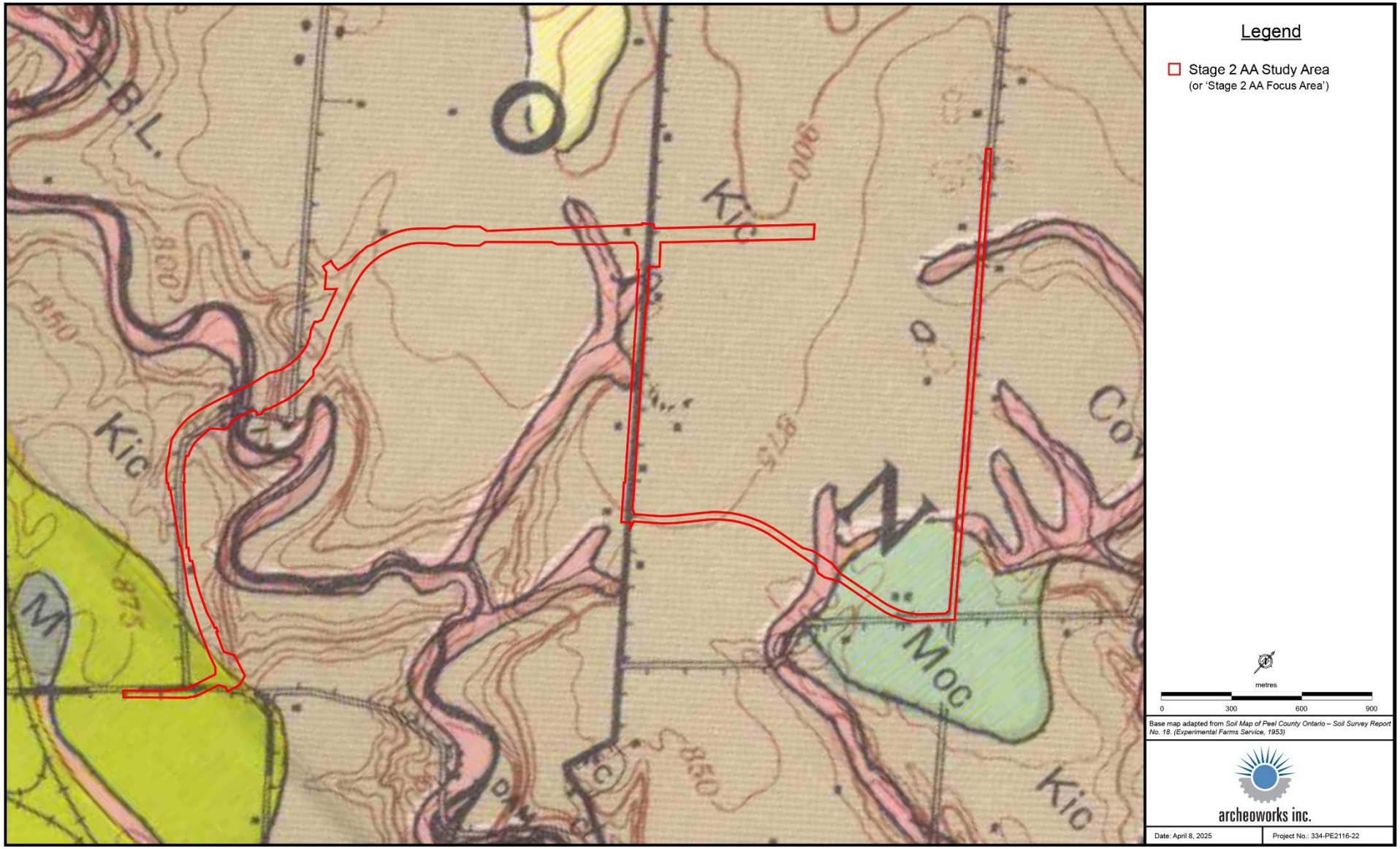
Map 10: Stage 2 AA study area within archaeological potential mapping from the Town of Caledon's *Archaeological Management Plan*.



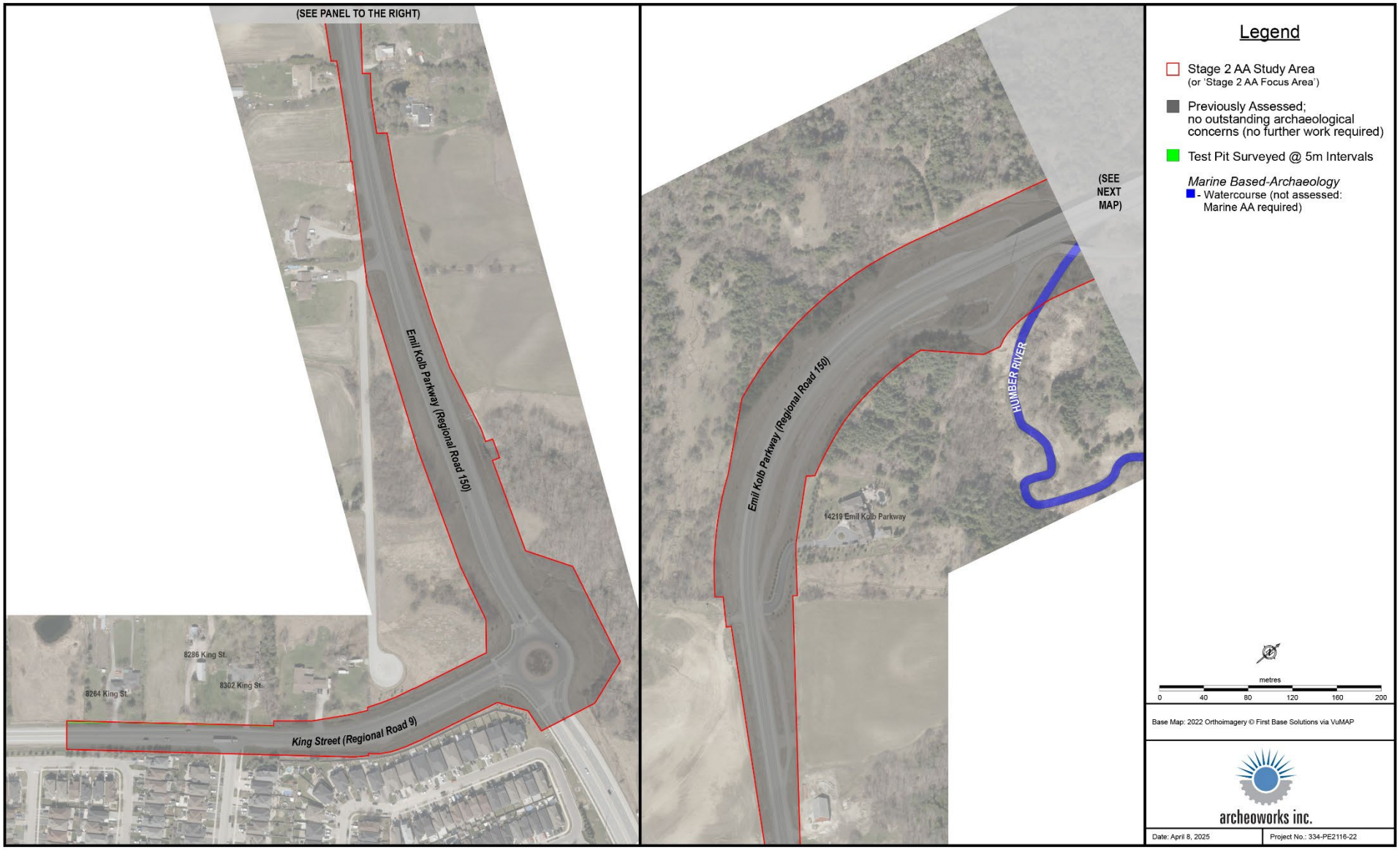
Map 11: Map showing locations of heritage properties within or immediately adjacent to the Stage 2 AA study area.



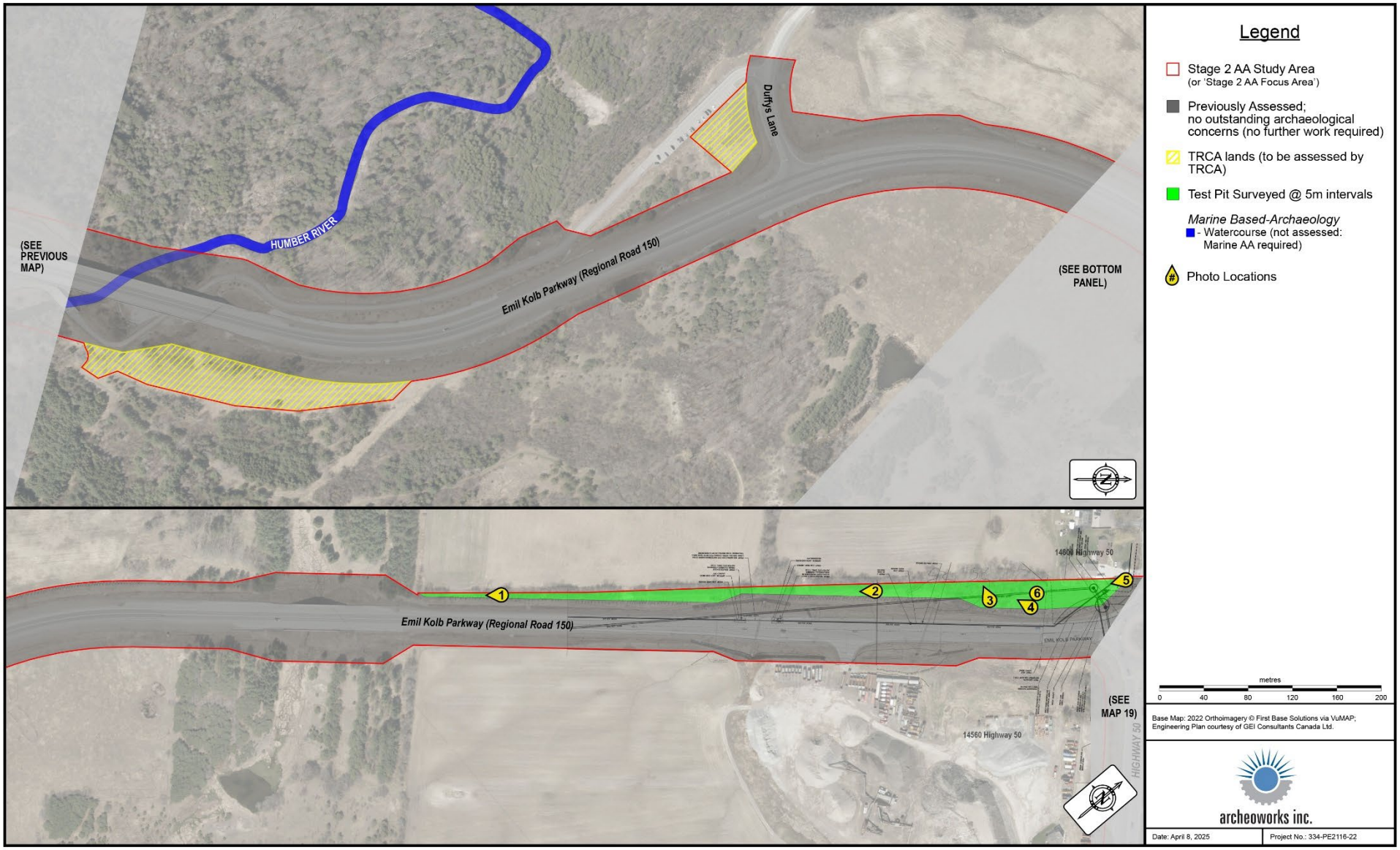
Map 12: Map showing extents of previous archaeological assessments within and immediately adjacent to the Stage 2 AA study area.



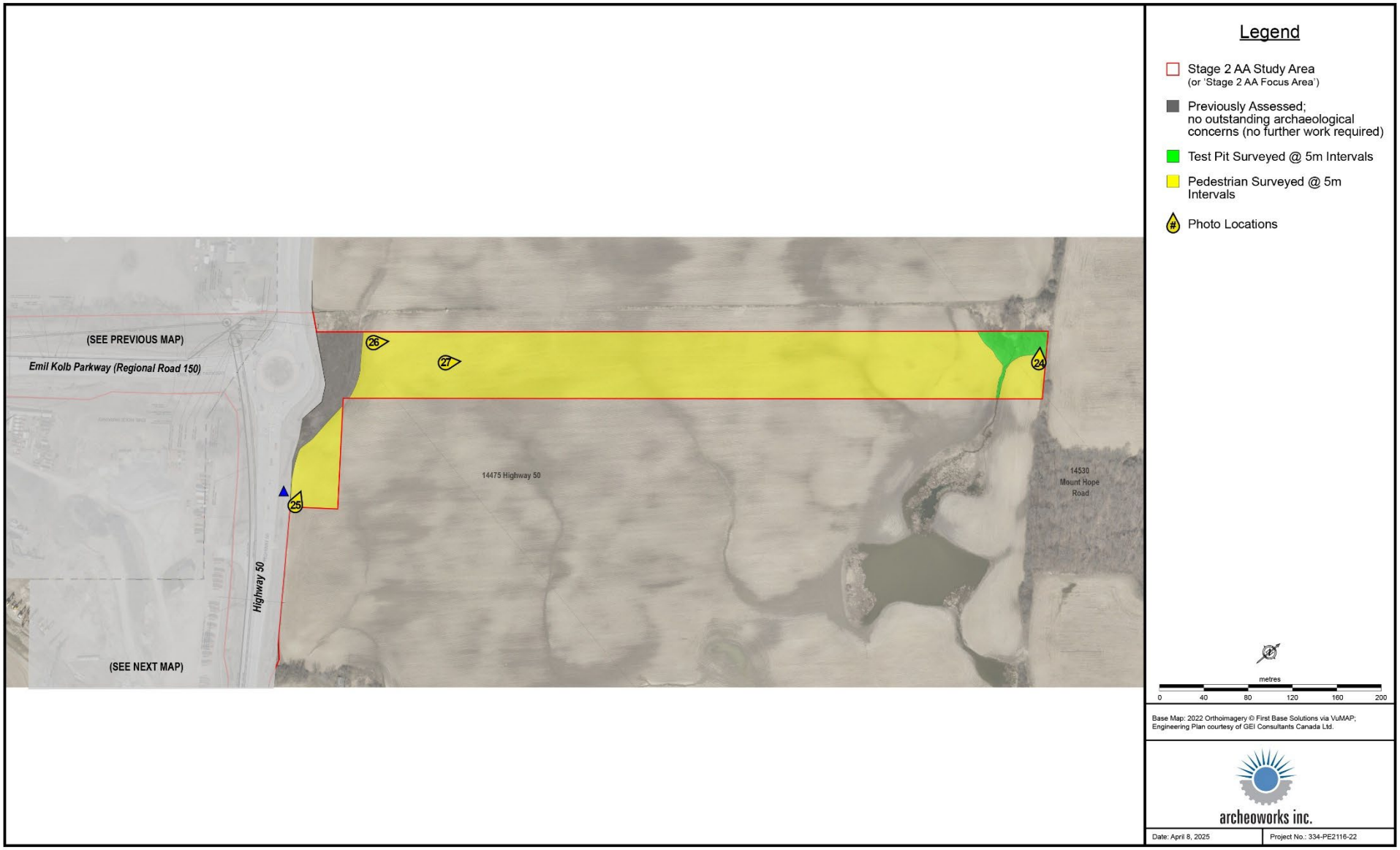
Map 13: Stage 2 AA study area within the 1953 *Soil Map of Peel County*.



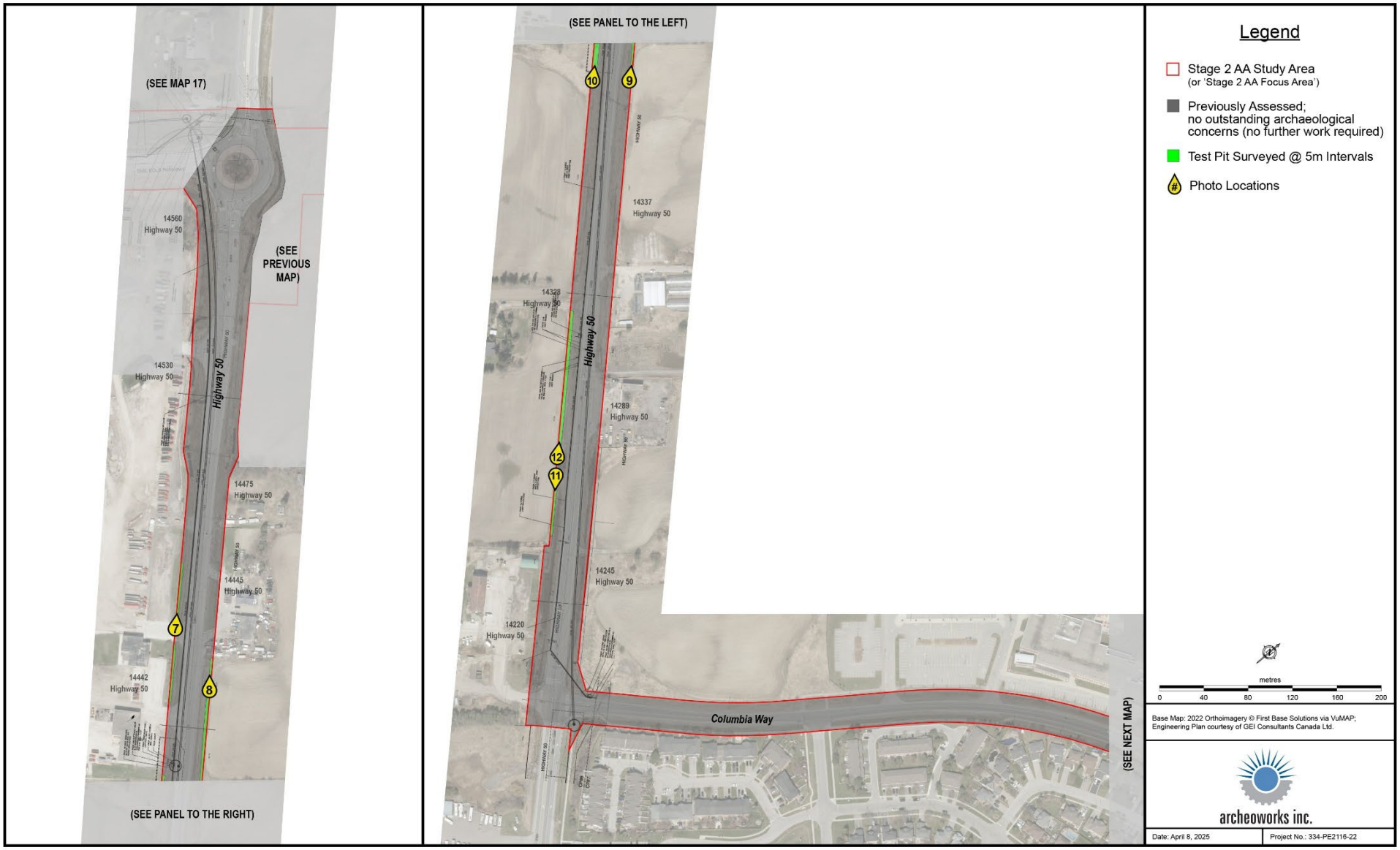
Map 14: Stage 2 AA results along King Street and the segments of Emil Kolb Parkway south/west of the Humber River.



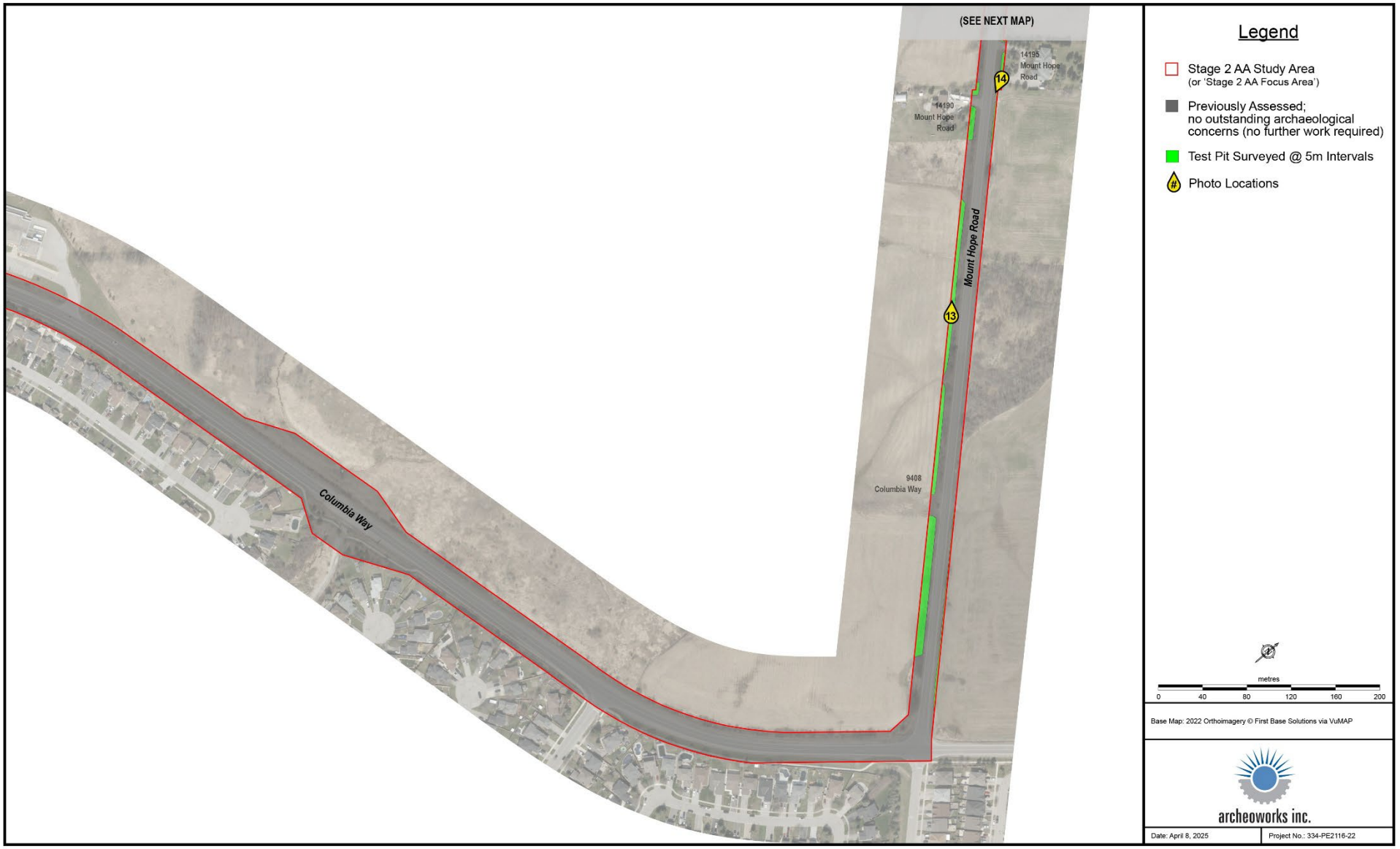
Map 15: Stage 2 AA results along segments of Emil Kolb Parkway north/east of the Humber River, with locations of photos taken during fieldwork.



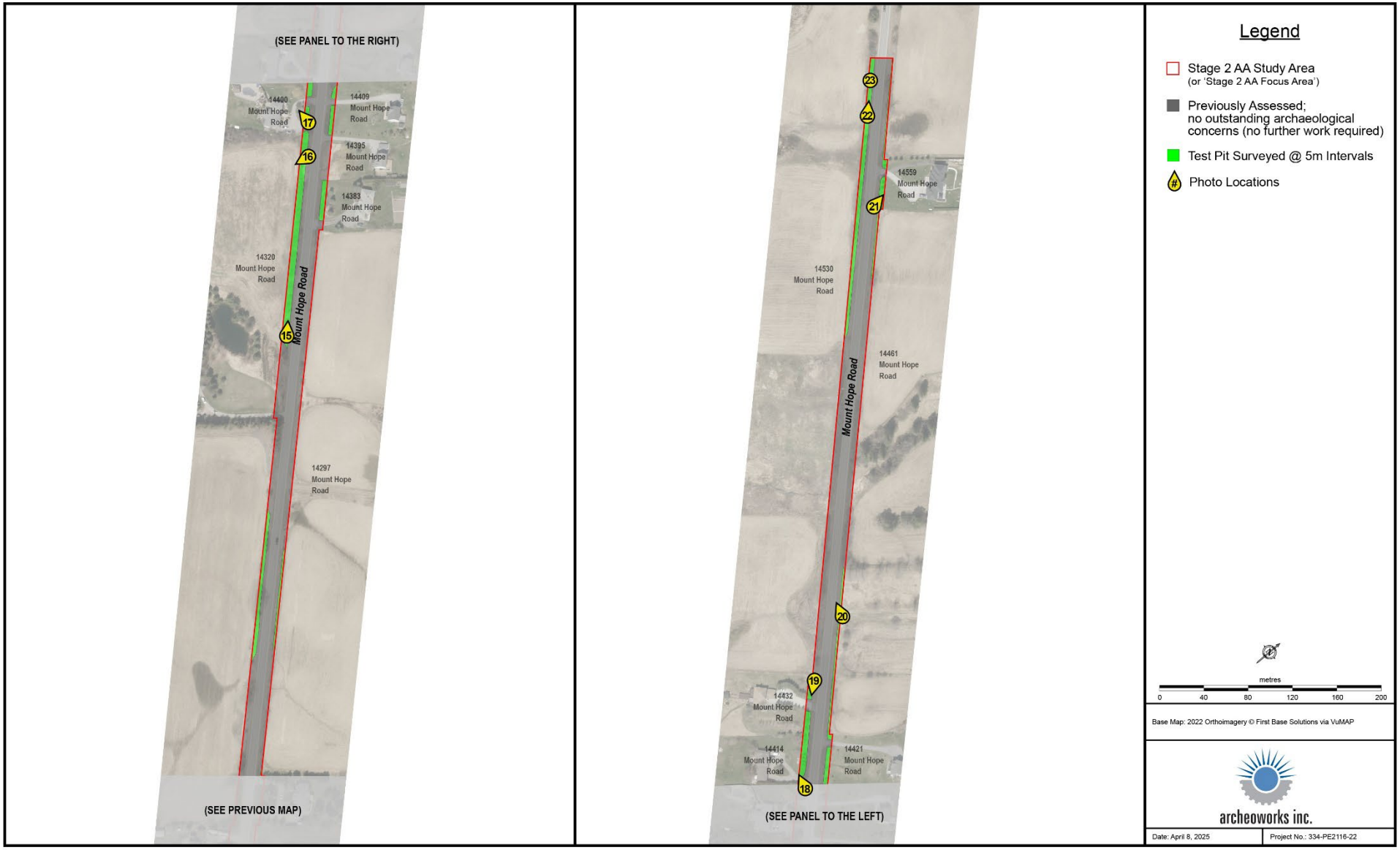
Map 16: Stage 2 AA results within 14475 Highway 50, with locations of photos taken during fieldwork. Note: A version of this map depicting the vicinity of H1 (AlGw-229) is included in the ***Supplementary Document***.



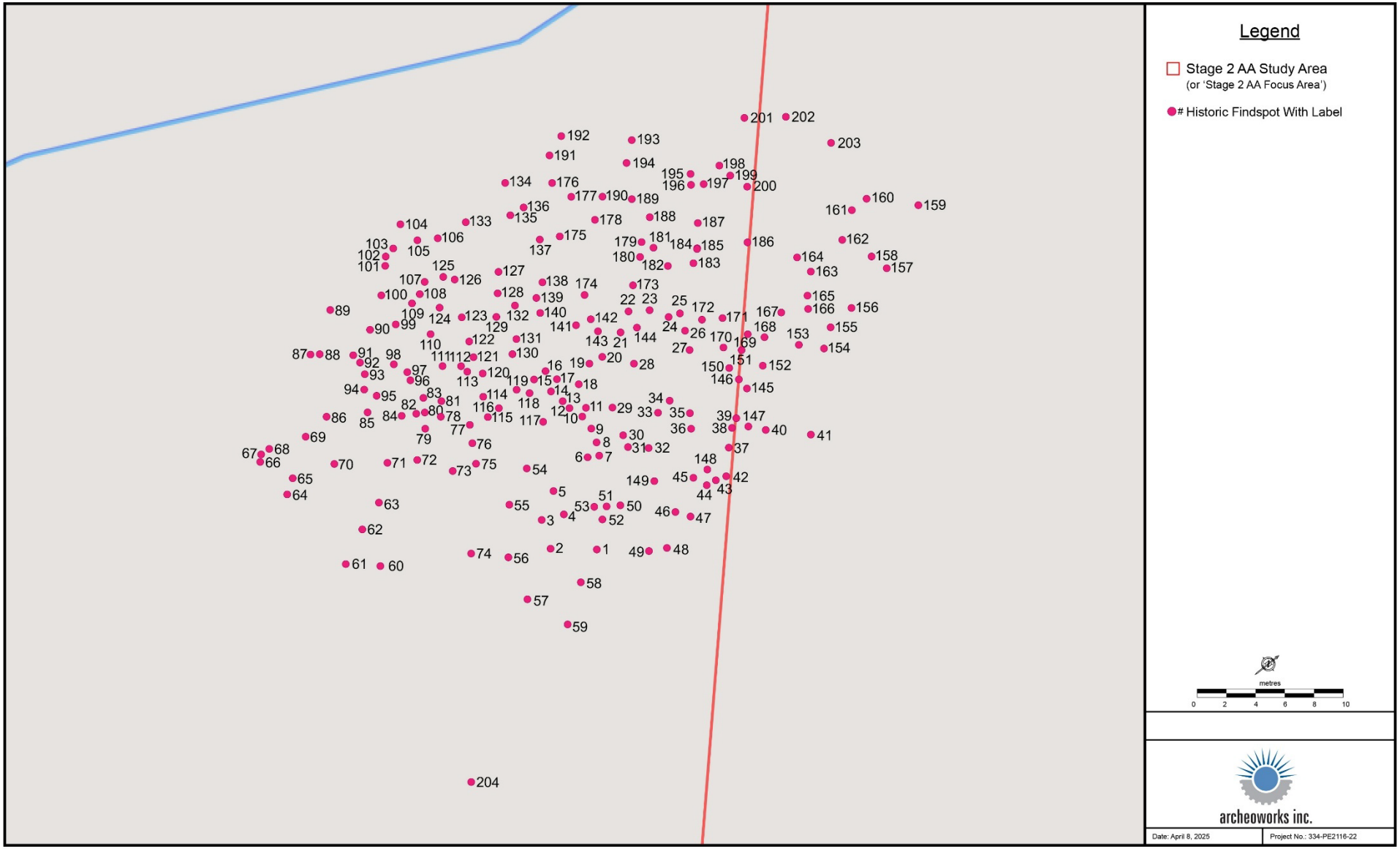
Map 17: Stage 2 AA results along Highway 50 and the western end of Columbia Way, with locations of photos taken during fieldwork.



Map 18: Stage 2 AA results along the eastern segment of Columbia Way and the southern end of Mount Hope Road, with locations of photos taken during fieldwork.



Map 19: Stage 2 AA results along the central and northern segments of Mount Hope Road, with locations of photos taken during fieldwork.



Map 20: Map showing the findspots within the H1 (AlGw-229) site.

APPENDIX B: TRADITIONAL ORAL HISTORY

Huron-Wendat Oral History

ANNEX

History of the Nation Huronne-Wendat

As an ancient people, traditionally, the Huron-Wendat, a great Iroquoian civilization of farmers and fishermen-hunter-gatherers and also the masters of trade and diplomacy, represented several thousand individuals. They lived in a territory stretching from the Gaspé Peninsula in the Gulf of Saint Lawrence and up along the Saint Lawrence Valley on both sides of the Saint Lawrence River all the way to the Great Lakes. Huronia, included in Wendake South, represents a part of the ancestral territory of the Huron-Wendat Nation in Ontario. It extends from Lake Nipissing in the North to Lake Ontario in the South and Île Perrot in the East to around Owend Sound in the West. This territory is today marked by several hundred archaeological sites, listed to date, testifying to this strong occupation of the territory by the Nation. It is an invaluable heritage for the Huron-Wendat Nation and the largest archaeological heritage related to a First Nation in Canada.

According to our own traditions and customs, the Huron-Wendat are intimately linked to the Saint Lawrence River and its estuary, which is the main route of its activities and way of life. The Huron-Wendat formed alliances and traded goods with other First Nations among the networks that stretched across the continent.

Today, the population of the Huron-Wendat Nation is composed of more than 4000 members distributed on-reserve and off-reserve.

The Huron-Wendat Nation band council (CNHW) is headquartered in Wendake, the oldest First Nations community in Canada, located on the outskirts of Quebec City (20 km north of the city) on the banks of the Saint Charles River. There is only one Huron-Wendat community, whose ancestral territory is called the Nionwentsïo, which translates to "our beautiful land" in the Wendat language.

The Huron-Wendat Nation is also the only authority that have the authority and rights to protect and take care of her ancestral sites in Wendake South.

Courtesy of R.Gaudreau-Couture, Huron-Wendat First Nation, per.comm., 21 June 2022.

Michi Saagiig (Mississauga Anishinaabeg) Oral History

Southern and Central Ontario – Michi Saagiig Historical Context



Official Background Released by Curve Lake First Nation

The traditional homelands of the Michi Saagiig (Mississauga Anishinaabeg) encompass a vast area of what is now known as southern Ontario. The Michi Saagiig are known as "the people of the big river mouths" and were also known as the "Salmon people" who occupied and fished the north shore of Lake Ontario where the various tributaries emptied into the lake. Their territories extended north into and beyond the Kawarthas as winter hunting grounds on which they would break off into smaller social groups for the season, hunting and trapping on these lands, then returning to the lakeshore in the spring for the summer months.

The Michi Saagiig were a highly mobile people, travelling vast distances to produce subsistence for their people. They were also known as the "Peacekeepers" among Indigenous nations. The Michi Saagiig homelands were located directly between two very powerful Confederacies: The Three Fires Confederacy to the north and the Haudenosaunee Confederacy to the south. The Michi Saagiig were the negotiators, the messengers, the diplomats, and they successfully mediated peace throughout this area of Ontario for countless generations.

Michi Saagiig oral histories speak to their people being in this area of Ontario for thousands of years. These stories recount the "Old Ones" who spoke an ancient Algonquian dialect. The histories explain that the current Ojibwa phonology is the 5th transformation of this language, demonstrating a linguistic connection that spans back into deep time. The Michi Saagiig of today are the descendants of the ancient peoples who lived in Ontario during the Archaic and Paleo-Indian periods. They are the original inhabitants of southern Ontario, and they are still here today.

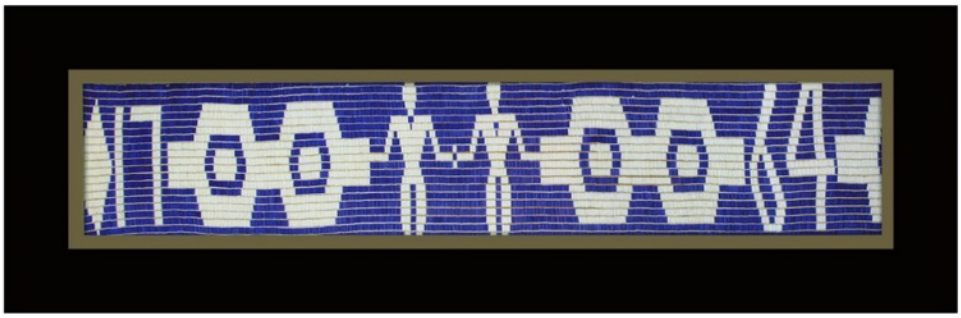
The traditional territories of the Michi Saagiig span from Gananoque in the east, all along the north shore of Lake Ontario, west to the north shore of Lake Erie at Long Point. The territory spreads as far north as the tributaries that flow into these lakes, from Bancroft and north of the Haliburton highlands. This also includes all the tributaries that flow from the height of land north of Toronto like the Oak Ridges Moraine, and all of the rivers that flow into Lake Ontario through Burlington Bay and the Niagara region including Welland and Niagara rivers, and beyond. The western side of the Michi Saagiig Nation was located around the Grand River which was used as a portage route.

Michi Saagiig oral histories also speak to the occurrence of peoples coming to the territory to establish villages and a corn growing economy between 800-1000 A.D. These newcomers included people that would later be known as the Huron-Wendat, Neutral, Petun, and Tobacco Nations. The Michi Saagiig made Treaties with these peoples and granted them permission to stay as visitors in these lands. Wampum was made to record these contracts and these contracts would be renewed annually (see Gitiga Migizi and Kapyrka 2015). The Odawa Nation worked with the Michi Saagiig to meet with the visitor Nations to continue the amical political and economic relationship that existed.

Problems arose for the Michi Saagiig in the 1600s when the European way of life was introduced into southern Ontario. At the same time the Haudenosaunee were given firearms by the colonial governments in New York and Albany which ultimately made an expansion possible for them in Michi Saagiig Territories. There began skirmishes with the various nations living in Ontario at that time. The Haudenosaunee engaged in fighting with the Huron-Wendat and between that and the onslaught of European diseases, the Iroquoian speaking peoples in Ontario were decimated.

The onset of colonial settlement and missionary involvement severely disrupted the original relationships between these Indigenous nations. Disease and warfare had a devastating impact upon the Indigenous peoples of Ontario. The Michi Saagiig were largely able to avoid the devastation caused by these processed by retreating to their wintering grounds to the north. Elder Gitiga Migizi: *"There is a misnomer that we came here after the Huron-Wendat left or were defeated, but that is not true. We are the traditional people, the ones that signed treaties with the Crown. We had peacemakers go to the Haudenosaunee and live amongst them. We are very important in terms of keeping the balance of relationships in harmony."*

The Michi Saagiig participated in eighteen treaties from 1781 to 1923 to allow the growing number of European settlers to establish in Ontario. Pressures from increased settlement forced the Michi Saagiig to slowly move into small family groups around the present day communities: Curve Lake First Nation, Hiawatha First Nation, Alderville First Nation, Scugog Island First Nation, New Credit First Nation, and Mississauga First Nation.



The Making of Canada

The Royal Proclamation of 1763 and Great Wampum (1764) are fundamental documents in Canada's legal history. The Royal Proclamation was not a unilateral declaration of the Crown's will in its provisions relating to First Nations, rather First Nations, in prayer, in ceremony, and over many days with many Elders, sang and crafted the Great Wampum because these documents are records and testimonies of the principles that were to guide the relationship between First Nations and the British Crown. The Great Wampum of Niagara and the Royal Proclamation are a treaty (an agreement) between First Nations and the Crown which stands as a positive guarantee of First Nation self-government as well as the mutual obligations of peace and friendship (no interference with rites and provision of support and resources) between Nations.

Transcripts of a meeting in July 1818 at Drummond Island in Lake Huron to the west of Manitoulin between Anishinaabeg peoples and representatives of the British Crown contain articulate references to the Treaty of Niagara. An account of the meeting is as follows:

The Chiefs, laying down a **broad Wampum Belt, made in 1764**; one made in 1786; and one marked Lieutenant M'Dowal, Commanding Michilimackinac, with the pipe of peace marked on it:

"Father (Crown), your children (First Nations) now seated round you, salute you sincerely, they intend to talk to you a great deal, and beg you will listen to them with patience, for they intend to open their hearts to you ..." Holding the Belt of 1764 in his hand he said, "Father, this my ancestors received from our Father, Sir W. Johnson. You sent word to all your red children to assemble at the crooked place (Niagara). They heard your voice - obeyed the message - and the next summer met you at the place. You then laid this belt on a mat, and said - 'Children, you must all touch this Belt of Peace. I touch it myself, that we may all be brethren united, and hope our friendship will never cease. I will call you my children; will send warmth (presents) to your country; and your families shall never be in want. Look towards the rising sun. My Nation is as brilliant as it is, and its word cannot be violated.' Father, your words were true - all you promised came to pass. On giving us the Belt of Peace, you said - 'If you should ever require my assistance, send this Belt, and my hand will be immediately stretched forth to assist you."

These were the founding agreements of Canada

Courtesy of Gitiga Migizi and Kapyrka, J. (2015). *Michi Saagiig Historical/Background Context*. [Online]. Available at: https://www.thelandbetween.ca/wp-content/uploads/2014/06/Mitchi-Saagii-Territory-history-and-the-Making-of-Canada.pdf [Accessed 22 November 2024].

APPENDIX C: ARCHIVAL DATA

Table C1: Abstract Index Books, ca.1798 -1900 – West Half of Lot 13, Concession 7, Township of Albion, County of Peel

No. of Instrument	Instrument	Its Date	Date of Registry	Grantor	Grantee	Quantity of Land	Consideration of Amount of Mortgage	Remarks
	Patent	5Jan1847		The Crown	William Morrison	100 acres		
28890	B&Sale	22Mar1847	25Mar1847	William Morrison	Henry Boulton	100 acres	£167.10/-	
1127	B&Sale	3Nov1873	19Dec1873	Henry Bolton, et ux	Henry Harper	100	$7,600	
1128	M.	3Nov1873	19Dec1873	Henry Harper, et ux	Henry Bolton	100	$6,800	
3582	D.M.	1Feb1886	4Feb1886	Henry Bolton	Henry Harper	100		1128
3583	M.	1Feb1886	4Feb1886	Henry Harper	Henry Bolton	100	$2,600	
3861	D.M.	23Mar1887	23Mar1887	Alexander McCort, et al	Henry Harper	100		3583
3862	M.	23Mar1887	23Mar1887	Henry Harper	Alexander McCort, et al	100	$2,000	
3940	B&Sale	25Jun1887	14Nov1887	Henry Harper, et ux	Alfred T. Harper	50	$1	conditions & c.
4343	M.	8Feb1890	12Feb1890	Henry Harper, et al	Corp'n Tp. Toronto Gore	100	$1,200	
4344	D.M.	8Feb1890	12Feb1890	Alexander McCort, et al	Henry Harper	100		3862
6956	A.M.	7May1894	9Jul1894	Corp. Tp. Toronto Gore	Hellen Mitchell	100	$1,293.50	
7073	Caution	6Mar1895	18Mar1895	Jane Harper	Hy. Harper Estate	N½ of W½ 50		
7074	Q.C.	10Jan1894	18Mar1895	Esther Ann Watson, et al	Jane Harper	N½ 50		& O.L.
7075	Q.C.	10Jan1894	18Mar1895	Alfred Thos. Harper, et al	Jane Harper	N½ 50	$1.00	& O.L.
7081	D.M.	15Mar1895	25Mar1895	Hellen Mitchell	Alfred Thos. Harper	W½ 100		4343
7082	B&Sale	16Mar1895	25Mar1895	Jane Harper, admin Henry Harper Estate	Alfred Thos. Harper	N½ of W½ 50	$1,900	approved official guardian
7085	M.	26Mar1895	28Mar1895	Alfred Thos. Harper, et ux	Helen Mitchell	W½ 100	$1,700	reg. in full
7645	D.M.	28Jan1899	7Feb1899	James Mitchell & John Mitchell, executors of Helen Mitchell, deceased	Alfred Thos. Harper	W½ 100		7085

No. of Instrument	Instrument	Its Date	Date of Registry	Grantor	Grantee	Quantity of Land	Consideration of Amount of Mortgage	Remarks
15546	Grant	10June1949	8Aug1949	James A. Harper & Henry R. Harper	Westney Watson		$2.00	Part W½ Treas. Consent for Alfred T. Harper Estate attached. Comg in W limit 410'N of SW L (said point being 183'6" S of a point in W limit on a line drawn parallel to S limit through Dept of highway monument). Thence N348'6" x E 143' x S 348'6" x 143' to p.ofc. except Wly 18' for highway
15547	M.	6July1949	8Aug1949	Westney Watson, et ux	Leonard M. Bowes		$3,000	Part W½. As in No. 15546
15603	A.M.	16Nov1949	22Nov1949	Leonard M. Bowes	Howard T. McCort		$2,000	assigning no.15547
15688	Notice of Expropriation	24Apr1950	31May1950	Dept. of Highways	Henry R. Harper & James A. Harper	0.805		at al & O.L. required for public purposes of Ontario
15691	Agreet	23May1950	1June1950	Westney Watson	Superior Petroleum Corp. Limited		$2.00 & c.	Part W½ as in No.15546

Table C2: Tax Assessment and Collector's Rolls, 1866 -1899 – All of Lot 13, Concession 7, Township of Albion, County of Peel.
** Relevant entries are in italics*

Year	Occupants	Occupation	f/h/t	Age	Owner and Address	No. of Acres	No. of Acres Cleared	Total Value of Real Property	Total Value of Real and Personal Property	Remarks
1865	John Beaty	farmer	f	28		100		$2,000	$2,000	E½
1866	*Henry Bolton*	*farmer*	*f*	*52*		*100*		*$2,000*	*$2,200*	*W½*
	John Beatty	farmer	f	30		100		$2,000	$2,000	E½
1868	George Beatty	owner	f			100	75	$2,000	$2,000	E½: 2 in family: 2horses
	David Noble	farmer	t	35						
	Henry Bolton	*farmer*	*f*	*56*		*100*	*80*	*$2,000*	*$2,200*	*W½: 5 in family: 10cows;16sheep; 3hogs;3horses*
1869	*Henry Bolton*	*farmer*	*f*	*57*		*100*	*80*	*$2,000*	*$2,300*	*W½: 5 in family: E: 10cows;15sheep; 5hogs;4horses*
	George Beatty	owner	f							
	David Noble	farmer	t	43		100	75	$1,800	$1,800	E½: 4 in family: E: 6cows;9sheep;4 hogs;2horses
1870	*Henry Bolton*	*farmer*	*fh*	*56*		*100*	*65*	*$2,000*	*$2,200*	*W½: 5 in family: E: 6cows;10sheep;6 hogs;2horses*
	David Noble		th	43		100	75	$1,800	$1,900	E½: 4 in family: WM: 3cows;4sheep;1 hog;2horses
	George Beatty		f							
1871	George Beatty	owner	f							
	David Noble	farmer	th	40		100	80	$1,800	$1,900	E½: 4 in family: WM: 1cow;2horses

Year	Occupants	Occupation	f/h/t	Age	Owner and Address	No. of Acres	No. of Acres Cleared	Total Value of Real Property	Total Value of Real and Personal Property	Remarks
	No Ward 3									
1874	Joseph Scott	farmer	fh	55		100	80	$1,800	$1,800	E½: 8 in family: EC: 4cows;1hog;2horses
	No Ward 3									
1875	*Henry Bolton*	*gentleman*	*t*	*52*	*Henry Harper*	*2*	*2*	*$100*	*$100*	*West Pt*
	James Linn	farmer	th	28	Henry Harper	50	48	$900	$900	SW¼: 2 in family: WM
	Joseph Scott	farmer	fh	55		100	80	$1,800	$1,800	E½: 8 in family: EC: 3cows;4sheep;3hogs;2horses
	Henry E. Harper	farmer	fh	42		100	90	$1,900		E½ of Lot 13, Concession 6
			f			50	45	$850		E½ of E½ of Lot 14, Concession 6
			f			*48*	*40*	*$850*	*$3,850*	*NW¼: 11 in family: WM: 12cows;11sheep; 1hog;5horses*
1876	Joseph Scott	farmer	f	57		100	80	$2,000	$2,000	E½: EC: 4cows;4sheep;5hogs;2horses
	No Ward 3									
1877	Hiram Scott	farmers son	oc	21						
	Joseph Scott	farmers son	oc	23						
	Joseph Scott	farmer	f			100	80	$2,700	$2,800	E½: 7 in family: EC: 3cows;7sheep;2hogs;2horses
	No Ward 3									
1879	*Henry Harper*	farmer	fh	48		100	90	$3,100		E½ of Lot 13, Concession 6

Year	Occupants	Occupation	f/h/t	Age	Owner and Address	No. of Acres	No. of Acres Cleared	Total Value of Real Property	Total Value of Real and Personal Property	Remarks
			f			50	45	$1,100		E½ of E½ of Lot 14, Concession 6
			f			*100*	*90*	*$3,000*	*$7,500*	*W½: 13 in family: WM: 12cows;19sheep; 2hogs;6horses*
	Joseph Scott	f	f	60		100	80	$2,700	$2,800	E½: 6 in family: Presby:5cows;10 sheep;3hogs; 3horses
	Joseph A. Scott		fs	21						
1881	*Henry Harper*	farmer	fh	50		100	90	$3,000		E½ of Lot 13, Concession 6
			f			50	45	$1,400		E½ of E½ of Lot 14, Concession 6
			f			*100*	*90*	*$3,000*	*$7,700*	*W½: 14 in family: WM: 12cows;20sheep; 1hog;7horses*
	No Ward 5									
1883	*No Ward 3*									
	Joseph A. Scott	farmer	t	24	Joseph Scott; Castlederg	100	80	$2,700	$2,900	E½: 7 in family: CM: 4cows;5sheep;1 hog;4horses
	Samuel Scott	farmer	t	22						
1884	*Henry Harper*	farmer	fh	53		100	90	$3,000		E½ of Lot 13, Concession 6
			f			50	45	$1,400		E½ of E½ of Lot 14, Concession 6
			f			*100*	*90*	*$3,000*	*$7,400*	*W½: 14 in family: M: 25cows;18sheep; 1hog;6horses*
	Joseph A. Scott	farmer	t	24	Joseph Scott; Castlederg	100	80	$2,700	$2,900	E½: 7 in family: M:

Year	Occupants	Occupation	f/h/t	Age	Owner and Address	No. of Acres	No. of Acres Cleared	Total Value of Real Property	Total Value of Real and Personal Property	Remarks
										4cows;6sheep;1 hog
	Samuel Scott	farmer	t	22						
1885	*Henry Harper*	farmer	fh	54		100	100	$3,000		E½ of Lot 13, Concession 6: built on (b)
			f			50	45	$1,000		E½ of E½ of Lot 14, Concession 6: vacant (v)
			f			*100*	*90*	*$3,000*	*$7,400*	*W½: built on (b): 15 in family: M: 30cows;17sheep; 2hogs;6horses*
	No Ward 5									
1887	*Henry Harper*	farmer	fh	54	Albion	100	100	$3,000		E½ of Lot 13, Concession 6: built on (b)
			f			50	45	$1,100		E½ of E½ of Lot 14, Concession 6: vacant (v)
			f			*100*	*100*	*$3,000*	*$7,400*	*W½: built on (b): 13 in family: M: 20cows;18sheep; 2hogs;6horses*
	Joseph A. Scott	farmer	t	27						
	Samuel Scott	farmer	t	26	Joseph Scott; Castlederg	100	80	$2,700	$2,900	E½: 5 in family: M: 4cows;6sheep;1 hog;4horses
	David H. Scott	farmer	t	21						
1889	Alfred Thos. Harper		f	31	Albion	50	50	$1,500	$1,500	SW¼: built on: 2 in family: M: 2cows;1hog;2horses

Year	Occupants	Occupation	f/h/t	Age	Owner and Address	No. of Acres	No. of Acres Cleared	Total Value of Real Property	Total Value of Real and Personal Property	Remarks
	Henry Harper	farmer	f	58	Albion	100	100	$3,100		E½ of Lot 13, Concession 6: built on (b)
			f			50	45	$1,500		E½ of E½ of Lot 14, Concession 6: vacant (v)
			f			*50*	*50*	*$1,150*	*$5,750*	*NW¼: vacant(v): 12 in family: M: 19cows;3hogs;6horses*
	Joseph A. Scott	farmer	t	29						
	Samuel Scott	farmer	t	28	Joseph Scott; Castlederg	100	80	$2,700	$2,900	E½: 6 in family: M: 6cows;5sheep;1 hog;4horses
	David H. Scott	farmer	t	23						
1891	Henry Harper	farmer	f	60		100	100	$3,100		E½ of Lot 13, Concession 6: built on (b): 11 in family: M: 10cows;11sheep; 2hogs;8horses
	Fred. C. Harper	*farmer*	*fs*	*23*		*50*	*50*	*$1,500*		*NW¼: vacant(v)*
	Joseph Scott Sr.	farmer	f	72	Coventry	100	80	$2,700	$2,700	E½: 5 in family: M: 6cows;9sheep;1 hog;4horses
	Joseph A. Scott	farmer son	t	31	Coventry					
	Samuel Scott	farmer son	t	30	Coventry					
	David H. Scott	farmer son	t	25	Coventry					
1893	Henry Harper	farmer	f	79	Bolton	100	100		$5,500	on W½ of Lot 13, Concession 6: built on (b): 12 in family: M: 11cows;6sheep;3 hogs;6horses

Year	Occupants	Occupation	f/h/t	Age	Owner and Address	No. of Acres	No. of Acres Cleared	Total Value of Real Property	Total Value of Real and Personal Property	Remarks
	Fred. C. Harper	*farmer*	*fs*	*25*	*Bolton*	*50*	*50*	*$1,450*		*NW¼: vacant(v)*
	Alfred Thos. Harper	farmer	fh	34		50	50		$1,450	SW¼: built on (b): 2 in family: Pres: 6cows;8sheep; 1hog;3horses
	Joseph Scott Sr.	farmer	f	74	Castlederg	100	80	$2,700	$5,300	on Lot 12, Concession 7 valued at $2,600
	Joseph A. Scott	farmer son	t	33	Castlederg					
	Samuel Scott	farmer son	t	32	Castlederg					E½: 6 in family: M: 7cows;10sheep;2 hog;4horses
1895	*No ward 3*									
	Joseph Scott Sr.	farmer	f	76	Castlederg	100	80	$2,700	$5,300	on Lot 12, Concession 7 valued at $2,600
	Joseph A. Scott	farmer son	t	36	Castlederg					
	Samuel Scott	farmer son	t	34	Castlederg					E½: 6 in family: M: 8cows;9sheep;4 hogs;4horses
1897	*Alfred Thos. Harper*	*farmer*	*fh*	*38*	*Bolton*	*100*		*$2,600*	*$2,600*	*W½: built on (b): 5 in family: Pres: 10cows;1hog;4 horses*
	Joseph Scott Sr.	farmer	f	78	Castlederg	100	92	$2,700	$5,300	E½: 8 in family: M: 9cows;9sheep; 4hog;8horses: also freeholder of L12C7

Year	Occupants	Occupation	f/h/t	Age	Owner and Address	No. of Acres	No. of Acres Cleared	Total Value of Real Property	Total Value of Real and Personal Property	Remarks
										valued at $2,600
1899	*Alfred Thos. Harper*	*farmer*	*fh*	*40*	*Bolton*	*100*		*$2,600*	*$2,600*	*W½: built on (b): 5 in family: Pres: 12cows;5hosg; 4horses*
	Joseph Scott Sr.	farmer	f	78	Castlederg	100	92	$2,600	$5,000	E½: 5 in family: M: 5cows;6sheep; 3hog;4horses: also freeholder of L12C7 valued at $2,500

APPENDIX D: DEVELOPMENT STATUSES OF ARCHAEOLOGICAL SITES

Table D1: Development Statuses of Registered Archaeological Sites Within and Immediately Adjacent to the Study Area[4]

Borden #	Site Name	Time Period	Site Type	Affinities	Development Status	PIF Number(s) of Most Recent Relevant Report(s)
Archaeological Sites within the Study Area Limits						
AlGw-171	Goodfellow	Post-Contact	Unknown	Euro-Canadian	No Further CHVI	P303-159-2011
AlGw-172	Harper	Pre-Contact; Post-Contact	-	Indigenous; Euro-Canadian	Further CHVI[5]	P390-0067-2013
Other Archaeological Sites within 50 m of Study Area Limits						
AlGw-15	-	Pre-Contact	-	Indigenous	No Further CHVI[6]	P303-004-2008
AlGw-16	-	Pre-Contact	-	Indigenous	No Further CHVI[7]	P303-004-2008
AlGw-44	Swinarton	Early Archaic; Middle Archaic	Findspot; findspot	Indigenous	No Further CHVI	(ASI, 1991; Licensee: Ronald Williamson [1990-021])
AlGw-135	-	Pre-Contact	Unknown	Indigenous	Further CHVI	P303-004-2008
AlGw-137	-	Post-Contact	Unknown	Euro-Canadian	Further CHVI	P303-004-2008
AlGw-218	H6	Post-Contact	Homestead	Euro-Canadian	Further CHVI	P029-1073-2022

[4] Note: only sites lying within and immediately adjacent to the study area limits are included in this table.
[5] Portion of the site which extends beyond the Stage 4-mitigated area will require further archaeological assessment.
[6] Most recent Stage 1-2 AA of the property on which the site is situated (PIF# P303-004-2008) has not resulted in the recovery of more artifacts related to the site.
[7] Most recent Stage 1-2 AA of the property on which the site is situated (PIF# P303-004-2008) has not resulted in the recovery of more artifacts related to the site.

APPENDIX E: IMAGES



Image 1: Test pit survey at 5-m intervals along the north side of the Emil Kolb Parkway/RR 150 ROW.



Image 2: Test pit survey at 5-m intervals along the north side of the Emil Kolb Parkway/RR 150 ROW.



Image 3: Test pit survey at 5-m intervals along the north side of the Emil Kolb Parkway/RR 150 ROW.



Image 4: Test pit survey at 5-m intervals along the north side of the Emil Kolb Parkway/RR 150 ROW.



Image 5: Test pit survey at 5-m intervals along the north side of the Emil Kolb Parkway/RR 150 ROW.



Image 6: Close-up view of typical test pit profile within area along north side of RR 150, showing single layer of topsoil over subsoil.



Image 7: Test pit survey at 5-m intervals along the west side of the Highway 50 ROW.



Image 8: Test pit survey at 5-m intervals along the east side of the Highway 50 ROW.



Image 9: Test pit survey at 5-m intervals along the east side of the Highway 50 ROW.



Image 10: Test pit survey at 5-m intervals along the west side of the Highway 50 ROW.



Image 11: Test pit survey at 5-m intervals along the west side of the Highway 50 ROW.



Image 12: Test pit survey at 5-m intervals along the west side of the Highway 50 ROW.



Image 13: Test pit survey at 5-m intervals along the west side of the Mount Hope Road ROW.



Image 14: Test pit survey at 5-m intervals on both sides of the Mount Hope Road ROW.



Image 15: Test pit survey at 5-m intervals along the west side of the Mount Hope Road ROW.



Image 16: Test pit survey at 5-m intervals along the west side of the Mount Hope Road ROW.



Image 17: Test pit survey at 5-m intervals along the west side of the Mount Hope Road ROW.



Image 18: Test pit survey at 5-m intervals along the west side of the Mount Hope Road ROW.



Image 19: Test pit survey at 5-m intervals along the west side of the Mount Hope Road ROW.



Image 20: Test pit survey at 5-m intervals along the east side of the Mount Hope Road ROW.



Image 21: Test pit survey at 5-m intervals along the east side of the Mount Hope Road ROW.



Image 22: Test pit survey at 5-m intervals along the west side of the Mount Hope Road ROW.



Image 23: Close-up view of typical test pit profile along the Mount Hope Road ROW, showing single layer of topsoil over subsoil.



Image 24: Test pit survey at 5-m intervals along with 14475 Highway 50.



Image 25: View of excellent field conditions encountered during pedestrian survey at 5m intervals.



Image 26: View of excellent field conditions encountered during pedestrian survey at 5m intervals



Image 27: View of pedestrian survey conducted at 5m intervals.



Image 28: View of intensification survey conducted at the H1 (AlGw-229) site.



Image 29: Representative sample of Foodways artifacts. Top Row: RWE edged scalloped impressed, IRO edged unscalloped, RWE polychrome hand painted late palette peasant, RWE sponged dense, RWE sponged loose, VWE stamped. Middle Row: RWE slipware. Bottom Row: VEW moulded, IRO moulded, IRO banded

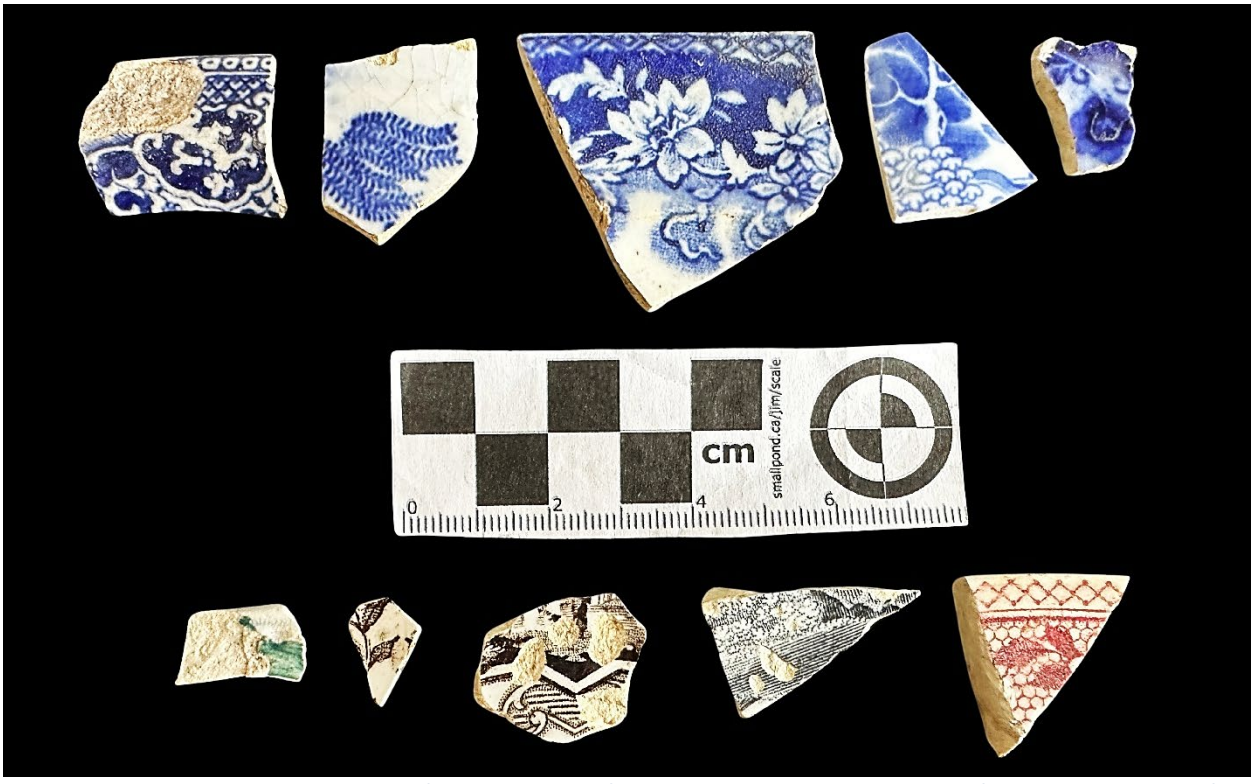


Image 30: Representative sample of Foodways artifacts. Top Row: RWE blue transfer, RWE blue transfer willow, IRO blue transfer, VWE blue transfer willow, IRO flow blue. Bottom Row: RWE green transfer, RWE brown transfer, IRO brown transfer, IRO black transfer, VWE red transfer



Image 31: Representative sample of Architectural, Clothing, Foodways and Smoking artifacts. Top Row: Prosser button, tooled finish. Middle Row: cut nail. Bottom Row: plain white clay pipe bowl, plain white clay pipe stem, Henderson's Montreal white clay pipe stem, mould blown bottle finish.

APPENDIX F: ENGINEERING DRAWINGS SHOWING DEPTH OF CONSTRUCTION

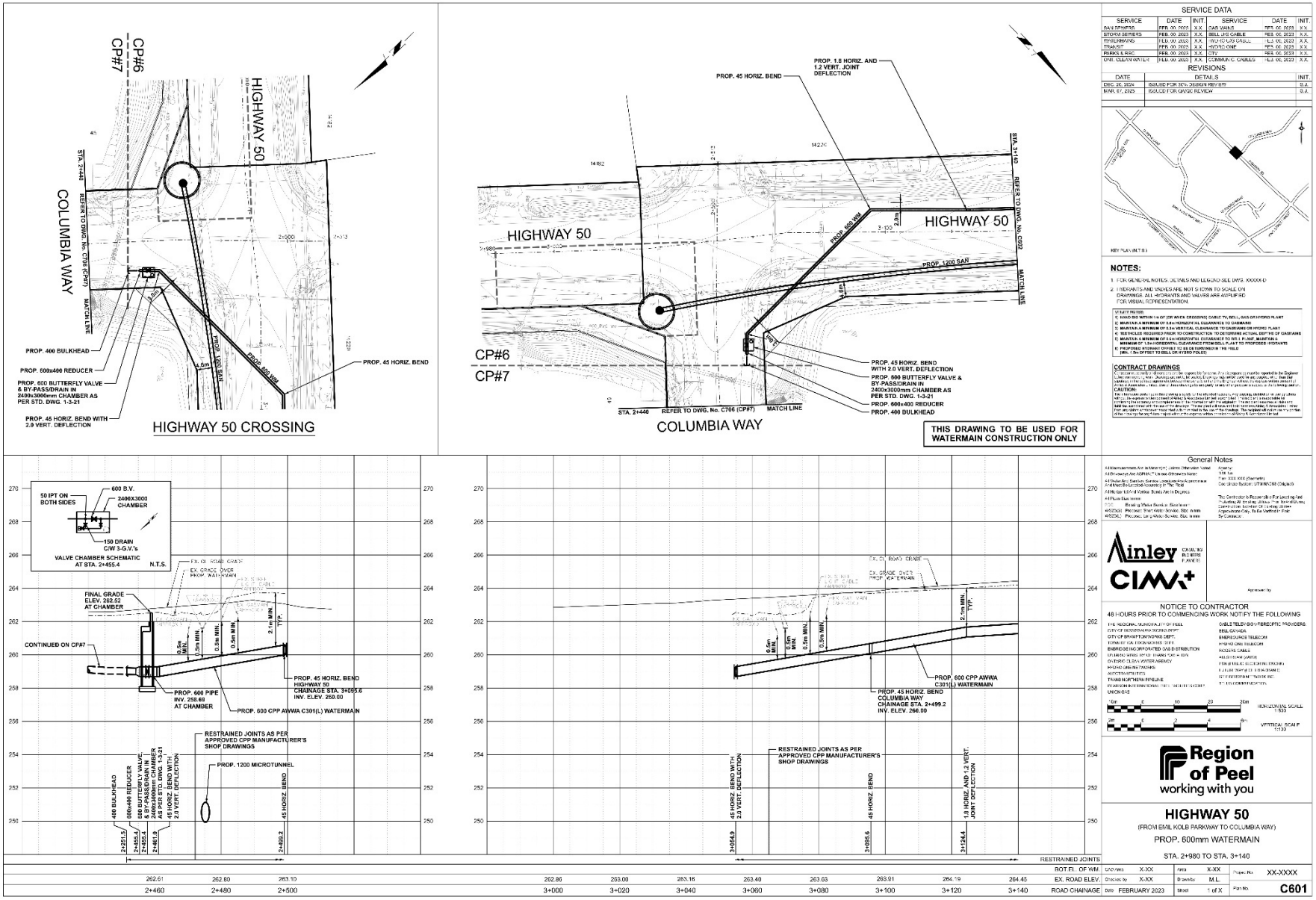


Figure 1: Map showing the depth of value chamber and 600mm watermain at Columbia Way and Highway 50.

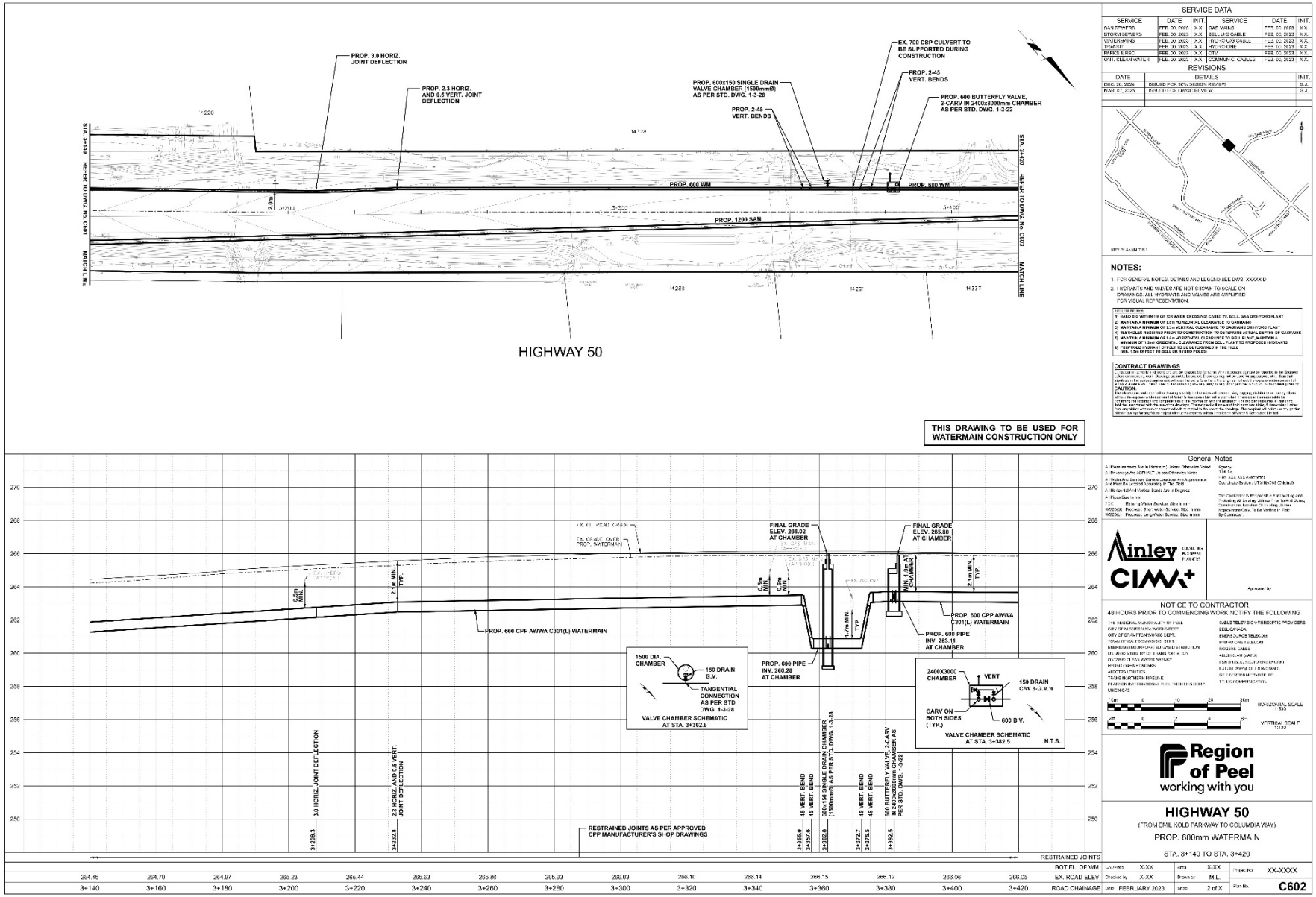


Figure 21: Map showing the depth of value chamber and 600mm watermain along Highway 50.

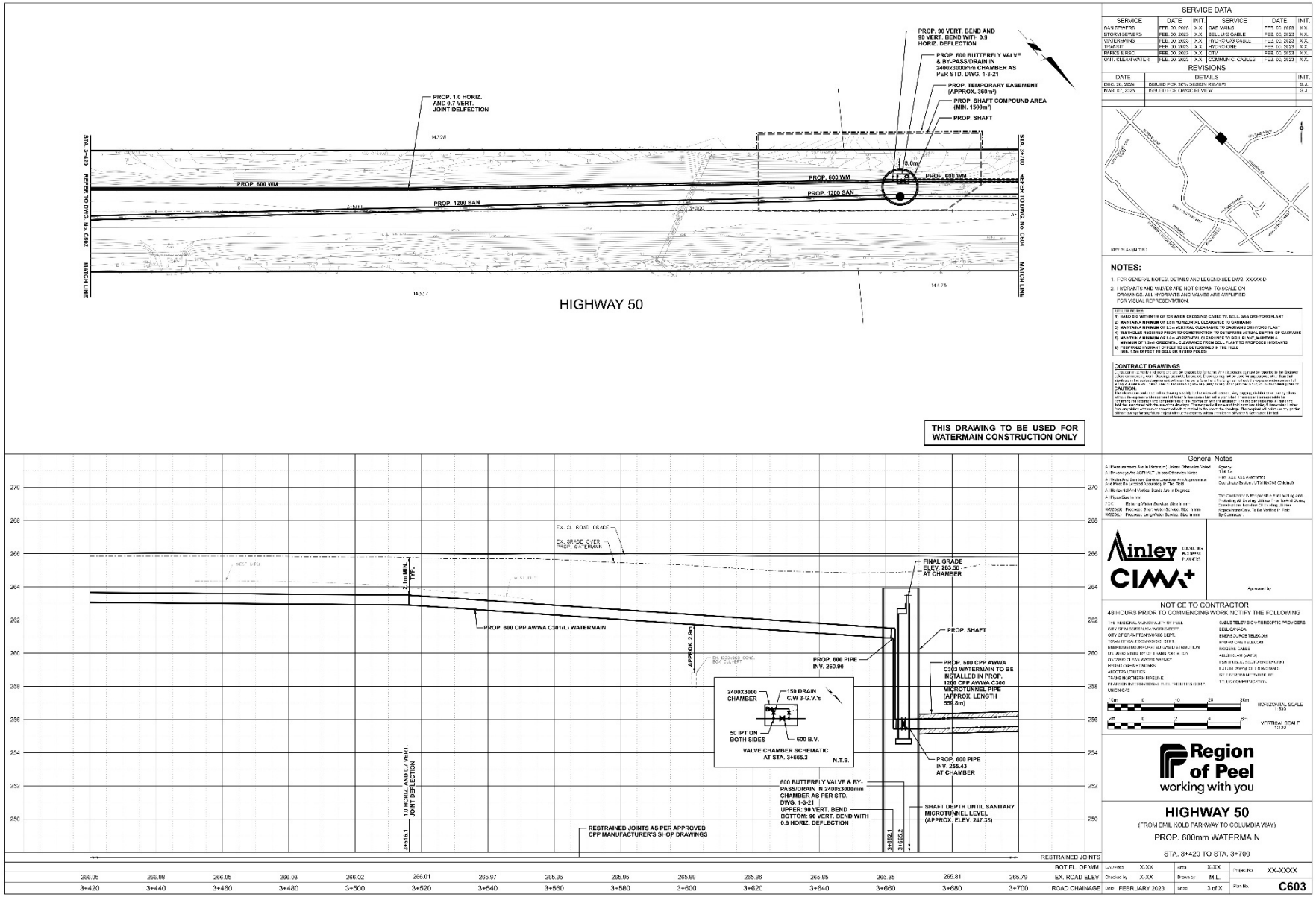


Figure 22: Map showing the depth of 600mm watermain and butterfly valve.

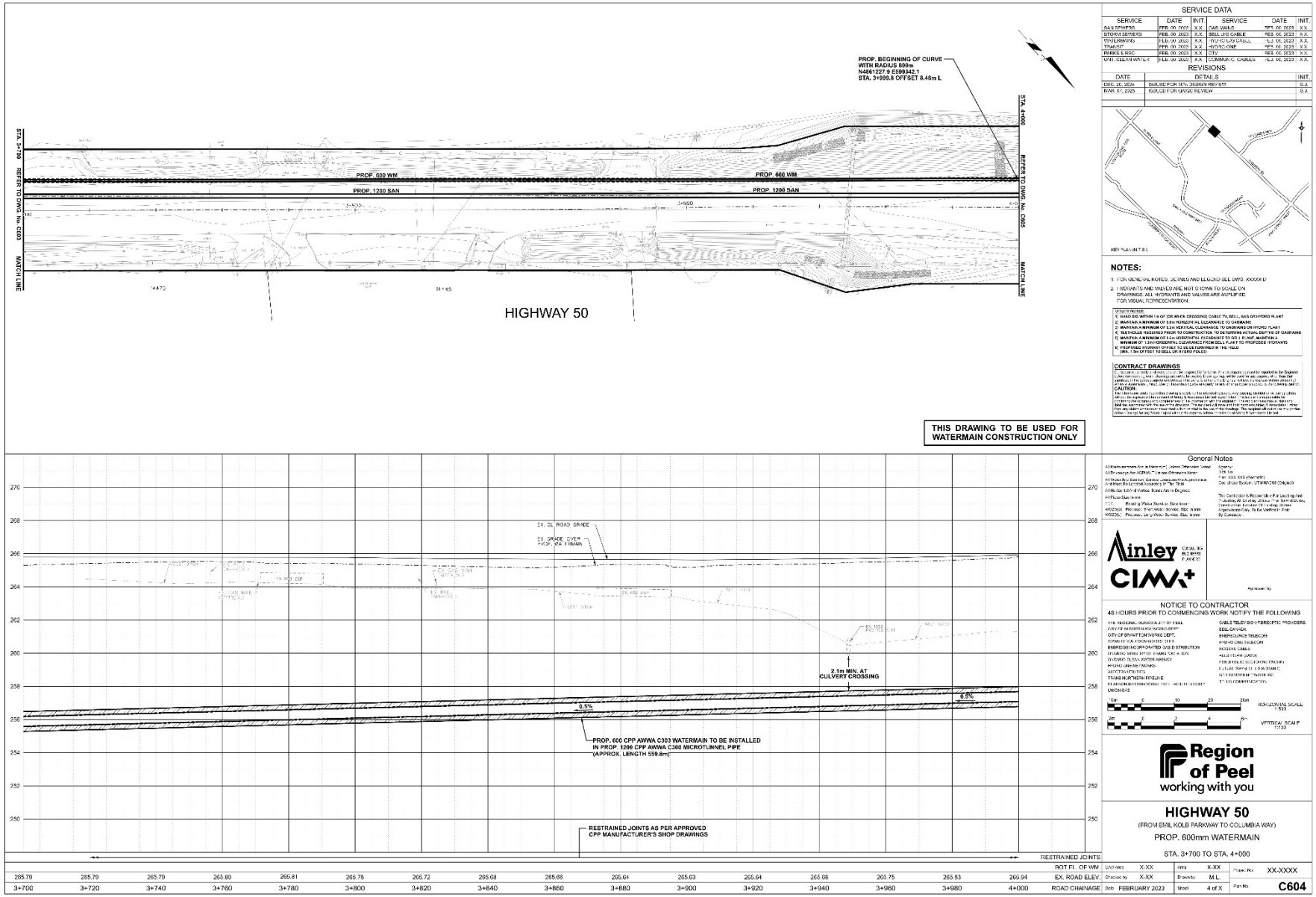


Figure 4: Map showing the depth of 1200mm sanitary sewer and 600mm watermain.

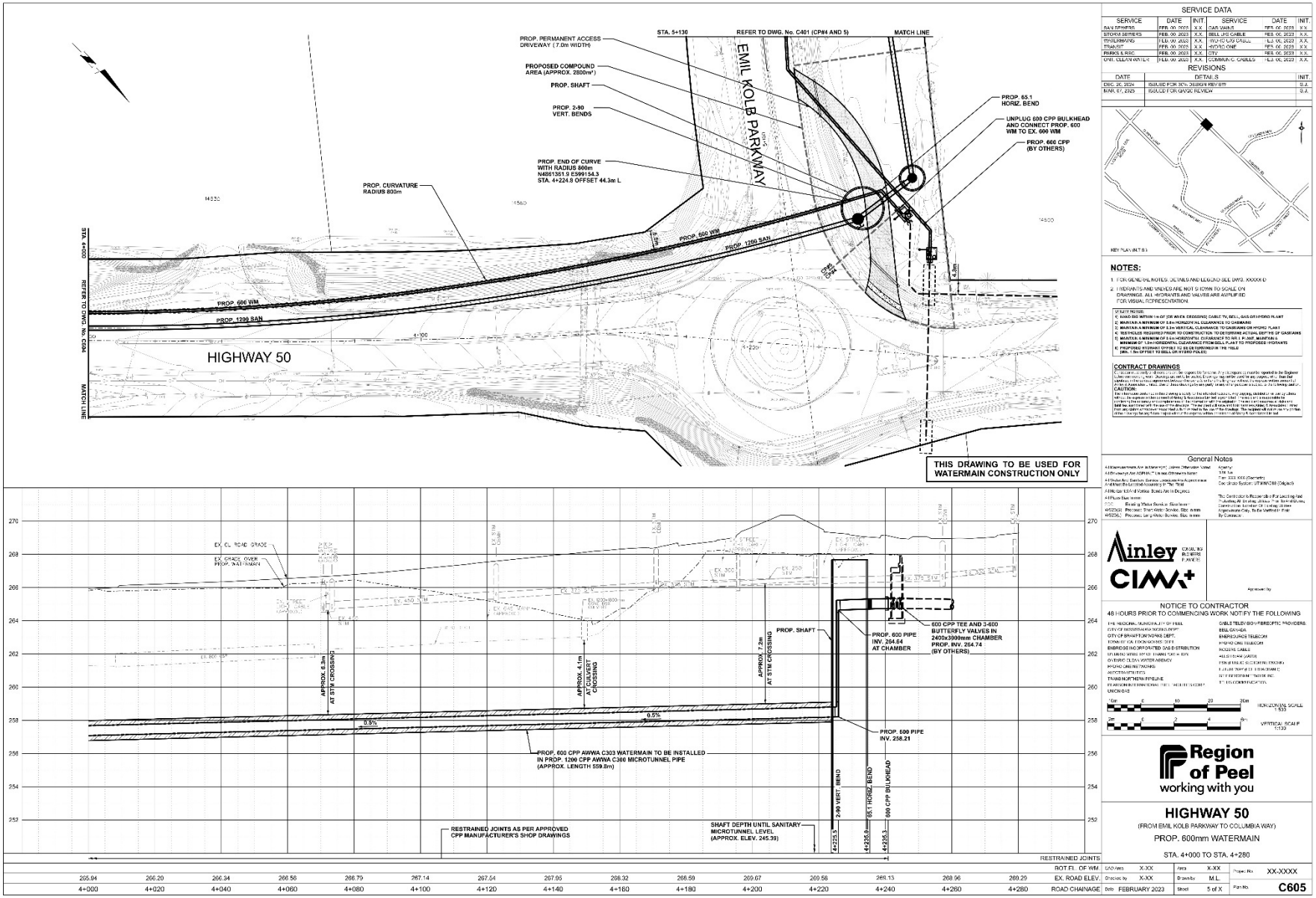


Figure 5: Map showing the depth and location of 1200mm sanitary sewer and 600mm watermain compound chamber in proximity to the H1 (AlGw-229) and Harper Site (AlGw-172).

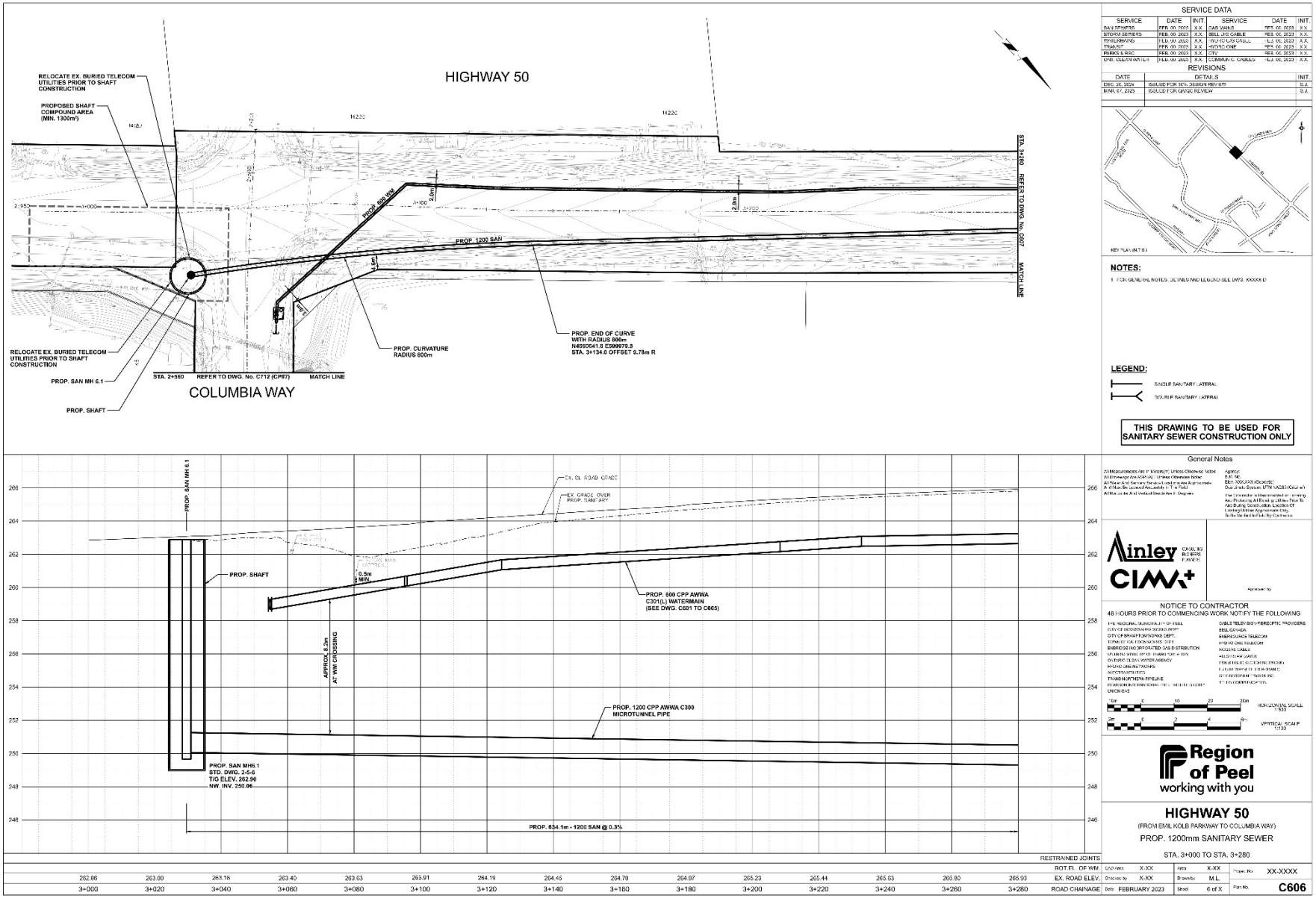


Figure 6: Map showing the depth of access shaft and 1200mm sanitary sewer.

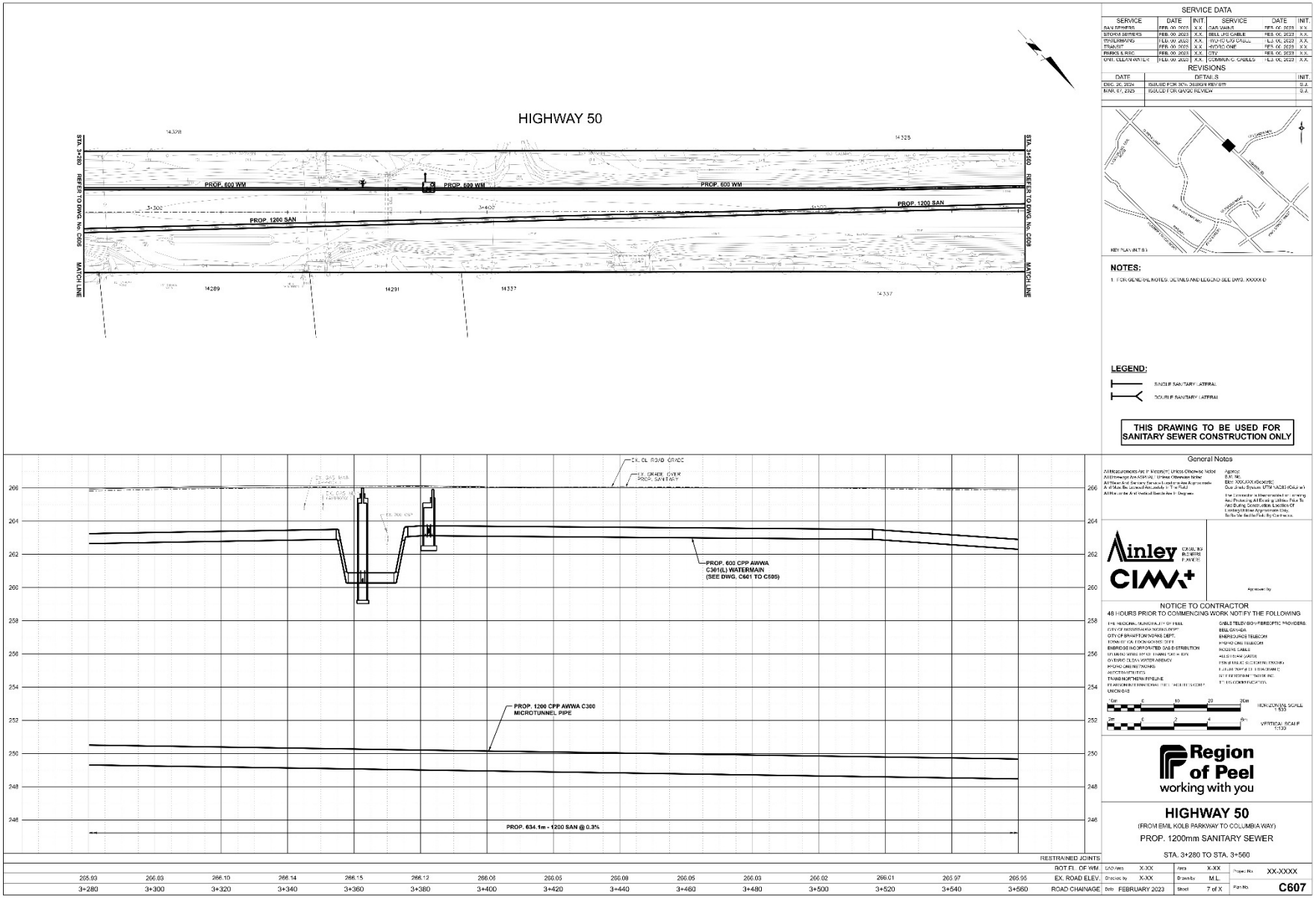


Figure 7: Map showing the depth of manhole access and 1200mm sanitary sewer.

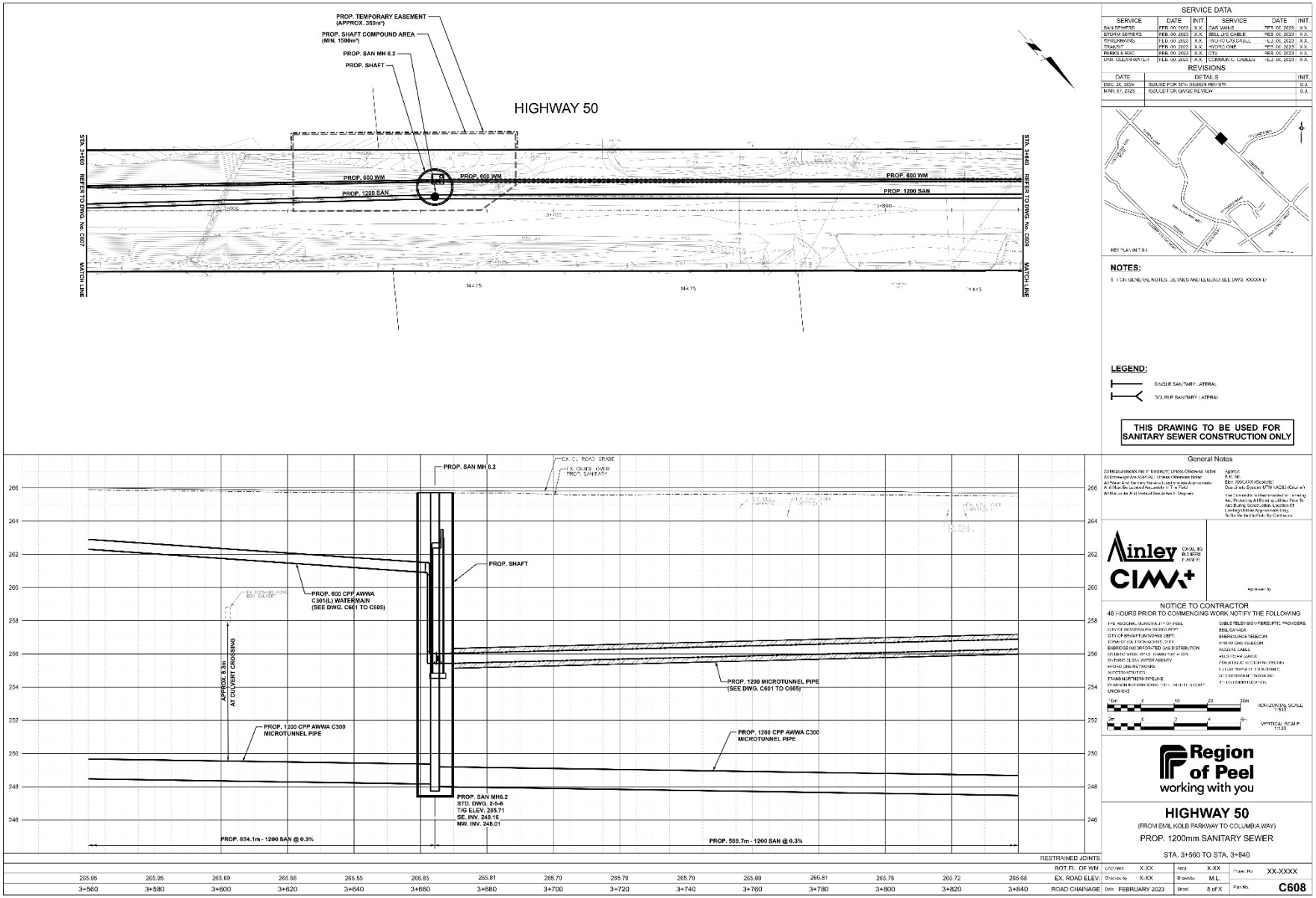


Figure 8: Map showing the depth of proposed shaft and 1200mm sanitary sewer.

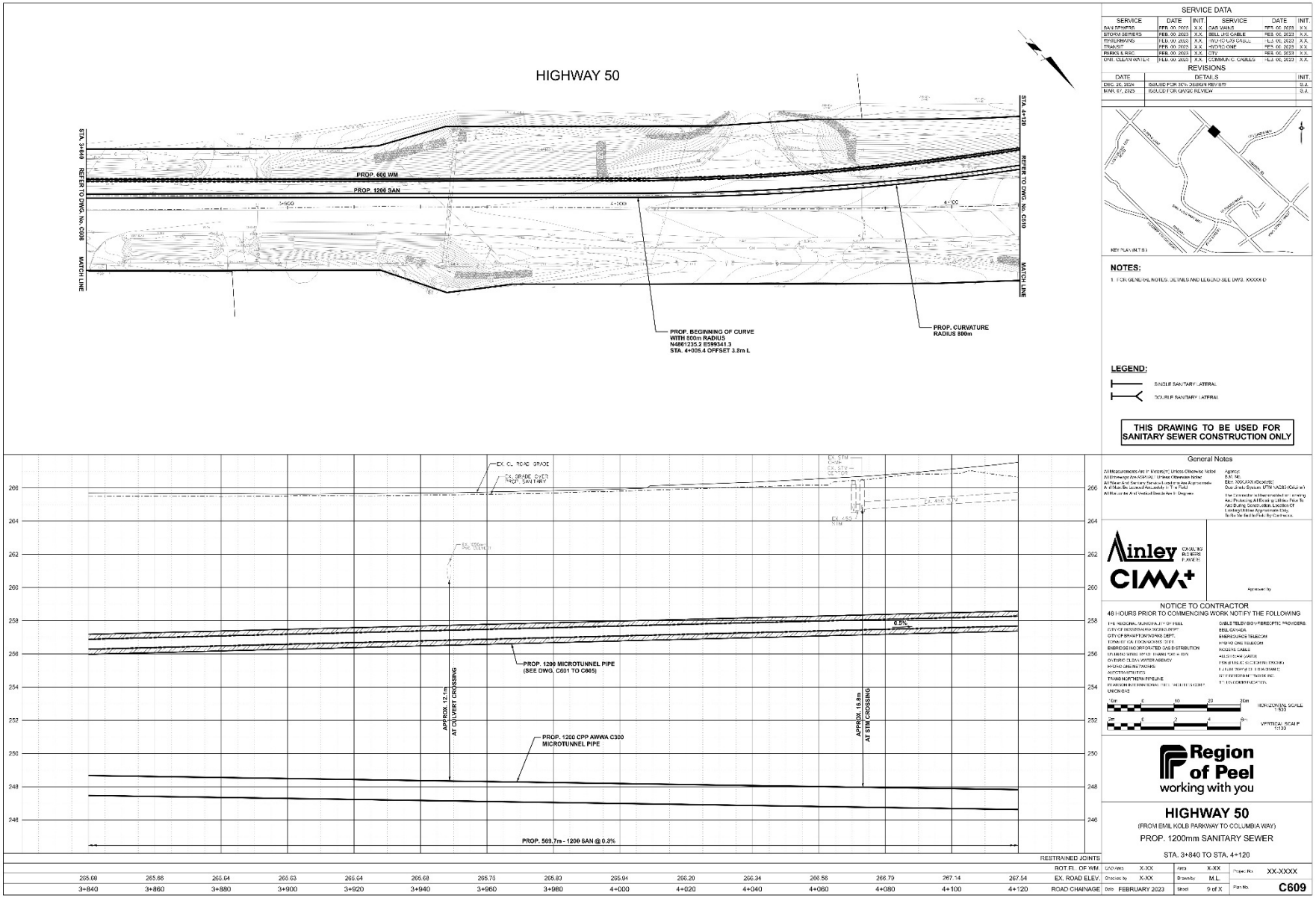


Figure 9: Map showing the depth of proposed 1200mm sanitary sewer.

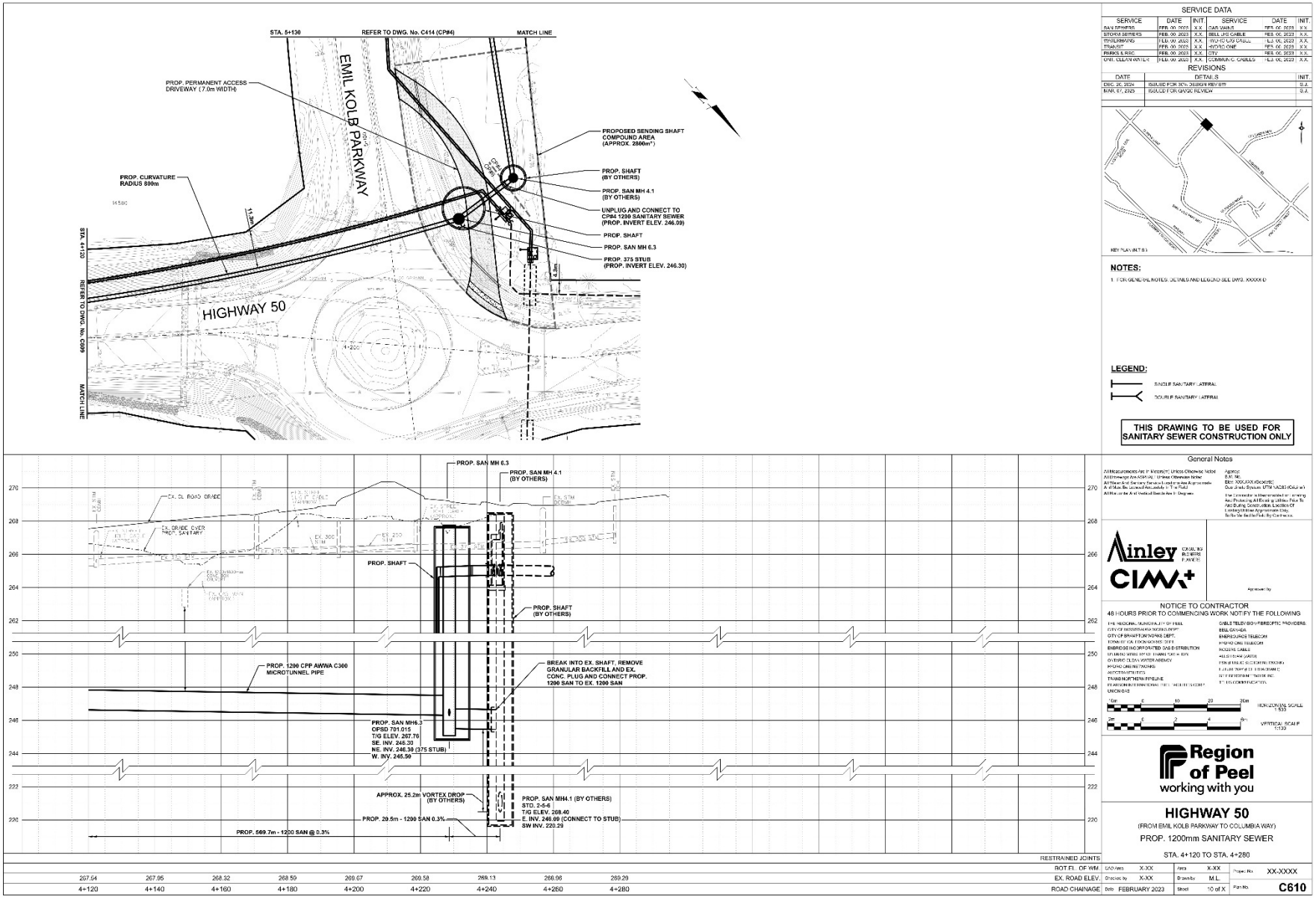


Figure 10: Map showing the depth and location of proposed sending shaft compound and 1200mm sanitary sewer in proximity to the H1 (AlGw-229) and Harper Site (AlGw-172).

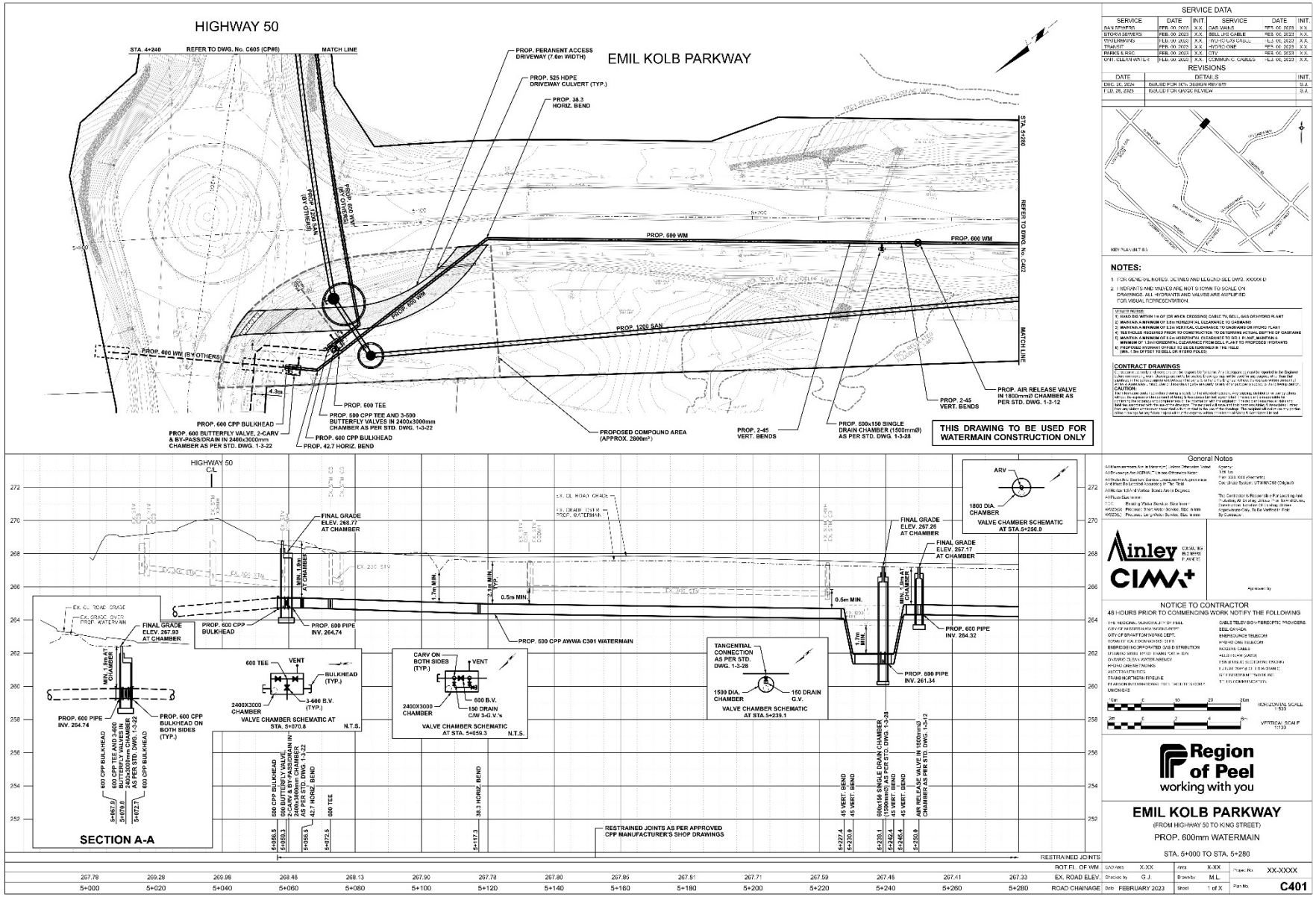


Figure 11: Map showing the depth and location of proposed sending shaft compound, 1200mm sanitary sewer and access driveway in proximity to the Harper Site (AlGw-172).

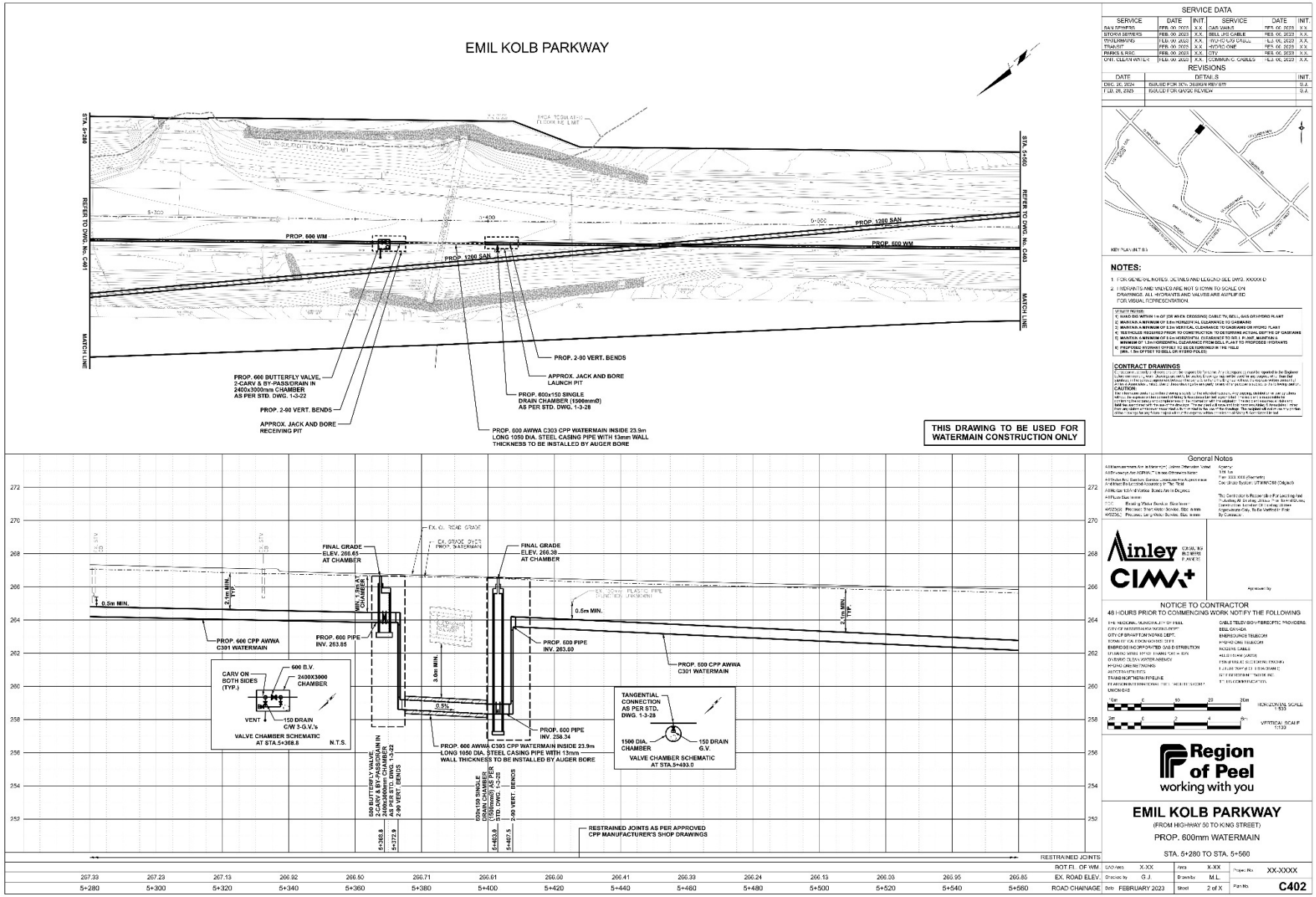


Figure 12: Map showing the depth of valve chamber and proposed 1200mm sanitary sewer.

APPENDIX G: ARTIFACT CATALOGUE[8]

Table F1: H1 (AlGw-229) Site Artifact Catalogue

Cat#	Prov	FQ	Material	Class	Group	Object	Datable Attribute	Colour	Alt	Comments
1	FS59	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Unidentifiable		B	
2	FS167	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Unidentifiable			
3	FS63	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Pearlware			
4	FS107	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Pearlware			
5	FS180	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Pearlware			
6	FS11	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Pearlware			
7	FS129	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Pearlware			
8	FS31	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
9	FS8	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
10	FS84	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
11	FS87	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
12	FS37	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
13	FS42	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
14	FS78	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
15	FS62	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
16	FS57	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
17	FS184	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
18	FS43	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
19	FS110	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
20	FS185	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
21	FS56	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
22	FS69	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
23	FS145	2	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
24	FS111	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
25	FS3	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
26	FS139	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
27	FS38	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
28	FS96	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
29	FS90	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
30	FS118	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
31	FS141	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
32	FS40	2	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			

[5] All artifacts are stored within one plastic bin (L: 40.0 cm x W: 31.0 cm x H: 30.0 cm), identified as Box: 334-PE2116-22-ST2-01.

Cat#	Prov	FQ	Material	Class	Group	Object	Datable Attribute	Colour	Alt	Comments
33	FS77	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
34	FS7	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
35	FS190	2	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
36	FS177	2	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
37	FS64	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
38	FS18	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
39	FS16	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
40	FS61	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
41	FS187	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
42	FS140	2	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
43	FS54	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
44	FS101	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
45	FS165	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
46	FS115	2	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
47	FS82	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
48	FS182	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
49	FS172	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
50	FS53	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
51	FS191	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
52	FS148	2	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
53	FS137	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
54	FS50	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
55	FS52	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
56	FS47	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
57	FS126	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
58	FS24	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
59	FS192	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
60	FS194	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
61	FS6	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
62	FS20	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
63	FS116	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, moulded			Thistle
64	FS116	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
65	FS183	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, moulded			
66	FS27	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
67	FS27	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged dense			
68	FS79	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged dense			
69	FS9	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged dense			

Cat#	Prov	FQ	Material	Class	Group	Object	Datable Attribute	Colour	Alt	Comments
70	FS105	2	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged dense			
71	FS86	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged loose			
72	FS128	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged loose			
73	FS102	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged loose			
74	FS35	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, edged	blue		Scalloped, impressed
75	FS80	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, edged	blue		Scalloped, impressed
76	FS72	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, edged	blue		Scalloped, impressed
77	FS15	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, edged	blue		Unscalloped, impressed
78	FS45	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			Peasant
79	FS121	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			Peasant
80	FS98	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
81	FS85	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			Peasant
82	FS95	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			Peasant
83	FS44	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			Peasant
84	FS153	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			
85	FS88	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			
86	FS74	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			
87	FS17	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			
88	FS149	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
89	FS149	2	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			Chinoiserie and filigree
90	FS91	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			Chinoiserie
91	FS196	2	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			
92	FS33	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			Chinoiserie
93	FS158	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			Willow
94	FS48	2	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			Chinoiserie
95	FS164	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			Chinoiserie
96	FS76	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			Chinoiserie
97	FS174	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			
98	FS122	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Floral rimmed
99	FS160	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Floral rimmed
100	FS117	2	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Floral rimmed
101	FS150	2	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Filigree
102	FS4	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Chinoiserie
103	FS123	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Floral
104	FS68	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Floral rimmed
105	FS173	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Floral rimmed
106	FS173	2	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			

Cat#	Prov	FQ	Material	Class	Group	Object	Datable Attribute	Colour	Alt	Comments
107	FS65	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, blue transfer			Willow
108	FS41	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, blue transfer			
109	FS162	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, blue transfer			
110	FS146	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
111	FS146	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, green transfer			
112	FS202	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
113	FS200	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, black transfer			Scenic
114	FS176	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, brown transfer			Scenic
115	FS99	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, brown transfer			
116	FS23	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, brown transfer			
117	FS46	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, brown transfer			
118	FS49	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, brown transfer			
119	FS114	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, brown transfer			Botanical
120	FS32	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, stamped			
121	FS66	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, stamped			
122	FS120	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, stamped			
123	FS169	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, stamped			
124	FS21	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, red transfer			Botanical
125	FS94	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, flow blue			
126	FS151	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, flow blue			
127	FS28	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, flow blue			
128	FS125	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, flow blue			
129	FS73	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, flow blue			
130	FS112	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, flow blue			
131	FS34	1	Ceramic	Foodways	Ceramic Tableware	Hollowware	RWE, slipware			
132	FS143	1	Ceramic	Foodways	Ceramic Tableware	Hollowware	RWE, slipware			
133	FS97	1	Ceramic	Foodways	Ceramic Tableware	Hollowware	RWE, slipware			
134	FS81	1	Ceramic	Foodways	Ceramic Tableware	Hollowware	RWE, slipware			
135	FS155	1	Ceramic	Foodways	Ceramic Tableware	Hollowware	IRO, banded			
136	FS12	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
137	FS136	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
138	FS175	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
139	FS29	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
140	FS163	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
141	FS133	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
142	FS154	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
143	FS108	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			

Cat#	Prov	FQ	Material	Class	Group	Object	Datable Attribute	Colour	Alt	Comments
144	FS142	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
145	FS171	2	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
146	FS19	3	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
147	FS25	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
148	FS83	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
149	FS138	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
150	FS100	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
151	FS151	2	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
152	FS157	1	Ceramic	Architectural	Construction Materials	Drainage Pipe	CEW, red unglazed			
153	FS26	1	Brick	Architectural	Construction Materials	Sample		red		
154	FS134	1	Brick	Architectural	Construction Materials	Sample		red		
155	FS92	1	Brick	Architectural	Construction Materials	Sample		red		
156	FS93	1	Brick	Architectural	Construction Materials	Sample		red		
157	FS14	1	Brick	Architectural	Construction Materials	Sample		red		
158	FS55	1	Brick	Architectural	Construction Materials	Sample		red		
159	FS104	1	Brick	Architectural	Construction Materials	Sample		red		
160	FS113	1	Brick	Architectural	Construction Materials	Sample				
161	FS109	1	Brick	Architectural	Construction Materials	Sample				
162	FS159	1	Ceramic	Smoking	Smoking Pipes	White Clay, Plain Stem				
163	FS67	1	Ceramic	Smoking	Smoking Pipes	White Clay, Plain Stem				
164	FS131	1	Ceramic	Smoking	Smoking Pipes	White Clay, Marked Stem	Montreal			
165	FS165	1	Ceramic	Smoking	Smoking Pipes	White Clay, Marked Stem	Henderson's, Montreal			
166	FS52	1	Ceramic	Smoking	Smoking Pipes	White Clay, Marked Stem	Henderson's, Montreal			
167	FS167	1	Ceramic	Smoking	Smoking Pipes	White Clay, Plain Bowl				
168	FS71	1	Ceramic	Smoking	Smoking Pipes	White Clay, Plain Bowl				
169	FS193	1	Ceramic	Smoking	Smoking Pipes	White Clay, Plain Bowl				
170	FS119	1	Ceramic	Clothing	Fasteners	Button	Prosser			
171	FS166	1	Glass	Architectural	Window Glass	Pane Glass	Thick			
172	FS124	1	Glass	Architectural	Window Glass	Pane Glass	Thick			
173	FS89	1	Glass	Architectural	Window Glass	Pane Glass	Thick			
174	FS179	2	Glass	Architectural	Window Glass	Pane Glass	Thick			
175	FS5	1	Glass	Architectural	Window Glass	Pane Glass	Thick			
176	FS75	1	Glass	Unassigned	Unid.Glass Containers	Unid. Bottle/Cont. Glass	Pressed	blue		
177	FS51	1	Glass	Unassigned	Unid.Glass Containers	Unid. Bottle/Cont. Glass	Mould blown	aqua		
178	FS135	1	Glass	Unassigned	Unid.Glass Containers	Unid. Bottle/Cont. Glass	Unidentifiable	blue	B	
179	FS10	1	Glass	Foodways	Glass Bev.Containers	Bottle	MB Finish	olive	B	
180	FS70	1	Glass	Foodways	Glass Bev.Containers	Bottle	Mould blown	olive		

Cat#	Prov	FQ	Material	Class	Group	Object	Datable Attribute	Colour	Alt	Comments
181	FS186	1	Glass	Foodways	Glass Bev.Containers	Bottle	Mould blown	green		
182	FS2	1	Ferrous	Architectural	Nails	Nail	Machine Cut			
183	FS168	1	Ferrous	Architectural	Nails	Nail	Machine Cut			
184	FS161	1	Ferrous	Architectural	Nails	Nail	Machine Cut			
185	FS60	1	Ferrous	Unassigned	Misc. Material	Scrap Metal				
186	FS181	1	Ferrous	Unassigned	Misc. Material	Scrap Metal				
187	FS58	1	Ferrous	Unassigned	Misc. Hardware	Bar				
188	FS39	1	Ferrous	Unassigned	Misc. Hardware	Rail				
189	FS22	1	Ferrous	Unassigned	Misc. Hardware	Bracket				
190	FS132	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
191	FS132	1	Brick	Architectural	Construction Materials	Sample		red		
192	FS132	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
193	FS199	2	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
194	FS1	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
195	FS36	1	Ceramic	Foodways	Ceramic Tableware	Tableware	VWE, moulded			
196	FS36	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
197	FS106	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red glazed			
198	FS195	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			Floral rimmed
199	FS13	1	Ceramic	Foodways	Ceramic Tableware	Tableware	IRO, blue transfer			
200	FS13	1	Brick	Architectural	Construction Materials	Sample		red		
201	FS30	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
202	FS30	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged dense			
203	FS147	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			Peasant
204	FS147	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			
205	FS178	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, slipware			
206	FS178	1	Ceramic	Smoking	Smoking Pipes	White Clay, Plain Stem				
207	FS197	1	Ceramic	Smoking	Smoking Pipes	White Clay, Plain Stem				
208	FS197	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged loose			
209	FS170	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, polychrome lp			Peasant
210	FS170	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, edged			Scalloped, Impressed
211	FS152	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
212	FS152	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	Yellowware			
213	FS203	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
214	FS201	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, sponged dense			
215	FS204	1	Glass	Architectural	Window Glass	Pane Glass	Thick			
216	FS144	1	Glass	Unassigned	Unid.Glass Containers	Unid. Bottle/Cont. Glass	Unidentifiable		B	
217	FS144	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	CEW, red unglazed			

Cat#	Prov	FQ	Material	Class	Group	Object	Datable Attribute	Colour	Alt	Comments
218	FS188	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
219	FS188	1	Glass	Foodways	Glass Bev.Containers	Bottle	Mould blown	green		
220	FS130	1	Glass	Architectural	Window Glass	Pane Glass	Thick			
221	FS130	1	Ceramic	Foodways	Ceramic Tableware	Tableware	RWE, blue transfer			
222	FS189	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Ironstone			
223	FS189	1	Glass	Unassigned	Unid.Glass Containers	Unid. Bottle/Cont. Glass	Mould blown	aqua		
224	FS103	1	Brick	Architectural	Construction Materials	Sample		red		
225	FS103	1	Ferrous	Architectural	Nails	Nail	Machine Cut			
226	FS198	1	Ferrous	Architectural	Nails	Nail	Machine Cut			
227	FS198	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
228	FS198	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Vitrified White Earthenware			
229	FS127	1	Ceramic	Foodways	Ceramic Util. Ware	Hollowware	Coarse Stoneware			
230	FS156	1	Ceramic	Foodways	Ceramic Tableware	Tableware	Refined White EW			
231	FS156	1	Ceramic	Foodways	Ceramic Tableware	Hollowware	RWE, slipware			
232	FS156	1	Glass	Architectural	Window Glass	Pane Glass	Thick			
233	FS156	1	Glass	Unassigned	Unid.Glass Containers	Bottle	Tooled Finish	aqua		

APPENDIX H: INVENTORY OF DOCUMENTARY AND MATERIAL RECORD

Project Information:				
Project #:	334-PE2116-22			
Licensee (#):	Ian Boyce (P1059)			
MCM PIF #:	P1059-0178-2024			
Document/Material		**Details**	**Location**	
1.	Research/ Analysis/ Reporting Material	Digital files stored in: /2022/334-PE2116-22 - Peel-Bolton Water + Wastewater Servicing Class EA/Stage 2	Archeoworks Inc. 16715-12 Yonge Street Suite 1029 Newmarket, ON L3X 1X4	Stored on Archeoworks network servers
2.	Written Field Notes/ Annotated Field Maps	Field maps: Eight (8) digital files Field notes: Three (3) digital files	Archeoworks Inc., 16715-12 Yonge St., Suite 1029, Newmarket, ON, Canada, L3X 1X4	Stored on Archeoworks network servers
3.	Fieldwork Photographs	96 digital photographs	Archeoworks Inc., 16715-12 Yonge St., Suite 1029, Newmarket, ON, Canada, L3X 1X4	Stored on Archeoworks network servers
4.	Artifacts	Euro-Canadian artifacts: H1 (AlGw-229) artifacts (n=253 artifacts).	Archeoworks Inc. 16715-12 Yonge Street Suite 1029 Newmarket, ON L3X 1X4	Stored on Archeoworks network servers

Under Section 14 of the Terms and Conditions for Archaeological Licences issued under the Ontario Heritage Act, “the licensee shall hold in safekeeping all artifacts and records of archaeological fieldwork carried out under this licence, except where those artifacts and records are transferred by the licensee to His Majesty the King in right of Ontario or the licensee is directed to deposit them in a public institution in accordance with subsection 66(1) of the Act." The collections are being stored at *Archeoworks Inc.* on the licensee's behalf.

ARCHEOWORKS INC.

Stage 2 Archaeological Assessment for the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment Within Lots 10-13, Concession 5; Lots 11-13, Concession 6; Lots 11-13, Concession 7; Lots 12-13, Concession 8; and Road Allowances in Between in the Geographic Township of Albion Historic County of Peel Now in the Town of Caledon Regional Municipality of Peel Ontario

Project #: 334-PE2116-22
Licensee (#): Ian Boyce (P1059)
PIF #: P1059-0178-2024

Supplementary Document

October 31 2025

Presented to:
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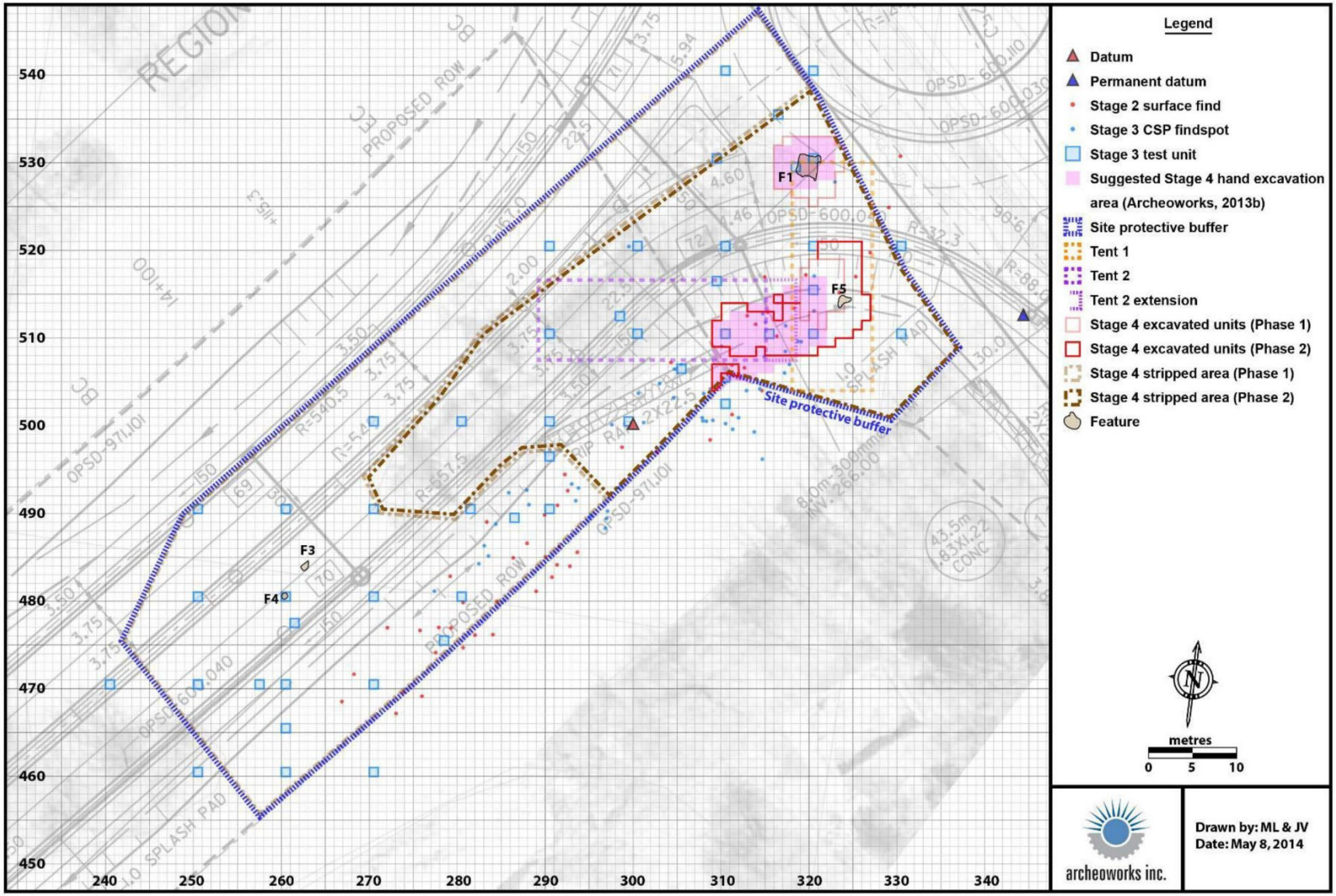
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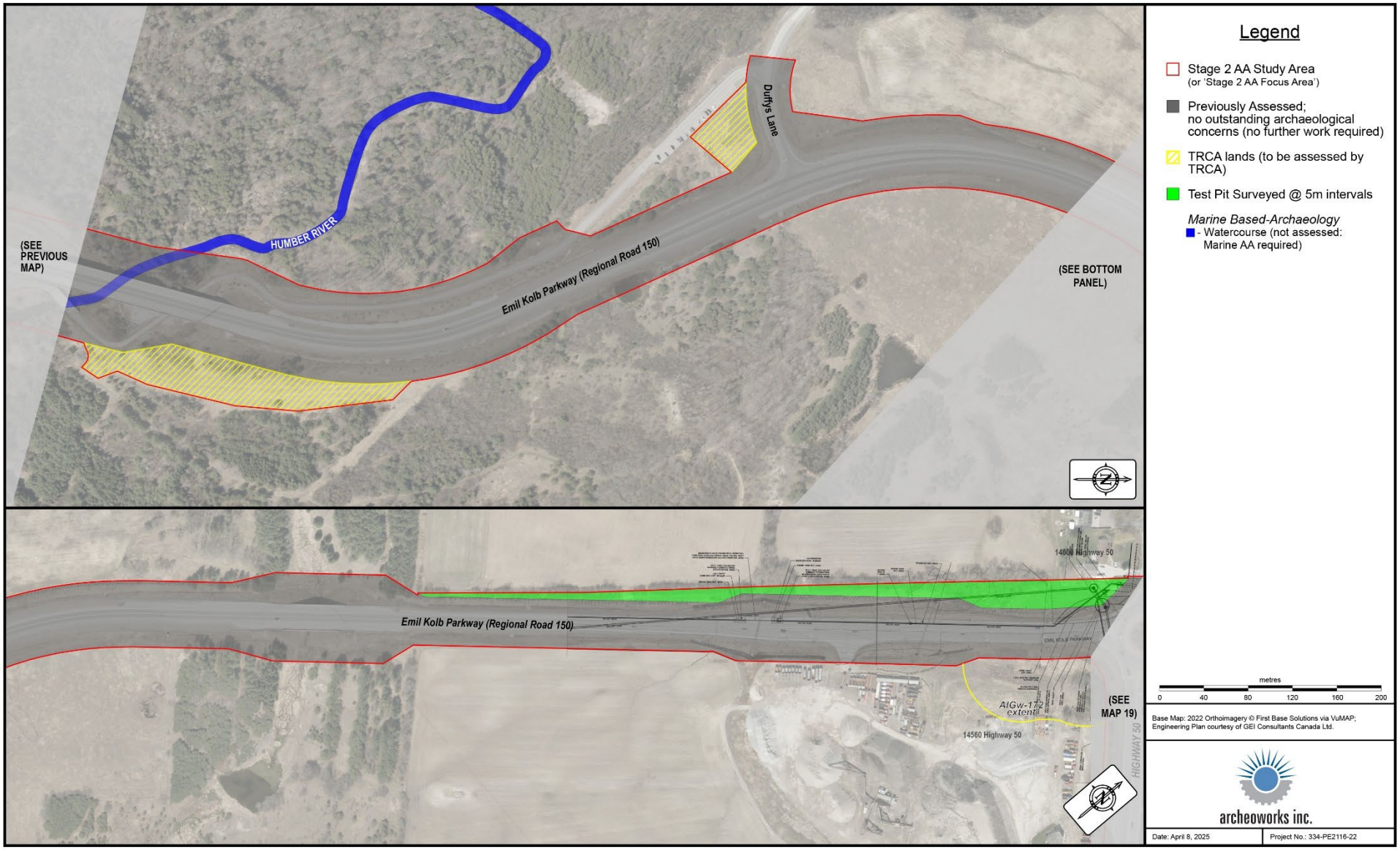
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1.0 DETAILED MAPS

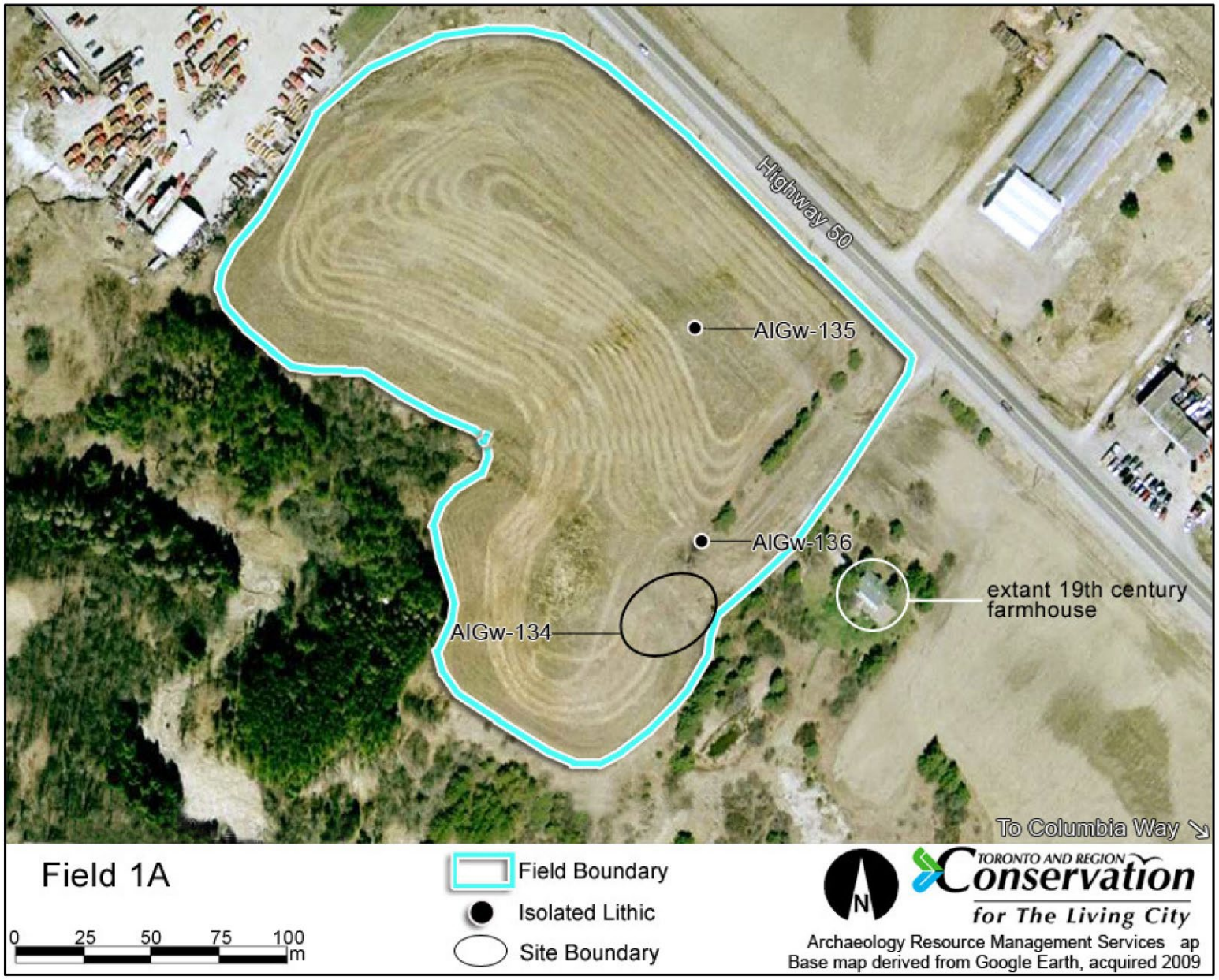
1.1 Previous Assessments



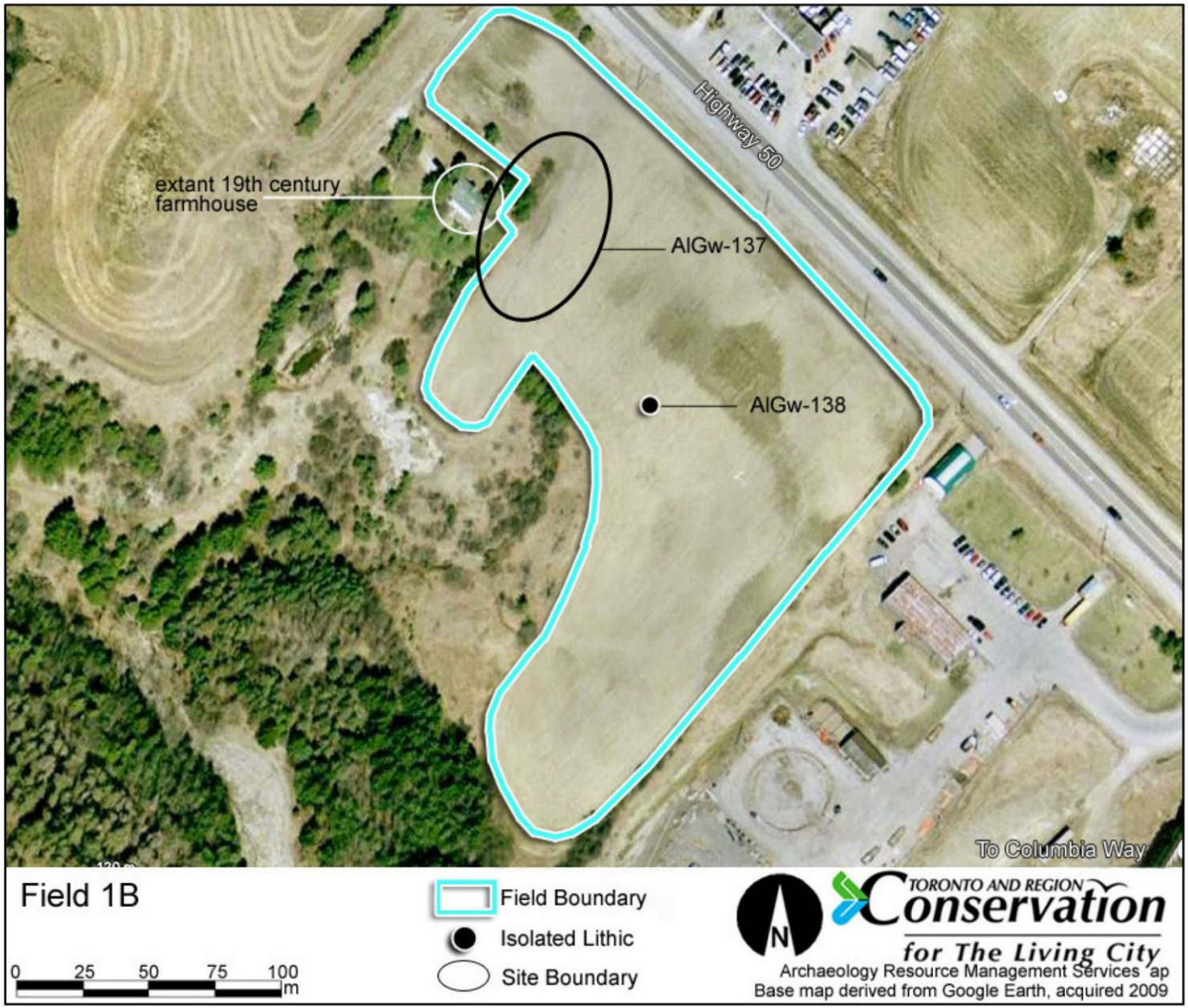
Map S1: Stage 4 Results of AA conducted at AlGw-172 (Archeoworks Inc., 2013 – P390-0067-2013)



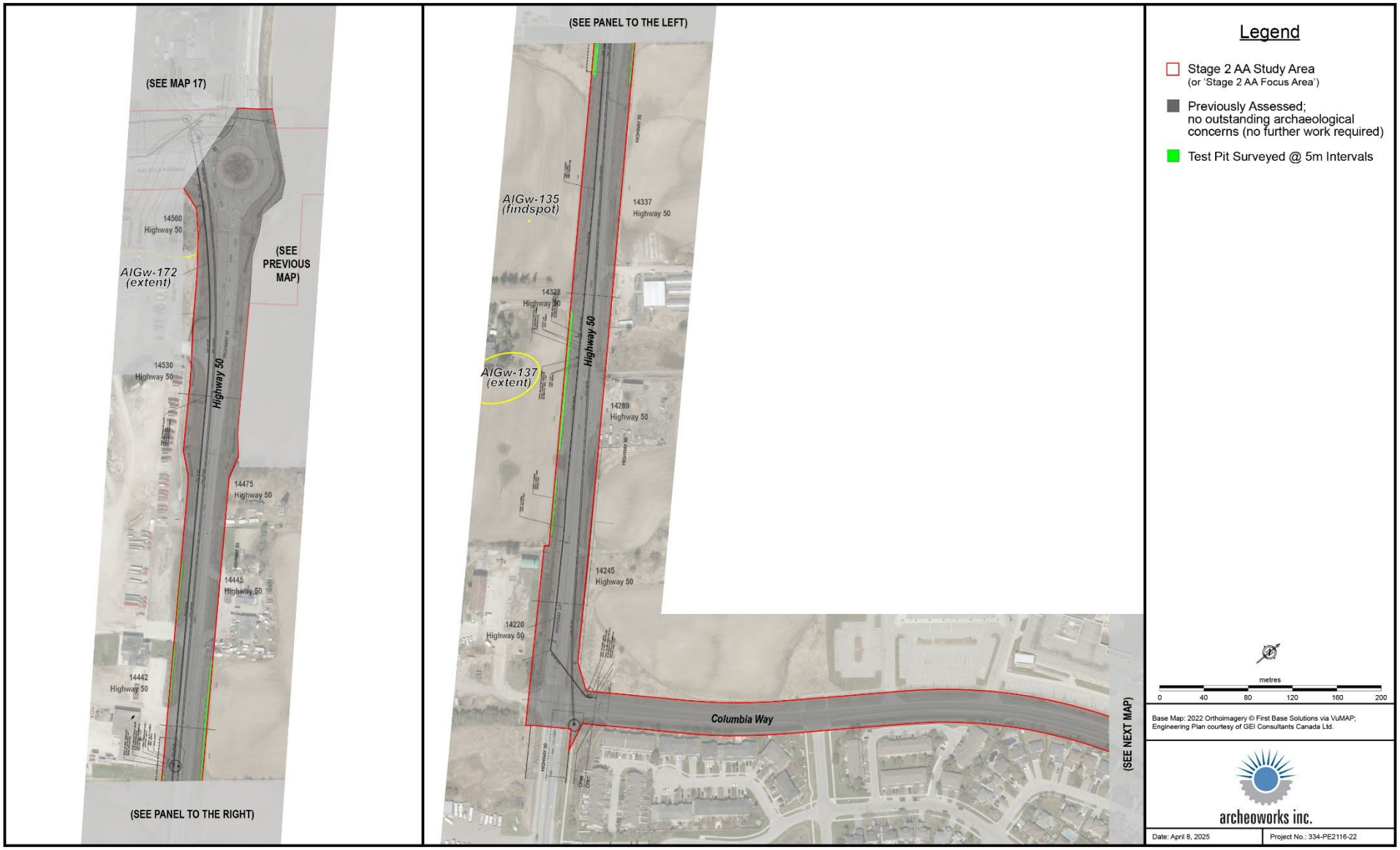
Map S2: Stage 2 AA results along Emil Kolb Parkway north/east of the Humber River, showing archaeologically sensitive area related to AlGw-172 and its area to be avoided.



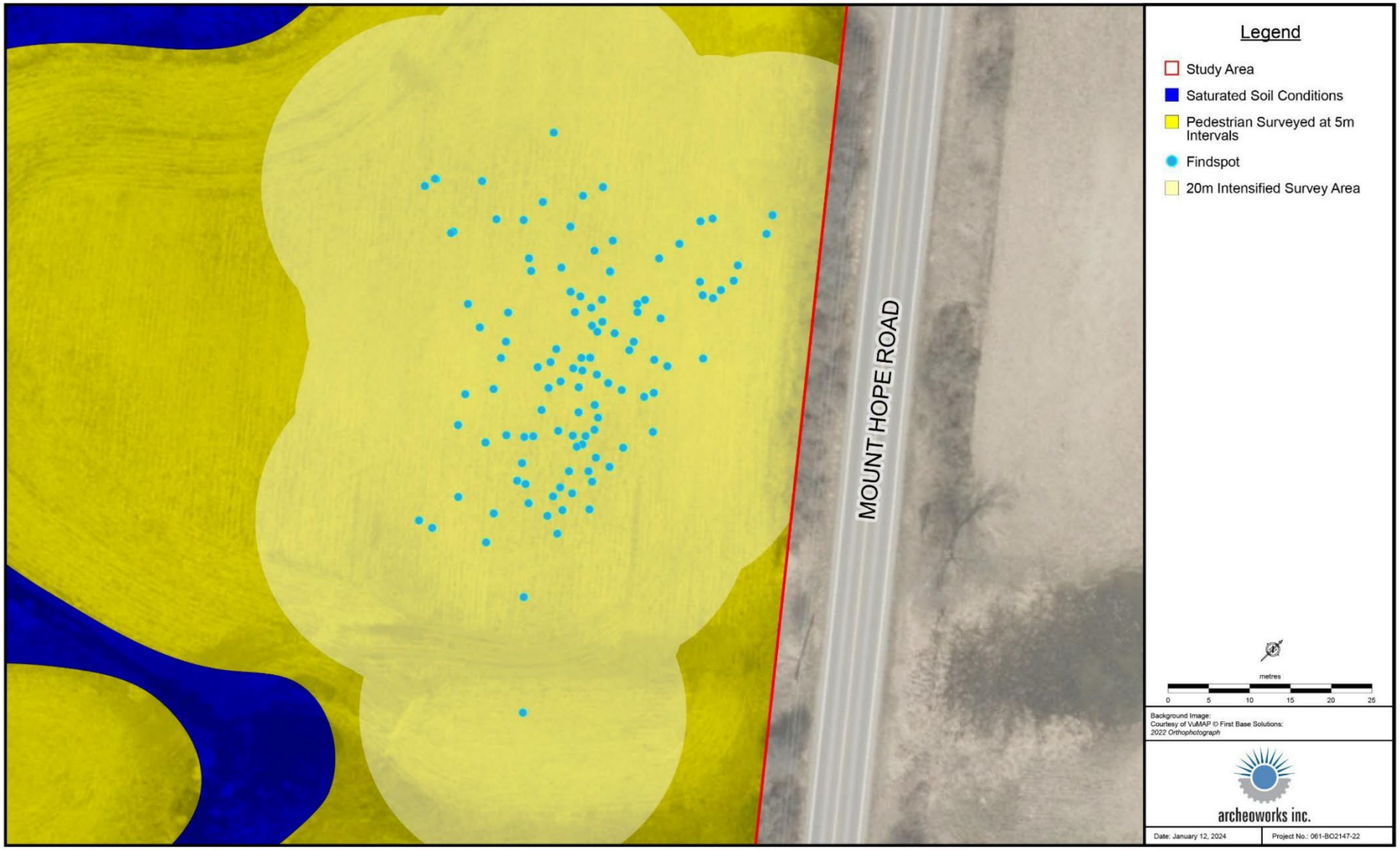
Map S3: Stage 1-2 AA results at AlGw-135 (TRCA, 2010 – P303-004-2008).



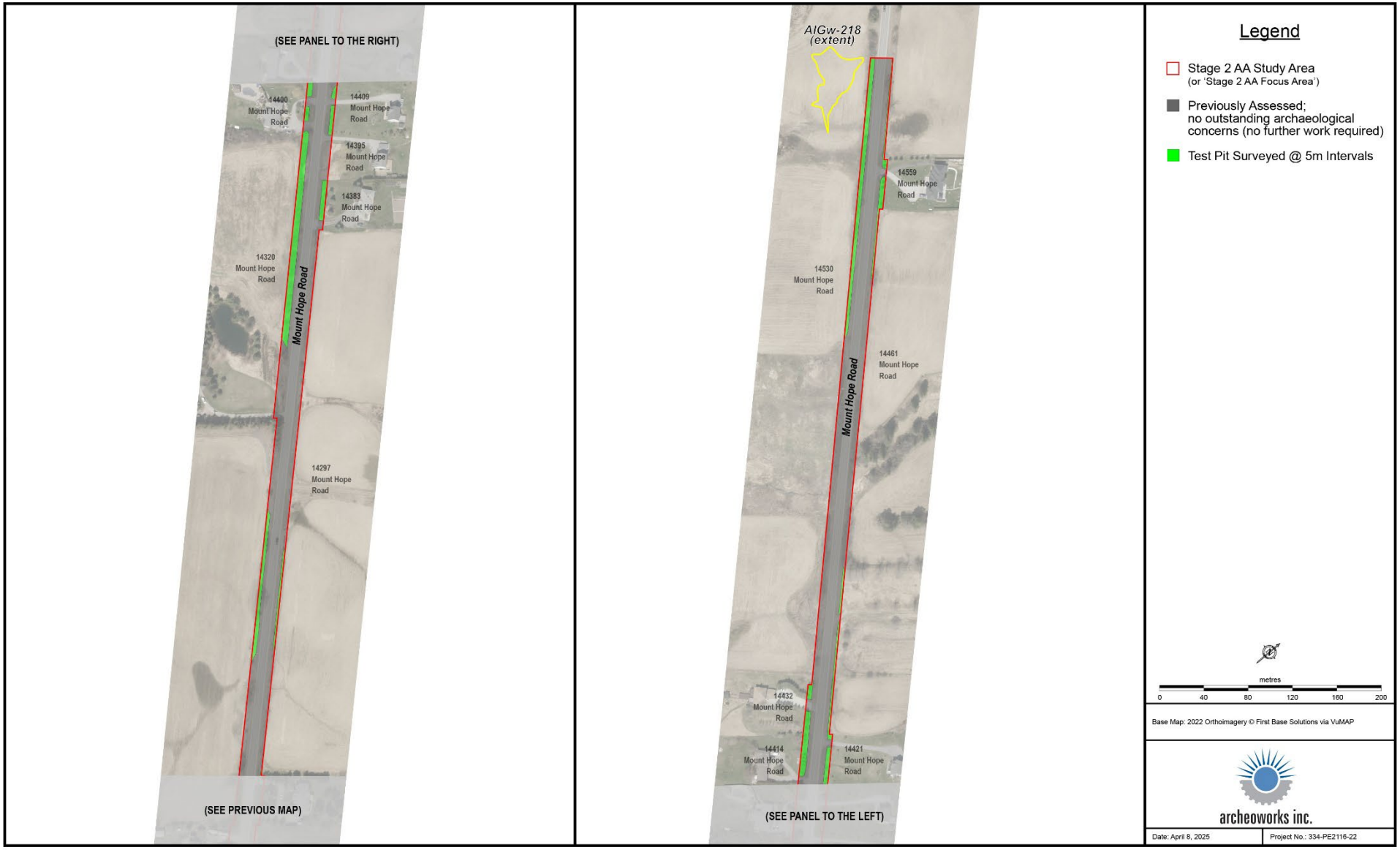
Map S4: Stage 1-2 AA results at AlGw-137 (TRCA, 2010 – P303-004-2008).



Map S5: Stage 2 AA results along Highway 50 and the western end of Columbia Way, showing archaeologically sensitive areas related to AlGw-135, AlGw-137 and AlGw-172.

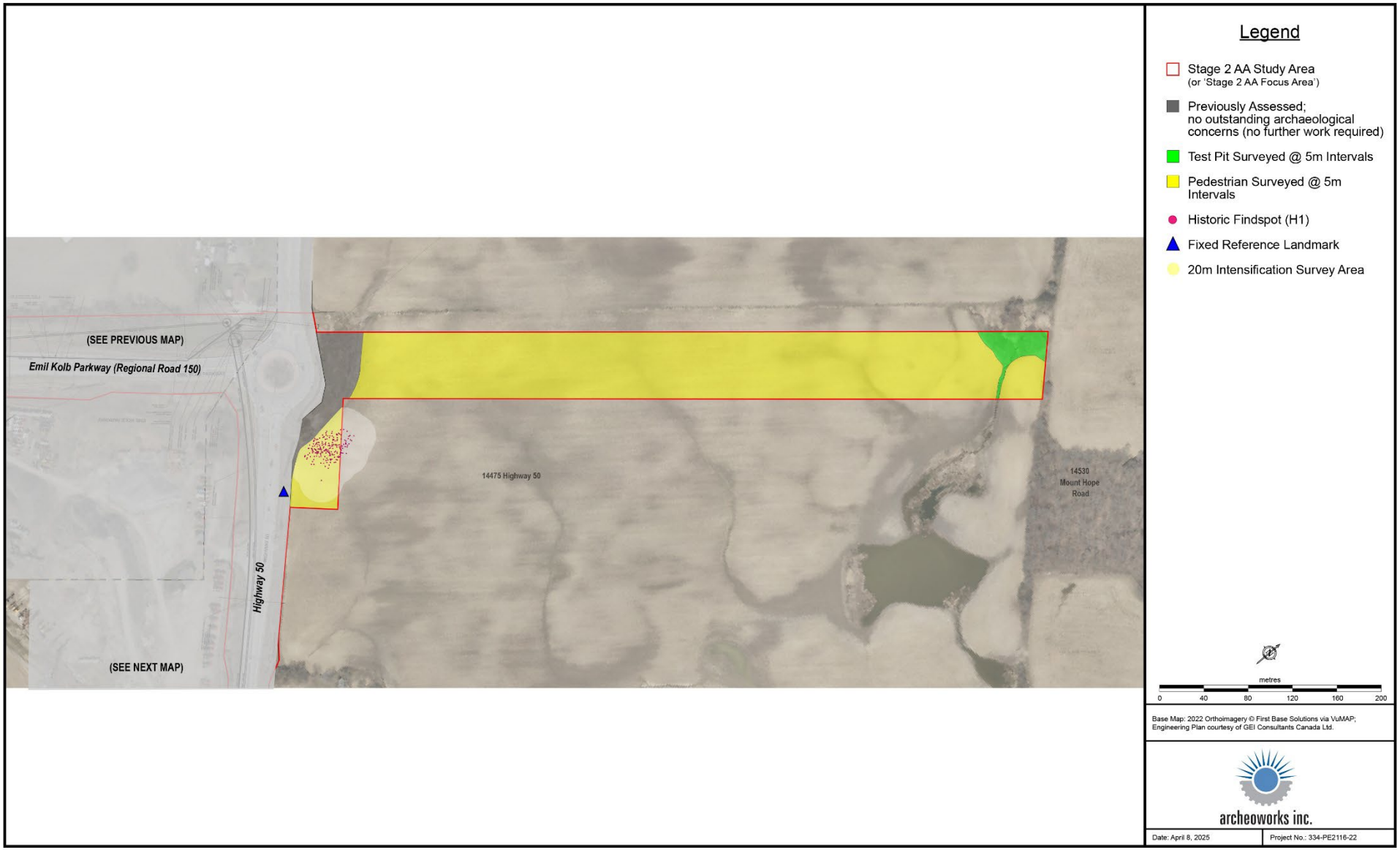


Map S6: Stage 1-2 AA results at AlGw-218 (Archeoworks Inc., 2024b; P029-1073-2022).

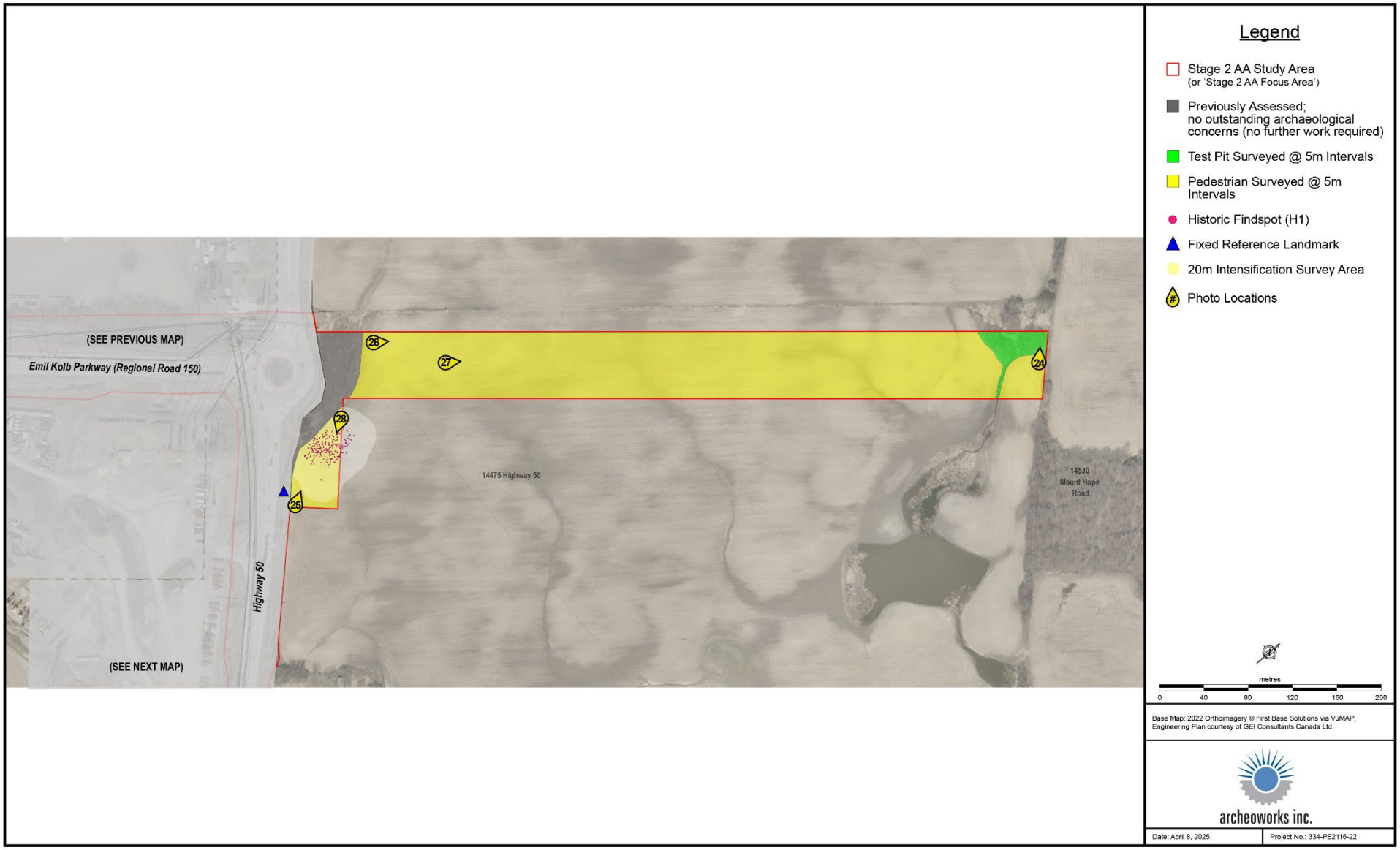


Map S7: Stage 2 AA results along the central and northern segments of Mount Hope Road, showing archaeologically sensitive area related to AlGw-218.

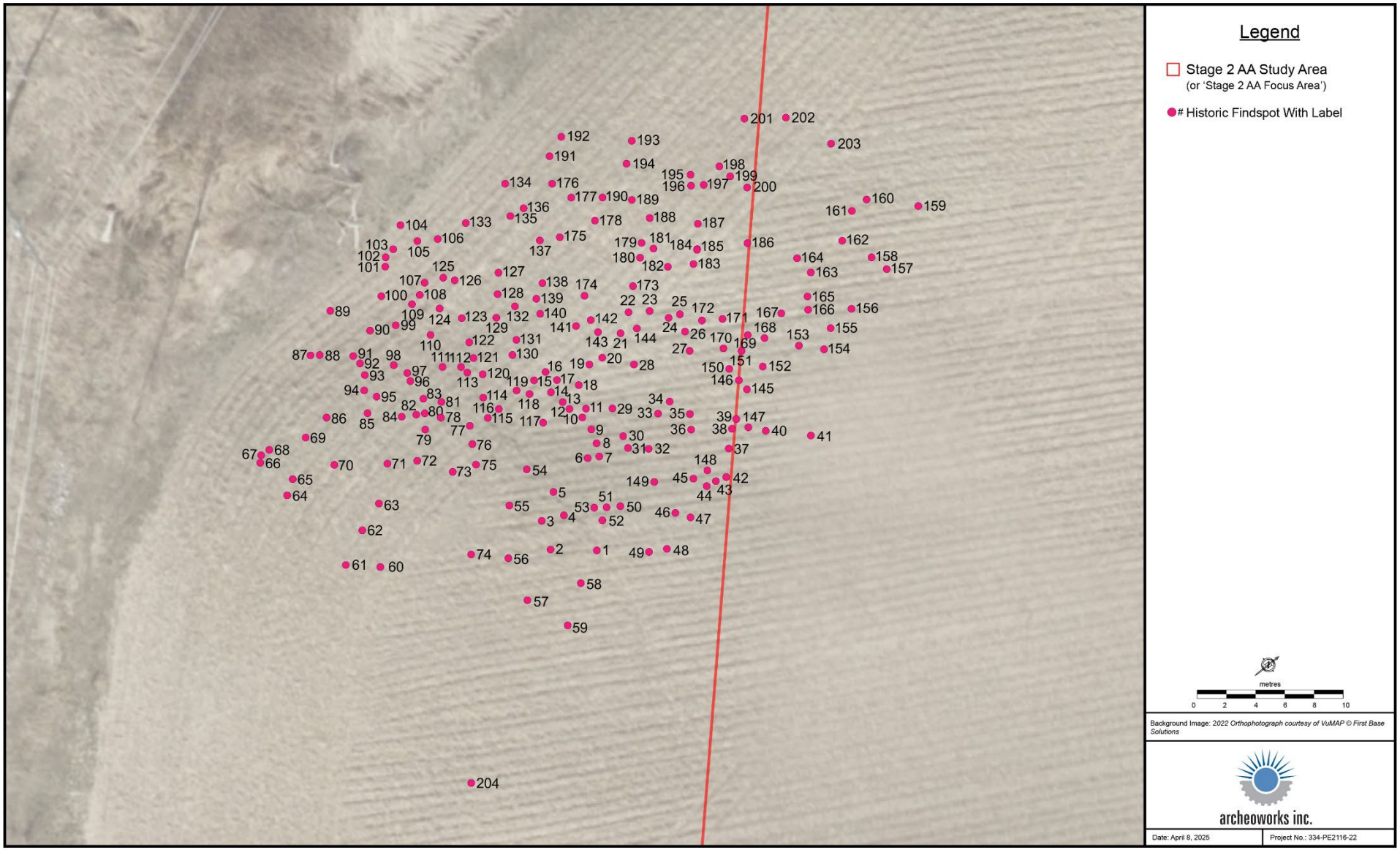
1.2 Current Assessment



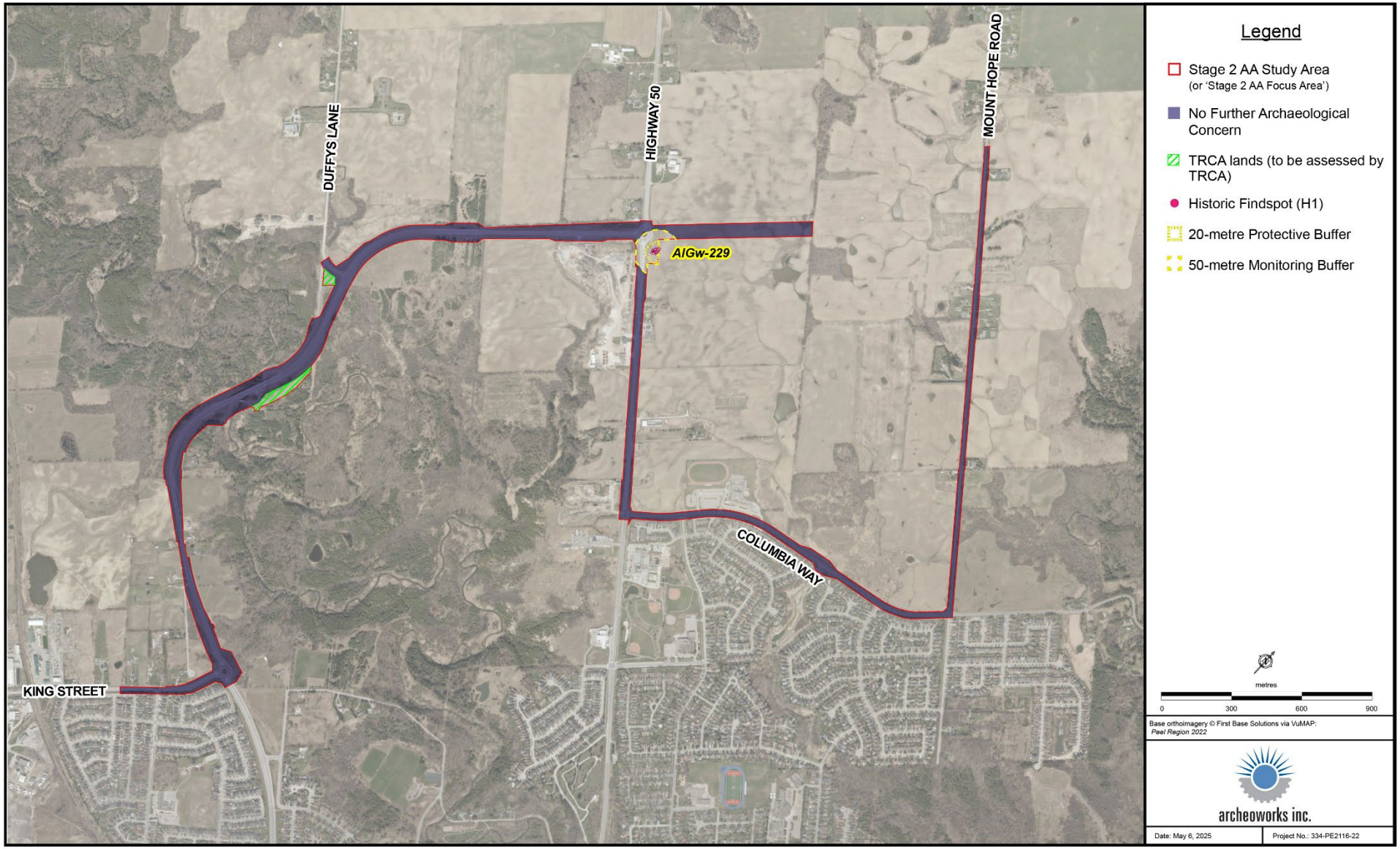
Map S8: Stage 2 AA results within 14475 Highway 50, showing the H1 (AlGw-229) site.



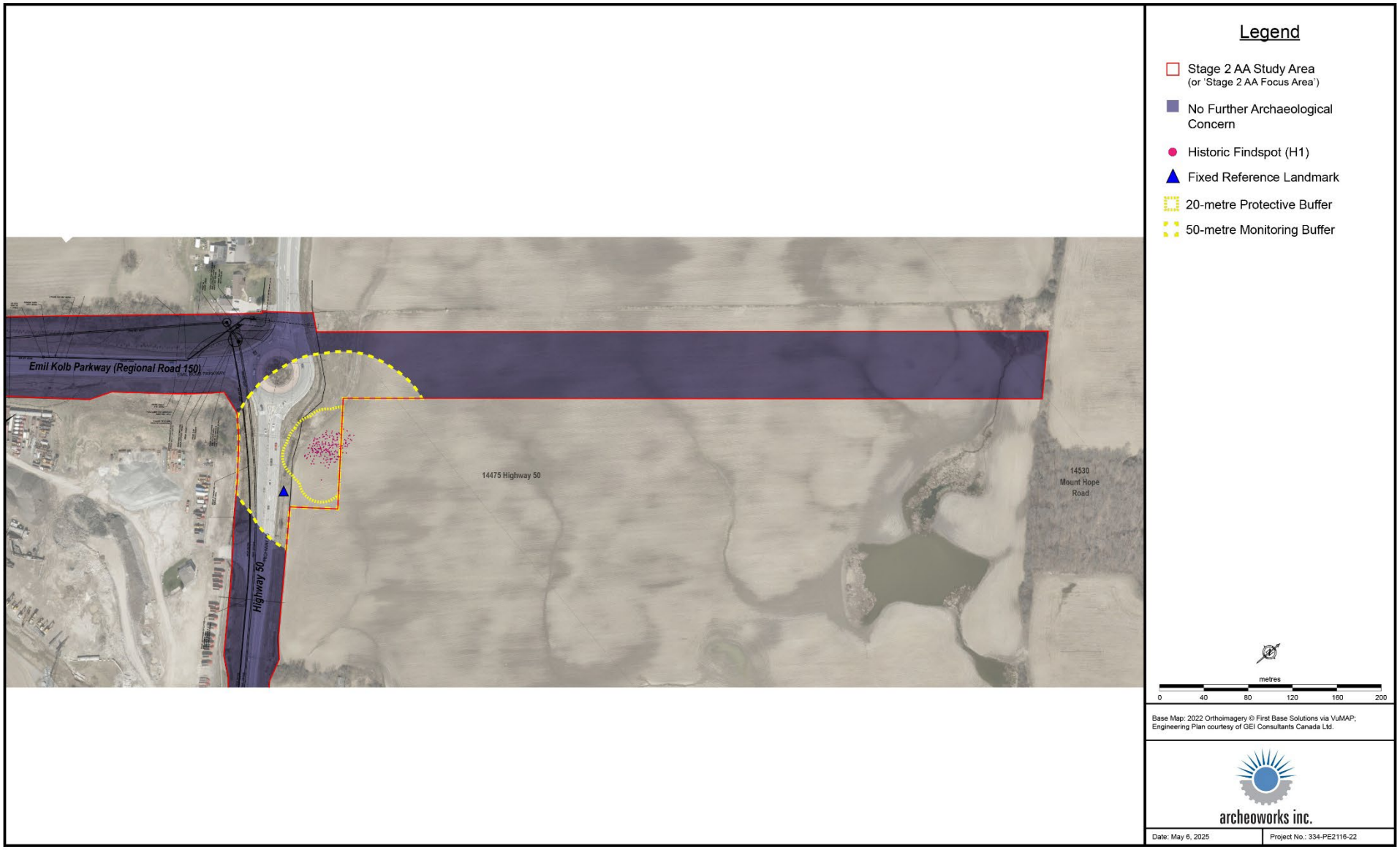
Map S9: Stage 2 AA results within 14475 Highway 50, showing the H1 (AlGw-229) site, and the location of Image 28.



Map S10: Map showing the findspots within the H1 (AlGw-229) site.



Map S11: Recommendations for partial clearance within the study area.



Map S12: Closer view of recommendations for partial clearance within the study area at the H1 (AlGw-229) site.

2.0 DETAILED SITE LOCATION INFORMATION

Table S1: H1 Detailed Site Location Information

Borden Number	AlGw-229
Site Name	H1
Description of Location	The site area is located in a cultivated agricultural field at 14475 Highway 50, southeast of the roundabout. The centre of site is approximately 85 metres due southeast of the centre of the roundabout at Emil Kolb Parkway and Highway 50 and approximately 78 metres east from Highway 50 centreline. The elevation of the centre of site is at 263 metres above sea level. Farmers access from Highway 50.
Size of Site	Roughly 34 metres east-west by 49 metres north-south in size.
Site Extent	Centre: 17T 599282.00 4861371.00 North: 17T 599287.15 4861396.01 East: 17T 599298.95 4861374.78 South: 17T 599300.13 4861347.70 West: 17T 599266.67 4861366.93
Recorded GPS Coordinates	FS01: 17T 599292.628 4861364.19 FS02: 17T 599290.661 4861361.697 FS03: 17T 599288.72 4861362.404 FS04: 17T 599289.336 4861363.845 FS05: 17T 599287.627 4861364.244 FS06: 17T 599287.201 4861367.508 FS07: 17T 599287.592 4861368.209 FS08: 17T 599286.759 4861368.612 FS09: 17T 599285.782 4861368.896 FS10: 17T 599284.751 4861368.901 FS11: 17T 599284.424 4861369.466 FS12: 17T 599283.755 4861368.55 FS13: 17T 599283.096 4861368.467 FS14: 17T 599282.077 4861368.234 FS15: 17T 599280.72 4861367.801 FS16: 17T 599280.738 4861368.776 FS17: 17T 599281.653 4861369.064 FS18: 17T 599282.837 4861370.047 FS19: 17T 599282.153 4861371.481 FS20: 17T 599282.315 4861372.466 FS21: 17T 599281.738 4861374.478 FS22: 17T 599280.921 4861375.782 FS23: 17T 599281.73 4861376.983 FS24: 17T 599282.892 4861377.741 FS25: 17 599283.166 4861378.506 FS26: 17T 599284.326 4861378.069 FS27: 17T 599285.568 4861377.517 FS29: 17T 599284.004 4861373.914 FS30: 17T 599285.511 4861370.921 FS31: 17T 599287.47 4861370.359 FS32: 17T 599288.317 4861370.136 FS33: 17T 599287.688 4861373.197 FS103: 17T 599267.699 4861365.537 FS104: 17T 599266.675 4861366.928 FS105: 17T 599268.256 4861367.196 FS106: 17T 599268.991 4861368.39 FS107: 17T 599270.834 4861365.869 FS108: 17T 599271.3 4861365.095 FS109: 17T 599272.05 4861364.35 FS110: 17T 599273.938 4861364.027 FS111: 17T 599276.183 4861363.358 FS112: 17T 599276.958 4861364.367 FS113: 17T 599277.516 4861364.478 FS114: 17T 599279.549 4861364.311 FS115: 17T 599280.855 4861363.723 FS116: 17T 599280.826 4861364.694 FS117: 17T 599283.412 4861366.547 FS118: 17T 599281.279 4861366.992 FS119: 17T 599280.555 4861366.426 FS120: 17T 599278.257 4861365.248 FS121: 17T 599276.981 4861365.419 FS122: 17T 599275.946 4861365.834 FS123: 17T 599274.313 4861366.43 FS124: 17T 599272.864 4861365.618 FS125: 17T 599271.335 4861367.089 FS126: 17T 599271.952 4861367.605 FS127: 17T 599273.354 4861370.316 FS128: 17T 599274.491 4861369.382 FS129: 17T 599275.729 4861368.335 FS130: 17T 599278.432 4861367.673 FS131: 17T 599277.773 4861368.514 FS132: 17T 599275.88 4861369.821 FS134: 17T 599268.766 4861374.366 FS135: 17T 599270.749 4861373.307

	FS34	17T 599287.514 4861374.332		FS136	17T 599270.874 4861374.358
	FS35	17T 599289.039 4861374.921		FS137	17T 599273.303 4861373.91
	FS36	17T 599289.939 4861374.344		FS138	17T 599275.752 4861372.285
	FS37	17T 599292.541 4861375.619		FS139	17T 599276.354 4861371.306
	FS38	17T 599291.591 4861376.609		FS140	17T 599277.334 4861370.892
	FS39	17T 599291.24 4861377.246		FS141	17T 599279.495 4861372.342
	FS40	17T 599293.107 4861378.367		FS142	17T 599279.779 4861373.396
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	FS59	17T 599295.514 4861359.496		FS161	17T 599284.661 4861392.173
	FS60	17T 599284.539 4861351.683		FS162	17T 599285.888 4861390.418
	FS61	17T 599282.995 4861349.874		FS163	17T 599286.317 4861387.388
	FS62	17T 599281.784 4861352.213		FS164	17T 599284.969 4861387.226
	FS63	17T 599281.009 4861354.23		FS165	17T 599287.492 4861386.21
	FS64	17T 599276.747 4861349.56		FS166	17T 599288.247 4861385.694
	FS65	17T 599276.093 4861350.531		FS167	17T 599287.327 4861384.078
	FS66	17T 599273.849 4861349.433		FS168	17T 599287.98 4861382.14
	FS67	17T 599273.477 4861349.794		FS169	17T 599287.122 4861381.348
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	FS74	17T 599287.626 4861357.159		FS176	17T 599270.719 4861376.927
	FS75	17T 599282.917 4861361.144		FS177	17T 599272.269 4861377.401
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	FS79	17T 599278.889 4861359.821		FS181	17T 599278.473 4861379.783
	FS80	17T 599277.984 4861360.471		FS182	17T 599280.07 4861379.813
	FS81	17T 599278.053 4861361.845		FS183	17T 599280.981 4861381.323
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	FS100	17T 599269.769 4861362.945	FS202	17T 599276.812 4861392.436
	FS101	17T 599268.318 4861364.38	FS203	17T 599280.116 4861393.824
	FS102	17T 599267.827 4861364.792	FS204	17T 599300.128 4861347.701
GPS Device	*Trimble GeoExplorer*			
Universal Transverse Mercator (UTM) grid zone	17T			
Datum	NAD 1983 CSRS			
Method of Correction	Base Differential Correction			
Accuracy	Less than one metre			
Fixed Reference Landmark	17T 599288.288 4861314.559 (hydro pole northwest of farm access to 14475 Highway 50 and southwest of roundabout).			
Recommendation	This site is considered to have significant cultural heritage value and interest. Stage 3 AA is recommended.			

3.0 TRCA DOCUMENTATION

October 25, 2024

Property Assessment Results
HR24-19 Bolton Water and Wastewater Capacity Improvement EA
PIF # P303-0770-2024

Project Manager: Italia Ponce – Region of Peel
Project Planner: Shirin Varzgani – TRCA

Fieldwork Details:
TRCA Archaeology has completed a Stage 2 archaeological assessment of the project area as identified in the attached graphic (yellow polygon) and defined as all lands to be impacted by the project, either by land use or physical alteration.

As per Section 2.1.2 of the 2011 Standards and Guidelines for Consultant Archaeologists by the Ministry of Citizenship and Multiculturalism (MCM), all the objectives of the Stage 2 assessment have been satisfied in that no cultural resources were identified within the project area. As per Section 7.8.4 in the 2011 Standards and Guidelines, TRCA Archaeology recommends that no further archaeological assessment of the property be required.

However, if there is any deviation from the agreed upon project area, additional assessment may be necessary. Furthermore, in the unlikely event that any deeply buried deposits or human remains are encountered, all activities will cease and the TRCA Archaeology as well as the proper authorities will be contacted immediately.

Reporting and Invoicing:
You will be invoiced for all fieldwork, reporting and associated administrative costs following completion of fieldwork and prior to issuance of the report. Please note, a field season extends from April to December. Reports accrued from the preceding field season may take up to a year from the date of fieldwork to be drafted. Accordingly, expect a delay preceding report delivery.

Draft reports may be supplied ahead of MCM submission. Expedited report completion and submission is available upon request. The final, formal report will be forthcoming following MCM acceptance.

Thank you,



Alistair R. Jolly, M.A.
Supervisor, Archaeology
Restoration & Infrastructure - Professional Services
Toronto and Region Conservation Authority
Cell: (416) 771-2004

T: 416.661.6600 | F: 416.661.6898 | info@trca.on.ca | 101 Exchange Avenue, Vaughan, ON L4K 5R6 | www.trca.ca



Toronto and Region Conservation Authority

May 13, 2025

Property Assessment Results
HR24-19 Bolton Water and Wastewater Capacity Improvement EA
PIF # P303-0770-2025

Project Manager: Italia Ponce – Region of Peel
Project Planner: Shirin Varzgani – TRCA

Fieldwork Details:
TRCA Archaeology has completed a Stage 2 archaeological assessment of the project area as identified in the attached graphic (yellow polygons) and defined as all lands to be impacted by the project, either by land use or physical alteration.

As per Section 2.1.2 of the 2011 Standards and Guidelines for Consultant Archaeologists by the Ministry of Citizenship and Multiculturalism (MCM) all the objectives of the Stage 2 assessment have been satisfied in that cultural resources were collected and further mitigation is required.

Five lithic artifacts were recovered (see attached graphic: red dot represents site location) which likely represents a PreContact occupation. The site has been registered with MCM as AlGw-236.

Further mitigation of the site may involve protection and avoidance or additional excavation. Should the sites be avoided during construction activities, partial clearance will be recommended, as per Section 7.8.5 in the 2011 Standards and Guidelines. Accordingly, a 20 metre protective buffer zone and an additional 50 metre monitoring zone, as per Section 7.8.5, Standard 1.e, should be established surrounding the sites. The protective buffer is a restricted area where no further activities may be allowed without further archaeological assessment. The monitoring zone will require an archaeological monitoring program during all construction activities associated with the project. The attached graphic, labeled as Buffer Zones, identifies the protective buffers (red circle) and the monitoring zones (purple circle).

However, if you would like to proceed with Stage 3 excavation of the site, an estimate can be provided with fieldwork to occur at a later date. Stage 3 excavation will eliminate the monitoring zone from all areas and reduce the protective buffer zone to a ten metre radius around the known limits of the site, as per Section 4.1, Standard 2.b. Following Stage 3, the sites may remain in situ (with the appropriate protective buffer), or it may be fully excavated, if necessary, which would remove all archaeological potential from the project area.

Should there be any deviation from the agreed upon project area, additional assessment may be necessary. Furthermore, in the unlikely event that any deeply buried deposits or human remains are encountered, all activities will cease and the TRCA Archaeology as well as the proper authorities will be contacted immediately.

T: 416.661.6600 | F: 416.661.6898 | info@trca.on.ca | 101 Exchange Avenue, Vaughan, ON L4K 5R6 | www.trca.ca

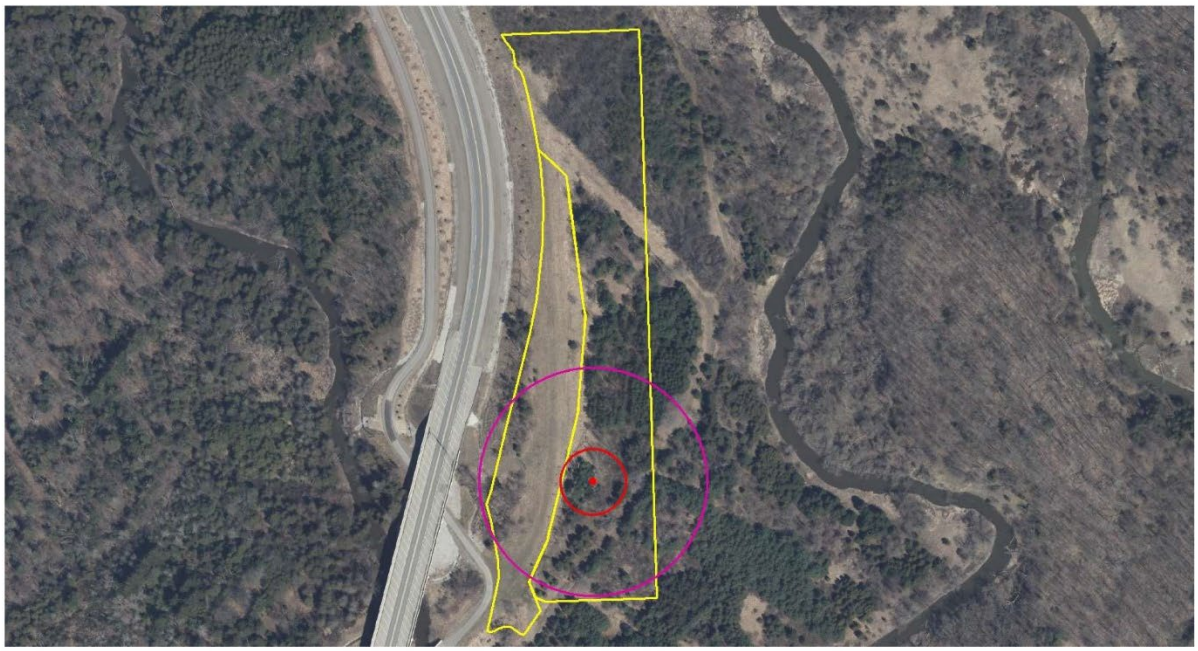
Reporting and Invoicing:
You will be invoiced for all fieldwork, reporting and associated administrative costs following completion of fieldwork and prior to issuance of the report. Please note, a field season extends from April to December. Reports accrued from the preceding field season may take up to a year from the date of fieldwork to be drafted. Accordingly, expect a delay preceding report delivery.

Draft reports may be supplied ahead of MCM submission. Expedited report completion and submission is available upon request. The final, formal report will be forthcoming following MCM acceptance.

Thank you,



Alistair R. Jolly, M.A.
Supervisor, Archaeology
Restoration & Infrastructure - Professional Services
Toronto and Region Conservation Authority
Cell: (416) 771-2004



4.0 AVOIDANCE & PROTECTION DOCUMENTATION

Peel Region

June 4, 2025

Ministry of Citizenship and Multiculturalism (MCM)
Archaeology Program Unit
Heritage Branch
Citizenship, Inclusion and Heritage Division
5th Floor, 400 University Ave.
Toronto ON M7A 2R9

To Whom it May Concern:

Re: Avoidance & Protection of the unassessed portion of the Harper (AlGw-172) Site beyond the project limits. Associated Ministry PIF# P1059-0178-2024.

This letter is to confirm that we are aware of the provisions of Section 48(1) of the Ontario Heritage Act and will ensure that there is no alteration, excavation, disturbance, interference with, destruction, removal or modification of the land or the soil situated within the limits of the protected area of the Harper Site (AlGw-172), which is of further cultural heritage or interest.

Further, we are committed to implementing the strategies for avoiding and protecting from ground alterations the unassessed portion of the Harper Site (located at the immediate south-west corner of Highway 50 and Emil Kolb Parkway), specifically as per the recommendations outlined by Archeoworks Inc. in their report[1] and as noted below.

Should above ground construction works extend right to the southern limit of the ROW on Emil Kolb, at the immediate edge of the Harper (AIG-172 site), we commit to the following:

a. "The proponent must erect a temporary barrier along the limit of the project area, issue "no-go" instructions to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction, and show the location of the area to be avoided, with explicit instructions or labelling to avoid that area, on all contract drawings, when available." A map depicting the extent of the temporary barrier and the area for avoidance is provided below (Map 1).
b. "A licensed archaeologist must inspect and monitor the area to be avoided during grading or other soil-disturbing activities to verify the effectiveness of avoidance strategies. If alteration of the archaeological site is observed at any time during the construction, the MCM must be notified immediately."
c. "Following the completion of the grading and other soil disturbing activities, a licensed archaeologist must inspect and file a Stage 4 avoidance and protection report to the MCM on the effectiveness of the strategy in ensuring that the area to be avoided remains intact."

Respectfully,



Italia Ponce, P.Eng.
Advisor
Italia.ponce@peelregion.ca
Water and Wastewater Division
Region of Peel

[1] Archeoworks Inc. (2025). *Stage 2 Archaeological Assessment for the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment report*

Peel Region

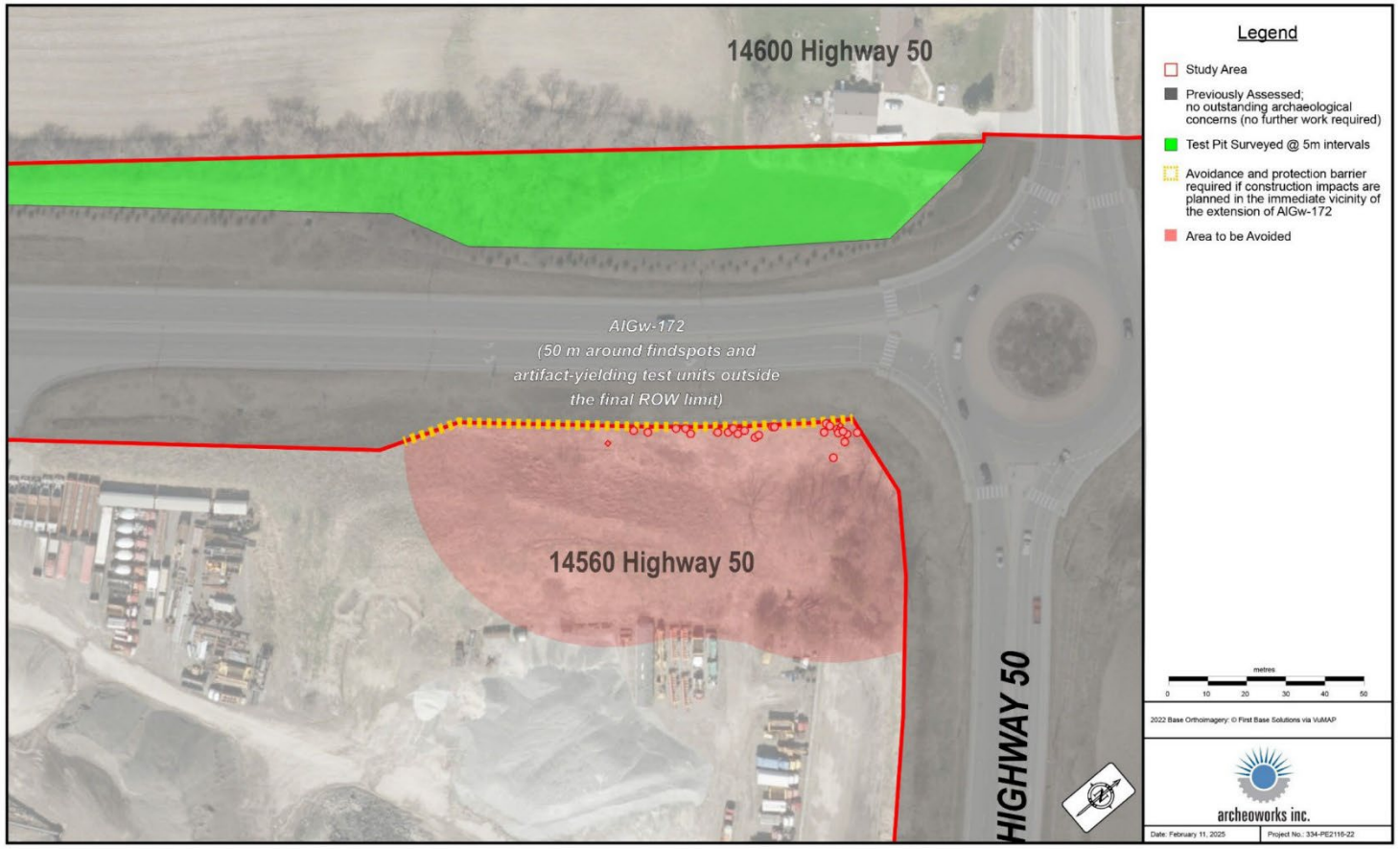


Figure 1 Location of Avoidance and Protection Barrier (yellow hatched line) and Area to be Avoided (light red shaded area)

5.0 DOCUMENTATION FOR PARTIAL CLEARANCE

Peel Region

Ministry of Citizenship and Multiculturalism (MCM)
Archaeology Program Unit
Heritage Branch
Citizenship, Inclusion and Heritage Division
5th Floor, 400 University Ave.
Toronto ON M7A 2R9

Regarding:

- **Partial Clearance Request: Stage 2 Archaeological Assessment (AA) for the Bolton Water and Wastewater Capacity Improvements Class EA, Town of Caledon, Region of Peel. Associated MCM PIF #P1059-0178-2024**

In support of proposed water and wastewater capacity improvements in the Town of Caledon, we conducted a Stage 2 AA for the above listed project. Based on the results of this investigation, one site of cultural heritage value was discovered: the H1 Site (AlGw-229).

To facilitate preliminary earthworks occurring within the project limits, we are requesting partial clearance and, as the proponent of this project, commit to the following statements:

- That no construction activities, including landscaping and/or servicing, shall take place within the 20-metre protective buffer of the H1 Site (AlGw-229);
- That any construction activities occurring beyond the 20-metre protective and within the 50-metres monitoring zone of the H1 Site (AlGw-229) must be undertaken under the supervision of a licensed archaeologist and that the licensed consultant archaeologist is empowered to stop construction if there is a concern for impacts to the archaeological site;
- That temporary snow-fencing shall be erected around the 20-metre protective barrier of the H1 site (AlGw-229) for any construction works within the Stage 2 AA study area (shown in Figure 1), which also includes any construction works outside of the 20-metre protective zone and the 50-metre monitoring zone.

Furthermore, we commit to the following:

- That "no-go" instructions will be issued to all on-site construction crews, engineers, architects, or others involved in day-to-day decisions during construction.
- That the location of the site area be avoided will be shown in all engineering drawings, where applicable and will include explicit instructions or labelling to avoid the H1 Site (AlGw-229).

We welcome feedback and assistance from the *Ministry of Citizenship and Multiculturalism* regarding this strategy and look forward to working through this process to achieve a successful conclusion regarding the protection of these archaeological sites until the appropriate archaeological assessments can occur.

Respectfully,



Italia Ponce, P.Eng.
Advisor
Italia.ponce@peelregion.ca
Water and wastewater Division
Region of Peel

Peel Region

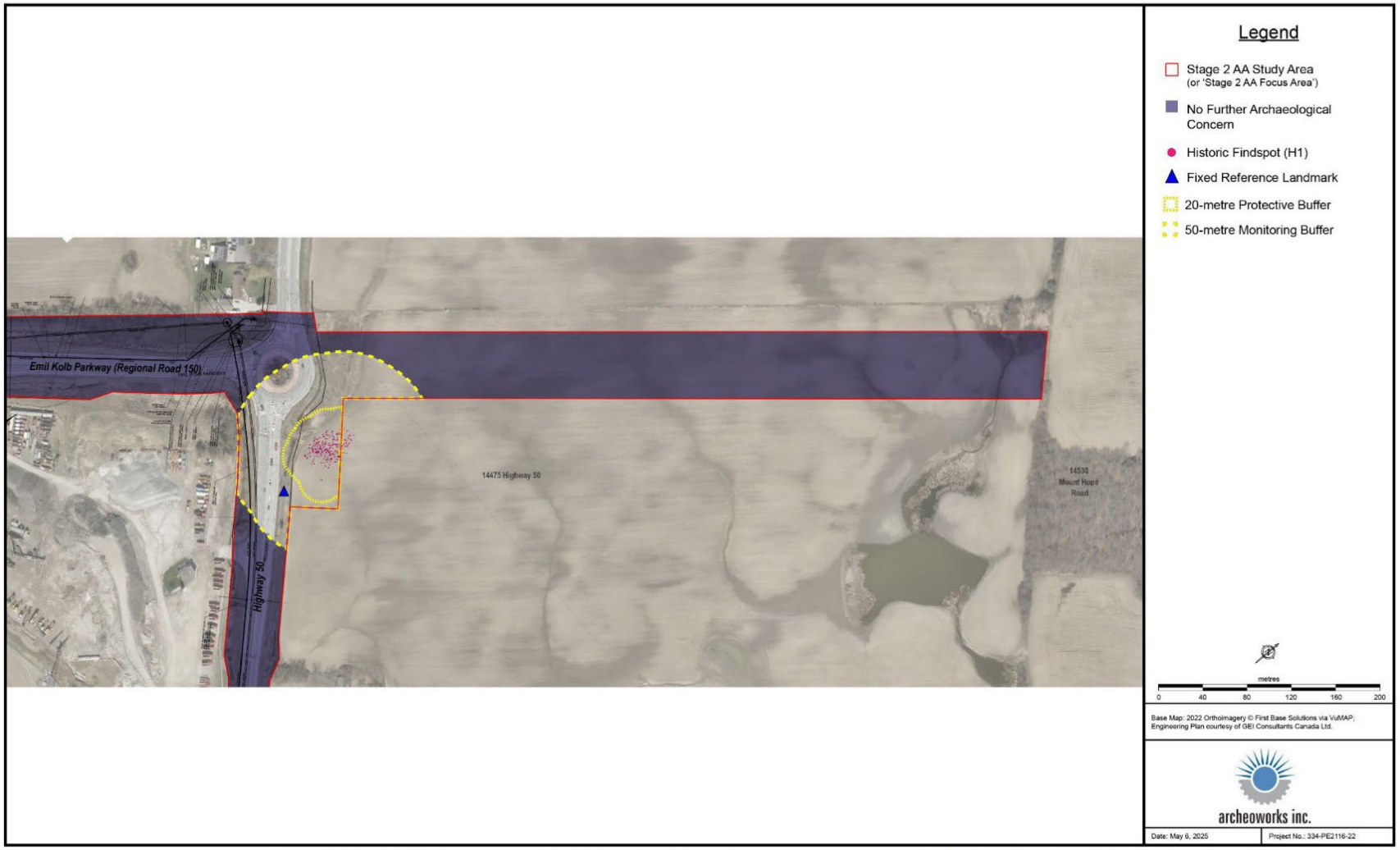


Figure 1: Location of 20-metre protective buffer (yellow hatched line) and 50-metre monitoring buffer (yellow dotted line)

ARCHEOWORKS INC.

Stage 2 Archaeological Assessment for the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment Within Lots 10-13, Concession 5; Lots 11-13, Concession 6; Lots 11-13, Concession 7; Lots 12-13, Concession 8; and Road Allowances in Between in the Geographic Township of Albion Historic County of Peel Now in the Town of Caledon Regional Municipality of Peel Ontario

Project #: 334-PE2116-22
Licensee (#): Ian Boyce (P1059)
PIF #: P1059-0178-2024

Record of Indigenous Engagement

October 31, 2025

Presented to:
GEI Consultants Canada Ltd.
Royal Centre, 3300 Highway No. 7, Suite 402
Vaughan, Ontario
L4K 4M3
T: 416.703.0667

Prepared by:
Archeoworks Inc.
16715-12 Yonge Street, Suite 1029
Newmarket, Ontario
L3X 1X4
T: 416.676.5597
F: 647.436.1938

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1.0 COMMUNICATIONS LOG 1

1.0 COMMUNICATIONS LOG

Date	Contact By	Contact With	Description
August 13, 2024	Regional Municipality of Peel, Public Works Department (Peel Region)	Beausoleil/Chimnissing First Nation (BFN); Chippewas of Georgina Island First Nation (CGIFN); Chippewas of Rama First Nation (CRFN); Haudenosaunee Development Institute (HDI); Huron Wendat First Nation (HWFN); Mississaugas of the Credit First Nation (MCFN); Six Nations of the Grand River First Nation (SNGRFN)	Introductory message to advise of the proposed development, and of upcoming field investigations, including a Stage 2 Archaeological Assessment (AA); requesting participation and input.
August 13, 2024	SNGRFN	Peel Region	Good afternoon Italia, Attached please find the 2024 Archeology Monitor Agreement to be filled in, signed and send back at your earliest convenience for processing. Thank you kindly, Dawn LaForme, Secretary/Receptionist, Six Nations Lands & Resources, (519) 753-0665
August 14, 2024	HWFN	Peel Region	Kwe Italia, We would like to participate by sending a monitor during the Stage 2 archeological assessment. Could you give us an estimate of the duration of the fieldwork? With this information, I will be able to send you a cost estimate for our participation to the project. Tiawenhk inenh, Dominique NATION HURONNE-WENDAT BUREAU DU NIONWENTSÏO Dominique Lesage Coordonnatrice des opéra□ons 255, place Chef Michel Laveau Wendake (QC) G0A 4V0 T : 418 843-3767 C : 581 305-5069 @ : dominique.lesage@Wendake.ca WENDAKE.CA

Date	Contact By	Contact With	Description
August 14, 2024	HWFN	Peel Region	Kwe Italia, Thank you for the invitation to get involved at an early stage of the project. I am cc'ing my colleague Dominique Lesage who will be able to coordinate our participation in the field work with you. Please note that Dominic Ste-Marie no longer works here. I am replacing him as land planning advisor and will be happy to continue our collaboration. Sending an email to consultations@wendake.ca for any new project remains the best way to proceed, so thank you for having used this contact method. I look forward to working with you and your team in the future, Tiawenhk, NATION HURONNE-WENDAT Bureau du Nionwentsïo Benjamin Labbé, M. Sc Conseiller en ges□on du territoire 255, place Chef Michel Laveau Wendake (QC) G0A 4V0 T : 418 843-3767 @ : Benjamin.Labbe@wendake.ca WENDAKE.CA
August 14, 2024	MCFN	Peel Region	Good Morning Italia, Unfortunately, MCFN DOCA is still in lack of an Environmental Unit and therefore unable to participate in any of the Environmental work. Please forward the Environmental and Cultural and Heritage report when completed. Adam LaForme- MCFN DOCA Archaeological Operations Supervisor will contact you regarding the field work for the Stage 2 Archaeological Assessment. Thank you Abby (LaForme) Lee Consultation Coordinator Mississaugas of the Credit First Nation (MCFN) Department of Consultation & Accommodation (DOCA) 4065 Highway 6, Hagersville, ON N0A 1H0 Ph: (905) 768 – 4260 Email: Abby.LaForme@mncfn.ca
August 27, 2024	HDI	Peel Region	Good afternoon Italia,

Date	Contact By	Contact With	Description
			It was wonderful meeting you at the July 22nd meeting. Sorry for the delayed response, I hope all is well with you. Over the last little while, I have been corresponding with Rachel Godley regarding the Peel-HDI agreement template. We have now confirmed the final draft of the agreement to be used on all Peel Region projects with HDI going forward. I would like to confirm that HDI will be participating in field investigations for the Bolton Capacity Improvement Project. I have attached a copy of the Peel-HDI agreement template to be executed prior to fieldwork commencing. May you also provide me with any past archeology reports and any relevant documents or information to the project. Also, please let me know when the fieldwork is proposed to start. Thank you, Emma Kameka 647-622-9636
September 13, 2024	Peel Region	HDI; HWFN; MCFN; SNGR	Forwarding agreement for field liaison; requesting signed copy back.
September 16, 2024	MCFN	Peel Region	Good afternoon, Italia. I am reaching out to individuals corresponding with MCFN's Dept. of Consultation and Accommodation that have included Communications@mncfn.ca as a recipient of emails or documents for DOCA. The afore mentioned email address is used by our Media and Communications Department. We kindly ask to have the Communications@mncfn.ca address removed from Consultations, Projects, Working Sites, or Agreements and other matters overseen by the Department of Consultation and Accommodation. Going forward, it is not necessary to include communications@mncfn.ca on emails to DOCA and DOCA Staff. We appreciate the effort to ensure that the information and materials have been received by the proper person. Miigwech, and enjoy the remainder of your day. Heather Jamieson [She/Her] Administrative Support Department of Consultation and Accommodation [DOCA] Mississaugas of the Credit First Nation [MCFN]

Date	Contact By	Contact With	Description
			Phone: (905) 768–4260 Location: 4065 Highway 6, Hagersville ON. N0A 1H0 Mail: 2789 Mississauga Rd. Hagersville ON. N0A 1H0 Web: https://mncfn.ca/doca-2/
September 17, 2024	HDI	Peel Region	Good afternoon Italia, Thank you for getting back to me, I hope all is well. Would it be possible for you to send the agreement to Mr. Detlor directly via DocuSign for him to sign? If so please copy me or somehow include me in order to be able to view the status on DocuSign and ensure that this gets done. Additionally, I see that you have filled out the monitor agreement however, I don't see a signature. Not sure if this is an error or tech issue on my end but please let me know. If executing the agreement via DocuSign is an issue, then I will try to return it to you signed by the end of next week. Best regards, Emma Kameka Business Manager of Monitoring and Archaeology emma@hdito.com
September 17, 2024	HWFN	Peel Region	Kwe Italia, I hope you are doing well. Thank you for reaching out with an agreement. We will review it. However, the estimated fees in the annex were not present. I have attached to this email a quote for 2 days of work. Let me know if the rates are approved and we will complete the agreement. Tiawenhk, Marie-Sophie NATION HURONNE-WENDAT BUREAU DU NIONWENTSÏO Marie-Sophie Gendron Analyste archéologue 255, place Chef Michel Laveau Wendake (QC) G0A 4V0 T : 418 843-3767 @ : marie-sophie.gendron@wendake.ca WENDAKE.CA.
September 17, 2024	Peel Region	HWFN	Confirming approval of quote.
September 18, 2024	MCFN	Peel Region	Good Afternoon Italia,

Date	Contact By	Contact With	Description
			I have attached the signed agreement. Once signed on your end please return a copy for my records. Kind regards, Adam LaForme (he/him) Manager of Archaeology Mississaugas of the Credit First Nation (MCFN) Department of Consultation and Accommodation (DOCA) 4065 Highway 6 North, Hagersville, ON N0A 1H0 Cell 289-527-2763
September 20, 2024	SNGRFN	Peel Region	Good afternoon Italia, Please find the monitor agreement needing a signature on you end. Please return a fully executed agreement back when ready. Thank you kindly, Dawn LaForme, Secretary/Receptionist, Six Nations Lands & Resources, (519) 753-0665
September 27, 2024	Archeoworks Inc. (AW)	HDI; HWFN; MCFN; SNGRFN; BFN; CGIFN; CRFN	Following up with the Region of Peel's upcoming Stage 2 AA for project; providing tentative field schedule; requesting additional information regarding project.
September 30, 2024	HDI	AW	Hello Lee, Thank you for providing us with this information, I'll be sure to have monitors at the ready for the anticipated start date. Please be sure to copy our field director; Adam Zachariah (***adam@hdito.com***) on all emails pertaining to fieldwork information. Best regards, **Emma Kameka** **Business Manager of Monitoring and Archaeology** ***emma@hdito.com***  **Haudenosaunee Development Institute**
October 1, 2024	SNGRFN	AW	*Good morning Lee,* *Please note that all correspondence must be directed to Tanya Hill-Montour, Archaeology Supervisor as the main contact for all Archaeology and just cc myself.*

Date	Contact By	Contact With	Description
			I have cc'd her on this message and she will be happy to discuss anything further. *Thank you kindly,* **Dawn LaForme***, Secretary/Receptionist, Six Nations Lands & Resources, (519) 753-0665*
October 2, 2024	Peel Region	HDI	Following up on agreement sent via DocuSign.
October 3, 2024	HWFN	AW	Kwe Lee, Thank you for sending this information. Do you have an estimate as to the number of workdays on the field so we can prepare a cost estimate for monitoring? Tiawenhk, **NATION HURONNE-WENDAT** Bureau du Nionwentsïo _____ **Benjamin Labbé, M. Sc** Conseiller en gestion du territoire 255, place Chef Michel Laveau Wendake (QC) G0A 4V0 T : 418 843-3767 @ : ***Benjamin.Labbe@wendake.ca*** **WENDAKE.CA**
October 3, 2024	AW	HWFN	Advising of previous communication with the Region of Peel and cost estimate was prepared by Marie-Sophie.
October 11, 2024	AW	HDI	Provide an update regarding fieldwork and advising additional details to follow; also requesting if there are any engagement requirements beyond the scope in the FLR/Monitoring agreement that they be advised.
October 11, 2024	AW	SNGRFN	Provide an update regarding fieldwork and advising additional details to follow; attached agreement with Region of Peel; also requesting if there are any engagement requirements beyond the scope in the FLR/Monitoring agreement that they be advised.
October 11, 2024	AW	HWFN	Provide an update regarding fieldwork and advising additional details to follow; attached agreement with Region of Peel; also requesting if there are any

Date	Contact By	Contact With	Description
			engagement requirements beyond the scope in the FLR/Monitoring agreement that they be advised.
October 11, 2024	AW	MCFN	Provide an update regarding fieldwork and advising additional details to follow; attached agreement with Region of Peel; also requesting if there are any engagement requirements beyond the scope in the FLR/Monitoring agreement that they be advised.
October 11, 2024	SNGRFN	AW	Thank you Kim, have interest in the project Dawn can we get a agreement over to the client. **Nia':wen ko:wa (thankyou)** **Tanya Hill-Montour** **Six Nations of the Grand River Archaeological Supervisor** **226.388.0665**
October 11, 2024	AW	CGIFN; CRFN; BFN	Following up to confirm interest in participating in planned Stage 2 AA.
October 11, 2024	SNGRFN	AW	*Hi Tanya, an agreement has been put in place, good to go* *Thank you Kindly,* ***Dawn LaForme,*** *Secretary/Receptionist, Lands and Resources (519) 753-0665*
October 11, 2024	AW	SNGRFN	Advising an agreement likely already in place per Region of Peel communication.
October 11, 2024	AW	SNGRFN	Thanking for confirmation.
October 11, 2024	MCFN	AW	Aanii, Thank you for sharing the information with me. I have added this work to our schedule. Before the fieldwork begins, I will email you to confirm a Field Liaison Representative (FLR) and give you their contact information. Please send along the details when you can. I hope you have a wonderful Thanksgiving weekend! Miigwech, **Joelle Williams (she/her)** **Field Coordinator**

Date	Contact By	Contact With	Description
			Mississaugas of the Credit First Nation (MCFN) **Department of Consultation and Accommodation (DOCA)** **4065 Highway 6 North, Hagersville, ON N0A 1H0** **Web: *www.mncfn.ca*** **Cell Phone: (905) 870-2918**
October 13, 2024	HDI	AW	Hi Kim, Thanks for letting us know, we will have monitors ready to join your team on site. I'll keep an eye out for the follow-up email with site details as mentioned in your email. There is an EA associated with this project that we are already in touch with Peel Region about, so in terms of archaeology and monitoring I have nothing further to add, I appreciate you checking with us! Have a great long weekend, **Emma Kameka** **Business Manager of Monitoring and Archaeology** ***emma@hdito.com*** **Haudenosaunee Development Institute**
October 15, 2024	AW	MCFN; HDI; HWFN; SNGRFN	Provided project details, fieldwork date, work start time, stage of work, supervisor contact details, PPE and number of crew.
October 15, 2024	HDI	AW	Sge:no Ian, Nya:weh for this update, I will coordinate with our Toronto office to see if they are sending monitors out or not. So the work at 12348 The Gord Rd Stage 3 work will be paused tomorrow?

Date	Contact By	Contact With	Description
			Nya:weh, Raechelle Williams
October 15, 2024	AW	HDI	Advising that if completed early, will return to Gore Road projects afterwards.
October 15, 2024	MCFN	AW	Aanii, The Field Liaison Representatives (FLRs) are scheduled to be onsite on Wednesday, October 16, 2024. Donovan King 519-774-3711 If there is a cancellation or other schedule change, please get in touch with the FLR(s) directly. Also, please notify (***field.coordinator@mncfn.ca***) and cc me Adam LaForme (***Adam.LaForme@mncfn.ca***). Thank you, Adam
October 15, 2024	HDI	AW	Hello Ian, We will definitely have monitors out on site to join your team! Our FDL: Adam Zachariah, will confirm once he is back from being out in the field. Thanks for confirming with us. Take care, **Emma Kameka** **Business Manager of Monitoring and Archaeology** ***emma@hdito.com*** **Haudenosaunee Development Institute**
October 16, 2024	MCFN	AW	Aanii, Our scheduled FLR, Donovan King, was absent today. Please let me know if this fieldwork will be completed today or continue tomorrow. Miigwech,

Date	Contact By	Contact With	Description
			Joelle Williams (she/her) **Field Coordinator** **Mississaugas of the Credit First Nation (MCFN)** **Department of Consultation and Accommodation (DOCA)** **4065 Highway 6 North, Hagersville, ON N0A 1H0** **Web: *www.mncfn.ca*** **Cell Phone: (905) 870-2918**
October 16, 2024	MCFN	AW	Aanii, I have an FLR available this afternoon. Leah Sault +1 (226) 388-9951 will be joining the crew after lunch. Miigwech, **Joelle Williams (she/her)** **Field Coordinator** **Mississaugas of the Credit First Nation (MCFN)** **Department of Consultation and Accommodation (DOCA)** **4065 Highway 6 North, Hagersville, ON N0A 1H0** **Web: *www.mncfn.ca*** **Cell Phone: (905) 870-2918**
October 16, 2024	MCFN	AW	Aanii, The Field Liaison Representatives (FLRs) are scheduled to be onsite on Thursday, October 17, 2024. 1. Leah Sault +1 (226) 388-9951

Date	Contact By	Contact With	Description
			If there is a cancellation or other schedule change, please get in touch with the FLR(s) directly. Also, please notify me (***field.coordinator@mncfn.ca***) and cc Adam LaForme (***Adam.LaForme@mncfn.ca***). Miigwech, **Joelle Williams (she/her)** **Field Coordinator**  **Mississaugas of the Credit First Nation (MCFN)** **Department of Consultation and Accommodation (DOCA)** **4065 Highway 6 North, Hagersville, ON N0A 1H0** **Web: *www.mncfn.ca*** **Cell Phone: (905) 870-2918**
October 16, 2024	AW	HDI; SNGRFN; HWFN; MCFN	Just letting you know that we'll be returning to this project tomorrow in the hopes of wrapping it up. Our meeting address will be the farmers entrance just south of 14320 Mount Hope Road (please see attached image). As always, please let us know if you have any questions or concerns. Have a great evening! Ian [***Timothy Nanticoke (HDI), Darryl VanEvery (Six Nations), and Leah Sault (MCFN) were on site October 16 & 17***]
October 17, 2024	HWFN	AW	We do not have a monitor available to join your team on the Bolton project this week. Can you send me the schedule for next week? I will make sure to have a monitor available to join your team. Tiawenhk inenh, Dominique

Date	Contact By	Contact With	Description
			NATION HURONNE-WENDAT BUREAU DU NIONWENTSÏO **Dominique Lesage** Coordonnatrice des opérations 255, place Chef Michel Laveau Wendake (QC) G0A 4V0 T : 418 843-3767 C : 581 305-5069 @ : ***dominique.lesage@Wendake.ca*** **WENDAKE.CA**
October 17, 2024	MCFN	AW	Aanii, The Field Liaison Representatives (FLRs) are scheduled to be onsite on Friday, October 18, 2024. 1. Leah Sault +1 (226) 388-9951 2. Stephen Land +1 (226) 584-0241 If there is a cancellation or other schedule change, please get in touch with the FLR(s) directly. Also, please notify me (***field.coordinator@mncfn.ca***) and cc Adam LaForme (***Adam.LaForme@mncfn.ca***). Miigwech, **Joelle Williams (she/her)** **Field Coordinator** **Mississaugas of the Credit First Nation (MCFN)** **Department of Consultation and Accommodation (DOCA)**

Date	Contact By	Contact With	Description
			4065 Highway 6 North, Hagersville, ON N0A 1H0 **Web:** *www.mncfn.ca* **Cell Phone: (905) 870-2918**
October 17, 2024	AW	MCFN	Advising fieldwork is complete and will not be returning to project the following day.
October 17, 2024	MCFN	AW	Miigwech for the update, Diana. Have a nice evening. **Joelle Williams (she/her)** **Field Coordinator** **Mississaugas of the Credit First Nation (MCFN)** **Department of Consultation and Accommodation (DOCA)** **4065 Highway 6 North, Hagersville, ON N0A 1H0** **Web:** ***www.mncfn.ca*** **Cell Phone: (905) 870-2918**
October 18, 2024	HWFN	AW	Kwe Kim, Tiawenhk for your quick reply! Our monitor Jérémie Vallée Gros-Louis will be with your team next week. If needed, you can reach him at (418)445-1341. Entïio'! Dominique **NATION HURONNE-WENDAT** BUREAU DU NIONWENTSÏO **Dominique Lesage** Coordonnatrice des opérations 255, place Chef Michel Laveau Wendake (QC) G0A 4V0 T : 418 843-3767 C : 581 305-5069 @ : ***dominique.lesage@Wendake.ca***

Date	Contact By	Contact With	Description
			WENDAKE.CA
November 8, 2024	AW	MCFN; HWFN; SNGRFN; HDI	I hope all is well. Please note that we'll be undertaking another stage 2 assessment as a continuation of this project, commencing November 18th, 2024. The updated project details can be found below. If there are any questions or concerns, please let us know **Date:** November 18th, 2024 (one partial day) **Archaeological Site Address:** 14541 Highway 50, Bolton **Parking:** Address is just south of the Highway 50/Emil Kolb roundabout (see attached image) **Work Start:** 8:30am **Stage of work:** Stage 2AA **Supervisors:** Ian Boyce (705-875-6572) Diana Hutsulak-Alonso (647-896-2945) **PPE:** Hi-Vis Vest, Steel-toed boots, hard hat. **Number of crew:** 12 All the best, Ian **Ian Boyce, M.A., B.A.H.** **Senior Archaeologist, Field Director**  16715-12 Yonge St., Suite 1029, Newmarket, ON, L3X 1X4 T: 705-875-6572 [***Jordan Jamieson (MCFN), Tyson Zachariah (HDI), and Jordan Zachariah (HDI) were on site November 18th***]
November 11, 2024	MCFN	AW	Aanii, Thank you for sharing the information with me. I have added this work to our schedule. Before the fieldwork begins, I will email you to confirm a Field Liaison Representative (FLR) and give you their contact information.

Date	Contact By	Contact With	Description
			Miigwech, **Joelle Williams (she/her)** **Field Coordinator**  **Mississaugas of the Credit First Nation (MCFN)** **Department of Consultation and Accommodation (DOCA)** **4065 Highway 6 North, Hagersville, ON N0A 1H0** **Web: *www.mncfn.ca*** **Cell Phone: (905) 870-2918**
November 14, 2024	AW	HDI; SNGRFN; HWFN	Advising of upcoming fieldwork and advising on estimated time to complete.
November 14, 2024	AW	HDI; SNGRFN	Advising of upcoming fieldwork and advising on estimated time to complete.
November 14, 2024	HDI	AW	Good afternoon Ian, Thank you for letting us know. We will be sure to have monitors out on site to join your team during fieldwork, Adam should be in touch to confirm our monitors' participation shortly. Take care, **Emma Kameka** **Business Manager of Monitoring and Archaeology** ***emma@hdito.com***  **Haudenosaunee Development Institute**
November 15, 2024	MCFN	AW	Aanii, The Field Liaison Representatives (FLRs) are scheduled to be onsite on Monday, November 18, 2024.

Date	Contact By	Contact With	Description
			1. Jordan Jamieson +1 (289) 260-3863 If there is a cancellation or other schedule change, please get in touch with the FLR(s) directly. Also, please notify me (***field.coordinator@mncfn.ca***) and cc Adam LaForme (***Adam.LaForme@mncfn.ca***). Miigwech, **Joelle Williams (she/her)** **Field Coordinator**  **Mississaugas of the Credit First Nation (MCFN)** **Department of Consultation and Accommodation (DOCA)** **4065 Highway 6 North, Hagersville, ON N0A 1H0** **Web:** *www.mncfn.ca* **Cell Phone: (905) 870-2918**
August 14, 2025 – September 18, 2025	Peel Region	BFN; CGIFN; CRFN; HDI; HWFN; MCFN; SNGRFN	Circulation of draft Stage 2AA report for review and comment

STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT

HR24-19 Bolton Water and Wastewater Capacity Improvement EA

ORIGINAL REPORT
January 30, 2026
PIF P303-0770-2024
Licensee: **Alistair Jolly (P303)**

Lot 12, Concession 5, and Lots 12 to 13, Concession 6,
Geographic Township of Albion, Historic Peel County
in the Town of Caledon, Regional Municipality of Peel

Executive Summary

Toronto and Region Conservation Authority (TRCA) was contacted regarding water and wastewater capacity improvements by the Region of Peel. The work will focus on water and wastewater capacity improvements for the community of Bolton, in the Town of Caledon. The project looks to build a new sewer and pumping station on TRCA property. As such, a Stage 1 and 2 archaeological assessment was triggered by internal TRCA policy outlined in the *Archaeology Resource Management Services Guidelines and Procedures* for the water and wastewater capacity improvement project. The project area is located on Lot 12, Concession 5, and Lots 12 and 13, Concession 6, in the Geographic Township of Albion, Historic Peel County in the Town of Caledon, Regional Municipality of Peel. Permission for this assessment and the right to remove artifacts was granted to TRCA Archaeology by TRCA.

A thorough investigation of the project area was conducted in accordance with the 2011 Standards and Guidelines for Consultant Archaeologists (2011 Standards and Guidelines), published by the Ministry of Citizenship and Multiculturalism (MCM), to determine if any cultural heritage resources were present and in danger of being impacted by the proposed construction.

A portion of the project area had been previously assessed for the Bolton Arterial Road and Trails by TRCA (TRCA 2012, 2016). With previous archaeological assessments having fulfilled the Stage 1 and 2 archaeological assessment requirements within their respective portions of the current project area, these areas were exempt from test pit survey during the current field investigations.

The remainder of the project area was subjected to shovel test pit survey at five-metre intervals, which involves the excavation of 30-centimetre diameter test pits to five centimetres below the depth of sterile subsoil. At the onset of test pit survey, disturbed ground conditions were encountered. Therefore, these areas were strategically tested at 10-metre intervals according to professional judgement as per *Section 2.1.8, Standard* 2 of the 2011 Standards and Guidelines to determine the extent and nature of disturbed ground conditions. When disturbed soil conditions were no longer encountered, survey intervals returned to five-metres.

During the test pit survey, one positive test pit was encountered. The positive test pit yielded one lithic artifact. As per *Section 2.1.3, Standard 2, Option A* of the 2011 Standards and Guidelines, test pits containing archaeological material trigger intensified investigation, which entail an additional eight test pits excavated in a grid, spaced 2.5 metres around the positive test pit, as well as a one metre test unit excavated over the positive test pit. No additional artifacts were recovered from the additional test pits, however an additional six (6) lithic artifacts were recovered from the test unit excavation. All test pits and the test unit were backfilled.

As a collection of more than five (5) lithic artifacts, the site was registered with the MCM and given the Borden designation **AlGw-236**. Due to the small size of the assemblage, the site can at best be described as a campsite or specialist activity area. The artifact assemblage was derived from late stage lithic reduction activities.

It is therefore recommended that:

- The AlGw-236 site has further cultural heritage value or interest (CHVI) and requires Stage 3 site specific assessment. A Stage 3 assessment should be conducted in a manner suitable for a Pre-Contact site where it is not yet known if its level of CHVI will result in a recommendation to proceed to Stage 4 mitigation of development impacts. A 20-metre protective buffer with “No-Go” instructions, as well as a 50 metre

monitoring buffer from the limits of the protective buffer, must be established around the AlGw-236 site. No construction activities, including landscaping and/or servicing, shall take place within the 20-metre protective buffer of this site.

In the event development is proposed within 20 metres of AlGw-236, a comprehensive Stage 3 archaeological assessment is to be completed in accordance with the 2011 *Standards and Guidelines* prior to any intrusive activity that may result in the destruction or disturbance of the archaeological site.

Any construction activities occurring beyond the 20-metre protective buffer and within the 50-metre monitoring zone must be undertaken under the supervision of a licensed archaeologist to ensure there are no destructive activities occurring to the archaeological site. Should grading or other soil disturbing activities caused by the development project extend to the edge of the 20-metre protective buffer, snow fencing must be erected around the archaeological site, including its 20-metre protective buffer.

If new archaeological resources are encountered, the licensed consultant archaeologist is empowered to stop construction and a Stage 3 archaeological assessment must be conducted for the new finds.

However, if there is any deviation from the agreed upon project area, additional assessment may be necessary. Furthermore, if any deeply buried deposits or human remains are encountered, all activities will cease and TRCA Archaeology as well as the proper authorities will be contacted immediately.

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Project Personnel

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1.0 Project Context

1.1 Development Context

TRCA was contacted regarding water and wastewater capacity improvements by the Region of Peel. The work will focus on water and wastewater capacity improvements for the community of Bolton, in the Town of Caledon. The project looks to build a new sewer and pumping station on TRCA property. The use of heavy equipment will be employed for the construction of this infrastructure. The proposed construction activities would cause deep and extensive damage to the soils within the project area. A Stage 1 and 2 archaeological assessment was required ahead of any ground disturbing activities.

As such, a Stage 1 and 2 archaeological assessment was triggered by internal TRCA policy outlined in the *Archaeology Resource Management Services Guidelines and Procedures* for the water and wastewater capacity improvement project. Access will be via an existing parking lot and gravel pathways. Staging areas will be within the existing parking lot. The project area is located on Lot 12, Concession 5, and Lots 12 and 13, Concession 6, in the Geographic Township of Albion, Historic Peel County in the Town of Caledon, Regional Municipality of Peel (**Maps 1 to 2**).

Permission for this assessment and the right to remove artifacts was granted to TRCA Archaeology by TRCA.

This project was undertaken within lands covered by Treaty 19, also known as the Ajetance Purchase, signed by the Mississaugas of the Credit First Nation and the British Crown in October of 1818.

We also acknowledge that the archaeological assessment reported here was undertaken within Traditional Territories of the Huron-Wendat Nation, the Anishinaabeg of the Williams Treaty First Nations, and the Haudenosaunee. TRCA appreciates and respects the history and diversity of the land, and is grateful to have the opportunity to work in this territory.

1.2 Historical Context

Archival research into heritage documents was conducted as a component of this study and a detailed historical overview of the local area is provided.

From an archaeological perspective, Indigenous Peoples have lived in Southern Ontario since the end of the last Ice Age around 12,000 years ago. It is difficult to identify much of this rich history in very urban areas like the Greater Toronto Area, because of intense and longstanding urbanization. These urban areas saw an incredible amount of construction and land disturbing activities in the last century, which has removed much of the archaeological record of land use and settlement. This is not to say that there is no evidence of the presence of Indigenous Peoples in such areas, only that much has been destroyed and/or removed, thus making it more difficult to understand the settlement history of these areas of Southern Ontario.

The subsequent Indigenous chronology provided in **Table 1**, was constructed from Ellis and Ferris (1990) and describes the general characteristics/defining traits of each archaeological time period. Euro-Canadian settlement is presented from a broad regional scale and narrowing down to individual properties.

***Table 1*. Archaeological Time Periods and General Characteristics**

Time Period	Subsistence Strategies	Settlement Strategies	Environment	General/Defining Characteristics
Paleo (12,000 to 10,000 BP)	Hunter Gatherers	Semi-Nomadic	Post-Glacial/ Spruce Parkland	- Fluted Points (Early) - Higher Dependency on Exotic Tool Stone - Mainly Small Sites - Fairly Uniform Artifact Assemblages
Archaic (10,000 to 2,800 BP)	Hunter Gatherers	Semi-Nomadic/ Seasonal Round	Early – Coniferous Dominated Forests Late – Carolinian Forest Environment	- Groundstone Tools Introduced - Intense Diversification of Artifacts and Subsistence Strategies - Sites Become More Variable in Size and Type
Woodland (2,800 BP to 1600 CE)	Horticulturists	Semi-Sedentary/ Sedentary	Carolinian Forest Environment	- Ceramics Introduced - Communities Coalesce into Village Sites - Shift to Reliance on Crops - Introduction of Bow and Arrow - European Contact and Trade Goods (Late)

Contact Period – AD 1600 to 1650

Also called the Early Historic Period, these years are characterized by the arrival of a small number of Europeans interested in exploration, trade, and establishing missions, coupled with a gradual adoption of European materials by First Nations peoples.

Exploration and fur trade activities between Lake Ontario and the upper Great Lakes were carried out along well-established trails linking Lake Ontario to the Holland River, Lake Simcoe and Lake Huron. The "*Passage de Taronto*" also known as the Toronto Carrying Place Trail, was actually a series of interconnected trails with two main branches; the west branch followed the Humber River, and the east branch followed the Rouge River. The French explorers and fur traders began to travel along the Lake Ontario shoreline and explore parts of the north shore inland. They followed the centuries-old route of the well-established west branch of the Toronto Carrying Place Trail along the Humber River and the east branch along the Rouge River north to the Holland River and beyond, to the upper lakes.

The villages of Teiaiagon and Ganatsekwyagon were established at strategic trading locations at the mouths of the Humber and Rouge Rivers, effectively controlling access to the west and east branches of the Toronto

Carrying Place Trail. Teiaiagon and Ganatsekwyagon were also connected east-west by an overland route along the lakeshore.

Post Contact Period – AD 1650 to Present

The Post Contact period is characterized by an increasing European presence in the Americas, as well as their decreasing reliance on Indigenous communities. It is during this period that the first larger European centered communities are founded and expand in what would become Ontario. There is also a push for independence from European oversight and control during the Post Contact Period with the American Revolutionary War and the War of 1812. New systems of oversight and land purchasing are also developed during this period by the British to allow for an increase in colonization of Canada and reorganization of control of its citizens.

Following the signing of the Treaty of Paris, which passed New France into British hands, King George III issued the Royal Proclamation, a document attributed to the first formal recognition of Indigenous rights. The Royal Proclamation asserted the British Crown's sovereignty of the region, while also declaring the land to be in possession of the Indigenous peoples who lived there. It forbade non-Indigenous people from entering the land and denied individual land purchasing rights. Only the Crown could purchase land from the Indigenous peoples living there, and this land could then subsequently be bought from the Crown.

Several treaties were negotiated between the Crown and the Chippewa, the Mississauga, and the Five Nation Iroquois, that potentially impact lands within the Greater Toronto Area including: the Treaties of 1701, the Toronto Purchase (1805), the Head of the Lake Treaty (1806), the Ajetance Treaty (1818), and the Williams Treaties (1923).

Peel County

The County of Peel was created in 1805 following the purchase of the southern part of the Mississauga Tract by the British Crown. The territory, encompassing an area that stretched from Lake Ontario to the approximate current location of Eglinton Avenue was named after Sir Robert Peel, a past Prime Minister of England. The First Purchase of Peel County included the survey of the southern half of Toronto Township, while the Second Purchase included the northern half of Toronto Township, as well as the townships of Albion, Caledon and Chinguacousy. This Second purchase referred to as the *New Survey* had greatly extended the northern boundary of the county by an additional 262,236 hectares (648,000 acres) following purchase of the remainder of the Mississauga Tract in 1818 (Walker & Miles 1877).

The lot and concession grid pattern of the New Survey was distinct from that of the previous survey, with a different orientation of concessions and lot dimensions as the 200-acre (80.9 hectares) lots were now typically granted in square 100 acre (40.5 hectare) parcels. This configuration was intended to facilitate farming and provide access to transportation corridors (Walker & Miles 1877).

Albion and the Gore of Toronto townships included eleven concessions laid out west to east. In the townships of Caledon, Chinguacousy and North Toronto, six concessions were laid out on either side of Hurontario Street, also known as Centre Road. As this center baseline duplicated the numbering of the concessions, concessions were further identified as West of Hurontario Street (WHS) or East of Hurontario Street (EHS). In South Toronto Township, concession numbers follow a similar duplication divided by the baseline of Dundas Street. These concessions are identified as North of Dundas Street (ND) and South of Dundas Street (SD) (Walker & Miles 1877).

Fully surveyed between 1818 and 1819, the townships of Albion, Caledon and Chinguacousy were opened for settlement in 1820. Peel was considered a component of York County and was governed by the Home District Council that met in Toronto until 1851. Between 1851 and 1866 Peel was governed by a council made up of members from the United Counties of York and Peel (Walker & Miles 1877).

Early settlements in the townships developed around water powered mill sites on the Credit and Humber Rivers and at various crossroads. Development was also influenced by local landforms such as the Peel Plain, the Niagara Escarpment and the Oak Ridges Moraine. By 1821, 120 new inhabitants called the area home. In the 1870s the arrival of several railways, including the Toronto Grey and Bruce, Hamilton and Northwestern and Credit Valley, spurred additional settlements at various junctions (Walker & Miles 1877).

Albion Township

The land within Albion Township was opened for settlement in 1819 and was given the ancient name of England. Historical notes on the township indicate that the land was well supplied with water from the Humber River. With its many winding branches that stretch entirely through the length of the township, settlers took full advantage of the water power provided by the river to establish mills.

Albion formed part of the townships that were situated in the rear of the choicer townships which fronted on Lake Ontario. The front townships were surveyed and settled first as the close proximity to the water was preferred by early settlers, and hence opening lines of commerce, communication and travel between communities. The population of Albion Township in 1821 was only 110 people, however by 1848 the population had increased to 3,567 people.

Lot Summary

The project area is situated within Lot 12, Concession 5, and Lots 12 and 13, Concession 6, in the Geographic Township of Albion, Historic Peel County. A review of nineteenth century maps was conducted to provide a history of land use and ownership of the property. The maps reviewed include the Tremaine's 1859 Map of Peel County (**Map 3**) and the 1877 Walker & Miles Illustrated Atlas of Peel County (**Map 4**). **Table 2** details the results of this review by displaying the property owners and historic features of archaeological potential as they were noted on the maps.

***Table 2*. Nineteenth Century Residents and Features on Historical Mapping**

Maps	Concession	Lot	Landowner(s)	Historical Feature(s)
1859 Tremaine	5	12 N ½	Geo Elliott	Watercourse, and Roadways
	6	12	Geo. Evans	Watercourse, and Roadways
		13 S ½	Rich^{d} Shore	Roadway
1877 Walker & Miles	5	12 N ½	Geo Elliott Sr.	Two Structures, One Orchard, Watercourse, Roadways
	6	12		
		13 S ½	Abram Taylor	One Structure, and Roadway

The 1859 Map of Peel County depicts the North half of Lot 12, Concession 5 owned by a George (Geo.) Elliott. No structures or orchards are depicted; however, a roadway runs through Elliots property as well as a branch of

the Humber River. The Lot 12, Concession 6 property is owned by a George (Geo.) Evans. No structures or orchards are depicted, a branch of the Humber River flows through the south half of the property. The Lot 13, Concession 6 Property is shown as divided into north and south halves, where the project area falls within Richard (Rich[d]) Shore's southern half. No structures or orchards are depicted on Shore's property. The same roadway is depicted as the lot boundary between the concession blocks.

As archaeological sites can and do ignore modern boundaries, an examination of the adjacent lots was conducted to determine if any historical features were present within close proximity (i.e. 300 metres) to the project area. As the presence of historical features can increase the potential for the identification and recovery of archaeological sites, any features within close proximity to the project area on the adjacent lots were noted. No additional historical structures or features are depicted within close proximity of the project area on the neighbouring lots.

The 1877 atlas still depicts Elliott as the owner of north half of Lot 12, Concession 5. Two structures and orchard are located within close proximity of the project area on Elliott's property. The watercourse and roadways remain unchanged. Evans is still depicted as the owner of Lot 12, Concession 6 where no changes are depicted on the Lot within close proximity to the project area. An Abram Taylor is now depicted as the owner of the Lot 13, Concession 6 property and a single structure is now depicted. No additional historical structures or features are depicted within close proximity of the project area on the neighbouring lots.

While no structures are located directly within the project area, historical mapping reveals that historical structures, a watercourse, and roadways are located within close proximity (i.e. 300 metres) of the project area. Given the close proximity of these historical features, there is elevated potential for the recovery of nineteenth century cultural material within the project area. It should also be stressed that not every aspect of potential interest today would have been illustrated on these maps and unknown features could be located within the project area. It is probable that outbuildings, such as shanties were located on some of the properties that are not illustrated on nineteenth century maps. Consequently, the possibility remains that farm middens, outbuildings, or tenant structures may be encountered.

Present Land Use

The project area is presently used as greenspaces in the Town of Caledon.

1.3 Archaeological Context

The general geography and geology, previous archaeological sites registered in the vicinity, site predictive models and previous archaeological assessments within 50 metres of the current project area were reviewed to provide archaeological context for the current project area.

General Geography and Geology

The project area is located in the South Slope physiographic region of southern Ontario. The South Slope is a sloping plain that extends across the lower headwater areas in a band from an elevation of about 245 metres above sea level at the boundary with the Oak Ridges Moraine to about 220 metres at the southern boundary with the Peel Plain, with a second lower band along the southern boundary of the Peel Plain to the Lake Iroquois shoreline. This region represents the southern flank of the Oak Ridges Moraine and is underlain by glacial till. The resulting soil types are predominantly clay with some clay loam, and loam. The topography of

this physiographic region generally slopes south toward Lake Ontario, though the rivers that bisect the South Slope, have deep cut valleys (Chapman and Putnam 1984:173).

The project area is also situated within the Humber River Watershed, which is a part of the Northern Lake Ontario Drainage. The river originates in the Town of Caledon and the Townships of Adjala-Tosorontio and Mono and flows through 908 square kilometres into Lake Ontario in the City of Toronto. It is the largest watershed in the Toronto region and flows through a number of noteworthy areas, namely the Niagara Escarpment, the Oak Ridges Moraine and especially through the agricultural lands and century farms of the South Slope and Peel Plain. In fact, nearly half of the land base within the watershed is employed for livestock and cash crops.

The watershed has witnessed settlement since the end of the last ice age and was traversed as part of the overland route known as the Toronto Carrying Place Trail linking Lake Ontario to the Upper Great Lakes. Étienne Brûlé was the first European to encounter the Humber River and since then the watershed has seen significant European settlement. Because of this heritage value, the Humber River was officially designated as a Canadian Heritage River in 1999. Located between the Great Lakes-St. Lawrence Forest Region and the Carolinian Forest, the Humber River supports a variety of tree species common to both regions. The watershed also provides high quality habitats for game, fish, and fowl.

Current Land Use and Conditions

The project area is currently part of the Bolton Resource Management Tract in the Town of Caledon. The topography of the project area is gently rolling with an elevation range of 225 to 255 metres above sea level (**Map 5**). The native soil types within the project area are King clay loam, a grey-brown podzolic with few stones and good drainage, and Bottom Land, an alluvial soil with variable drainage (OMAFRA 2009).

Reports Documenting Archaeological Assessments within 50 metres

Four reports documenting previous archaeological assessments within 50 metres of the project area were identified by the Ministry of Citizenship and Multiculturalism (MCM) and TRCA project records (**Table 3**).

***Table 3*. Previous Archaeological Assessments within 50 Metres**

PIF	Project Name	Within PA	Methodology	Findings	Recommendations
P303-035-2009	*Archaeological Assessment of TRCA Property in the Town of Caledon (Stage 1-2), Bolton Borehole and Access Road Project, Lot 13 Concession VI, Town of Caledon, Region of Peel.*	No	Test Pit Survey at 5-metres (100%)	Single Isolated Nondiagnostic Findspot (Lithic)	No Further Archaeological Assessments Required
P303-101-2011	*Archaeological Assessment (Stage 1-2) in the Town of Caledon, Peel Region, Bolton Arterial Road, Lots 10 through 13, Concession V, Lots 12 and 13, Concession VI, Historic Albion Township, Peel County.*	Yes	Slope (10%), Disturbed (10%), Test Pit Survey at 5-metres (60%), Pedestrian Survey at 2-metres (20%)	Additional Material related to previously known Taylor House (AlGw-160), Identification of Goodfellow site (AlGw-171), 3 isolated Nondiagnostic lithics (not bordenized), Modern Foundations (not bordenized)	Goodfellow Site (AlGw-171) – Stage 3 required Taylor House (AlGw-160) – No Further Assessment Required Isolated Nondiagnostic Lithic Findspots - No Further Assessment Required

PIF	Project Name	Within PA	Methodology	Findings	Recommendations
					Modern Foundations – No Further Assessment Required
P338-0112-2015	*Archaeological Assessment (Stage 1-2) in the Town of Caledon, Peel Region, Bolton Mid Trail, Lot 12 through 16, Concession V, Lot 11 and 12, Concession VI, Historic Albion Township, Peel County.*	Yes	Test Pit Survey at 5-metres (87%), Slope (11%), Disturbed (1%), Low and Wet (1%)	No Archaeological Material or Cultural Features Identified	No Further Archaeological Assessment Required
P1016-0199-2021	*Stage 1-2 Archaeological Assessment, Emil Kolb Baseball Diamonds, Lot 13, Concession VI, Geographic Township of Albion, Historic Peel County in the Town of Caledon, Regional Municipality of Peel.*	No	Pedestrian Survey at 2-metres (89%), Test Pit Survey at 5-metres (11%) Intensification – 5 units excavated across Early Archaic Findspot (With MCM Permission)	Seven (7) New Isolated Lithic Findspots – 6 Nondiagnostics, 1 Early Archaic Nettling/Kirk Point (AlGw-205) One (1) previously Known Site – Taylor Homestead (AlGw-160) (no additional Material, PA is within 20 and 50 metre buffers)	Lithic Sites – No Further Work Required Taylor Homestead (AlGw-160) – Further Work Required

Previously Identified Archaeological Sites

Consultation with the Ontario Archaeological Sites Database (OASD) maintained by the MCM and TRCA project records indicates that 28 archaeological sites have been previously located within one kilometre of the project area (**Table 3**). None are located within 70-metres of the project area.

***Table 4*. Registered Archaeological Sites within One Kilometre of the Project Area**

Borden Number	Site Name	Time Period	Affinity	Site Type	Current Development Review Status
AlGw-3	Harper	Archaic, Paleo-Indian	Aboriginal	Othercamp/campsite	
AlGw-4	Goodfellow	Archaic	Aboriginal	Othercamp/campsite	
AlGw-5	French	Archaic	Aboriginal	Othercamp/campsite	
AlGw-12	Grogan	Archaic, Late	Aboriginal	Othercamp/campsite	
AlGw-15					
AlGw-16					
AlGw-25	Belly	Pre-Contact	Aboriginal	Unknown	
AlGw-28	Beesting	Pre-Contact		findspot	
AlGw-31	Lotor	Archaic, Middle	Aboriginal	Othercamp/campsite, processing	
AlGw-32	Westlake	Paleo-Indian		camp / campsite	

Borden Number	Site Name	Time Period	Affinity	Site Type	Current Development Review Status
AlGw-134		Post-Contact		Unknown	Further CHVI
AlGw-135		Pre-Contact		Unknown	No Further CHVI
AlGw-136		Pre-Contact	Aboriginal	findspot	No Further CHVI
AlGw-137		Post-Contact	Euro-Canadian	Unknown	No Further CHVI
AlGw-138		Pre-Contact	Aboriginal	Unknown	No Further CHVI
AlGw-141		Post-Contact	Euro-Canadian	scatter	Further CHVI
AlGw-142	AlGw-142	Archaic, Middle	Aboriginal	scatter	Further CHVI
AlGw-143		Pre-Contact		findspot	No Further CHVI
AlGw-144		Pre-Contact	Aboriginal	Unknown	
AlGw-147		Pre-Contact	Aboriginal	Unknown	
AlGw-160	The Taylor Homestead	Post-Contact	Euro-Canadian	homestead	
AlGw-161		Pre-Contact	Aboriginal	findspot	
AlGw-171	GoodFELLOW Site				
AlGw-172	Harper	Post-Contact, Pre-Contact	OtherEuro-canadian		
AlGw-180		Post-Contact	Euro-Canadian	midden, scatter	No Further CHVI
AlGw-181	Burton Site	Post-Contact		midden	Further CHVI
AlGw-205		Archaic, Early		findspot	No Further CHVI
AlGw-216	H2	Post-Contact	Euro-Canadian	homestead	Further CHVI

**CHVI – Cultural Heritage Value or Interest*

Archaeological Potential Models

An application of TRCA's Archaeological Site Potential Model (**Map 6**) indicates that the project area may be classified as a Medium to High Probability Area for encountering Indigenous sites (TRCA 2003). High Probability Areas are largely based on proximity to water and adequate soil drainage, Medium Probability Areas within the project area are the result of steep slopes or poor soil drainage, Low Probability Areas are often found in low lying wetlands and scenarios like this greatly reduce the potential for encountering archaeological sites. Within

the Greater Toronto Area's watersheds, nearly 80% of all Indigenous archaeological sites have been found within High Potential areas. It should be noted that this potential model does not take into account impacts due to previous development.

Currently, the archaeological potential mapping for the Regional Municipality of Peel is not publicly available.

Existing Cultural Heritage Resources

Heritage Register

Part IV of the Ontario Heritage Act (OHA) gives municipal heritage advisory committees the responsibility of researching and recommending to municipal council properties of cultural value or interest. The properties are recorded and monitored through a heritage register as *designated* (under the OHA) or *listed* (non-designated properties with cultural heritage interest or value that may become candidates for designation).

According to Section 1.3.1 of the 2011 Standards and Guidelines for Consultant Archaeologists (2011 Standards and Guidelines), lands within 300 metres of features of archaeological potential (i.e., areas of early Euro-Canadian settlement) are considered to have elevated potential. Therefore, based on the absence of any heritage property within or in close proximity to (within 300 metres of) the project area (as per Section 1.4.1., Standard 1.c.), this feature does not further elevate archaeological potential within the study area. No heritage properties were identified within or in close proximity to the project area.

Commemorative Plaques

According to Section 1.3.1 of the 2011 S&G, lands within 300 metres of First Nations and Euro-Canadian settlements where commemorative markers of their history, such as local, provincial, or federal monuments, cairns or plaques, or heritage parks, are considered to have elevated archaeological potential. No commemorative plaques were identified within or in close proximity to the project area.

Heritage Conservation Districts or Cultural Heritage Landscapes

A Heritage Conservation District (HCD) includes areas that have been protected under Part V of the OHA. An HCD can be found in both urban and rural environments and may include residential, commercial, and industrial areas, rural landscapes or entire villages or hamlets with features or land patterns that contribute to a cohesive sense of time or place and contribute to an understanding and appreciation of the cultural identity of a local community, region, province, or nation. An HCD may comprise an area with a group or complex of buildings, or large area with many buildings and properties and often extends beyond its built heritage, structures, streets, landscape and other physical and spatial elements, to include important vistas and views between and towards buildings and spaces within the district. An HCD area contains valuable cultural heritage and must be taken into consideration during municipal planning to ensure that they are conserved.

According to Section 1.3.1 of the 2011 Standards and Guidelines, lands within 300 metres of heritage resources listed on a municipal register or designated under the OHA, or a federal, provincial, or municipal historic landmark or site, are considered to have elevated archaeological potential. No HCDs or cultural heritage landscapes were identified within or near (within 300 m) the project area.

Cemeteries

No cemeteries were identified within or in close proximity to the project area.

Dates of Fieldwork

Fieldwork was conducted on October 23rd, 2024, April 28th, 29th and 30th, and May 1st, 2nd, 8th and 12th 2025.

2.0 Field Methods

2.1 Site Preparation

Given that the project area was situated within overgrown meadow and woodlot, ploughing was not viable (**Images 1 to 11**). Consequently, test pit investigation was the methodology employed where property survey was required. Development plans were provided prior to field work (**Map 2**).

The weather during the Stage 2 investigation ranged from overcast to sunny with a temperature average temperature of 21°C, and lighting conditions that permitted good visibility of land features.

2.2 Survey Methods

A thorough investigation of the project area was conducted in accordance with the 2011 Standards and Guidelines for Consultant Archaeologists (2011 Standards and Guidelines), published by the MCM, to determine if any cultural heritage resources were present and in danger of being impacted by the proposed construction.

A portion of the project area had been previously assessed for the Bolton Arterial Road and Trails by TRCA (TRCA 2012, 2016). With previous archaeological assessments having fulfilled the Stage 1 and 2 archaeological assessment requirements within their respective portions of the current project area, these areas were not subjected to test pit survey during the current field investigations. Previously surveyed lands amounted to 478 square metres, or 2% of project area (**Map 8**).

The remainder of the project area was subjected to shovel test pit survey at five-metre intervals, which involves the excavation of 30-centimetre diameter test pits to five centimetres below the depth of sterile subsoil (**Map 7; Images 5 to 7**). At the onset of test pit survey, disturbed ground conditions were encountered. Therefore, these areas were strategically tested at 10-metre intervals according to professional judgement as per *Section 2.1.8, Standard* 2 of the 2011 Standards and Guidelines to determine the extent and nature of disturbed ground conditions. Disturbances consisted of course and fine gravel, mottling and modern fill soils. Disturbed soils exceeded 45 cm in depth, greater than the previously identified depth of subsoil within this area (TRCA 2012) (**Images 6 and 7**). Additionally, the southern portion of the project area appears to fall within the previous alignment of Duffys Lane, which was decommissioned and realigned for the Emil Kolb Parkway (TRCA 2012).

When disturbed soil conditions were no longer encountered, survey intervals returned to five-metres. Natural soils encountered within the project area consisted of medium brown sandy loam topsoil/ploughzone, and a light brown, sandy loam subsoil (**Image 11**). Areas test pitted at five-metres encompassed 19,411 square metres or 63% of the project area, while areas strategically tested at 10-metres encompassed 10,730 square metres or 35% of the project area. All excavated material was screened through six-millimetre mesh. Each test pit was examined for stratigraphy, cultural features, or evidence of fill. All test pits were backfilled.

During the test pit survey, one positive test pit was encountered (**Maps S1 and S2 – Original Supplementary Document**). The positive test pit yielded one lithic artifact. As per *Section 2.1.3, Standard 2, Option A* of the

2011 Standards and Guidelines, test pits containing archaeological material trigger intensified investigation, which entail an additional eight test pits excavated in a grid, spaced 2.5 metres around the positive test pit, as well as a one metre test unit excavated over the positive test pit (**Map S2, Images 9 to 11**). While no additional artifacts were identified within the intensified test pits, the excavation of the test unit resulted in the recovery of an additional 6 (six) lithic artifacts. The test unit was excavated to a maximum depth of 44 cm where subsoil consisted of a light brown sandy loam. No cultural features were encountered. All test pits and the unit were backfilled.

In normal practice, strategic locations such as project area limits, changes to field methodology, positive finds, and photo locations, are referenced with Universal Transverse Mercator (UTM) coordinates. These coordinates are recorded using a *Garmin Montana* global positioning system, NAD 83, 17T, with a plus-minus error of three metres. All field conditions were recorded photographically with a *Canon Powershot*, 16-megapixel digital camera (**Map 8; Map S3 – Original Supplementary Document; Images 1 to 11**).

3.0 Record of Finds

A summary of artifact analysis procedures is provided in **Appendix C: Artifact Analysis Methodology**.

A detailed catalogue of the artifact assemblage is provided in **Appendix D: Artifact Catalogue**. The GPS reading of the positive test pit location was recorded. The site measures one metre east-west and one metre north-south and was located within a forested area. No fixed reference landmark was present for this project area. As a small lithic assemblage composed of 7 artifacts, a Borden designation of **AlGw-236** was assigned to the site.

The recovered artifacts are stored in Box 208 with TRCA Archaeology. All field records and photographs are on file with TRCA Archaeology (**Appendix E: Document Inventory**).

A reference collection number was assigned to the artifacts. The reference numbers for artifacts where a Borden designation is required/assigned includes the Borden number followed by the individual artifact number. Thus, an item registered as AlGw-236.001 would be the first artifact accessioned from the AlGw-236 site.

3.1 Artifact Analysis

A total of 7 (seven) lithic artifacts were recovered during the Stage 2 assessment (**Image 12**). Six (6) were identified as debitage, while a single informal tool was also recovered. The informal tool (AlGw-236.001) was identified as a utilized or retouched flake. The tool was manufactured from Onondaga chert and is a complete proximal flake. Use wear is present on the distal margin, which appears to have a feather termination. The tool also appears to have been removed during bifacial thinning activities.

***Table 5*. Frequencies by Function, Group and Object**

Functions, Groups and Object	#	%
CHIPPED STONE	**7**	**100**
Debitage	**6**	**86**
Flake (Broken)	1	14
Flake (Complete)	2	28
Flake (Fragment)	3	42
Informal Tool	**1**	**14**
Retouched flake	1	14
Grand Total	**7**	**100%**

The remaining artifacts were determined to be proximal (3), medial (1), and distal (2) flakes. The proximal flakes consist of 2 complete flakes and a broken flake. The complete flakes show a feather (AlGw-236.002) and combination hinge-step (AlGw-236.003) terminations. The medial fragment and one of the distal fragments were manufactured on Onondaga chert, while the remaining distal fragment (AlGw-236.007) was manufactured from Quartz. Both distal flake fragments had a feather termination.

All of the flakes appear to have been produced during bifacial thinning, except the quartz artifact which could not be identified to a reduction stage. The presence of these artifacts would suggest that mid to late stage biface thinning and shaping activities were occurring at the site. The relatively limited number of artifacts recovered would suggest a short occupation of a small site (potentially a camp site or brief resting spot).

As a collection of 5 or more nondiagnostic artifacts, the site is seen to have further CHVI and will require additional archaeological assessment in the form of a Stage 3 Site Specific Assessment.

4.0 Analysis and Conclusions

TRCA Archaeology has completed a Stage 1 and 2 archaeological assessment for the proposed water and wastewater capacity improvement project. A single site, AlGw-236, was identified during the Stage 2 assessment.

A total of 7 (seven) lithic artifacts were identified in one (1) test pit and one (1) unit. Due to the small size of the assemblage, the site can at best be described as a campsite or specialist activity area. The artifact assemblage was derived from late stage lithic reduction activities.

As a small lithic scatter containing more than five (5) artifacts, the site has further CHVI and requires further archaeological assessment in accordance with *Section 2.2, Standard 1.ii* of the Standards and Guidelines in the form of a stage 3 site specific investigation.

5.0 Recommendations

It is therefore recommended that:

- The **AlGw-236 Site (Supplementary Document – Section 2.0)** is considered to have significant cultural heritage value or interest and will require further archaeological assessment as per Section 2.2 Standard 1 of the 2011 Standards and Guidelines. Therefore, a 20-metre protective buffer with "No-Go" instructions, as well as a 50-metre monitoring buffer from the limits of the protective buffer, must be established around the AlGw-236 site. No construction activities, including landscaping and/or servicing, shall take place within the 20-metre protective buffer of this site (**Map S4**).

  In the event development is proposed within 20 metres of AlGw-236, a comprehensive Stage 3 archaeological assessment is to be completed in accordance with the 2011 *Standards and Guidelines* prior to any intrusive activity that may result in the destruction or disturbance of the archaeological site. The Stage 3 archaeological assessment shall be conducted as per Section 3.2.2 of the 2011 *Standards and Guidelines* to (a) determine the presence of buried artifacts, structures, stratigraphy and cultural features (b) to define the site extent within the project area (c) collect a representative sample of artifacts (d) aid in the determination of Stage 4 mitigation strategy.

  The Stage 3 archaeological assessment shall be conducted in a manner suitable for a pre-contact site where it is not yet evident that the level of cultural heritage value or interest will result in a recommendation to proceed to Stage 4 mitigation of development impacts. Since the site is located within a wooded area, a Stage 3 controlled surface pickup (CSP) cannot be undertaken. As a result, a Stage 3 assessment will include the following:
  - A detailed documentary research of the land use and occupation history specific to the archaeological site
  - Establishment of a grid on the site based on a permanent datum
  - Controlled excavation of one-square metre test units on a five-metre grid across the site with an additional 20% of the grid unit total focusing on areas of interest within the site extent per Table 3.1, Standards 1 and 2 of the 2011 *Standards and Guidelines*
  - All test units are to be excavated by hand in systemic levels
  - All test units are to be excavated into the first 5 cm of subsoil, unless a cultural feature is identified. All features are to be mapped in plan view, covered with geotextile and backfilled.
  - All soil is to be screened through 6mm mesh.
  - A thorough photographic record of on-site investigations will be maintained.

  Any construction activities occurring beyond the 20-metre protective buffer and within the 50-metre monitoring zone must be undertaken under the supervision of a licensed archaeologist to ensure there are no destructive activities occurring to the archaeological site. Should grading or other soil disturbing activities caused by the development project extend to the edge of the 20-metre protective buffer, snow fencing must be erected around the archaeological site, including its 20-metre protective buffer.

If new archaeological resources are encountered, the licensed consultant archaeologist is empowered to stop construction and a Stage 3 archaeological assessment must be conducted for the new finds.

- The portion of the project area as tested (**Maps 8 and S4**) beyond the 20 metre protective and 50 monitoring zones requires no further archaeological assessment.

However, if there is any deviation from the agreed upon project area, additional assessment may be necessary. Furthermore, if any deeply buried deposits or human remains are encountered, all activities will cease and TRCA Archaeology as well as the proper authorities will be contacted immediately.

Advice on Compliance and Legislation

a) This report is submitted to the Minister of Citizenship and Multiculturalism as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Citizenship and Multiculturalism a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

b) It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest , and the report has been filed in the Ontario Public Register of Archaeological Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

c) Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48 (1) of the *Ontario Heritage Act*.

d) The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Government and Consumer Services.

e) Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the *Ontario Heritage Act* and may not be altered, or have artifacts removed from them, except by a person holding an archaeological licence.

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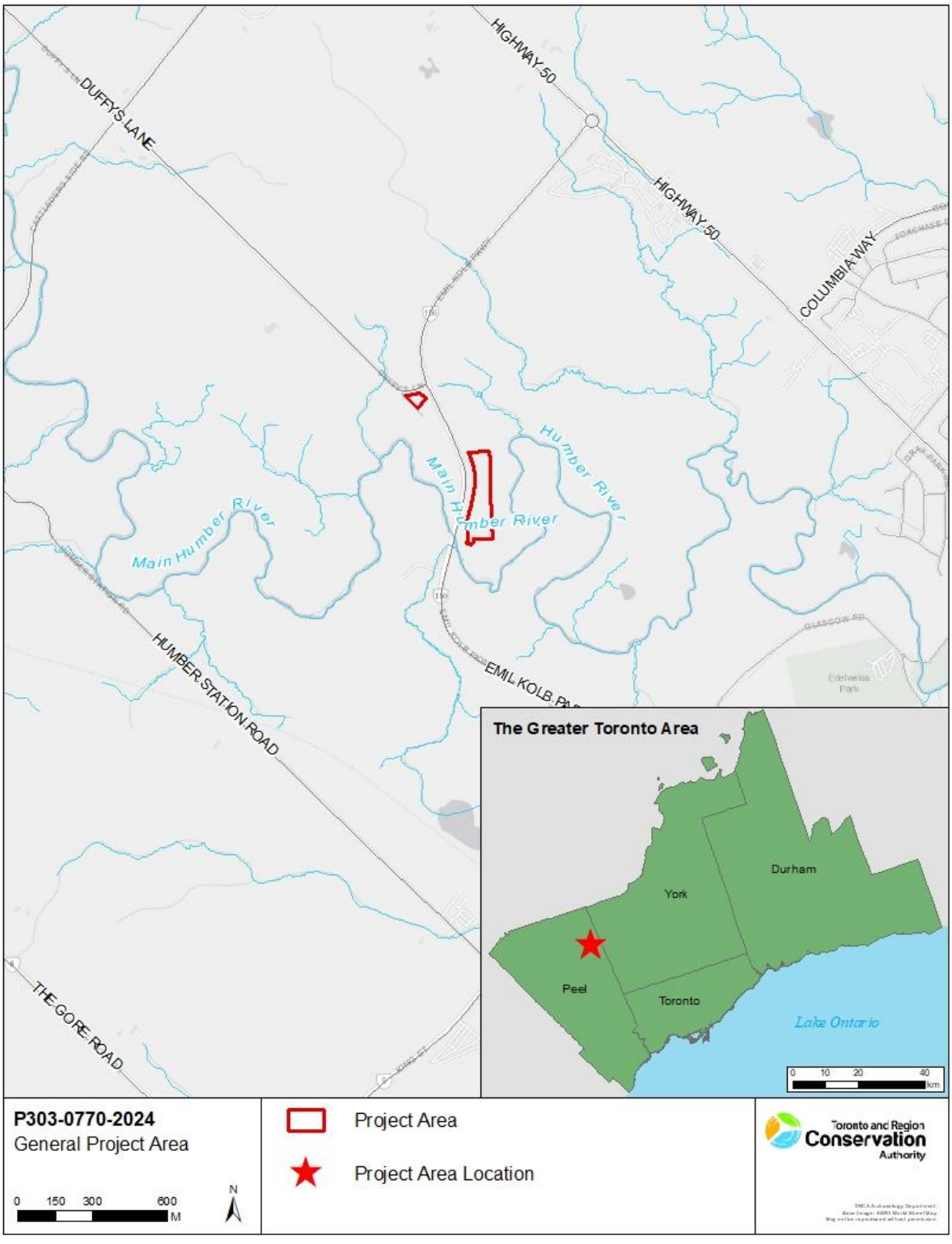
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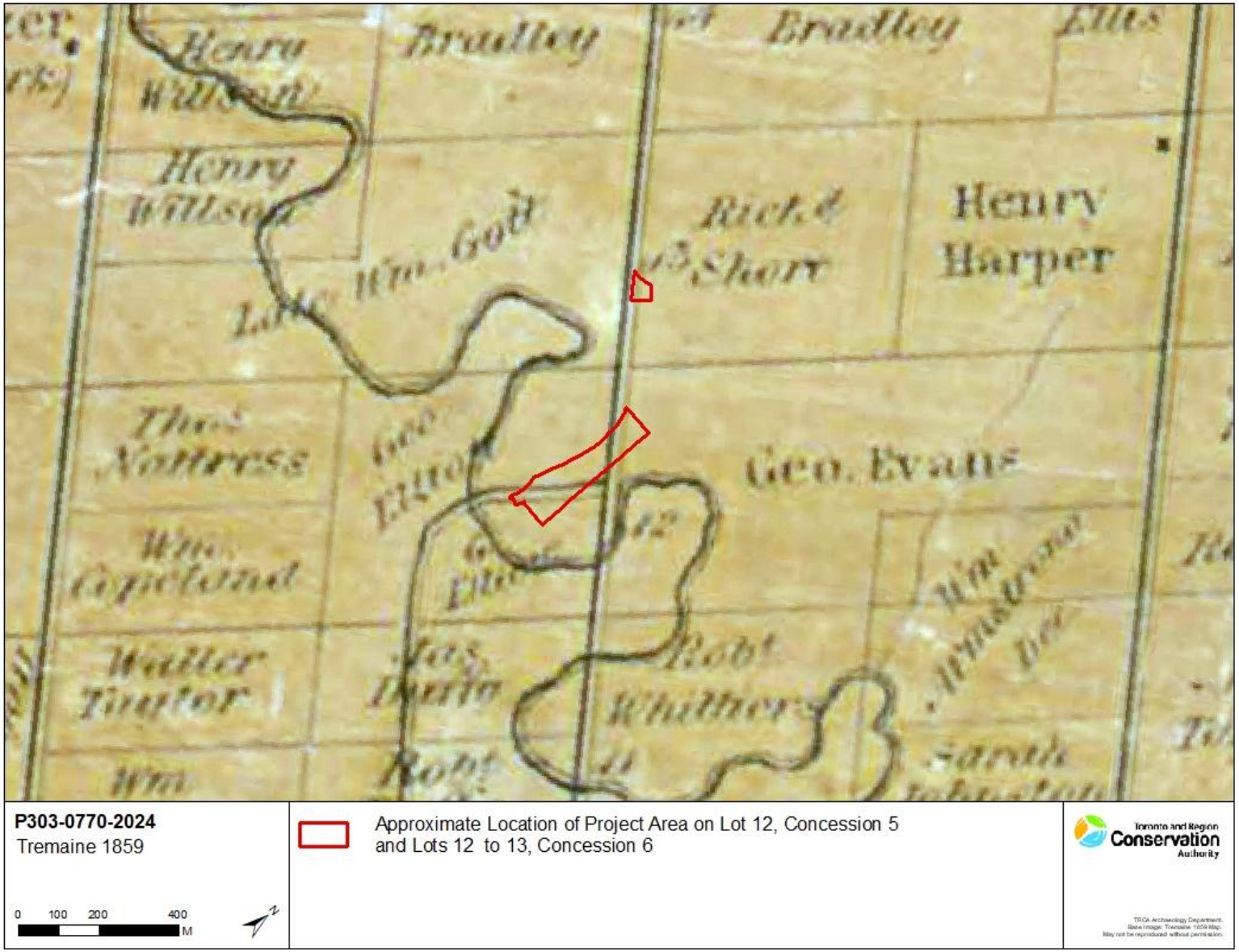
Appendix A: Maps



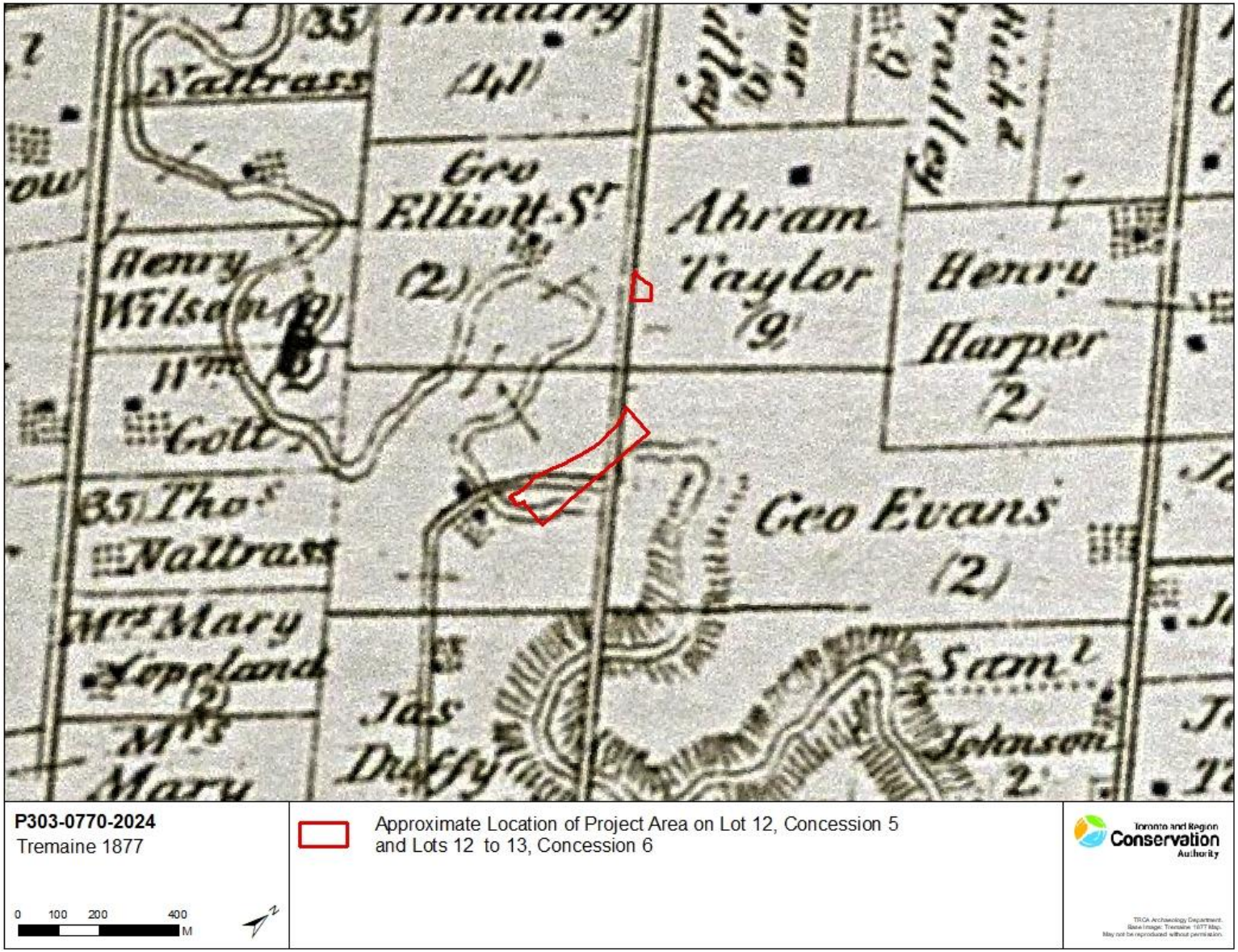
Map 1. General Project Area



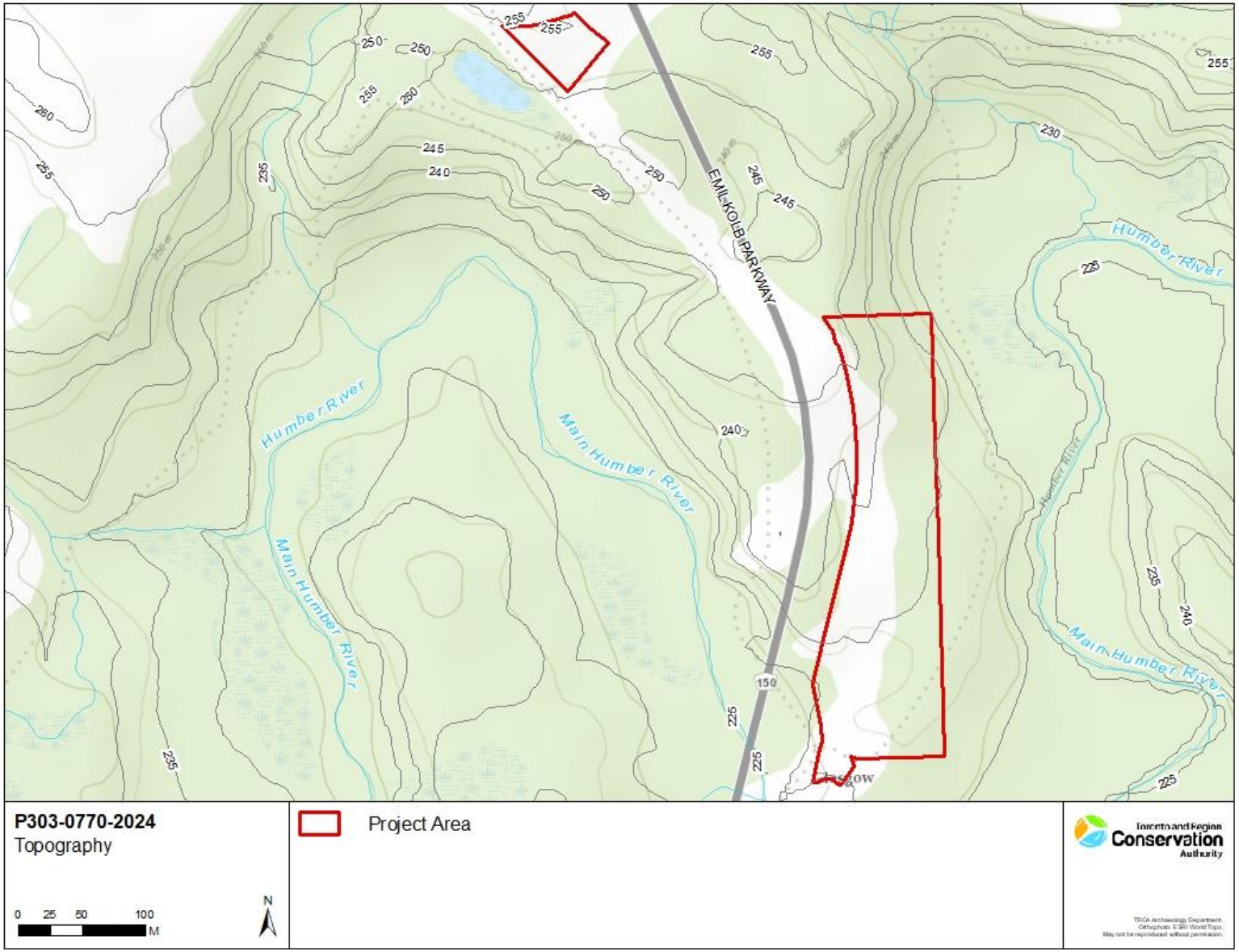
Map 2. Development Plan



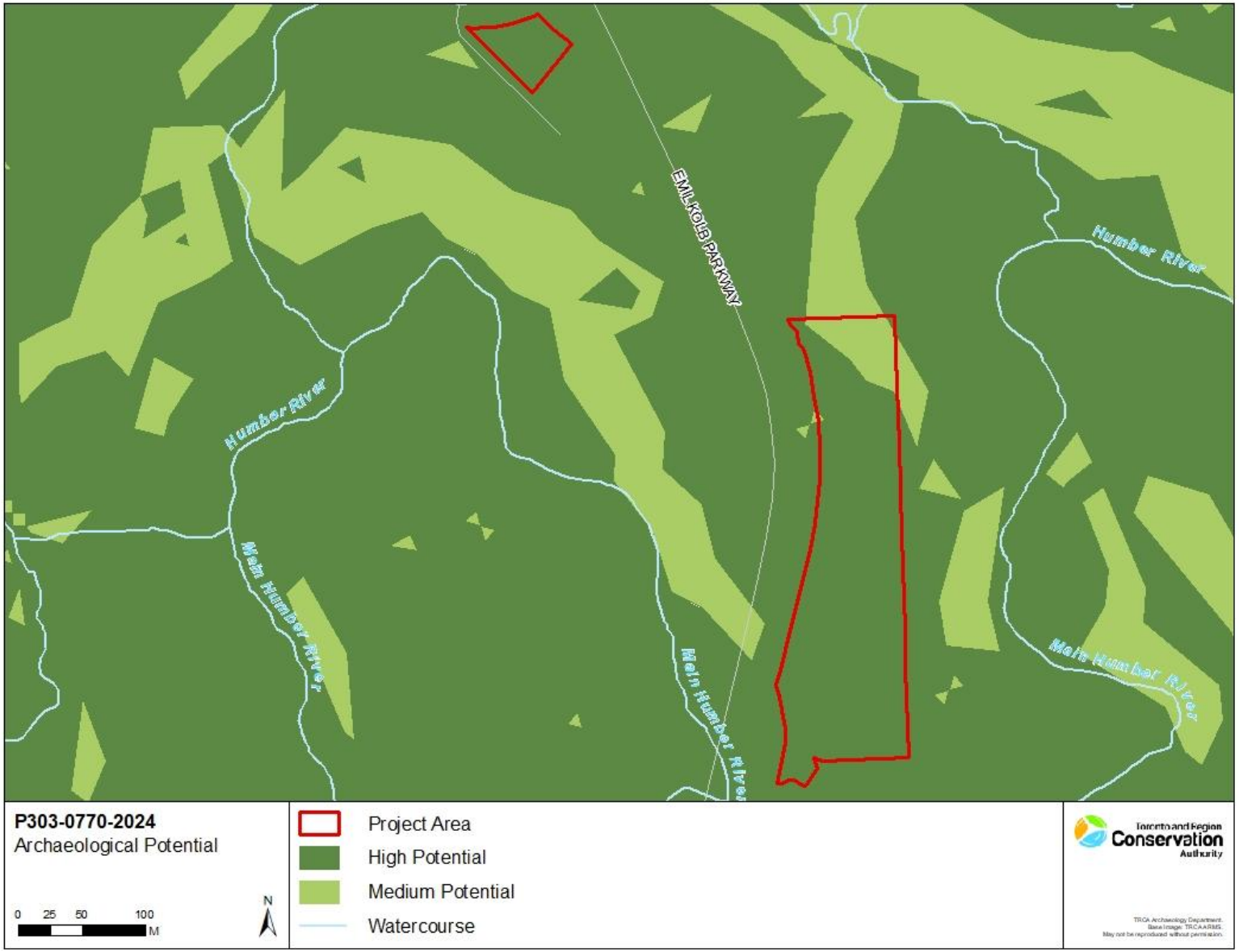
Map 3. Detail of 1859 Tremaine Map – Peel County



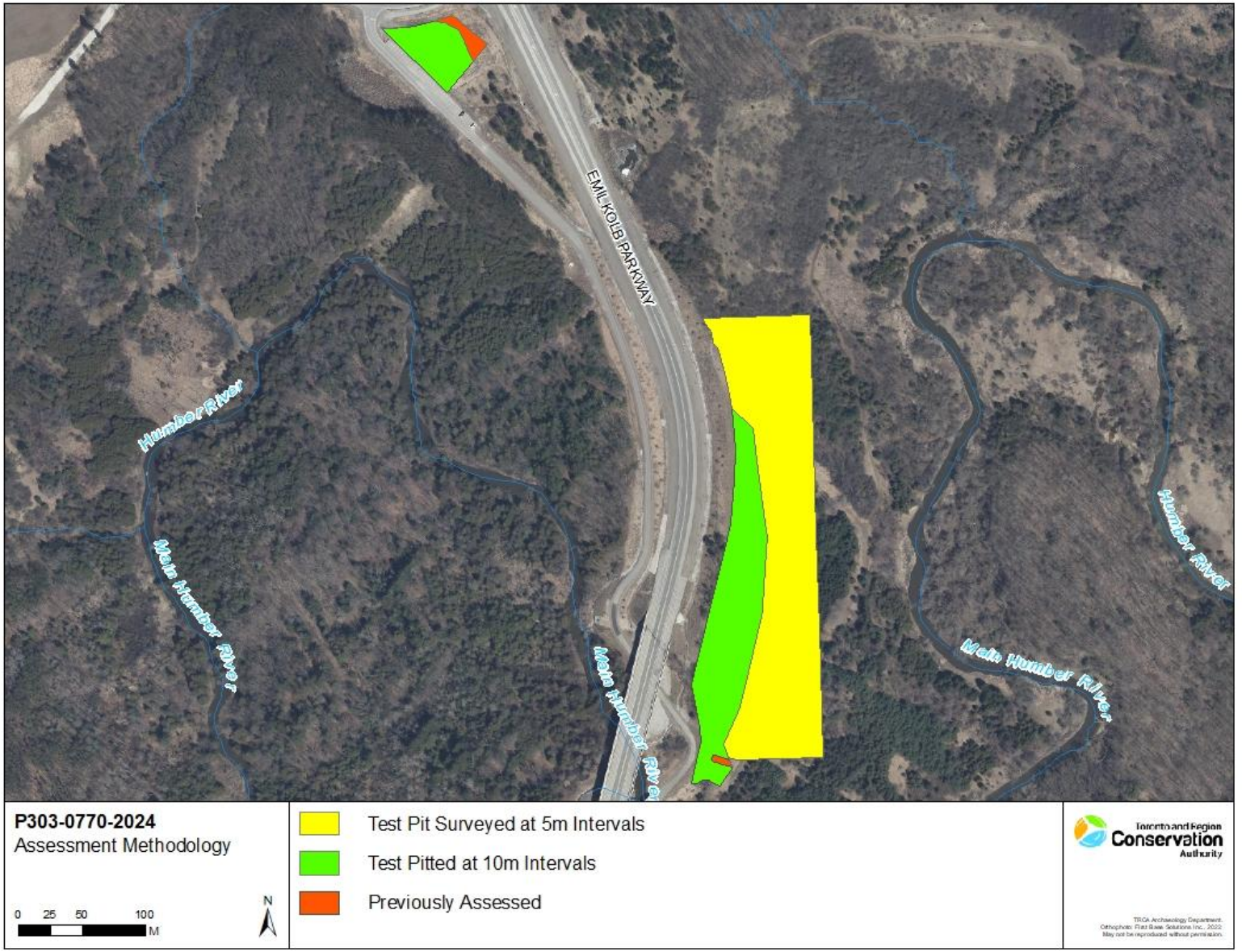
Map 4. Detail of 1877 Walker and Miles Illustrated Atlas – Peel County



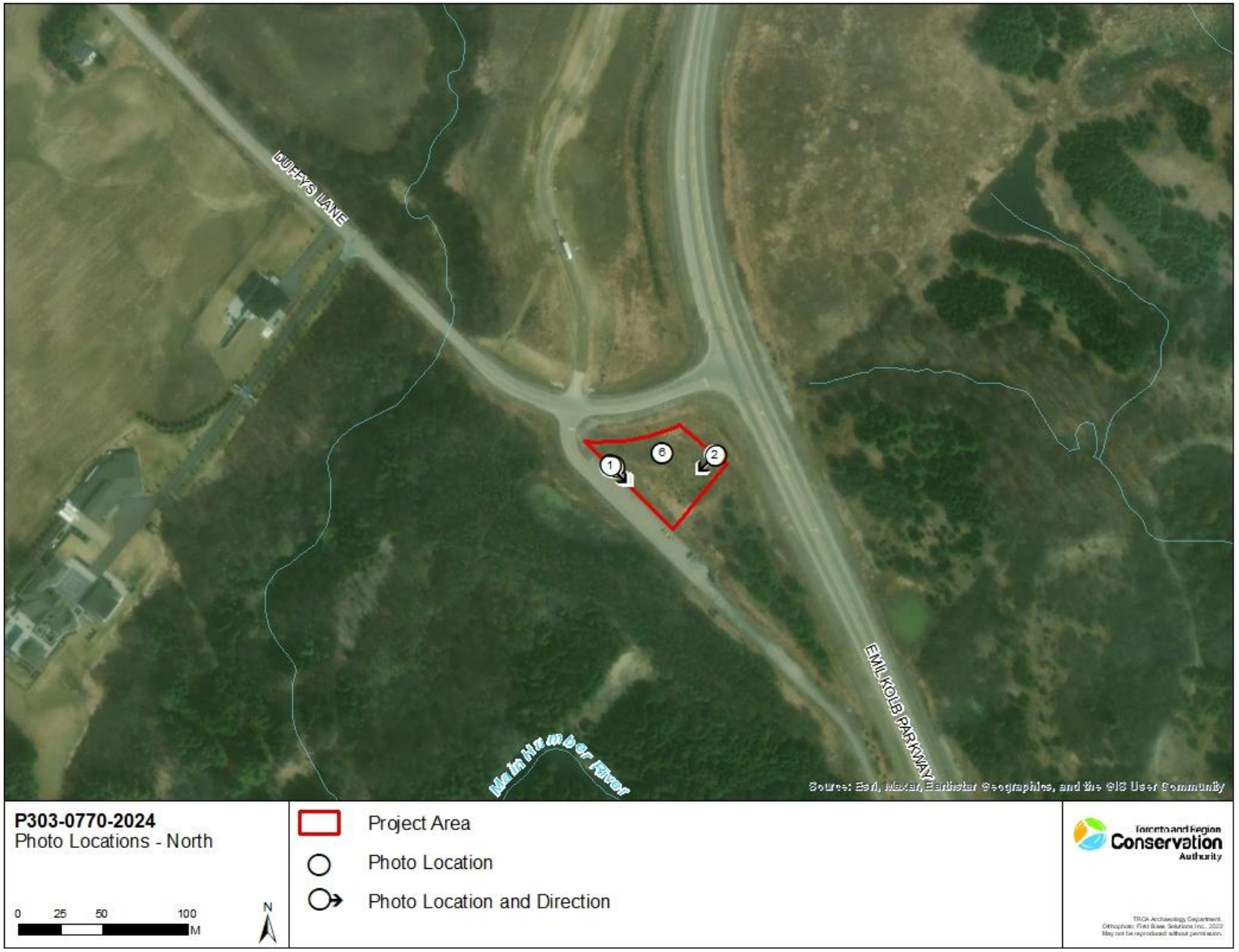
Map 5. Local Topography – Project Area



Map 6. TRCA Archaeological Potential Model



Map 7. Assessment Methodology



Map 8. Location and Direction of Photographs – North Section

Appendix B: Images



Image 1. Project environs.



Image 2. Project environs.



Image 3. Project environs – berm/former roadway.



Image 4. Project environs – berm/former roadway.



Image 5. Strategic testing of berm/former roadway.



Image 6. Example test pit – mottled gravel-clay fill overlying mottled grey clay.



Image 7. Example test pit – mottled grey-brown clay fill in excess of 40 cm.



Image 8. Test pit investigation at 5-metres.

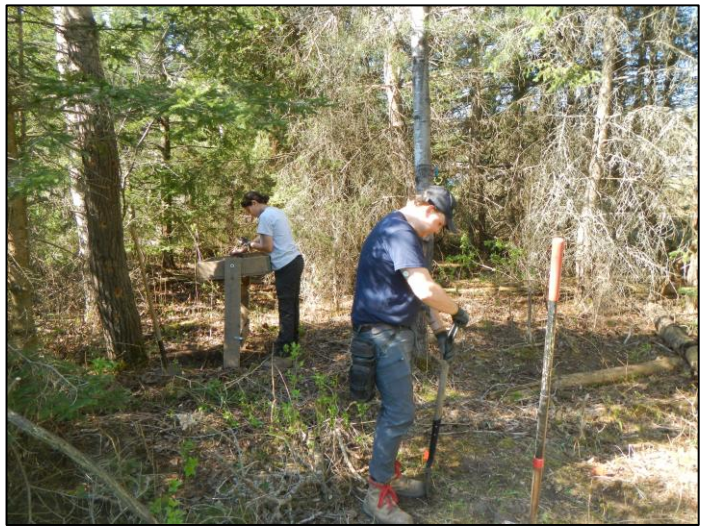


Image 9. Intensified test pitting at 2.5-metre intervals around findspot.



Image 10. Excavation of unit over positive findspot.



Image 11. Planview of unit over positive findspot.

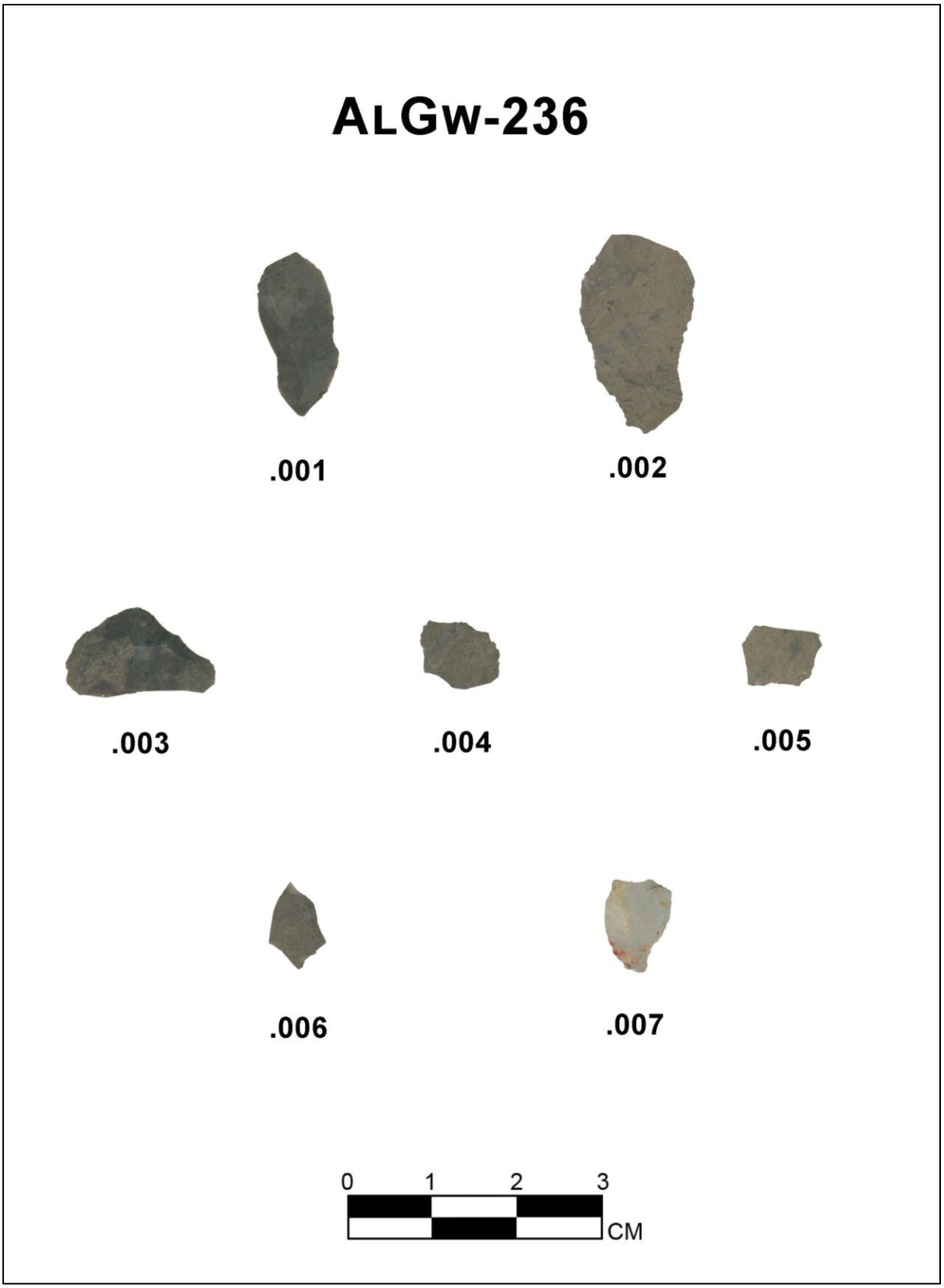


Image 12. AlGw-236 Artifacts.

Appendix C: Artifact Analysis Methodology

Lithic Assemblage

Lithics are grouped into four Groups based on type, which include formal and informal lithics, debitage, and ground, pecked or polished stone. Within these classes are a range of lithic objects. **Table 6** lists the objects included in these four classes.

***Table 6*. Lithic Classes and Objects**

Formal Lithics	Informal Lithics	Debitage	Ground/Pecked/Polished
Points	Retouched Flakes	Unretouched flakes	Axe
Scrapers	Utilized Flakes	Shatter	Adze
Drills	Tool Fragments		Gouge
Knives	Non-Diagnostic Bifaces		Chisel
Perforators	Non-Diagnostic Unifaces		Celts
Cache Blades	Expedient Tools		Hammerstone
Diagnostic Tools	Cores		Grinding Stone
	Preforms		
	Wedges		
	Flake Burin		
	Flake Spur		

All lithics are identified to the specific object, as listed in **Table 6** and are tallied by provenience, such as excavation unit, feature or surface collection. Raw material tallies and evidence of thermal damage are also recorded.

Debitage analysis includes the method of manufacture and identifying flake type based on the Sullivan and Rozen technique (SRT) (Sullivan 1987; Sullivan and Rozen 1985) which categorizes debitage based on a hierarchical key that depends on the presence, or absence of three exclusive variables.

The first variable is the presence of a single interior or ventral surface. If this is absent, the debitage is immediately classified as debris or shatter. If a single ventral surface is recognized, one looks for a point of applied force. If a striking platform is lacking, the flake is categorized as a fragment, which may be either medial or distal. If a striking platform is present, the lateral margins are examined for intactness. If the margins are complete enough to discern the maximum dimensions of the flake and the distal termination is feathered or hinged, the flake is regarded as complete; otherwise, it is classified as broken. If the flake retains a point of impact but is axially split, it is considered a split flake (Sullivan 1987:47; Sullivan and Rozen 1985:758-59). Thus, five discrete flake categories that encompass the entirety of a lithic assemblage have been created without

typological interpretation. Once individual artifacts are placed into these categories, comparisons between like items may be made, along with inferences about the nature of the assemblage as a whole.

A final word should be noted regarding bipolar methods and SRT. Assemblages that are dominated by bipolar technology can be difficult to identify, particularly when the assemblage is typified by an absence of diagnostic indicators, such as cores (Kuijt et al. 1995:117). However, SRT is well suited for discriminating bipolar techniques (Morrow 1997:62; Kuijt et al, 1995:122; Prentiss 1998:129) as past experiments have shown, illustrating that these collections can be distinguished by large amounts of shatter, flake fragments and debris (Morrow 1997:62; Kuijt et al. 1995:118).

Complete and broken flakes are especially informative as the most significant information concerning reductive strategies and load applications is found at the point of impact. Thus, distinct flake types are recognized based on Hertzian percussion resulting from hard or soft hammer impact or bending initiation resulting from billet flakes or pressure flaking. Flake fragments and shatter lack a striking platform and are consequently less useful for discerning reduction strategies.

Flake Type

Hard hammer proximal flakes are normally larger, display prominent bulbs and may have crushed striking platforms. Soft hammer flakes are the result of employing a billet and the flakes may exhibit a small striking platform, a diffuse bulb of percussion, and are normally distally expanded in morphology. Pressure flakes usually display lipping on the striking platform and lack a bulb of percussion as they are not formed by Hertzian forces.

Analysis of flake fragments is limited as any statements concerning these items must be tempered by the fact that the missing segment may contain characteristics not present on the remaining fragment, nor are quantitative measurements accurate representations of flake morphology.

Raw Material

In identifying raw materials all observable characteristics must be considered, among these are the ranges of colour, lustre, texture, degree of opacity or translucence, presence or absence of inclusions, and grain size. Macroscopic characteristics, or combination of characteristics, were observed to classify the raw materials in the assemblage. In Southern Ontario, Indigenous sites display an overwhelming reliance on Onondaga chert though Collingwood chert was also common at specific times and in specific locations with lesser quantities appearing throughout the area and across time periods. Not all raw material was obtained from the geological source. Pebble cherts are frequently observed in glacial deposits and were often locally obtained and used to manufacture expedient tools through bipolar reduction.

Onondaga chert is a member of the Middle Ordovician Onondaga Formation (Eley and von Bitter 1989:17) and is found mainly in beds and secondary blocks along the north shore of Lake Erie. The prevalence of Onondaga chert here is not surprising as sites in Southern Ontario normally display an overwhelming reliance on this material. This widespread trend has significant temporal depth, extending until traditional implements were replaced by European goods.

Quartz is one of the most abundant minerals on the planet and when it occurs as a fine grained, hard mineral from it makes a suitable toolstone. Quartz is commonly colourless or white but also appears in a wide range of colours. It is one of the most widely distributed minerals in the world as it occurs in most igneous and

metamorphic rocks (Bishop et al. 2005:130). This material was infrequently used as toolstone but formal tools made from quartz have been identified in Southern Ontario.

Appendix D: Artifact Catalogue

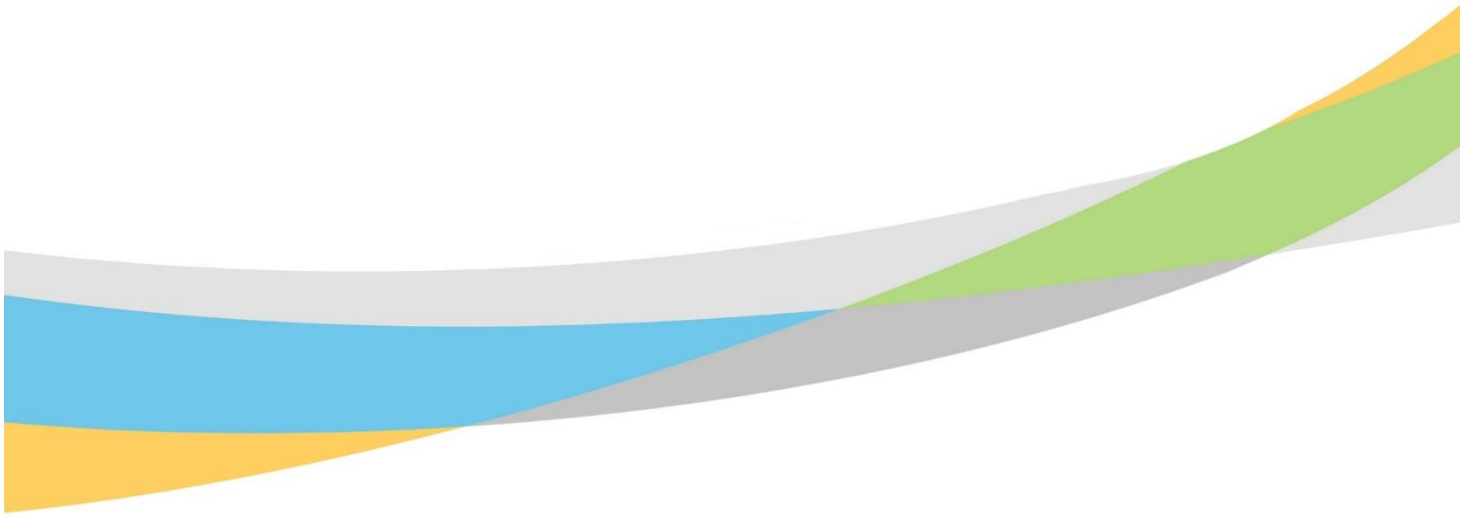
Table D-1: HR24-19

Catalogue #	TP/Unit	Frequency	Affiliation	Material	Function	Group	Class	Object	Fragment	Type	Variety	Method of Manufacture	Alterations	Notes	Reference #	Length	Width	Thickness	Platform Length	Platform Thickness	Retouch
1	TP 1	1	AB	Stone	Chipped Stone	Informal Tool	Onondaga	Flake	Complete	Retouched Flake		Pressure/Billet	Retouched	The distal end shows retouch	AlGw-236.001	18.4	9.7	3.2	3.8	1.5	4.6
2	Unit 1	1	AB	Stone	Chipped Stone	Debitage	Onondaga	Flake	Complete	Proximal	Thinning	Thinning/Pressure		Cortex present, a small piece of mica is stuck to dorsal face, feather termination	AlGw-236.002	22.1	14.1	2.5	7.4	1.4	
3	Unit 1	1	AB	Stone	Chipped Stone	Debitage	Onondaga	Flake	Complete	Proximal	Thinning	Thinning/Pressure		Minimal cortex, hinge-step termination	AlGw-236.003	11.4	18.4	3.1	3	1.1	
4	Unit 1	1	AB	Stone	Chipped Stone	Debitage	Onondaga	Flake	Broken	Proximal	Thinning	Billet		Cortex present	AlGw-236.004	8	10.9	2	6.9	1.7	
5	Unit 1	1	AB	Stone	Chipped Stone	Debitage	Onondaga	Flake	Fragment	Medial	Thinning			Cortex present	AlGw-236.005	7.4	9.8	1			
6	Unit 1	1	AB	Stone	Chipped Stone	Debitage	Onondaga	Flake	Fragment	Distal	Thinning			Feather termination	AlGw-236.006	10.5	7	1			
7	Unit 1	1	AB	Stone	Chipped Stone	Debitage	Quartz	Flake	Fragment	Distal				“feather” termination (as much as quartz can)	AlGw-236.007	11.2	8	3.5			

Appendix E: Document Inventory

All documentary material is located at the offices of the Archaeology department of TRCA, 5 Shoreham Drive, Downsview, ON M3N 1S4. All documentation is digitized and stored on the local server.

Dates	Field Direction	Field Documentation		
		Field Notes	Camera	Photo
23-Oct-24	Scott Eckford (SE)	Digital Field Records	Nikon	IMG_5283 to IMG_5297
28-Apr-25	Alistair Jolly (AJ)	Digital Field Record	Nikon	IMG_5462 to IMG_5469
29-Apr-25	AJ	Digital Field Record	Nikon	IMG_5470 to IMG_5474
30-Apr-25	AJ	Digital Field Record	Nikon	IMG_5475 to IMG_5482
1-May-25	AJ	Digital Field Record	Nikon	IMG_5483 to IMG_5486
2-May-25	AJ	Digital Field Record	Nikon	IMG_5487 to IMG_5493
8-May-25	AJ	Digital Field Record	Nikon	IMG_5511 to IMG_5516
12-May-25	SE	Digital Field Record	Nikon	IMG_5517 to IMG_5521



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Toronto and Region Conservation Authority

November 6, 2025

Property Assessment Results
HR25-15 AlGw-236 Stage 3
PIF # P303-0786-2025

Project Manager: Italia Ponce – Region of Peel
Project Planner: Shirin Varzgani – TRCA

Fieldwork Details:
TRCA Archaeology has completed a Stage 3 archaeological assessment of the project area as identified in the attached graphic (see below, yellow polygon) and defined as all lands to be impacted by the project, either by land use or physical alteration.

As per Section 3 of the 2011 Standards and Guidelines for Consultant Archaeologists by the Ministry of Citzenship and Multiculturalism (MCM), all the objectives of the Stage 3 assessment have been satisfied in that the cultural heritage, value or interest (CHVI) of the project area has been determined and future mitigation and appropriate strategies for conservation have been evaluated.

Test unit excavation was conducted as per Section 3.2.2 and Table 3.1 within the area of proposed disturbance that will impact a small, PreContact lithic scatter registered as AlGw-236. The site was identified during Stage 2 investigation which resulted in the recovery of five lithics.

Test units were placed on a five metre grid. Of the 23 units excavated, nine were positive resulting in 25 lithics in addition to the five lithics recovered during Stage 2 investigations. Unit excavation continued until artifact counts were null in order to accurately determine the limits of the site (see below).

Given no single unit contained ten or more artifacts, the site does not contain further cultural heritage value or interest, as per Section 3.4.1, Standard 1. Therefore, the site is considered to be sufficiently documented and Stage 4 mitigation of impacts is not required.

Accordingly, TRCA Archaeology has no further concerns associated with the site. However, if there is any deviation from the agreed upon project area, additional assessment may be necessary. Furthermore, in the unlikely event that any deeply buried deposits or human remains are encountered, all activities will cease and the TRCA Archaeology as well as the proper authorities will be contacted immediately.

Reporting and Invoicing:

You will be invoiced for all fieldwork, reporting and associated administrative costs following completion of fieldwork and prior to issuance of the report. Please note, a field season extends from April to December. Reports accrued from the preceding field season may take up to a year from the date of fieldwork to be drafted. Accordingly, expect a delay preceding report delivery.

Draft reports may be supplied ahead of MCM submission. Expedited report completion and submission is available upon request. The final, formal report will be forthcoming following MCM acceptance.

Thank you,

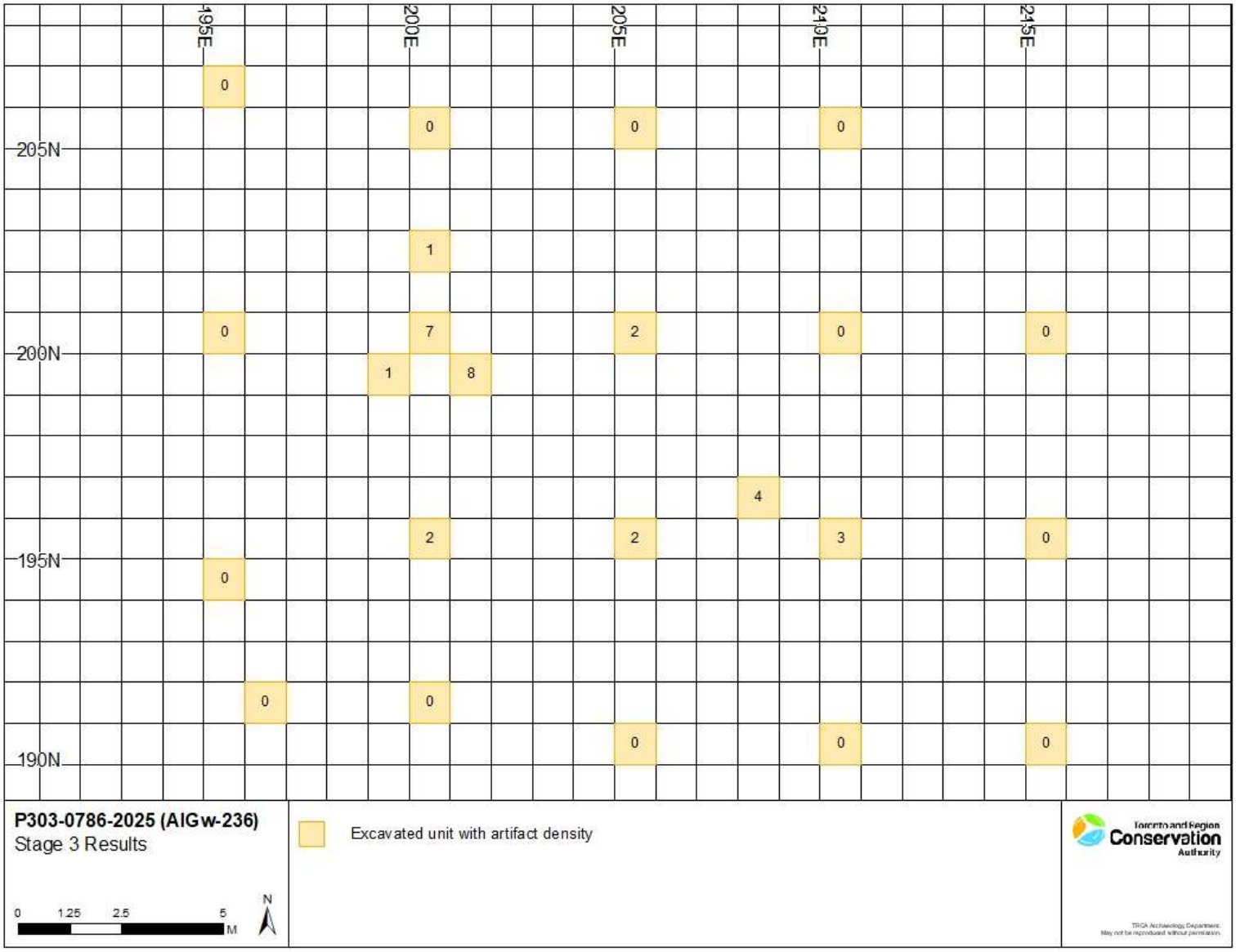
Alistair R. Jolly, M.A.
Supervisor, Archaeology
Restoration & Infrastructure - Professional Services
Toronto and Region Conservation Authority
Cell: (416) 771-2004



Project Area



Unit Location and Artifact Density



Grid and Artifact Density

Appendix 2E

Cultural Heritage Reports

PROJECT REFERENCE: 2022-055

July 31, 2025

WWW.PHCGROUP.CA

Parslow Heritage Consultancy Inc.
883 St. Clair Ave. West, Toronto, ON, M6C 1C4

GM BluePlan Engineering Limited c/o Sandra Anastasio
3300 Highway 7, Suite 402, Vaughan ON, L4K 4M3

Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

Introduction

Parslow Heritage Consultancy Inc. (PHC Inc.) was retained by GM BluePlan to prepare a Cultural Heritage Screening Report (CHSR) in support of the Regional Municipality of Peel (Peel Region) Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment (EA). As noted in the Class EA Notice of Study Commencement:

The Region of Peel has initiated the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment (MCEA) study. This MCEA builds off a Feasibility Study recently completed by the Region which outlined conceptual water and wastewater projects that service the additonal development proposed within both the intensification and greenfield growth areas in the Community of Bolton. Additonally, the MCEA will complete a comprehensive evaluation of all potential alternatives to develop the optimal water and wastewater servicing solutions to meet existing needs and growth within the Bolton study area.

The Bolton Class EA study area is located in Caledon, within the Region of Peel and encompasses approximately 9,300 ha (23,000 ac), as illustrated in **Appendix A**. The CHSR also took into account heritage resources properties immediately adjacent to the study area. The study area is generally bounded by Albion-Vaughan Road to the east, about 100 meters south of Countryside Drive to the south, west of Centreville Creek Road to the west and about 100 meters north of Castlederg Street to the north.

The purpose of this undertaking is to complete a CHSR in accordance with the Ontario Heritage Act and the Ministry of Citizenship and Multiculturalism's (formerly Ministry of Tourism, Culture

and Sport) *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* (2016) (the Checklist). The main objectives of the CHSR are to gather information about the presence and significance of cultural heritage resources within and/or in the vicinity of the study area and determine if further field investigation will be required.

Various sources of information were consulted to assist with completion of the checklist and to assess the heritage potential of adjacent properties. These sources of information include:

- Historic atlas' and maps
- Aerial imagery
- Internet sources
- Municipal heritage registers (City of Brampton, Town of Caledon)
- Provincial heritage sources (MCM & OHT)

Checklist Results

The Checklist (**Appendix B**), attached as part of this CHSR, has three parts: screening for known cultural heritage resources; screening for potential heritage resources; and, other considerations, such as Indigenous land use.

Screening for Known Cultural Heritage Resources

In reviewing the municipal heritage registers for the City of Brampton and Town of Caledon, it was determined that multiple known heritage resources are located within the study area including Listed Properties, Designated Properties and a Heritage Conservation District (HCD). **Appendix C** provides mapping that depicts the location of known heritage resources within and adjacent to the study area; **Appendix D** provides a list of Listed and Designated properties within the study area, as well as the Bolton HCD.

Screening for Potential Heritage Resources

During the review of the available data on potential heritage resources within the study area, it was determined the study area is:

- Adjacent to and contains a known burial site and/or cemetery,
- Contains the Humber River, a Canadian Heritage River watershed since 2009,
- Contains part of Oak Ridges Moraine, part of the Ontario Greenbelt

A desktop review using Google Streetview identified numerous other properties of potential heritage value. Given the size of the study area it is not practical to identify all properties that may exhibit potential heritage value.

According to the Cultural Heritage Checklist (**Appendix B**):

> *If Yes to one or more of the above questions (Part B and C), there is potential for cultural heritage resources on the property or within the project area.*
>
> *You need to hire a qualified person(s) to undertake:*
>
> - *a Cultural Heritage Evaluation Report (CHER)*
>
> *If the property is determined to be of cultural heritage value and alterations or development is proposed, you need to hire a qualified person(s) to undertake:*
>
> - *a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts*

The study area contains multiple known heritage properties and multiple unrecognized properties of potential heritage value. The Bolton HCD is located within the study area, centered on the intersection of King Street and Queen Street (**Figure 1**).

Indigenous Land Use

In reviewing the criteria to consider other information in determining cultural heritage value or interest, it is acknowledged the study area is of interest to numerous Indigenous communities (see below). A Stage 1 archaeological assessment is being undertaken as part of the Class EA study.

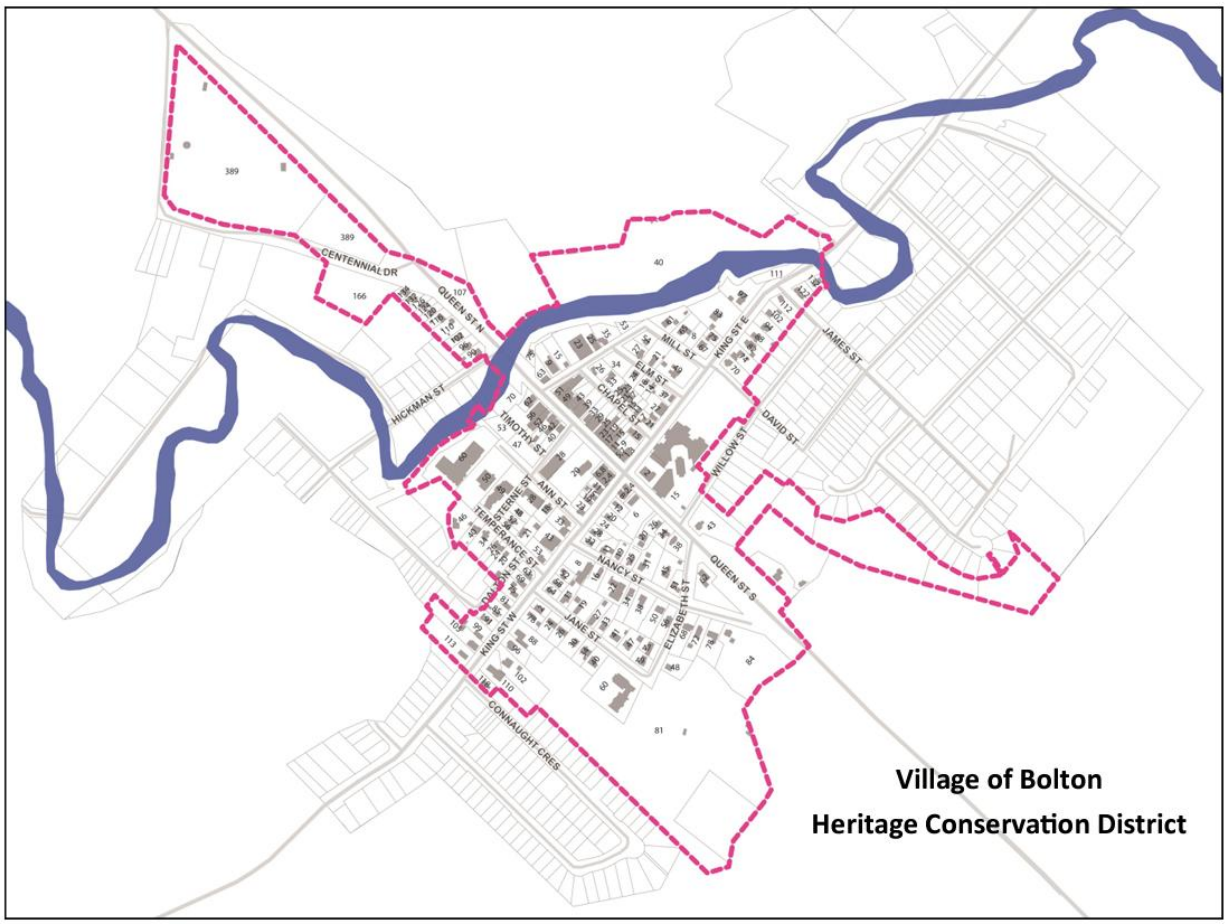


FIGURE 1: LIMITS OF BOLTON HCD

Existing Conditions

The study area is located within the Region of Peel and includes the Community of Bolton within the Town of Caledon, as well as the rural areas to the north, west and south of Bolton. The northeast corner of the City of Brampton (former community of Wildfield) is located in the southwest corner of the study area. The study area includes gently rolling topography within the Humber River watershed; woodlots are mostly present in the north part of the study area, north of Bolton. The north part of the study area includes part of the Oak Ridges Moraine Conservation Plan.

As one of the key features in the study area, the Community of Bolton (and corresponding HCD, referred to as the District), are described as follows in the Village of Bolton Heritage Conservation District Plan (2015):

The Village of Bolton is an historic 19th century mill village that has evolved into a contemporary village in the larger community of Bolton within the Town of Caledon, located in the Region of Peel. The village is nestled in a green river valley through which the Humber River meanders. Above the crest of the valley, the larger contemporary community of Bolton extends in a suburban development pattern to the north, south, east and west.

The District encompasses the core of the historic village, which is primarily based on a mid 19th century plan of subdivision, centred on the intersection of Queen and King streets. The District comprises component parts that, together, constitute a village character. These parts include the historic commercial and industrial core on Queen and Mill streets, the streetscapes of King Street East and West, the adjacent residential neighbourhoods, including Nancy and Temperance streets, and parts of the surrounding green valley and Humber River. The District contains a variety of streetscapes and building types and styles, including residential, commercial and institutional buildings, representing successive periods of development within the village.

The original core of Bolton has developed from an industrial mill village to a contemporary village. Although evidence of Bolton's industrial past has largely disappeared and its key function and services have evolved, the village core continues to provide amenities to, and act as a commercial and community focus for the wider area.



FIGURE 2: REPRESENTATIVE IMAGE OF NORTHWEST LIMIT OF STUDY AREA, IMAGE LOOKING SOUTH DOWN CENTERVILLE CREEK ROAD FROM INTERSECTION WITH CASTLEDERG SIDEROAD



FIGURE 3: LOOKING SOUTH DOWN THE GORE ROAD FROM KING STREET



FIGURE 4: THE GORE ROAD JUST NORTH OF THE HAMLET OF WILDFIELD



FIGURE 5: LOOKING SOUTH DOWN MOUNT PLEASANT ROAD



FIGURE 6: LOOKING EAST DOWN KING STREET WITHIN THE BOLTON HCD



FIGURE 7: LOOKING SOUTH DOWN HIGHWAY 50 INTO THE BOLTON HCD

Community Consultation

Community Consultation has commenced, including the posting of a Public Notice of Study Commencement and transmittal of a Project Notification Letter to Indigenous Communities who may have an interested in the Class EA. Both the Public Notice of Study Commencement and the Project Notification Letters were distributed by the Region of Peel and GM BluePlan. Indigenous communities who may have an interest in the CHSR were also contacted directly by PHC on July 4, 2023. **Appendix E** provides a listing of Indigenous communities contacted by PHC, as well as any replies that were received.

Summary and Preliminary Comments on Potential Impacts

Based on the results of the CHSR, primarily the Checklist in **Appendix B**, it is determined that the study area contains a mix of Listed properties, Designated properties, and a HCD, as well as potential heritage properties and cemeteries and burial sites.

Based on evaluation of the study area against the 'Cultural Heritage Checklist', a Cultural Heritage Evaluation Report (CHER) will need to be undertaken once a defined area of impact is established. The CHER would be undertaken for Listed properties and properties of potential heritage value within or adjacent to an area of impact. A Heritage Impact Assessment (HIA) would be required for any Designated properties and the HCD, within or adjacent to an area of impact.

Recommendations

1. It is recommended the CHSR be updated once a preferred alignment or route is identified, in order to more reasonably and accurately identify potential heritage properties not yet identified on municipal heritage registers.
2. In keeping with the Cultural Heritage Checklist **(Appendix B**), a Cultural Heritage Evaluation Report (CHER) is recommended for Listed and properties of potential heritage value within or adjacent to the area of impact; the number of properties requiring a CHER will be determined upon updating of the CHSR once the preferred alignment is identified.
3. In keeping with the Cultural Heritage Checklist **(Appendix B**), a Heritage Impact Assessment (HIA) is recommended for Designated properties and the Bolton HCD, should these properties be within or adjacent to the area of impact; the number of properties requiring a HIA will be determined upon updating of the CHSR once the preferred alignment is identified.

4. Should all ground disturbance be confined to existing established municipal road right-of-ways the potential for impact to heritage resources, both known and unknown, is deemed to be low.
5. The finalized route should be subject to a pre-construction vibration assessment, and subsequent vibration monitoring during construction, as deemed necessary.

Sincerely,

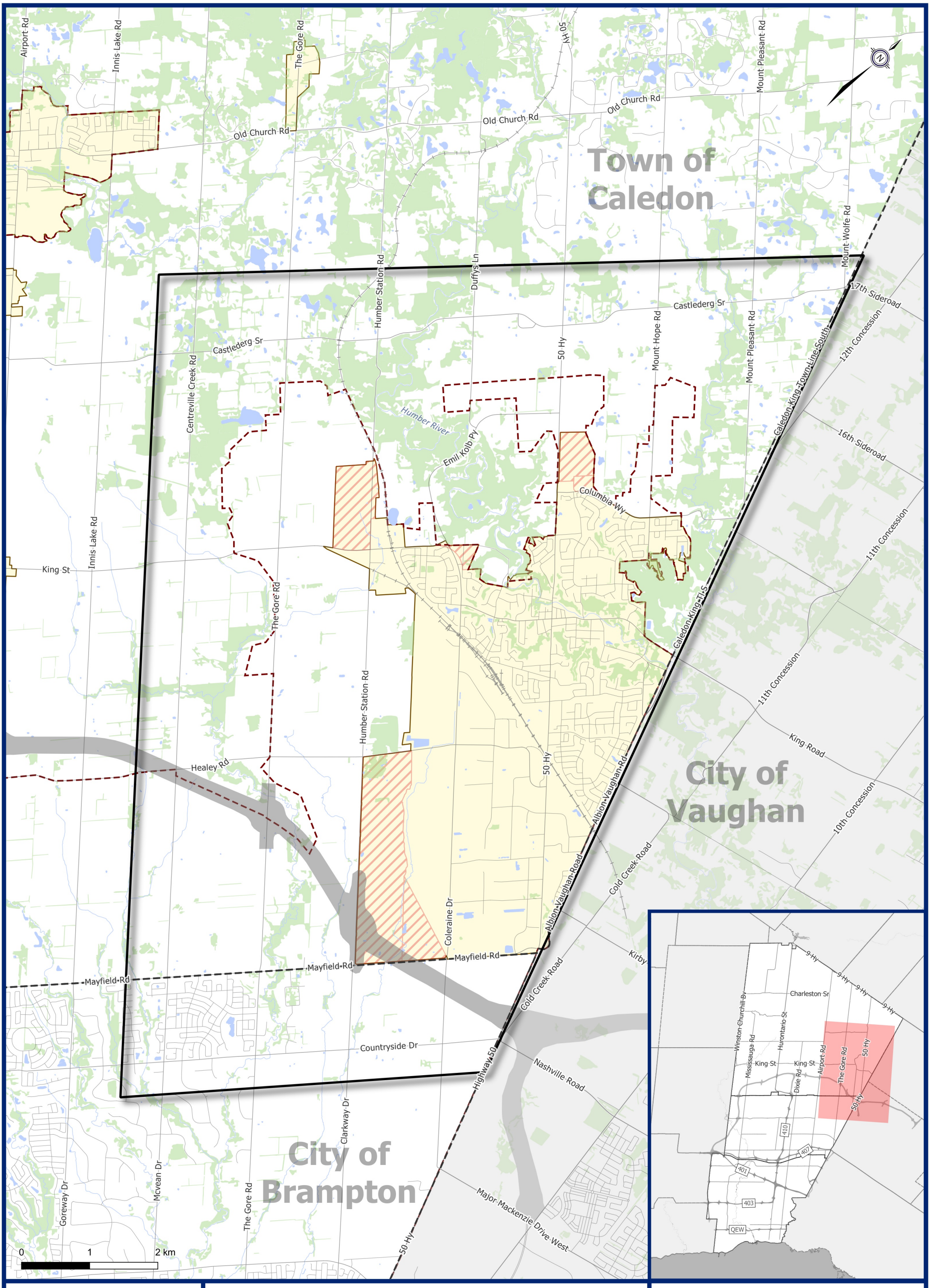


Chris Lemon B.Sc., Dip Heritage, CAHP,

Cultural Heritage Specialist

Appendix A

Study Area



Region of Peel
working with you

Bolton Water and Wastewater Feasibility Study

- Study Area Boundary
- Regional 2051 Urban Boundary
- ROPA 30 Expansion Area
- Bolton Rural Service Centre

General Features

- GTA West Corridor (Technically Preferred)
- Rail
- Waterbody and Watercourses
- Wooded Area
- Municipal Boundary

Figure 1-1

Study Area

BluePlan ENGINEERING

February, 2023
722010-G-001
Projection EPSG:26917

Appendix B

CHSR Screening Checklist

Clear Form Print Form

Ontario

Ministry of Tourism, Culture and Sport

Programs & Services Branch
401 Bay Street, Suite 1700
Toronto ON M7A 0A7

Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes

A Checklist for the Non-Specialist

The **purpose of the checklist** is to determine:

- if a property(ies) or project area:
  - is a recognized heritage property
  - may be of cultural heritage value
- it includes all areas that may be impacted by project activities, including – but not limited to:
  - the main project area
  - temporary storage
  - staging and working areas
  - temporary roads and detours

Processes covered under this checklist, such as:

- *Planning Act*
- *Environmental Assessment Act*
- *Aggregates Resources Act*
- *Ontario Heritage Act* – Standards and Guidelines for Conservation of Provincial Heritage Properties

Cultural Heritage Evaluation Report (CHER)

If you are not sure how to answer one or more of the questions on the checklist, you may want to hire a qualified person(s) (see page 5 for definitions) to undertake a cultural heritage evaluation report (CHER).

The CHER will help you:

- identify, evaluate and protect cultural heritage resources on your property or project area
- reduce potential delays and risks to a project

Other checklists

Please use a separate checklist for your project, if:

- you are seeking a Renewable Energy Approval under Ontario Regulation 359/09 – separate checklist
- your Parent Class EA document has an approved screening criteria (as referenced in Question 1)

Please refer to the Instructions pages for more detailed information and when completing this form.

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Project or Property Name

Region of Peel Bolton Water and Wastewater Capacity Improvements

Project or Property Location (upper and lower or single tier municipality)

Peel Region

Proponent Name

GM BluePlan Engineering Limited

Proponent Contact Information

Sandra Asastasio Royal Centre 3300 Highway No. 7, Suite 402, Vaughan ON, L4K 4M

Screening Questions

	Yes	No
1. Is there a pre-approved screening checklist, methodology or process in place?	☐	☑

If Yes, please follow the pre-approved screening checklist, methodology or process.

If No, continue to Question 2.

Part A: Screening for known (or recognized) Cultural Heritage Value

	Yes	No
2. Has the property (or project area) been evaluated before and found **not** to be of cultural heritage value?	☐	☑

If Yes, do **not** complete the rest of the checklist.

The proponent, property owner and/or approval authority will:

- summarize the previous evaluation and
- add this checklist to the project file, with the appropriate documents that demonstrate a cultural heritage evaluation was undertaken

The summary and appropriate documentation may be:

- submitted as part of a report requirement
- maintained by the property owner, proponent or approval authority

If No, continue to Question 3.

	Yes	No
3. Is the property (or project area):		
a. identified, designated or otherwise protected under the *Ontario Heritage Act* as being of cultural heritage value?	☐	☑
b. a National Historic Site (or part of)?	☐	☑
c. designated under the *Heritage Railway Stations Protection Act*?	☐	☑
d. designated under the *Heritage Lighthouse Protection Act*?	☐	☑
e. identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office (FHBRO)?	☐	☑
f. located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?	☐	☑

If Yes to any of the above questions, you need to hire a qualified person(s) to undertake:

- a Cultural Heritage Evaluation Report, if a Statement of Cultural Heritage Value has not previously been prepared or the statement needs to be updated

If a Statement of Cultural Heritage Value has been prepared previously and if alterations or development are proposed, you need to hire a qualified person(s) to undertake:

- a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts

If No, continue to Question 4.

Part B: Screening for Potential Cultural Heritage Value

	Yes	No
4. Does the property (or project area) contain a parcel of land that:		
a. is the subject of a municipal, provincial or federal commemorative or interpretive plaque?	☑	☐
b. has or is adjacent to a known burial site and/or cemetery?	☑	☐
c. is in a Canadian Heritage River watershed?	☑	☐
d. contains buildings or structures that are 40 or more years old?	☑	☐

Part C: Other Considerations

	Yes	No
5. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area):		
a. is considered a landmark in the local community or contains any structures or sites that are important in defining the character of the area?	☐	☑
b. has a special association with a community, person or historical event?	☑	☐
c. contains or is part of a cultural heritage landscape?	☑	☐

If Yes to one or more of the above questions (Part B and C), there is potential for cultural heritage resources on the property or within the project area.

You need to hire a qualified person(s) to undertake:

- a Cultural Heritage Evaluation Report (CHER)

If the property is determined to be of cultural heritage value and alterations or development is proposed, you need to hire a qualified person(s) to undertake:

- a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts

If No to all of the above questions, there is low potential for built heritage or cultural heritage landscape on the property.

The proponent, property owner and/or approval authority will:

- summarize the conclusion
- add this checklist with the appropriate documentation to the project file

The summary and appropriate documentation may be:

- submitted as part of a report requirement e.g. under the *Environmental Assessment Act*, *Planning Act* processes
- maintained by the property owner, proponent or approval authority

Instructions

Please have the following available, when requesting information related to the screening questions below:

- a clear map showing the location and boundary of the property or project area
    - large scale and small scale showing nearby township names for context purposes
- the municipal addresses of all properties within the project area
- the lot(s), concession(s), and parcel number(s) of all properties within a project area

For more information, see the Ministry of Tourism, Culture and Sport's Ontario Heritage Toolkit or Standards and Guidelines for Conservation of Provincial Heritage Properties.

In this context, the following definitions apply:

- **qualified person(s)** means individuals – professional engineers, architects, archaeologists, etc. – having relevant, recent experience in the conservation of cultural heritage resources.
- **proponent** means a person, agency, group or organization that carries out or proposes to carry out an undertaking or is the owner or person having charge, management or control of an undertaking.

1. Is there a pre-approved screening checklist, methodology or process in place?

An existing checklist, methodology or process may already be in place for identifying potential cultural heritage resources, including:

- one endorsed by a municipality
- an environmental assessment process e.g. screening checklist for municipal bridges
- one that is approved by the Ministry of Tourism, Culture and Sport (MTCS) under the Ontario government's Standards & Guidelines for Conservation of Provincial Heritage Properties [s.B.2.]

Part A: Screening for known (or recognized) Cultural Heritage Value

2. Has the property (or project area) been evaluated before and found not to be of cultural heritage value?

Respond 'yes' to this question, if all of the following are true:

A property can be considered not to be of cultural heritage value if:

- a Cultural Heritage Evaluation Report (CHER) - or equivalent - has been prepared for the property with the advice of a qualified person and it has been determined not to be of cultural heritage value and/or
- the municipal heritage committee has evaluated the property for its cultural heritage value or interest and determined that the property is not of cultural heritage value or interest

A property may need to be re-evaluated, if:

- there is evidence that its heritage attributes may have changed
- new information is available
- the existing Statement of Cultural Heritage Value does not provide the information necessary to manage the property
- the evaluation took place after 2005 and did not use the criteria in Regulations 9/06 and 10/06

Note: Ontario government ministries and public bodies [prescribed under Regulation 157/10] may continue to use their existing evaluation processes, until the evaluation process required under section B.2 of the Standards & Guidelines for Conservation of Provincial Heritage Properties has been developed and approved by MTCS.

To determine if your property or project area has been evaluated, contact:

- the approval authority
- the proponent
- the Ministry of Tourism, Culture and Sport

3a. Is the property (or project area) identified, designated or otherwise protected under the *Ontario Heritage Act* as being of cultural heritage value e.g.:

i. designated under the *Ontario Heritage Act*

- individual designation (Part IV)
- part of a heritage conservation district (Part V)

Individual Designation – Part IV

A property that is designated:

- by a municipal by-law as being of cultural heritage value or interest [s.29 of the *Ontario Heritage Act*]
- by order of the Minister of Tourism, Culture and Sport as being of cultural heritage value or interest of provincial significance [s.34.5]. **Note**: To date, no properties have been designated by the Minister.

Heritage Conservation District – Part V

A property or project area that is located within an area designated by a municipal by-law as a heritage conservation district [s. 41 of the *Ontario Heritage Act*].

For more information on Parts IV and V, contact:

- municipal clerk
- Ontario Heritage Trust
- local land registry office (for a title search)

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ii. subject of an agreement, covenant or easement entered into under Parts II or IV of the *Ontario Heritage Act*

An agreement, covenant or easement is usually between the owner of a property and a conservation body or level of government. It is usually registered on title.

The primary purpose of the agreement is to:

- preserve, conserve, and maintain a cultural heritage resource
- prevent its destruction, demolition or loss

For more information, contact:

- Ontario Heritage Trust - for an agreement, covenant or easement [clause 10 (1) (c) of the *Ontario Heritage Act*]
- municipal clerk – for a property that is the subject of an easement or a covenant [s.37 of the *Ontario Heritage Act*]
- local land registry office (for a title search)

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iii. listed on a register of heritage properties maintained by the municipality

Municipal registers are the official lists - or record - of cultural heritage properties identified as being important to the community.

Registers include:

- all properties that are designated under the *Ontario Heritage Act* (Part IV or V)
- properties that have not been formally designated, but have been identified as having cultural heritage value or interest to the community

For more information, contact:

- municipal clerk
- municipal heritage planning staff
- municipal heritage committee

---

iv. subject to a notice of:

- intention to designate (under Part IV of the *Ontario Heritage Act*)
- a Heritage Conservation District study area bylaw (under Part V of the *Ontario Heritage Act*)

A property that is subject to a **notice of intention to designate** as a property of cultural heritage value or interest and the notice is in accordance with:

- section 29 of the *Ontario Heritage Act*
- section 34.6 of the *Ontario Heritage Act*. **Note**: To date, the only applicable property is Meldrum Bay Inn, Manitoulin Island. [s.34.6]

An area designated by a municipal by-law made under section 40.1 of the *Ontario Heritage Act* as a **heritage conservation district study area**.

For more information, contact:

- municipal clerk – for a property that is the subject of notice of intention [s. 29 and s. 40.1]
- Ontario Heritage Trust

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v. included in the Ministry of Tourism, Culture and Sport's list of provincial heritage properties

Provincial heritage properties are properties the Government of Ontario owns or controls that have cultural heritage value or interest.

The Ministry of Tourism, Culture and Sport (MTCS) maintains a list of all provincial heritage properties based on information provided by ministries and prescribed public bodies. As they are identified, MTCS adds properties to the list of provincial heritage properties.

For more information, contact the MTCS Registrar at registrar@ontario.ca.

3b. Is the property (or project area) a National Historic Site (or part of)?

National Historic Sites are properties or districts of national historic significance that are designated by the Federal Minister of the Environment, under the *Canada National Parks Act*, based on the advice of the Historic Sites and Monuments Board of Canada.

For more information, see the National Historic Sites website.

3c. Is the property (or project area) designated under the *Heritage Railway Stations Protection Act*?

The *Heritage Railway Stations Protection Act* protects heritage railway stations that are owned by a railway company under federal jurisdiction. Designated railway stations that pass from federal ownership may continue to have cultural heritage value.

For more information, see the Directory of Designated Heritage Railway Stations.

3d. Is the property (or project area) designated under the *Heritage Lighthouse Protection Act*?

The *Heritage Lighthouse Protection Act* helps preserve historically significant Canadian lighthouses. The Act sets up a public nomination process and includes heritage building conservation standards for lighthouses which are officially designated.

For more information, see the Heritage Lighthouses of Canada website.

3e. Is the property (or project area) identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office?

The role of the Federal Heritage Buildings Review Office (FHBRO) is to help the federal government protect the heritage buildings it owns. The policy applies to all federal government departments that administer real property, but not to federal Crown Corporations.

For more information, contact the Federal Heritage Buildings Review Office.

See a directory of all federal heritage designations.

3f. Is the property (or project area) located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?

A UNESCO World Heritage Site is a place listed by UNESCO as having outstanding universal value to humanity under the Convention Concerning the Protection of the World Cultural and Natural Heritage. In order to retain the status of a World Heritage Site, each site must maintain its character defining features.

Currently, the Rideau Canal is the only World Heritage Site in Ontario.

For more information, see Parks Canada – World Heritage Site website.

Part B: Screening for potential Cultural Heritage Value

4a. Does the property (or project area) contain a parcel of land that has a municipal, provincial or federal commemorative or interpretive plaque?

Heritage resources are often recognized with formal plaques or markers.

Plaques are prepared by:

- municipalities
- provincial ministries or agencies
- federal ministries or agencies
- local non-government or non-profit organizations

For more information, contact:

- municipal heritage committees or local heritage organizations – for information on the location of plaques in their community
- Ontario Historical Society's Heritage directory – for a list of historical societies and heritage organizations
- Ontario Heritage Trust – for a list of plaques commemorating Ontario's history
- Historic Sites and Monuments Board of Canada – for a list of plaques commemorating Canada's history

4b. Does the property (or project area) contain a parcel of land that has or is adjacent to a known burial site and/or cemetery?

For more information on known cemeteries and/or burial sites, see:

- Cemeteries Regulations, Ontario Ministry of Consumer Services – for a database of registered cemeteries
- Ontario Genealogical Society (OGS) – to locate records of Ontario cemeteries, both currently and no longer in existence; cairns, family plots and burial registers
- Canadian County Atlas Digital Project – to locate early cemeteries

In this context, adjacent means contiguous or as otherwise defined in a municipal official plan.

4c. Does the property (or project area) contain a parcel of land that is in a Canadian Heritage River watershed?

The Canadian Heritage River System is a national river conservation program that promotes, protects and enhances the best examples of Canada's river heritage.

Canadian Heritage Rivers must have, and maintain, outstanding natural, cultural and/or recreational values, and a high level of public support.

For more information, contact the Canadian Heritage River System.

If you have questions regarding the boundaries of a watershed, please contact:

- your conservation authority
- municipal staff

4d. Does the property (or project area) contain a parcel of land that contains buildings or structures that are 40 or more years old?

A 40 year 'rule of thumb' is typically used to indicate the potential of a site to be of cultural heritage value. The approximate age of buildings and/or structures may be estimated based on:

- history of the development of the area
- fire insurance maps
- architectural style
- building methods

Property owners may have information on the age of any buildings or structures on their property. The municipality, local land registry office or library may also have background information on the property.

Note: 40+ year old buildings or structure do not necessarily hold cultural heritage value or interest; their age simply indicates a higher potential.

A building or structure can include:

- residential structure
- farm building or outbuilding
- industrial, commercial, or institutional building
- remnant or ruin
- engineering work such as a bridge, canal, dams, etc.

For more information on researching the age of buildings or properties, see the Ontario Heritage Tool Kit Guide Heritage Property Evaluation.

Part C: Other Considerations

5a. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) is considered a landmark in the local community or contains any structures or sites that are important to defining the character of the area?

Local or Aboriginal knowledge may reveal that the project location is situated on a parcel of land that has potential landmarks or defining structures and sites, for instance:

- buildings or landscape features accessible to the public or readily noticeable and widely known
- complexes of buildings
- monuments
- ruins

5b. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) has a special association with a community, person or historical event?

Local or Aboriginal knowledge may reveal that the project location is situated on a parcel of land that has a special association with a community, person or event of historic interest, for instance:

- Aboriginal sacred site
- traditional-use area
- battlefield
- birthplace of an individual of importance to the community

5c. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) contains or is part of a cultural heritage landscape?

Landscapes (which may include a combination of archaeological resources, built heritage resources and landscape elements) may be of cultural heritage value or interest to a community.

For example, an Aboriginal trail, historic road or rail corridor may have been established as a key transportation or trade route and may have been important to the early settlement of an area. Parks, designed gardens or unique landforms such as waterfalls, rock faces, caverns, or mounds are areas that may have connections to a particular event, group or belief.

For more information on Questions 5.a., 5.b. and 5.c., contact:

- Elders in Aboriginal Communities or community researchers who may have information on potential cultural heritage resources. Please note that Aboriginal traditional knowledge may be considered sensitive.
- municipal heritage committees or local heritage organizations
- Ontario Historical Society's "Heritage Directory" - for a list of historical societies and heritage organizations in the province

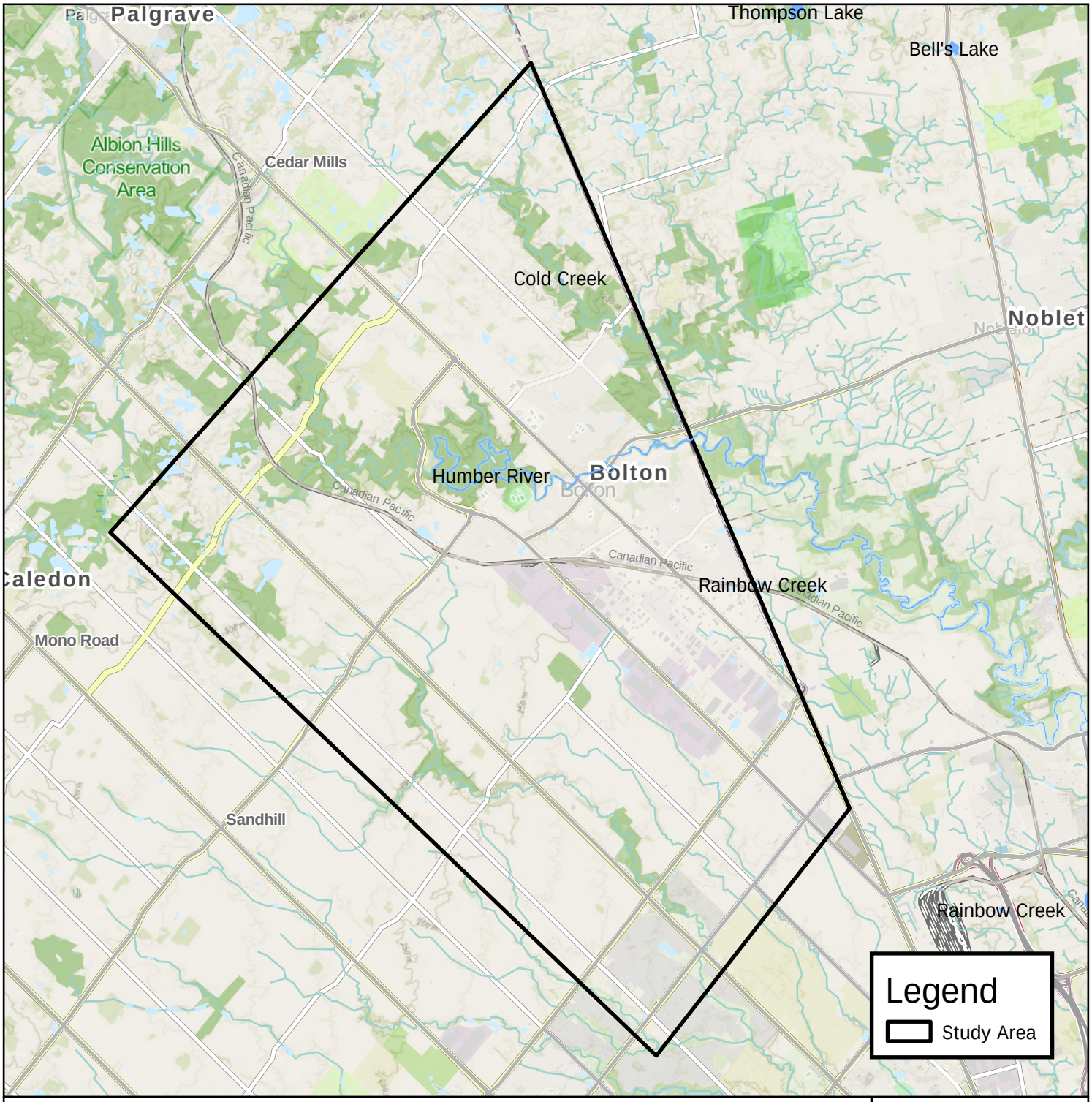
An internet search may find helpful resources, including:

- historical maps
- historical walking tours
- municipal heritage management plans
- cultural heritage landscape studies
- municipal cultural plans

Information specific to trails may be obtained through Ontario Trails.

Appendix C

Mapping



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

Map 1: Study Area on Topographic Map

Sources: Map data © OpenStreetMap contributors, Microsoft, Esri Community Maps contributors, Map layer by Esri, Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community

N

Scale: 1:90,000

0 1,200 2,400

Metres

0 1.25 2.5 Km



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

PARSLOW HERITAGE CONSULTANCY INC.

Map 2: Study Area on Modern Aerial Image

Peel Region, Earthstar Geographics

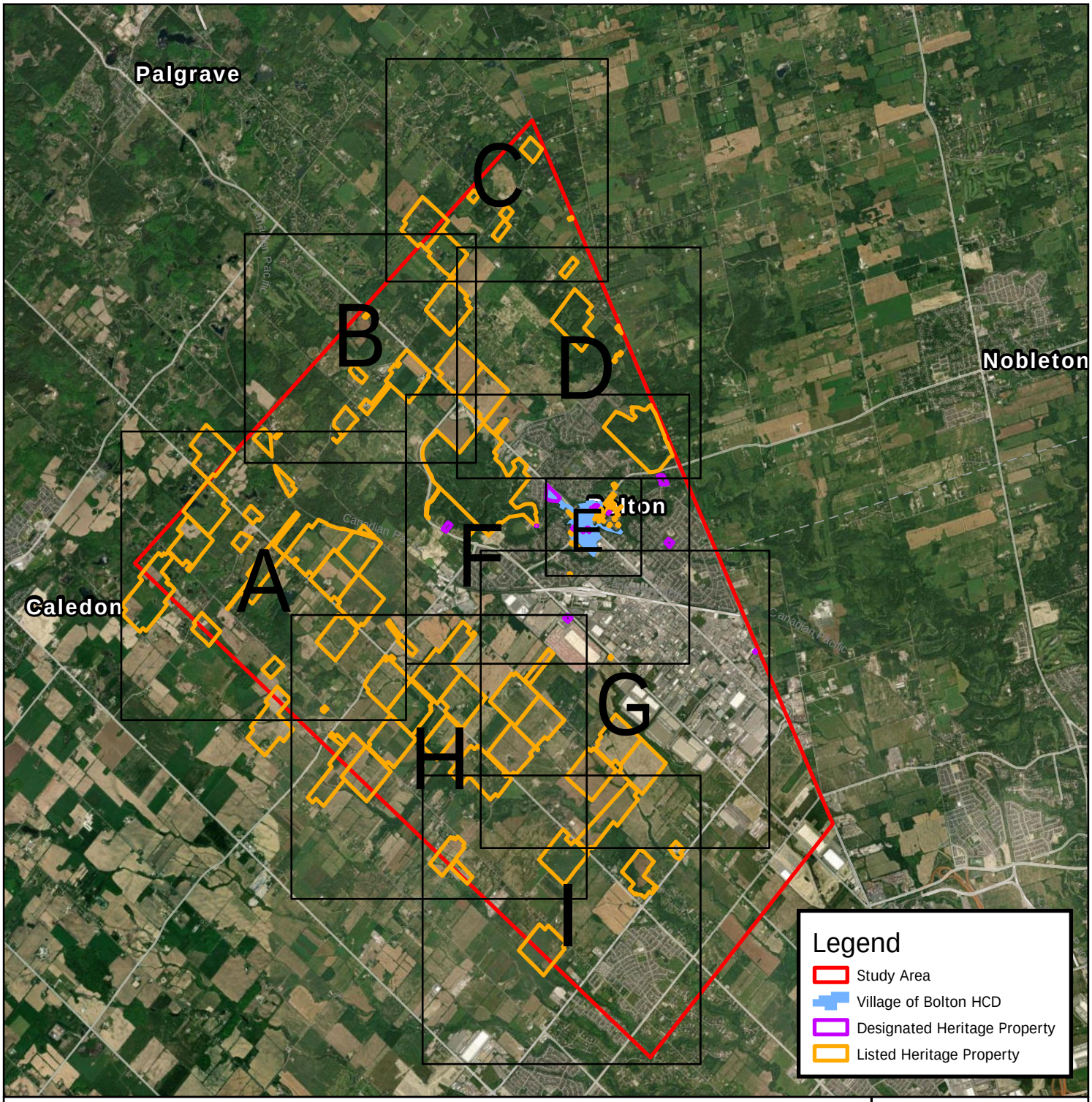
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Scale: 1:90,000

0 1,200 2,400

Metres

0 1.25 2.5 Km



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

Map 3: Heritage Resources Key Map

Peel Region, Earthstar Geographics

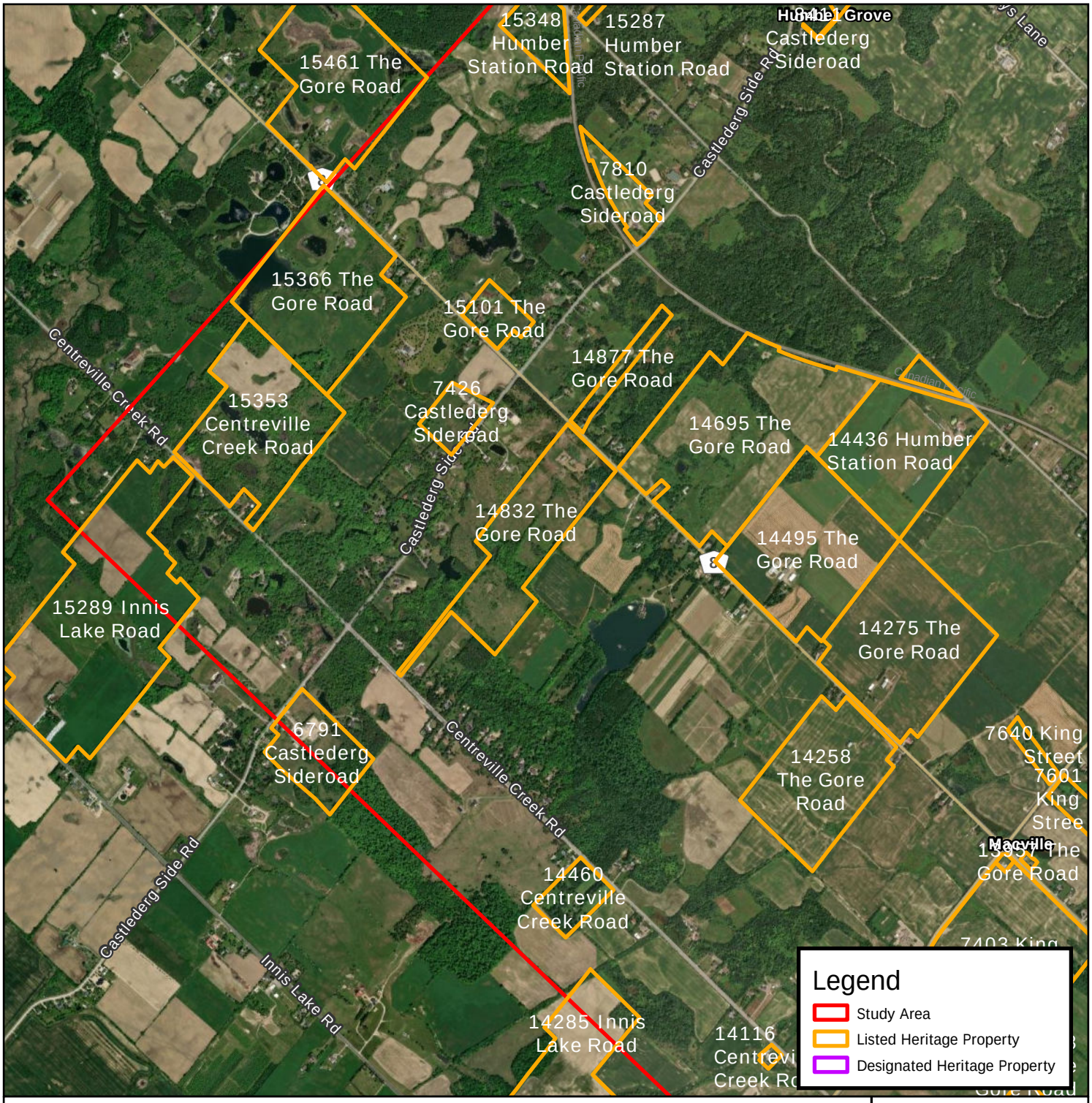
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Scale: 1:95,367

0 1,300 2,600

Metres

0 1.25 2.5 Km



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

Map 3a: Heritage Resources

Peel Region, Maxar

N

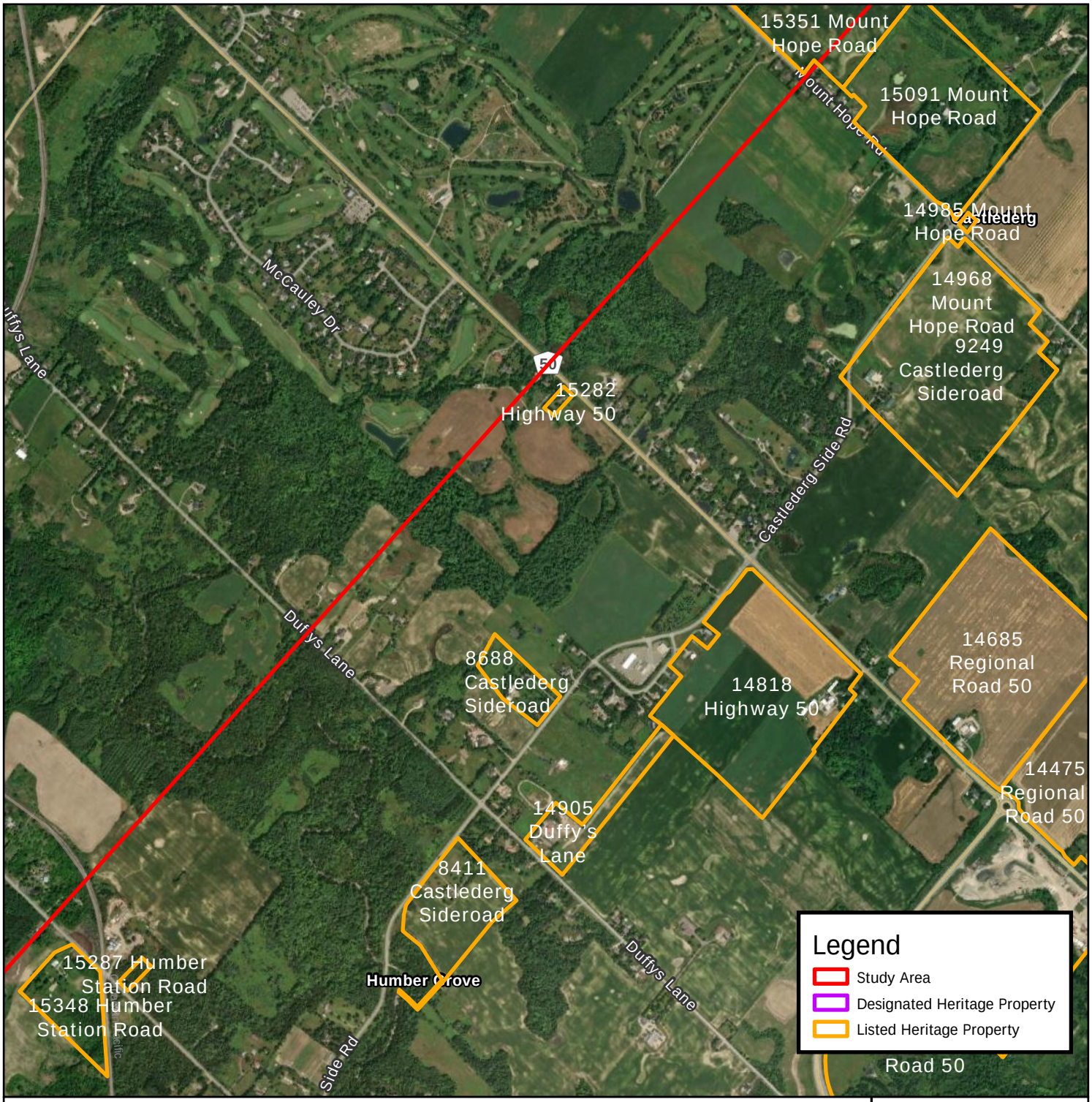
Scale: 1:25,000

0 362.5 725

Metres

Km

0 0.35 0.7



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

PARSLOW HERITAGE CONSULTANCY INC.

Map 3b: Heritage Resources

Peel Region, Maxar

N

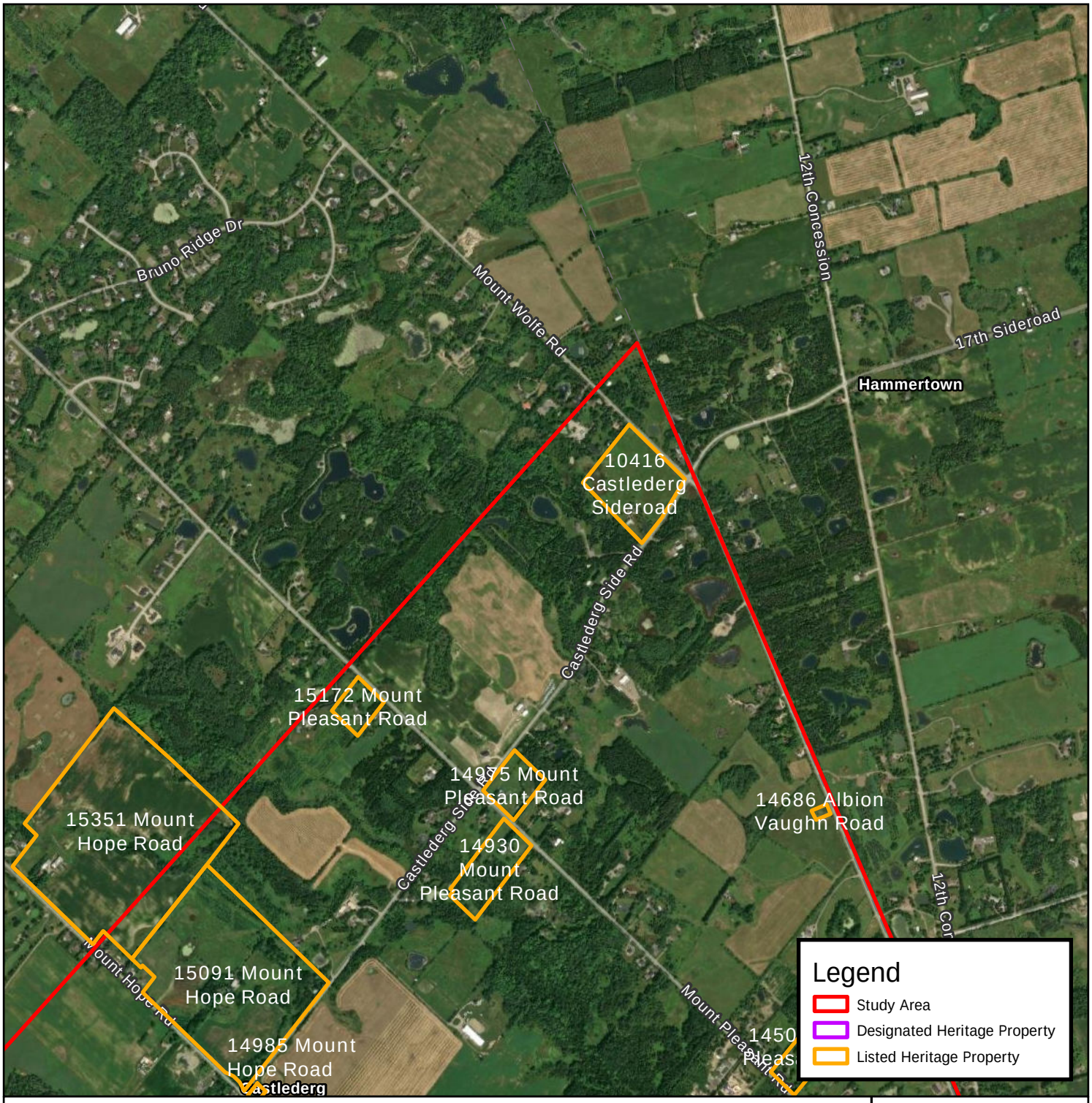
Scale: 1:20,000

0 290 580

Metres

Km

0 0.28 0.55



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

PARSLOW HERITAGE CONSULTANCY INC.

Map 3c: Heritage Resources

Peel Region, Maxar

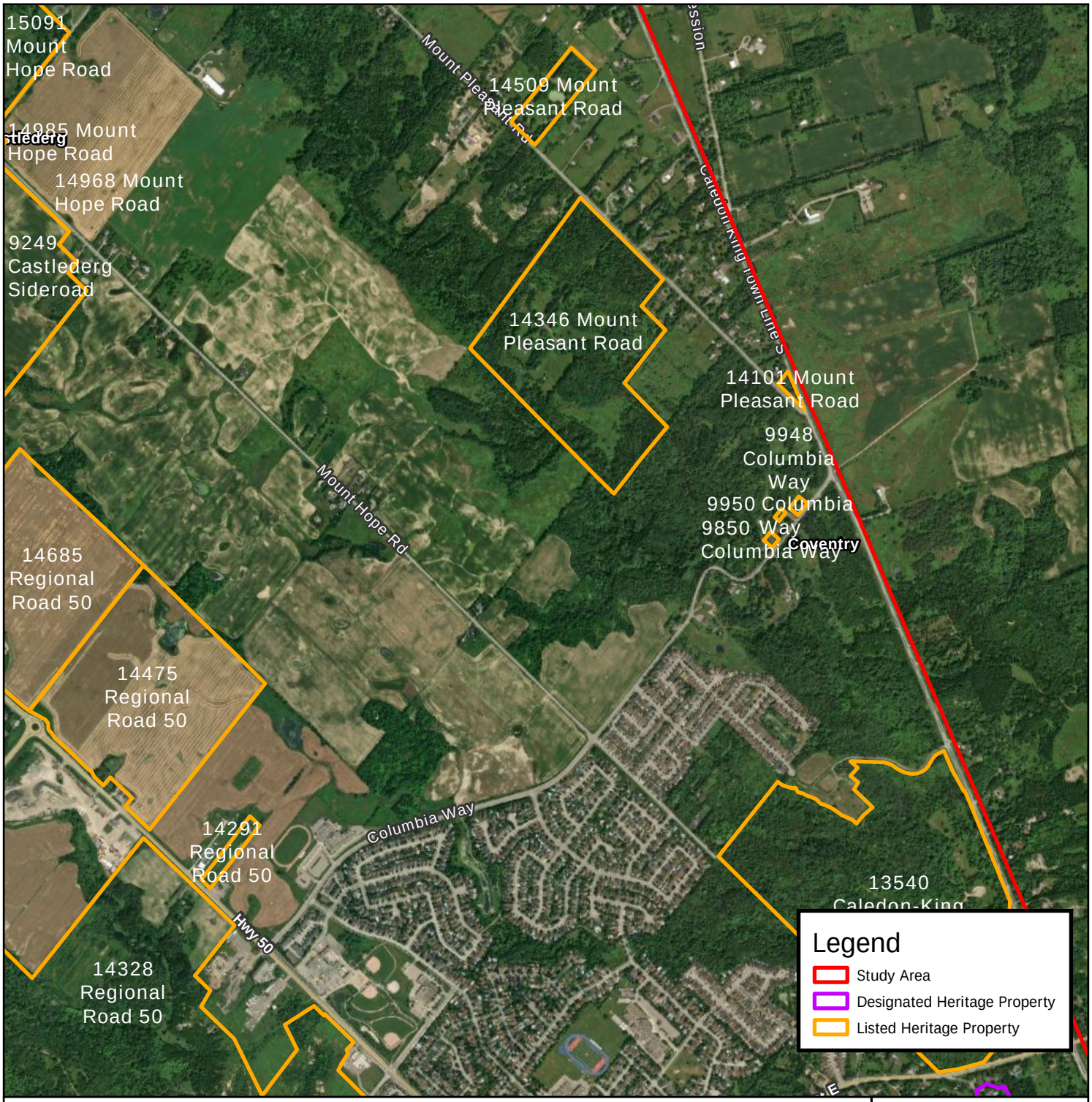
N

Scale: 1:20,000

0 290 580

Metres

0 0.28 0.55 Km



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

Map 3d: Heritage Resources

Peel Region, Maxar

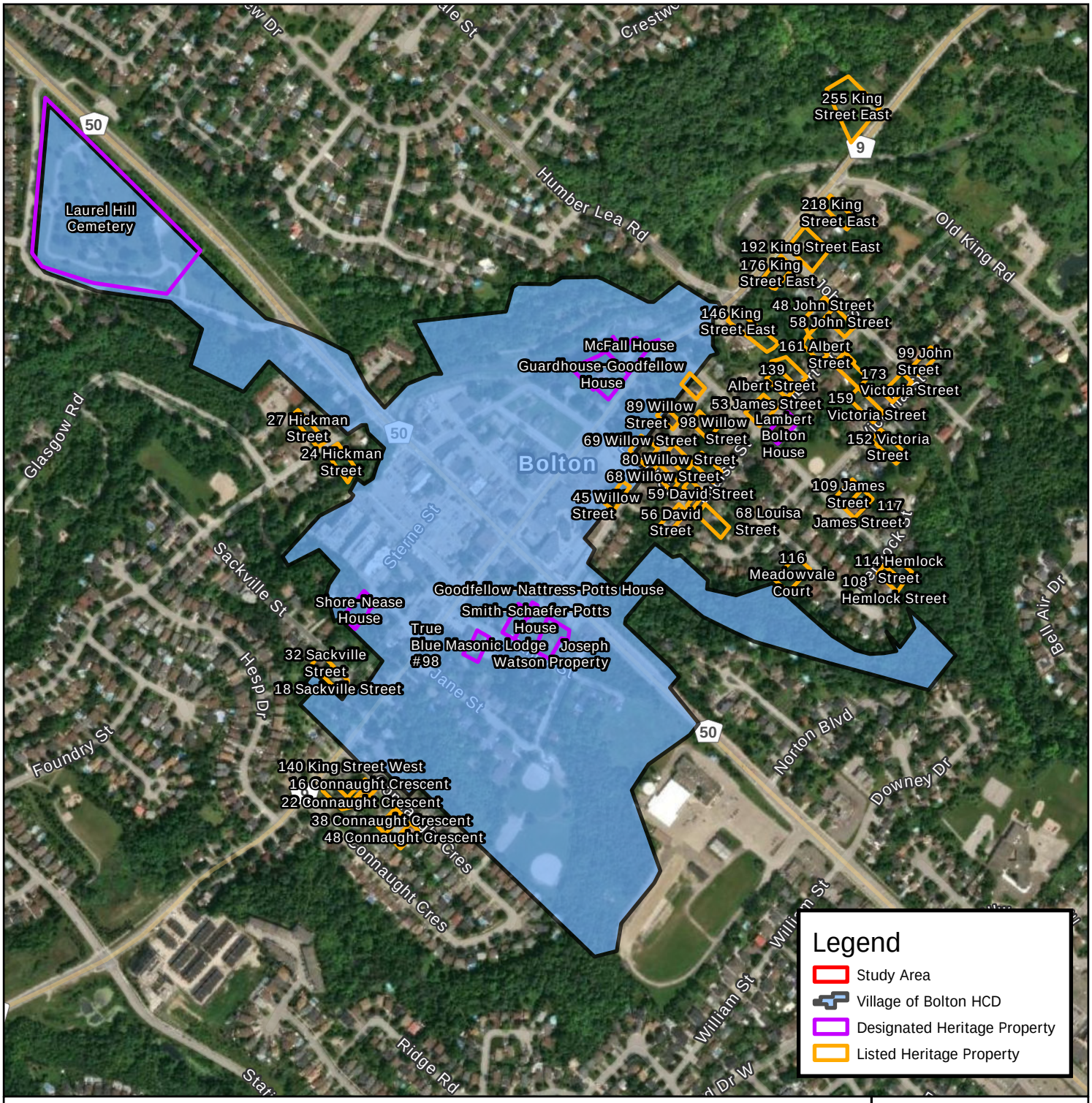
N

Scale: 1:20,000

0 290 580

Metres

0 0.28 0.55 Km



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

Map 3e: Heritage Resources (Village of Bolton HCD)

Peel Region, Maxar

N

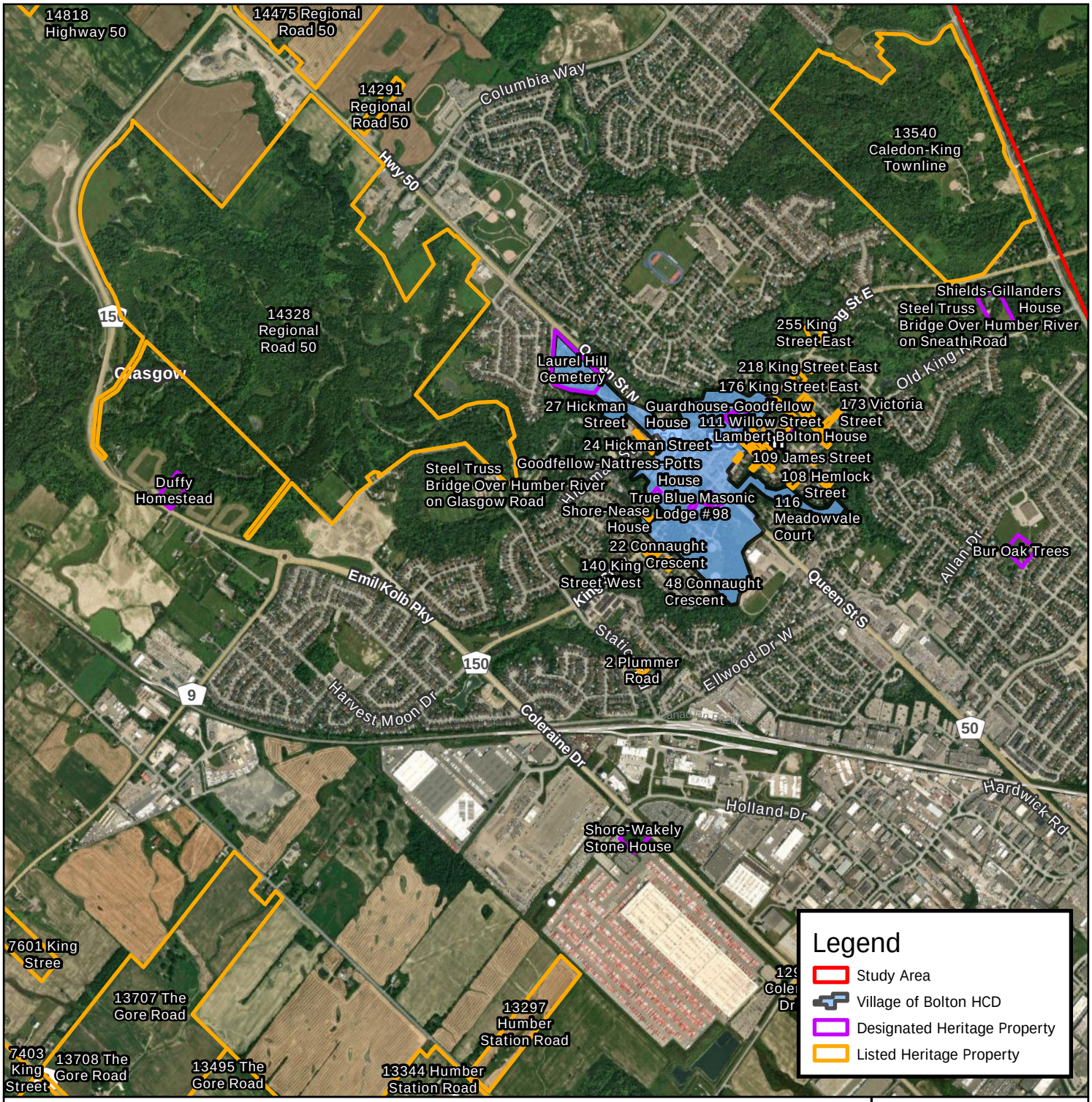
Scale: 1:8,000

0 115 230

Metres

Km

0 0.1 0.2



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

Parslow Heritage Consultancy Inc.

Map 3F: Heritage Resources

Peel Region, Maxar

N

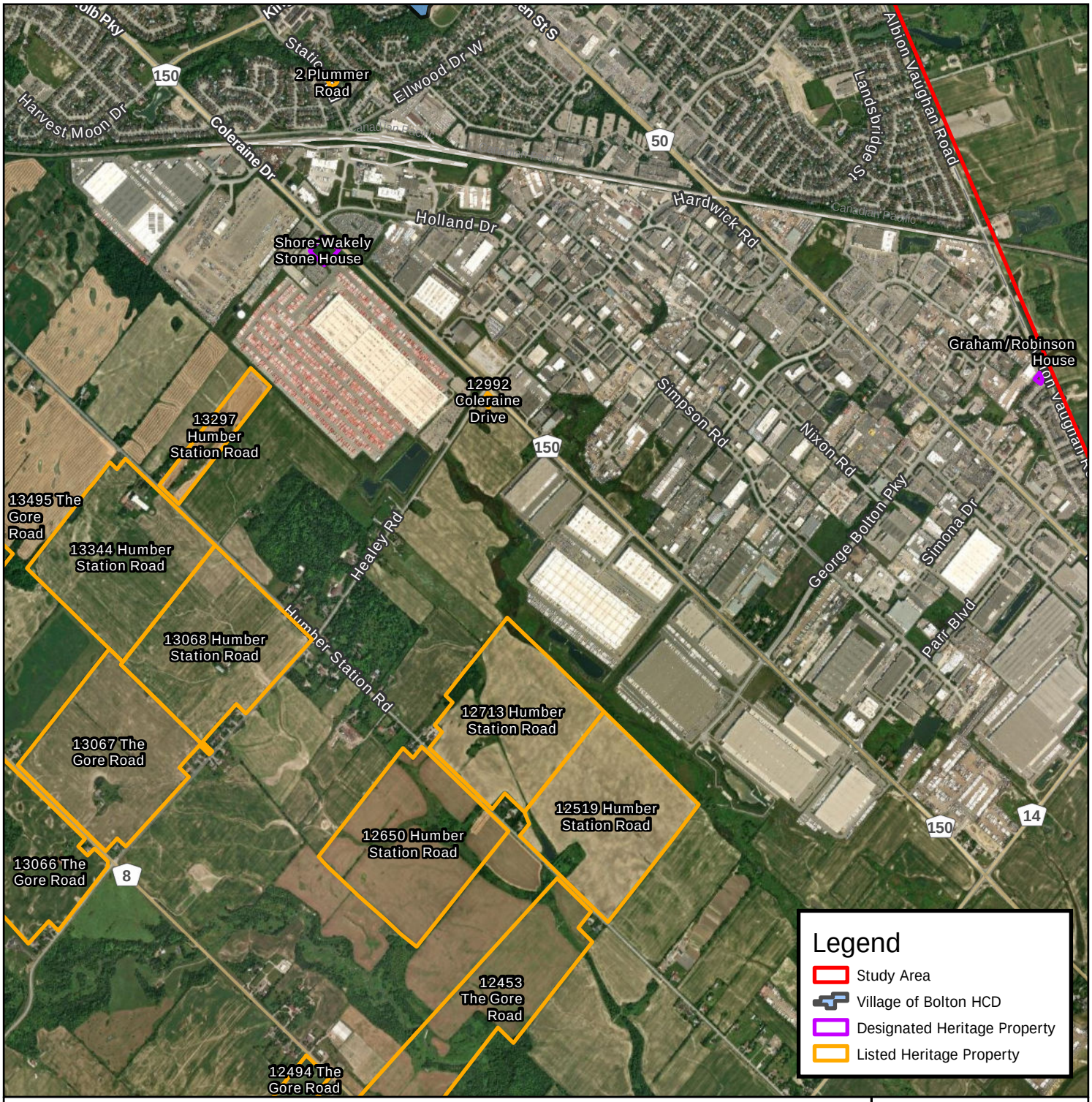
Scale: 1:25,000

0 362.5 725

Metres

Km

0 0.35 0.7



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

Map 3G: Heritage Resources

Peel Region, Maxar

N

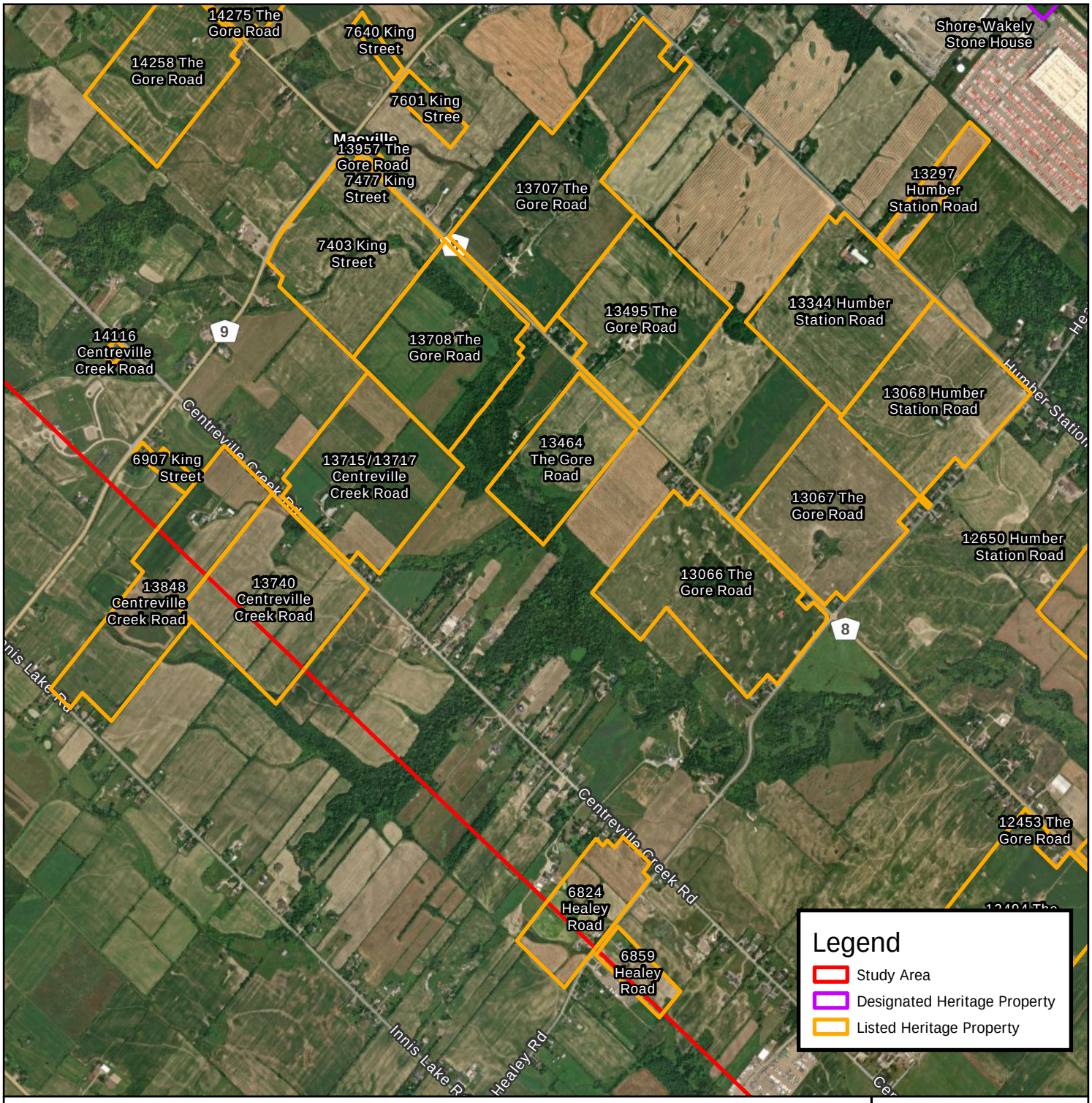
Scale: 1:25,000

0 362.5 725

Metres

Km

0 0.35 0.7



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

PARSLOW HERITAGE CONSULTANCY INC.

Map 3H: Heritage Resources

Peel Region, Maxar

N

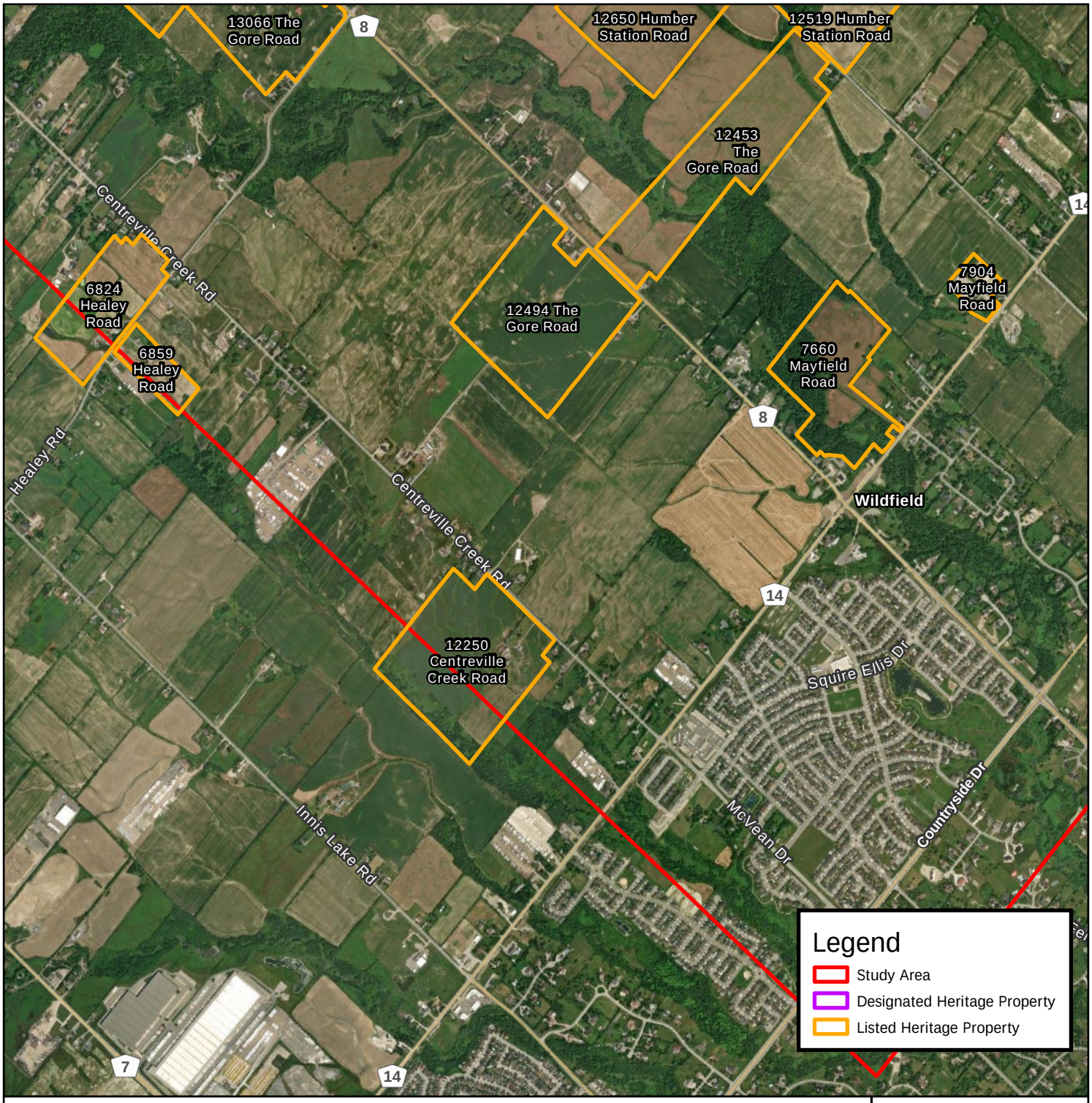
Scale: 1:25,000

0 362.5 725

Metres

Km

0 0.35 0.7



Cultural Heritage Screening Report, Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Regional Municipality of Peel, Ontario

PARSLOW HERITAGE CONSULTANCY INC.

Map 3I: Heritage Resources

Peel Region, Maxar

N

Scale: 1:25,000

0 362.5 725

Metres

Km

0 0.35 0.7

Appendix D

Properties on Heritage Register

Municipality	Property Name	Road	Street Number	Status	Notes
City of Brampton	Hart House	Highway 50	11970	Listed	
City of Brampton	N/A	Highway 50	11176	Listed	
City of Brampton	Cameron House	Highway 50	10980	Listed	
City of Brampton	Cole Farm	Highway 50	10690	Listed	
City of Brampton	N/A	Countryside Drive	5556	Listed	
City of Brampton	N/A	Coleraine Drive	10916	Designated	Designation in progress at time of register review
City of Brampton	Pinebrook Farm	Clarkway Drive	10955	Designated	Adjacent to study area
City of Brampton	Eagon Farmhouse	Grafton Crescent	18	Designated	
City of Brampton	St Patricks Church and Cemetery	The Gore Road	11873	Designated	
City of Brampton	Ontario Gothic Farmhouse	The Gore Road	11962	Listed	May have been demolished
City of Brampton	N/A	Maryfield Road	6791	Listed	
Town of Caledon	Bolton HCD				
Town of Caledon	Graham Robinson House	Morra Avenue	2	Designated	
Town of Caledon	Shore Wakley House	Coleraine Drive	13304	Designated	Adjacent to Canadian Tire distribution centre
Town of Caledon	Bur Oak Tree	Fountainbridge Drive	66	Designated	Collection of trees
Town of Caledon	Humber River Truss Bridge	Sneath Road	Humber River	Designated	
Town of Caledon	Shields Gillarders House	Sneath Road	65	Designated	Regency-style bungalow
Town of Caledon	Lambert Boulton House	James Street	65	Designated	
Town of Caledon	McFall Hosue	King Street East	97	Designated	
Town of Caledon	Guardhouse Goodfellow Hosue	King Street East	85	Designated	
Town of Caledon	Laurel Hill Cemetery	Centennial Drive	389	Designated	Octagonal structure and cemetery
Town of Caledon	Humber River Truss Bridge	Glasgow Road	Humber River	Designated	
Town of Caledon	Shore Nease House	Temperane Street	34	Designated	
Town of Caledon	True Blue Masonic Lodge #98	Hnancy Street	16	Designated	
Town of Caledon	Goodfellow Nattress Potts House	Nancy Street	25	Designated	
Town of Caledon	Smith Schaefer House	Nancy Street	31	Designated	
Town of Caledon	Joseph Watson Property	Nancy Street	45	Designated	
Town of Caledon	Duffy Murray House	Duffys Lane	14121	Designated	
Town of Caledon	N/A	Centreville Creek Road	13740	Listed	
Town of Caledon	N/A	Centreville Creek Road	14116	Listed	
Town of Caledon	N/A	The Gore Road	13957	Listed	
Town of Caledon	N/A	The Gore Road	14258	Listed	
Town of Caledon	N/A	The Gore Road	14275	Listed	
Town of Caledon	N/A	The Gore Road	14495	Listed	
Town of Caledon	N/A	The Gore Road	12453	Listed	
Town of Caledon	N/A	The Gore Road	12494	Listed	
Town of Caledon	N/A	The Gore Road	13066	Listed	
Town of Caledon	N/A	The Gore Road	13067	Listed	
Town of Caledon	N/A	The Gore Road	13464	Listed	
Town of Caledon	N/A	The Gore Road	13495	Listed	
Town of Caledon	N/A	The Gore Road	13707	Listed	
Town of Caledon	N/A	The Gore Road	13708	Listed	
Town of Caledon	N/A	The Gore Road	14695	Listed	
Town of Caledon	N/A	The Gore Road	14832	Listed	
Town of Caledon	N/A	The Gore Road	14877	Listed	
Town of Caledon	N/A	The Gore Road	15101	Listed	
Town of Caledon	N/A	The Gore Road	15366	Listed	
Town of Caledon	Brigg's Cemetery	Mount Hope Road	14968	Listed	Cemetery that may be adjacent or on northen limit
Town of Caledon	N/A	Mount Hope Road	14985	Listed	
Town of Caledon	N/A	Mount Hope Road	15351	Listed	
Town of Caledon	N/A	Mount Hope Road	15290	Listed	Cemetery that may be adjacent or on northen limit
Town of Caledon	N/A	Mount Hope Road	15091	Listed	
Town of Caledon	N/A	Mount Pleasant Road	15172	Listed	
Town of Caledon	N/A	Mount Pleasant Road	14246	Listed	
Town of Caledon	N/A	Mount Pleasant Road	14509	Listed	
Town of Caledon	N/A	Mount Pleasant Road	14930	Listed	
Town of Caledon	N/A	Mount Pleasant Road	14975	Listed	
Town of Caledon	N/A	Mount Pleasant Road	14101	Listed	
Town of Caledon	N/A	King Street	7403	Listed	
Town of Caledon	N/A	King Street	6907	Listed	
Town of Caledon	N/A	King Street	7477	Listed	
Town of Caledon	N/A	King Street	7601	Listed	
Town of Caledon	N/A	King Street	7640	Listed	
Town of Caledon	N/A	King Street East	192	Listed	
Town of Caledon	N/A	King Street East	176	Listed	
Town of Caledon	N/A	King Street East	146	Listed	
Town of Caledon	N/A	King Street East	218	Listed	
Town of Caledon	N/A	King Street East	255	Listed	
Town of Caledon	N/A	King Street West	140	Listed	
Town of Caledon	N/A	Healey Road	6859	Listed	
Town of Caledon	N/A	Healey Road	6824	Listed	
Town of Caledon	N/A	Mayfield Road	7904	Listed	
Town of Caledon	N/A	Mayfield Road	7660	Listed	

Appendix E

Indigenous Communities List

Mr.	Anthony	Lewis	Indigenous Community	Beausoleil First Nation	Lands Manager	alewis@chimnissing.ca
Mr.	Mike	Smith	Indigenous Community	Beausoleil First Nation	Lands - Environmental	msmith@chimnissing.ca
Ms.	Sylvia	McCue	Indigenous Community	Chippewas of Georgina Island First Nation	Lands Manager	smccue@georginaisland.com
Ms.	Evelyn	Ball	Indigenous Community	Chippewas of Rama First Nation	Chief Administrative Officer	evelynb@ramafirstnation.ca
Ms.	Cathy	Edney	Indigenous Community	Chippewas of Rama First Nation	Communications Manager	cathye@ramafirstnation.ca
Ms.	Barbara	Simcoe	Indigenous Community	Chippewas of Rama First Nation	Lands and Membership Manager	barbs@ramafirstnation.ca
Ms.	Janice	Bomberry	Indigenous Community	Haudenosaunee Confederacy Chiefs Council		janicehdi@gmail.com
Mr.	Wayne	Hill	Indigenous Community	Haudenosaunee Confederacy Chiefs Council		tworowarchaeology@gmail.com
			Indigenous Community	Haudenosaunee Confederacy Chiefs Council		info@hdi.land
Mr.	Aaron	Detlor	Indigenous Community	Haudenosaunee Development Institute		Aarondetlor@gmail.com
Mr.	Brian	Doolittle	Indigenous Community	Haudenosaunee Development Institute		ganowa@me.com
	Tracey	General	Indigenous Community	Haudenosaunee Development Institute		traceyghdi@gmail.com
Ms.	Raechelle	Williams	Indigenous Community	Haudenosaunee Development Institute		janicewilliams@hdi.land
	Kahsenniyo	Williams	Indigenous Community	Haudenosaunee Development Institute		kahsenniyowilliams@gmail.com
Mr.	Todd E.	Williams	Indigenous Community	Haudenosaunee Development Institute	Monitoring Program Coordinator	williams.todde@gmail.com
Ms.	Lori-Jeanne	Bolduc	Indigenous Community	Huron-Wendat Nation		lori-jeanne.bolduc@wendake.ca
Ms.	Marie-Sophie	Gendron	Indigenous Community	Huron-Wendat Nation		Marie-Sophie.Gendron@wendake.ca
Mr.	Mario	Gros-Louis	Indigenous Community	Huron-Wendat Nation		mario.groslouis@wendake.ca
Ms.	Valerie	Janssen	Indigenous Community	Huron-Wendat Nation		valerie.janssen@wendake.ca
Mr.	Louis	Lesage	Indigenous Community	Huron-Wendat Nation	Director - Ontario File	louis.lesage@cnhw.qc.ca
Mr.	Maxime	Picard	Indigenous Community	Huron-Wendat Nation		picard@cnhw.gc.ca
	Dominic	Ste-Marie	Indigenous Community	Huron-Wendat Nation	Project Coordinator, Ontario	Dominic.Sainte-Marie@wendake.ca
Chief	Remy	Vincent	Indigenous Community	Huron-Wendat Nation	Chief	administration@cnhw.gc.ca
			Indigenous Community	Huron-Wendat Nation	Administration	Administration@wendake.ca
Ms.	Cathie	Jamieson	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Environment Sustainability Councillor	cathiej@mncfn.ca
Mr.	Adam	Laforme	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)		Adam.LaForme@mncfn.ca
Ms.	Megan	DeVries	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Archaeological Coordinator	Megan.DeVries@mncfn.ca
Chief	R. Stacey	LaForme	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Chief	stacey.laforme@mncfn.ca
Mr.	Mark	LaForme	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Director	Mark.Laforme@mncfn.ca
Ms.	Abby	LaForme	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Consultation Manager	Abby.LaForme@mncfn.ca
Ms.	Caron	Smith	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Environmental and Regulatory Advisor	Caron.Smith@mncfn.ca
Ms.	Joelle	Williams	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Environmental and Archaeological Assistant	doca@mncfn.ca
Mr.	Darin	Wybenga	Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Traditional Knowledge and Land Use Coordinator	Darin.Wybenga@mncfn.ca
			Indigenous Community	Mississaugas of the Credit First Nation (MCFN)	Consultation Department	communications@mncfn.ca
			Indigenous Community	Mississaugas of the Credit First Nation (MCFN)		MCFN.Consultation@mncfn.ca
Mr.	Lonny	Bomberry	Indigenous Community	Six Nations of the Grand River	Lands and Resources Director	lonnybomberry@sixnations.ca
Mr.	Peter	Graham	Indigenous Community	Six Nations of the Grand River		peter.graham@sixnations.ca
	Tayler	Hill	Indigenous Community	Six Nations of the Grand River		tayler.hill@sixnations.ca
Chief	Mark B.	Hill	Indigenous Community	Six Nations of the Grand River	Chief	markhill@sixnations.ca
Mr.	Tayler	Hill	Indigenous Community	Six Nations of the Grand River		tayler.hill@sixnations.ca
	Tanya	Hill-Montour	Indigenous Community	Six Nations of the Grand River	Archaeology Supervisor	tanyahill-montour@sixnations.ca
	Dawn	Laforme	Indigenous Community	Six Nations of the Grand River	Secretary	dlaforme@sixnations.ca
Mr.	Robbie	Vanstone	Indigenous Community	Six Nations of the Grand River	Consultation Supervisor	rvanstone@sixnations.ca
Mr.	Hohahes Leroy	Hill	Indigenous Community	Six Nations of the Grand River Haudenosaunee Confederacy Chiefs Council	Secretary	jocko@sixnationsns.com
Mr.	Jake	Linklater	Indigenous Community	Haudenosaunee Confederacy Chiefs Council	Lawyer	jake@detlorlaw.com

From: Aaron Detlor
To: Jamie Lemon
Cc: Aaron Detlor; Sandra Anastasio - GM BluePlan; Chris Campbell - GM BluePlan; Chazz Pitts; Jake Linklater; italia.ponce@peelregion.ca; Juli Abouchar; Josh Detlor
Subject: Re: Cultural Heritage Screening - Bolton Water and Wastewater Capacity Improvements
Date: July 4, 2023 4:57:30 PM

Dear Mr. Lemon

We are prepared to engage with Bolton/Peel however at this time it is premature for us to be engaging with a contractor where we have advised that the activity you are undertaking is interfering and infringing upon established treaty rights and interests. As there are established rights and interests at play here there are a number of very serious and significant steps that have not been addressed in the EA process. In particular we need to know if Bolton/Peel is relying upon the EA process to discharge obligations arising from the honour of the Crown. At this juncture I can advise that we hold significant cultural heritage resources within and/or the vicinity of the project study area. We have no resources to review the cultural heritage screening report you have provided and as such the deadline you have imposed is not something that we believe to be relevant or pertinent to our discussions.

Regards,

Aaron Detlor

On Jul 4, 2023, at 3:34 PM, Jamie Lemon <jlemon@phcgroup.ca> wrote:

Good afternoon,

PHC has been retained by GM BluePlan Engineering Limited to undertake a Cultural Heritage Screening Report in support of the Schedule C Class Environmental Assessment for the Bolton Water and Wastewater Capacity Improvements Study. A map illustrating the study area is included in the attached Notice of Study Commencement.

The purpose of this undertaking is to complete a Cultural Heritage Screening and associated Report in accordance with the Ontario Heritage Act and the Ministry of Citizenship and Multiculturalism's (formerly Ministry of Tourism, Culture and Sport) *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* (2016). The main objectives of the Cultural Heritage Screening are to gather information about the potential presence and significance of cultural heritage resources within and/or vicinity of the project study area and determine if further field investigation will be required.

We are contacting you to inquire if you have any information regarding built heritage and cultural heritage resources within or adjacent to the study area. We respectfully request any response be provided by July 18, 2023.

Please let me know if there are any questions related to the Cultural Heritage Screening Report.

Thank you,

Jamie

Jamie Lemon, MA
Senior Archaeologist/Project Manager
jlemon@phcgroup.ca
226-230-0607

PHC is pleased to support a 4-day work week. Our core hours are Monday to Thursday, 8am – 5pm.

Parslow Heritage Consultancy Inc.
www.phcgroup.ca

<image001.png>

<20230607 Region of Peel_W_WW_Bolton EA_NOC_Final_Stakeholder.pdf>

Peninsula Heritage Ltd.

Archaeology & Built Heritage

Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment, Bolton Water and Wastewater Capacity Improvements Schedule C Municipal Class Environmental Assessment, Peel Region, Ontario

Project Number: 2024-0121

Date: March 3, 2025

Prepared For: **GEI Consultants Ltd.**
Client Contact: Sandra Anastasio
Client Address: 3300 Highway 7, Suite 402, Vaughan, Ontario

1.0 Executive Summary

Peninsula Heritage Ltd. (Peninsula Heritage) was retained by GEI Consultants Ltd. (GEI) on behalf of Peel Region (the Proponent) to complete a Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment (CHR) in support of the Bolton Water and Wastewater Capacity Improvements Schedule C Municipal Class Environmental Assessment (MCEA), Peel Region, Ontario (the Study). The MCEA is briefly described as follows (Peel Region 2025):

Peel Region has initiated the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment (MCEA) study. This MCEA builds off a Feasibility Study recently completed which outlined conceptual water and wastewater projects that service the additional development proposed within both the intensification and greenfield growth areas in the Community of Bolton. Additionally, the MCEA will complete a comprehensive evaluation of all potential alternatives to develop the optimal water and wastewater servicing solutions to meet existing needs and growth within the Bolton study area.

The Study includes determining the preferred location, siting, design and construction timing for a new sanitary pumping station, sanitary forcemains along Emil Kolb Parkway, and sewer and watermains along Emil Kolb Parkway, Columbia Way, Mount Hope Road, and Regional Road 50, as well as a new infrastructure corridor between Mount Hope Road and Regional Road 50, to connect with the Emil Kolb Parkway sewer. The focus area is the general area surrounding the preferred preliminary alignment. The preferred water and wastewater solution refers to the proposed alignment and SPS location.

A CHR is a requirement of the MCEA process; the objectives of the CHR are to identify existing and potential built heritage resources (BHR) and cultural heritage landscapes (CHL), review the historical context of the focus area, undertake a site visit to confirm existing conditions, provide a preliminary impact assessment to conserve BHRs and CHLs, identify mitigation and/or monitoring for potential impacts, and identify if additional heritage reporting is required.

The CHR was completed in accordance with the Ontario Heritage Act (OHA), the Provincial Planning Statement (PPS), the Environmental Assessment Act (EAA), the Peel Region Official Plan, and the Town of Caledon Official Plan.

The following provides a summary of the CHR results:

- Fourteen properties/structures were reviewed as potential BHR or CHL resources including one Designated property, four Listed properties, and 10 properties of potential CHVI;
- Of the properties with potential CHVI, the following properties were identified to exhibit CHVI:
    - 14445 Regional Road 50

- 14328 Regional Road 50 (cast in place concrete bridge abutments), former Duffy's Lane road alignment

Based on the results of the background data collection, field review, and assessment of potential impacts to the focus area, this CHR makes the following recommendations:

- 1) For the Designated and Listed properties, no direct or indirect impacts are anticipated, and no mitigation measures are proposed at this time;
- 2) For the properties of potential CHVI where no CHVI was identified, no mitigation measures are proposed at this time;
- 3) For the property at 14445 Regional Road 50, where CHVI was determined to be present, no direct or indirect impacts are anticipated, and no mitigation measures are proposed at this time;
- 4) For the cast in place concrete bridge abutments along the former Duffy's Lane road alignment on 14328 Regional Road 50, based on the proposed construction techniques no direct or indirect impacts are anticipated to the bridge abutments. However, the following mitigation measures are recommended:
  - Vibration assessment be undertaken by qualified personnel to confirm proposed construction methods will not result in damage from vibration to the bridge abutments.
  - On-site monitoring by project team be conducted to ensure construction techniques do not inadvertently result in impacts to the bridge abutments.
- 5) Design the preferred water and wastewater solution to avoid direct and indirect impacts to BHLs and CHLs.
- 6) In contract documentation for the Project, direct the contractor to avoid and protect the identified BHRs and CHLs.
- 7) Plan and locate storage and construction staging areas to avoid impacts to the identified BHRs and CHLs.
- 8) Should the preferred water and wastewater solution be expanded, retain a qualified heritage consultant to identify the impacts of the proposed new work on known or potential BHRs and CHLs and recommend appropriate mitigation or conservation measures.

The *Provincial Planning Statement* (2024) notes that CHVI is identified for cultural heritage resources by communities. Thus, the system by which heritage is administered in Ontario places emphasis on the decision-making of local municipalities in determining CHVI. It is hoped that the information presented in this report will be useful in those determinations.

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3.0 Personnel

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Alistair Jolly	TRCA

4.0 Acronyms and Definitions

4.1 Acronyms

BHR – Built Heritage Resource

CHL – Cultural Heritage Landscape

CHR – Cultural Heritage Report

CHVI – Cultural Heritage Value or Interest

EAA – Environmental Assessment Act

MCEA – Municipal Class Environmental Assessment

MCM – Ministry of Citizenship and Multiculturalism

OHA – Ontario Heritage Act

PIC – Public Information Centre

PPS – Provincial Planning Statement

SPS – Sanitary Pumping Station

TRCA - Toronto and Region Conservation Authority

4.2 Key Definitions

Cultural Heritage Value or Interest (CHVI), also referred to as Heritage Value, is identified if a property meets one of the criteria outlined in Ontario Regulation (O. Reg). 9/06 (as amended by O. Reg. 569/22). Provincial significance is defined under O. Reg. 10/06 of the Ontario Heritage Act (OHA).

Built Heritage Resource (BHR) is defined in the Provincial Policy Statement (PPS) (MMAH 2020:41) as: “a building, structure, monument, installation or any manufactured or constructed part or remnant that contributes to a property’s cultural heritage value or interest as identified by a community, including an Indigenous community” (MMAH 2024:40).

Cultural Heritage Landscape (CHL) is defined in the PPS as: “a defined geographical area that may have been modified by human activity and is identified as having cultural heritage value or interest by a community, including an Indigenous community. The area may include features such as buildings, structures, spaces, views, archaeological sites or natural elements that are valued together for their interrelationship, meaning or association.” (MMAH 2024:41).

The heritage value of a CHL is often derived from its association with historical themes that characterize the development of human settlement in an area. In Ontario, typical themes that may carry heritage value within a community include, but are not limited to: 1) Pre-Contact habitation, 2) early European exploration, 3) early European and First Nations contacts, 4) pioneer settlement, 5) development of transportation networks, agriculture and rural life, 6) early

industry and commerce, and/or 7) urban development. Individual CHLs may be related to a number of these themes simultaneously.

The former Ministry of Culture (now MCM) Information Sheet #2 Cultural Heritage Landscapes (MCM 2006a) defines several types of CHLs: 1) designed and created intentionally by man, 2) organically evolved landscapes that fall into two-subcategories (relic/fossil or continuing), and 3) associative cultural landscapes.

Focus Area is the general area surrounding the preferred preliminary alignment.

Preferred Water and Wastewater Solution refers to the proposed alignment and SPS location.

5.0 Introduction

Peninsula Heritage Ltd. (Peninsula Heritage) was retained by GEI Consultants Ltd. (GEI) on behalf of Peel Region (the Proponent) to complete a Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment (CHR) in support of the Bolton Water and Wastewater Capacity Improvements Schedule C Municipal Class Environmental Assessment (MCEA), Peel Region, Ontario (the Study). The MCEA is briefly described as follows (Peel Region 2025):

Peel Region has initiated the Bolton Water and Wastewater Capacity Improvements Municipal Class Environmental Assessment (MCEA) study. This MCEA builds off a Feasibility Study recently completed which outlined conceptual water and wastewater projects that service the additional development proposed within both the intensification and greenfield growth areas in the Community of Bolton. Additionally, the MCEA will complete a comprehensive evaluation of all potential alternatives to develop the optimal water and wastewater servicing solutions to meet existing needs and growth within the Bolton study area.

The Study includes determining the preferred location, siting, design and construction timing for a new sanitary pumping station, sanitary forcemains along Emil Kolb Parkway, and sewer and watermains along Emil Kolb Parkway, Columbia Way, Mount Hope Road, and Regional Road 50, as well as a new infrastructure corridor between Mount Hope Road and Regional Road 50, to connect with the Emil Kolb Parkway sewer. The MCEA has been undertaken using a phased approach and included the following:

- Phase 1: Problem/opportunity statement, study area background and conceptual servicing strategies
- Phase 2 – Preliminary preferred servicing strategies
- Phase 3 – Preliminary preferred design concepts
- Phase 4 – Environmental Study Report
- Phase 5 - Implementation

The virtual public information centre (PIC) for Phase 3 commenced on December 12, 2024 and ran until January 31, 2025.

A CHR is a requirement of the MCEA process; the objectives of the CHR are to identify existing and potential built heritage resources (BHR) and cultural heritage landscapes (CHL), review the historical context of the focus area, undertake a site visit to confirm existing conditions, provide a preliminary impact assessment to conserve BHRs and CHLs, identify mitigation and/or monitoring for potential impacts, and identify if additional heritage reporting is required. To meet these objectives, the CHR report methodology included the following:

- Review of applicable provincial and municipal legislation and policies

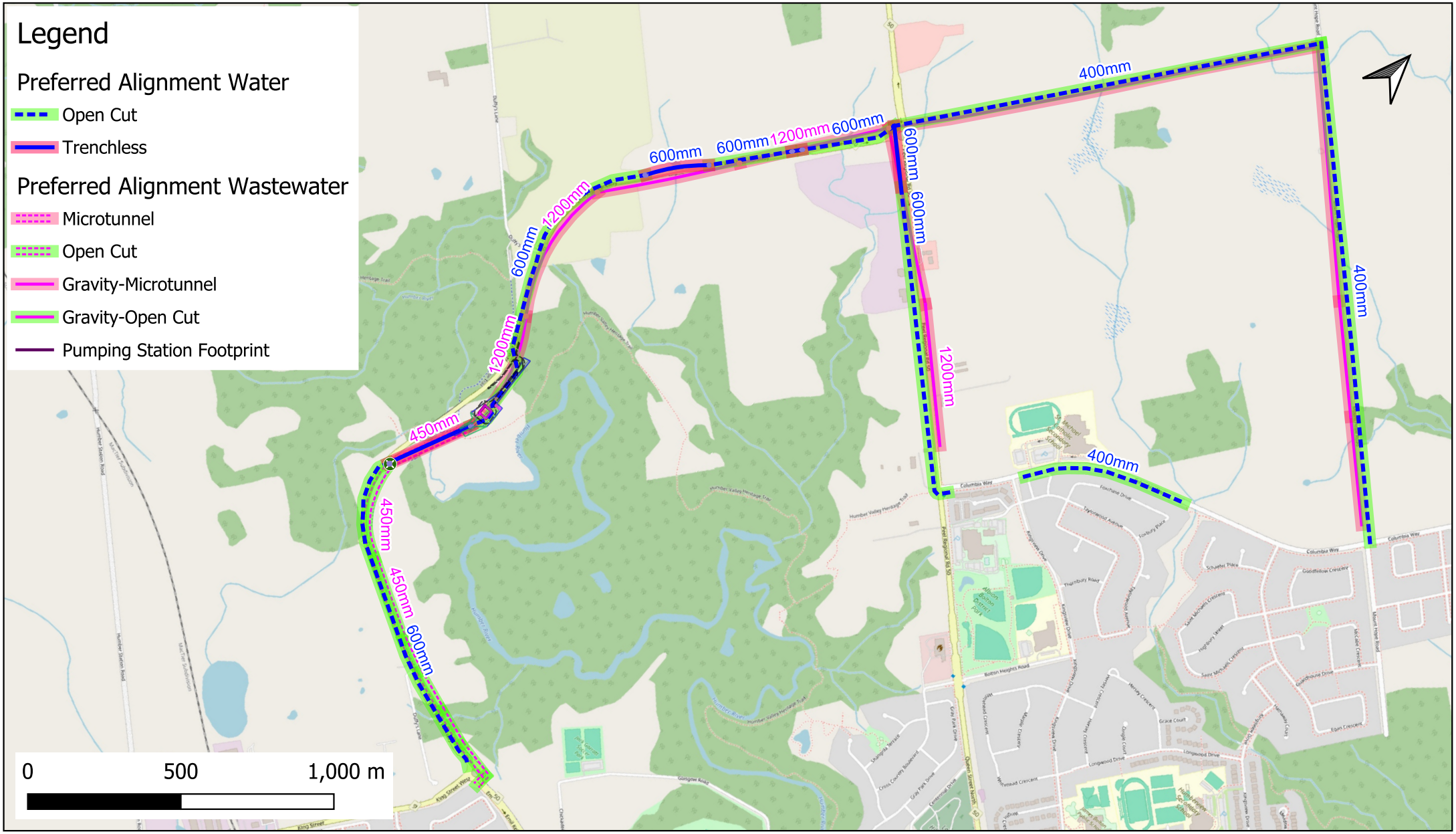
- Review of pre-contact Indigenous and historical Euro-Canadian land use including historical mapping and aerial photography, local histories, and contact with local informants, as required
- Review of municipal, provincial, and federal heritage registers and listings of cultural heritage resources
- Identification through background research and site visit of known and potential BHRs and CHLs
- Completion of high-level evaluations under Ontario Regulation (O. Reg.) 9/06 (as amended by O. Reg. 569/22) for properties of potential cultural heritage value or interest (CHVI)
- Review of potential direct and indirect impacts the proposed project may have on known and potential cultural heritage resources, and determination of mitigation options to ensure the conservation of cultural heritage resources

The CHR was completed in accordance with the Ontario Heritage Act (OHA), the Provincial Planning Statement (PPS), the Environmental Assessment Act (EAA), the Peel Region Official Plan, and the Town of Caledon Official Plan.

5.1 Focus Area Description and Context

The focus area is located on the east side of the Town of Caledon, within Peel Region, Ontario. The focus area is located northwest of the community of Bolton and is largely rural in natural. The central and east side of the focus area include expanses of agricultural fields, while the west side of the focus area is largely wooded areas associated with the Humber River. Watermains, sewers, and sanitary forcemains are proposed along Emil Kolb Parkway, Columbia Way, Mount Hope Road, and Regional Road 50, as well as a new infrastructure corridor between Mount Hope Road and Regional Road 50, to connect with the Emil Kolb Parkway sewer. The proposed location of the sanitary pumping station (SPS) and access road is located on Toronto and Region Conservation Authority (TRCA) owned lands.

Aside from the largely rural nature of the focus area, modern homes in a subdivision setting and a school are present along the south side of Columbia Way. Limited commercial properties are present, including a large commercial business property located south of the Emil Kolb Parkway/Regional Road 50 roundabout (James Dick Construction Limited).

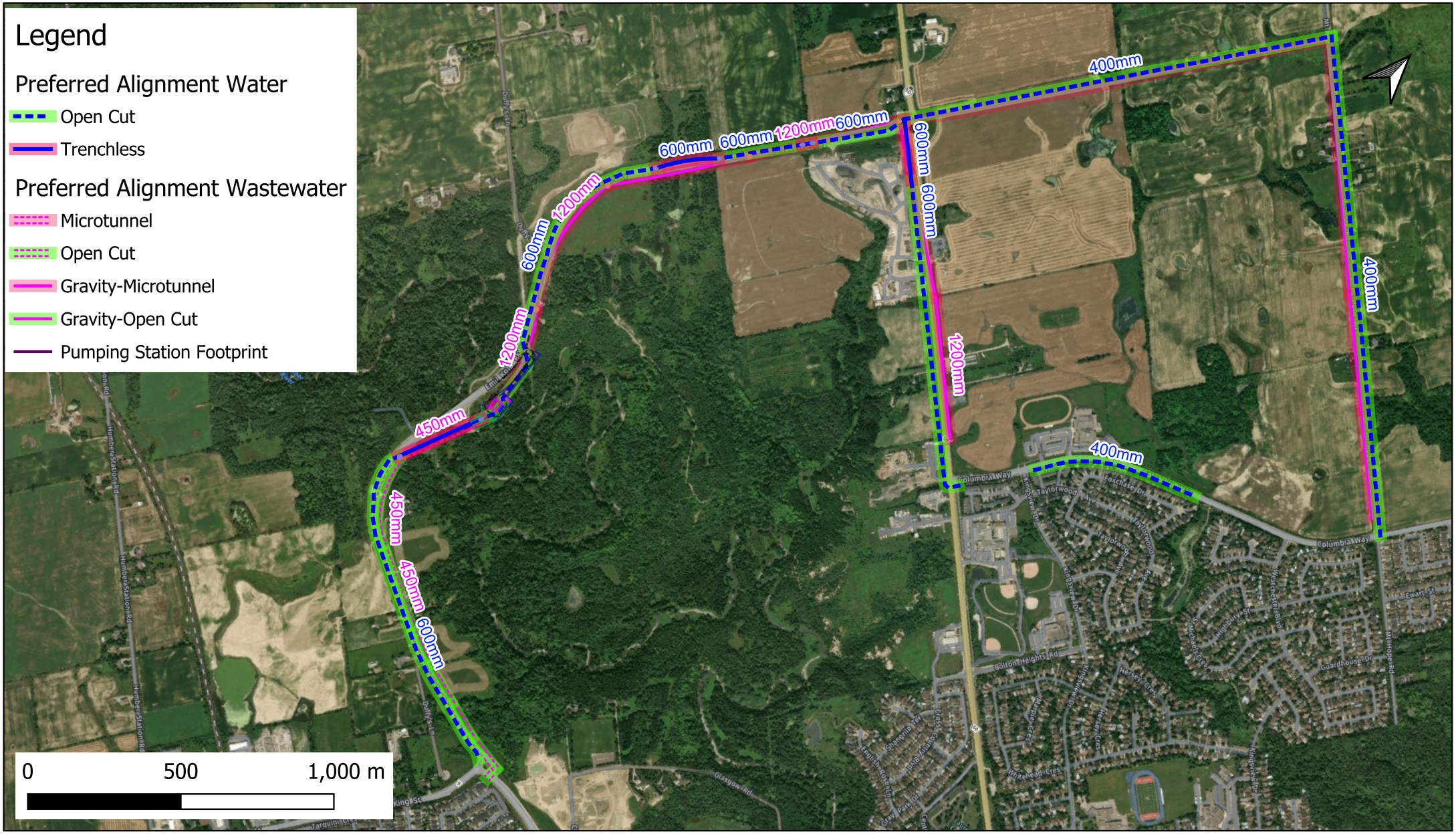


Cultural Heritage Report - Bolton Water and Wastewater Capacity Improvements Schedule C MCEA

Map 1 - Preferred Water and Wastewater Solution on Street Map

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Coordinate system - EPSG:3857 - WGS 84 / Pseudo-Mercator



Cultural Heritage Report - Bolton Water and Wastewater Capacity Improvements Schedule C MCEA

Map 2 - Preferred Water and Wastewater Solution on Aerial Image

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Coordinate system - EPSG:3857 - WGS 84 / Pseudo-Mercator

6.0 Legislative and Policy Context

The following provides a review of provincial and municipal legislation and policies designed to protect cultural heritage resources within Ontario, Peel Region, and the Town of Caledon.

6.1 Provincial Legislation and Policy

6.1.1 Ontario Heritage Act (OHA) (1990, revised July 1, 2024)

The OHA was first enacted in 1975, with the current version being Revised Statutes of Ontario (RSO) 1990, and prescribes the legal requirements of regulatory bodies to address, protect and administer heritage within their jurisdiction. O. Reg. 157/10 of the OHA lists prescribed public bodies that must follow the *Standards and Guidelines for Provincial Heritage Properties*. While Peel Region is not a prescribed public body, the Ministry of Citizenship and Multiculturalism (MCM) is responsible for reviewing the cultural heritage process for the identification, management, and conservation of heritage properties under a MCEA.

Under Section 27 of the OHA, the municipal clerk is required to keep a current register of properties of cultural heritage value or interest within the municipality, including properties Designated under Part IV, Section 29 of the OHA. Heritage protections within the OHA fall into the following categories:

- Listed Properties (Part IV, Section 27), minimal protection (60 days interim protection from demolition), potentially candidates for Designation
- Designated Properties (Part IV, Section 29), protection under Municipal By-law
- Heritage Conservation Districts (Part V), protection under Municipal By-law

The OHA includes two regulations for determining Cultural Heritage Value or Interest (CHVI): Ontario Regulation (O. Reg.) 9/06 (as amended by O.Reg. 569/22) and O. Reg. 10/06. O. Reg. 9/06 provides criteria to determine the CHVI of a property at a local level while O. Reg. 10/06 provides criteria to determine if a property has CHVI of provincial significance. Criteria for evaluation of CHVI under O. Reg. 9/06 (as amended by O. Reg. 569/22) are as follows:

1. The property has design value or physical value because it is a rare, unique, representative or early example of a style, type, expression, material or construction method.

2. The property has design value or physical value because it displays a high degree of craftsmanship or artistic merit.

3. The property has design value or physical value because it demonstrates a high degree of technical or scientific achievement.

4. The property has historical value or associative value because it has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community.

5. The property has historical value or associative value because it yields, or has the potential to yield, information that contributes to an understanding of a community or culture.

6. The property has historical value or associative value because it demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.

7. The property has contextual value because it is important in defining, maintaining or supporting the character of an area.

8. The property has contextual value because it is physically, functionally, visually or historically linked to its surroundings.

9. The property has contextual value because it is a landmark.

6.1.2 Planning Act (1990, revised July 1, 2024)

The Planning Act (1990) provides the legislative framework for land use planning in Ontario. Part 1, Section 2 (d) and (r) of the Act identifies matters of provincial interest.

Part I, Section 2

The Minister, the council of a municipality, a local board, a planning board and the Tribunal, in carrying out their responsibilities under this Act, shall have regard to, among other matters, matters of provincial interest such as:

(d) the conservation of features of significant architectural, cultural, historical, archaeological or scientific interest;

(e) the promotion of built form that,

(i) is well-designed,

(ii) encourages a sense of place, and

(iii) provides for public spaces that are of high quality, safe, accessible, attractive and vibrant.

6.1.3 Provincial Planning Statement (2024)

The Provincial Policy Statement (PPS), issued under Section 3 of the Planning Act, came into effect on October 20, 2024. The PPS provides policy direction on matters of provincial interest related to land use planning and development and replaced the Provincial Policy Statement (2020) and A Place to Grow: Growth Plan for the Greater Golder Horseshoe (2019). The PPS provides direction for the appropriate regulation for land use and development while protecting resources of provincial interest, and the quality of the natural and built environment, which includes cultural heritage and archaeological resources. These policies are specifically addressed in Section 4.6:

1. Protected heritage property, which may contain built heritage resources or cultural heritage landscapes, shall be conserved.

2. Planning authorities shall not permit development and site alteration on lands containing archaeological resources or areas of archaeological potential unless the significant archaeological resources have been conserved.

3. Planning authorities shall not permit development and site alteration on adjacent lands to protected heritage property unless the heritage attributes of the protected heritage property will be conserved.

4. Planning authorities are encouraged to develop and implement:

a) archaeological management plans for conserving archaeological resources; and

b) proactive strategies for conserving significant built heritage resources and cultural heritage landscapes.

5. Planning authorities shall engage early with Indigenous communities and ensure their interests are considered when identifying, protecting and managing archaeological resources, built heritage resources and cultural heritage landscapes.

The Provincial Planning Statement provides the following definitions:

Built heritage resource: means a building, structure, monument, installation or any manufactured or constructed part or remnant that contributes to a property's cultural heritage value or interest as identified by a community, including an Indigenous community.

Conserved: means the identification, protection, management and use of built heritage resources, cultural heritage landscapes and archaeological resources in a manner that ensures their cultural heritage value or interest is retained. This may be achieved by the implementation of recommendations set out in a conservation plan, archaeological assessment, and/or heritage impact assessment that has been approved, accepted or adopted by the relevant planning authority and/or decision-maker. Mitigative measures and/or alternative development approaches should be included in these plans and assessments.

Cultural heritage landscape: means a defined geographical area that may have been modified by human activity and is identified as having cultural heritage value or interest by a community, including an Indigenous community. The area may include features such as buildings, structures, spaces, views, archaeological sites or natural elements that are valued together for their interrelationship, meaning or association.

Heritage attributes: means, as defined under the Ontario Heritage Act, in relation to real property, and to the buildings and structures on the real property, the attributes of the property, buildings and structures that contribute to their cultural heritage value or interest.

Protected heritage property: means property designated under Part IV or VI of the Ontario Heritage Act; property included in an area designated as a heritage conservation district under Part V of the Ontario Heritage Act; property subject to a heritage conservation easement or covenant under Part II or IV of the Ontario Heritage Act; property identified by a provincial ministry or a prescribed public body as a property having cultural heritage value or interest

under the Standards and Guidelines for the Conservation of Provincial Heritage Properties; property protected under federal heritage legislation; and UNESCO World Heritage Sites.

Significant: means in regard to cultural heritage and archaeology, resources that have been determined to have cultural heritage value or interest. Processes and criteria for determining cultural heritage value or interest are established by the Province under the authority of the Ontario Heritage Act.

6.1.4 Environmental Assessment Act (1990)

The requirements to consider cultural heritage under the environmental assessment (EA) process are found in the Environmental Assessment Act R.S.O. 1990, c. E.18 (EAA). The EA Act sets out planning and decision-making process so that potential environmental effects are considered before a project begins. The EA Act applies to provincial ministries and agencies, municipalities, and public bodies.

The EAA defines environment as a broad term that includes:

- air, land or water;
- plant and animal life, including human life;
- the social, economic and cultural conditions that influence the life of humans or a community;
- any building, structure, machine or other device or thing made by humans;
- any solid, liquid, gas, odour, heat, sound, vibration or radiation resulting directly or indirectly from human activities; or,
- any part or combination of the foregoing and the interrelationships between any two or more of them, in or of Ontario.

6.1.5 Cultural Heritage Guidance Documents

The MCM is responsible for the administration of the OHA and has developed checklists, information bulletins, standards and guidelines, and policies to support the conservation of Ontario's cultural heritage resources, including built heritage resources, cultural heritage landscapes, and archaeological sites.

The Ministry of Culture (now MCM) has issued the Ontario Heritage Toolkit ("Toolkit") to assist in understanding the legislation and tools available for the conservation of cultural heritage resources. The Toolkit provides a framework for heritage property evaluation and defines "cultural heritage properties" as: "built heritage resources, cultural heritage landscapes, heritage conservation districts, archaeological resources and/or areas of archaeological potential that have cultural heritage value or interest, cemeteries and burial features, landscapes, spiritual sites, ruins, archeological sites, and areas of archaeological potential" (MCM 2006: 6).

In addition, the MCM *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes: A Checklist for the Non-Specialist* (the Checklist) was also used to guide the identification of known and potential properties with CHVI.

6.2 Municipal Policies

6.2.1 MCEA Manual (2015)

The following excerpt is from Section C.1.1 of the MCEA Manual:

Cultural Environment refers to cultural heritage and archaeological resources in the environment. These are defined as follows:

Archaeological resources includes artifacts, archaeological sites and marine archaeological sites. The identification and evaluation of such resources are based upon archaeological fieldwork undertaken in accordance with the Ontario Heritage Act.

Areas of archaeological potential means areas with the likelihood to contain archaeological resources. Criteria for determining archaeological potential are established by the Province, but municipal approaches which achieve the same objective may be applied. Archaeological potential is confirmed through archaeological fieldwork undertaken in accordance with the Ontario Heritage Act.

Built heritage resources means one or more significant buildings, structures, monuments, installations or remains associated with architectural, cultural, social, political, economic or military history and identified as being important to a community. These resources may be identified through designation or heritage conservation easement under the Ontario Heritage Act, or listed by local, provincial or federal jurisdictions.

Cultural heritage landscape means a defined geographical area of heritage significance which has been modified by human activities and is valued by a community. It involves grouping(s) of individual heritage features such as structures, spaces, archaeological sites, and natural elements, which together form a significant type of heritage form, distinctive from that of its constituent elements or parts. Examples may include, but are not limited to, heritage conservation districts designated under the Ontario Heritage Act; and villages, parks, gardens, battlefields, mainstreets and neighbourhoods, cemeteries, trailways, and industrial complexes of cultural heritage value.

Cultural heritage resources include built heritage, cultural heritage landscapes, and marine and other archaeological sites. The Minister of Culture (MCL) is responsible for the administration of the Ontario Heritage Act and is responsible for determining policies, priorities and programs for the conservation, protection and preservation of Ontario's heritage, which includes cultural heritage landscapes, built heritage and archaeological resources. MCL has released a series of resource guides on the Ontario Heritage Act, entitled the Ontario Heritage Tool Kit.

Significant cultural heritage and archaeological resources features should be avoided where possible. Where they cannot be avoided, then effects should be minimized where possible, and every effort made to mitigate adverse impacts, in accordance with provincial and municipal

policies and procedures. Cultural heritage features should be identified early in the process in order to determine significant features and potential impacts.

6.2.2 Peel Region Official Plan

Section 3.6 of the *Peel Region Official Plan* identifies the objectives and policies of the Region with respect to cultural heritage:

Objectives

3.6.1 To identify, conserve and promote Peel's non-renewable cultural heritage resources, including but not limited to built heritage resources, cultural heritage landscapes and archaeological resources for the well-being of present and future generations.

3.6.2 To encourage stewardship of Peel's built heritage resources and cultural heritage landscapes and promote well-designed built form to support a sense of place, help define community character, and contribute to Peel's environmental sustainability goals.

3.6.3 To strengthen the relationship between the local municipalities, Indigenous communities and the Region when a matter having inter-municipal cultural heritage significance is involved.

3.6.4 To support the heritage policies and programs of the local municipalities.

Policies

3.6.5 Work with the local municipalities, stakeholders and Indigenous communities in developing and implementing official plan policies and strategies for the identification, wise use and management of cultural heritage resources.

3.6.6 Direct the local municipalities to include policies in their official plans for the identification, conservation and protection of significant cultural heritage resources, including significant built heritage resources and significant cultural heritage landscapes as required in cooperation with the Region, the conservation authorities, other agencies and Indigenous communities, as appropriate.

3.6.7 In cooperation with the local municipalities, ensure the adequate assessment, preservation or mitigation, where necessary or appropriate, of archaeological resources, as prescribed by the Ministry of Heritage, Sport, Tourism and Culture Industries' archaeological assessment standards and guidelines.

3.6.8 Require cultural heritage resource impact assessments, where appropriate for infrastructure projects, including Region of Peel projects and ensure that recommended conservation outcomes resulting from the impact assessment are considered.

3.6.9 Encourage the local municipalities to consult with the Indigenous communities when commemorating cultural heritage resource and archaeological resources.

3.6.10 Require local municipal official plans to include policies where the proponents of development proposals affecting cultural heritage resources provide sufficient documentation to

meet provincial requirements and address the Region's objectives with respect to cultural heritage resources.

3.6.11 Direct the local municipalities to only permit development and site alteration on adjacent lands to protected heritage property where the proposed property has been evaluated and it has been demonstrated that the heritage attributes of the protected heritage property will be conserved.

3.6.12 Direct the local municipalities to only permit development and site alteration on lands containing archaeological resources or areas of archaeological potential if the significant archaeological resources have been conserved by removal and documentation, or by preservation on site, consistent with provincial requirements. Where significant archaeological resources must be preserved on site, only development and site alteration which maintain the heritage integrity of the site may be permitted.

3.6.13 Encourage and support the local municipalities to prepare and maintain a Cultural Heritage Master Plan and an archaeological management plan that provides, but is not limited to, inventory of cultural heritage resources, and guidelines for the identification, evaluation, conservation and direct/indirect impact mitigation activities to consider in decision making on cultural heritage resources and archaeological resources.

Schedule D-1 of the Peel Region Official Plan identifies the majority of the focus area to be rural land, but not to be considered a rural settlement area. Schedule E-1 also identifies portions of the focus area to be within the urban system and the Bolton residential expansion settlement area.

6.2.3 Town of Caledon Official Plan (2024 Consolidation)

Section 3.3 of the *Town of Caledon Official Plan* identifies the objectives and policies of the Town with respect to cultural heritage. Select passages are provided here; for a fulsome review the Town of Caledon's cultural heritage policies, please see the *Official Plan*.

3.3.2 Objectives

3.3.2.1 To identify and conserve the Town's cultural heritage resources, in balance with the other objectives of this Plan, through the implementation of appropriate designations, policies and programs including public and private stewardship and partnering with other heritage organizations in the community.

3.3.2.2 To promote the continuing public and private awareness, appreciation and enjoyment of Caledon's cultural heritage through educational activities and by providing guidance on sound conservation practices.

3.3.2.3 To develop partnerships between various agencies and organizations to conserve and promote cultural heritage resources.

3.3.2.4 To use as appropriate all relevant Provincial legislation that references the conservation of cultural heritage resources, particularly the provisions of the Ontario Heritage Act, the Planning Act, the Environmental Assessment Act, the Municipal Act, the Cemeteries Act and the

Niagara Escarpment Planning and Development Act in order to conserve Caledon's cultural heritage.

3.3.3.1.2 Cultural Heritage Master Plan

The Town shall prepare a comprehensive Cultural Heritage Master Plan whereby the cultural heritage resources of the Town are surveyed, inventoried or otherwise examined or studied. The Cultural Heritage Master Plan may provide a basis for the establishment of additional Official Plan policies or initiatives for the conservation of cultural heritage resources. Among other things, the Cultural Heritage Master Plan will identify the interrelationship between archaeological resources, built heritage resources, and cultural heritage landscapes.

It should be understood that, while the Cultural Heritage Master Plan involves the synthesis of archaeological resources, built heritage resources and cultural heritage landscapes, the planning exercises associated with these sub-components will, by themselves, provide direction to the Town until such time as a Cultural Heritage Master Plan is completed.

3.3.3.3.2 Built Heritage Resources Inventory

An inventory of built heritage resources and their contextual landscape elements shall be prepared and maintained through the Heritage Resource Office. Inventoried built heritage resources may be considered for designation under the Ontario Heritage Act and/or for conservation in the Town's consideration of any proposed development or undertaking, subject to all relevant legislation.

Criteria will be developed pertaining to the significance of built heritage resources which will guide rankings within the inventory. Revisions to the initial inventory may occur as a result of additional investigations and field checks.

3.3.3.4.1 Cultural Heritage Landscape Inventory

An inventory of candidate cultural heritage landscapes shall be prepared by the Town and maintained through the Heritage Resource Office. A cultural heritage landscape identified through this inventory shall be incorporated into the Plan by way of an Official Plan Amendment. A cultural heritage landscape identified by either this section or by a Cultural Heritage Survey will be appropriately conserved and may be considered for designation under the Ontario Heritage Act.

Prior to the preparation of the inventory of candidate cultural heritage landscapes, candidate cultural heritage landscapes shall be identified by the proponent of development or redevelopment proposals by way of a Cultural Heritage Surveys and, where necessary, a Cultural Heritage Impact Statements as described in Sections 3.3.3.1.4 and 3.3.3.1.5 of this Plan.

7.0 Historical Context

7.1 Indigenous Land Use and Treaties

Most of the archaeological record found in Ontario – the tools, animals, plants, structures, soils, and contexts recovered from the landscape – are the direct heritage of the Indigenous communities that currently live in south-central Ontario and adjacent provinces and states. Archaeology is the sole non-verbal means of reconstructing this ancient past; thus, understanding the lives and histories of these early peoples is both a challenge and a responsibility. Every new site identified and documented provides a unique opportunity to learn more about the 11,000-year Indigenous history in Ontario. Table 1 provides an archaeological timeline for the presence of Indigenous people in Ontario, drawn from Ellis and Ferris (1990).

Table 1: Overview of the Cultural Chronology of Southern Ontario

Period	Characteristics	Time	Comments
Early Paleo	Fluted Points	9,000 – 8,400 BC	Caribou hunters
Late Paleo	Hi-Lo Points	8,400 – 8,000 BC	Smaller but more numerous sites
Early Archaic	Kirk, Nettling, and Bifurcate Base Points	8,000 – 6,000 BC	Slow population growth
Middle Archaic I	Stanley/Neville, Stemmed Points	6,000 – 4,000 BC	Environment similar to present
Middle Archaic II	Thebes, Otter Creek Points	4,000 – 3,000 BC	
Middle Archaic III	Brewerton Side and Corner Notched Points	3,000 – 2,000 BC	
Late Archaic I	Narrow Point (Lamoka, Normanskill) Broad Point (Genesee, Adder Orchard) Small Point (Crawford Knoll, Innes, Ace-of-Spades)	2,000 – 1,800 BC 1,800 – 1,500 BC 1,500 – 1,100 BC	Increasing site size Large chipped lithic tools Introduction of bow hunting
Terminal Archaic	Hind Points	1,100 – 950 BC	Emergence of true cemeteries

Period	Characteristics	Time	Comments
Early Woodland	Meadowood Points	950 – 400 BC	Introduction of pottery
Middle Woodland	Dentate/Pseudo-Scallop Pottery Princess Point	400 BC – AD 500 AD 550 – 900	Increased sedentism Introduction of corn
Late Woodland	Early Ontario Middle Ontario Late Ontario (Neutral)	AD 900 – 1,300 AD 1,300 – 1,400 AD 1,400 – 1,650	Emergence of agricultural villages Large longhouses (100m+) Tribal warfare and displacement
Contact	Various Algonkian and Iroquoian Groups	AD 1,700 – 1,875	Early written records and treaties

7.1.1 Paleo and Archaic Periods

The first human settlement in south-central Ontario can be traced back 11,000 years, just after the end of the Wisconsin Glacial Period, when this area was settled by Indigenous groups that had been living south of the Great Lakes. The period of these first inhabitants is known as the Paleo Period (Ellis and Deller 1990), a time in which bands of small hunter gatherer, consisting of probably no more than 25-35 individuals, followed a pattern of seasonal mobility extending across wide-ranging territories shaped extensively by the ebb and flow of glaciers.

The Paleo Period was a time of rapid environmental change. As the glaciers retreated, sparse tundra and evergreen forests gave way to extensive deciduous forests and water levels in the Great Lakes rose dramatically (Ellis et al. 1990). By the end of this period (8000 BC), many of the large game species that Paleo hunters had relied upon either moved further north or, as in the case of the mastodons and mammoths, become extinct. Thus, the end of the Late Paleo Period was heralded by numerous technological and cultural innovations, likely as responses to the dynamic nature of the post-glacial environment and region-wide population increases. These innovations continue to be found in sites belonging to the direct descendants of the Paleo, groups of people known by archaeologists as “Archaic.”

The term “Archaic” designates preagricultural sites lacking in pottery and other specific artifact forms (Ellis et al. 1990) and are primarily distinguished from Paleo sites by a significantly greater degree of artifact diversity and regional variety. Archaic people began to make stone tools out of coarser raw material by laboriously grinding the rock into the desired shape. The introduction of ground stone tools such as celts and axes, suggests the beginnings of a simple woodworking industry and an increased use of localized stone sources indicates that Archaic

populations may have been less nomadic than their Paleo ancestors (Munson and Jamieson 2013). It is likely that gradual infilling of the landscape resulting from rising water levels and population growth necessitated the development of strategies to support more people from smaller areas of liveable land.

During the Late Archaic Period (2,500-950 BC) the trends towards decreased territory size, a broadening subsistence base, population growth and increasing sedentism continued and it is during this period that the first formal cemeteries appeared. During the Late Archaic Period, if an individual died while his or her group happened to be at some distance from their group cemetery, the bones would be kept until they could be placed in the cemetery, suggesting that people returned with greater frequency to the same areas. These first cemeteries may have served as visible reminders of a group's cultural history and demarcated their rights to an area. Living in a time before farming or pottery, early hunter gatherers hunted, fished, and travelled in a land that was dynamic, ever-changing, and far removed from modern or historic ways of life.

7.1.2 Woodland Period

The Early Woodland Period (950 to 400 BC) is distinguished from the Late Archaic Period primarily by the gradual adoption of ceramic technology. However, in many ways the life ways of people in this period show a high degree of continuity with the preceding Late Archaic and it is not until the Middle Woodland (300 BC to AD 500) that there is an evident shift in settlement and subsistence patterns towards a sedentary way of life.

Middle Woodland peoples relied much more extensively on ceramic technology and vessels were often heavily decorated with hastily impressed designs covering the entire exterior surface and upper portion of the vessel interior. The Middle Woodland provides a major point of departure from the Archaic and Early Woodland; fish was becoming an increasingly important part of diets and sites along the margins of major lakes and rivers appear to have functioned as base camps instead of seasonally utilized locations, indicating a greater degree of sedentism and reliance on fishing technology.

The Late Woodland Period is widely accepted as the beginning of a truly agricultural way of life in south-central Ontario. Researchers have suggested that a warming trend during this period may have encouraged the spread of maize into southern Ontario by providing a greater number of frost-free days (Stothers and Yarnell 1977). The presence of carbonized corn kernels and cob fragments recovered from sub-floor storage pits indicates that agriculture was becoming a vital part of the Early Iroquoian economy.

The Middle Ontario Iroquoian Period (AD 1300-1400) witnessed several interesting developments in terms of settlement patterns and artifact assemblages. The size of villages and houses increased dramatically, with house lengths almost doubling to an average of 30 m. Possible explanations for these shifts involve changes in economic and socio-political organization (Dodd et al. 1990); small villages may have amalgamated to form larger communities for mutual defence (Dodd et al. 1990). These large villages were often heavily defended with numerous rows of wooden palisades, suggesting that defence may have been one of the rationales for smaller groups banding together.

By the late 1400s major villages covered as many as 4-5 ha and would have contained over 2,000 individuals each. A change in the orientation of longhouses at this time may indicate the initial development of the tribes and nations which were a characteristic of the historically known Iroquoian peoples (Dodd et al. 1990).

After AD 1450, house lengths begin to decrease, with houses dating between AD 1500-1580 averaging a mere 30 m in length. The even shorter houses witnessed on Historical Period sites can be at least partially attributed to the population reductions associated with the introduction of European diseases such as smallpox (Lennox and Fitzgerald 1990) which, in the span of a few years, had reduced the population to a mere 30,000 people. With the deaths of many bearers of oral history in the 1630s, much of the ancient oral history in Ontario was lost. Archaeology provides an alternative means of understanding pre-European history by providing unique information on the movement of people throughout the landscape, their interactions with one another and with the environment, over the course of 11,000 years.

7.1.3 Historic Indigenous Period

At the time of first contact with the French, in 1615 AD, the traditional territory of the Huron-Wendat, known as Wendake, roughly stretched between the Canadian Shield, Lake Ontario and the Niagara Escarpment; it has been suggested the Huron-Wendat population at this time was approximately 30,000 individuals (Warrick 2008; Heidenreich 1978).

In the 1640s, the Haudenosaunee, whose territory was located south of the lower Great Lakes, invaded Huron-Wendat territory, largely due to the decrease of available beaver pelts. The majority of the Huron-Wendat population sought sanctuary within the communities of the Petun, Neutral and other neighbouring groups, after numerous Huron-Wendat village were destroyed (Stone and Chaput 1978). Commencing in the 1660s, the Haudenosaunee controlled most of southern Ontario (Schmalz 1991; Williamson 2013).

During the mid-17th century, several Algonquin-speaking linguistic and cultural groups within the Anishinaabeg (or Anishinaabe) began to challenge the Haudenosaunee dominance in the region (Johnston 2004; Gibson 2006). Prior to this, the Anishinaabeg were located primarily inland from the north shore of Lake Huron (MCFN nd). From 1653 to 1662, following a series of attacks against the Haudenosaunee by groups within the Anishinaabeg, Haudenosaunee dominance in the region began to fail (Warrick 2008; Schmalz 1991). By the 1690s, Haudenosaunee settlements along the northern shores of Lake Ontario were abandoned (Williamson 2013). Following several battles throughout southern Ontario, the Anishinaabeg replaced the Haudenosaunee in area at the start of the 18th century (Gibson 2006; Schmalz 1991).

7.1.4 Deeds and Treaties

The focus area is part of a large swath of land that made up the 19 July 1701 Deed, or Nanfan Treaty, between the Five Nations of the Iroquois Confederacy and John Nanfan, on behalf of the British Crown. The deed granted a large area of the Five Nations as beaver hunting grounds to the Crown, “after mature deliberation out of a deep sense (sic) of the many Royall (sic) favours extended to us by the present great Monarch of England King William the third” (Six Nations

n.d.). New France, aligned with the Algonquin, also had claim on this territory and therefore, did not recognized the deed of land to the Iroquois. Both the French claims to the land and the British deed to the land were completed solely for domination over each other in the fur trade industry and were a direct response to the Beaver Wars, or the French and Iroquois Wars.

The focus area is on lands that were part of the Ajetance Treaty (Treaty 19), signed in 1818. As described by Wybenga (2017:14):

In addition to their three small reserves located on the Lake Ontario shoreline, the Mississaugas of the Credit held 648 000 acres of land north of the Head of the Lake Treaty lands and extending to the unceded territory of the Chippewa of Lakes Huron and Simcoe. In mid-October, 1818, the Chippewa ceded their land to the Crown in the Lake Simcoe-Nottawasaga Treaty and, by the end of October, the Crown sought to purchase the adjacent lands of the Mississaugas of the Credit.

The Deputy Superintendent of the Indian Department, William Claus, met with the Mississaugas from October 27-29, 1818, and proposed that the Mississaugas sell their 648 000 acres of land in exchange for an annual amount of goods. The continuous inflow of settlers into their lands and fisheries had weakened the Mississaugas' traditional economy leaving them in a state of impoverishment and with a rapidly declining population. In their enfeebled state, Chief Ajetance, on behalf of the assembled people, readily agreed to the sale of their lands for £522.10 of goods paid annually.

7.2 Euro-Canadian Settlement History

Following The Clergy Endowments (Canada) Act of 1791, what was then the Province of Quebec (including the focus area) was divided into four political districts within the Province of Upper Canada; the four political districts were renamed Eastern, Midland, Home, and Western, after previously being called Lunenburg, Mechlenburg, Nassau, and Hesse (Hall 2023). The study area fell within the former Nassau District and later the Home District.

The Home District, which originally included all lands between an arbitrary line on the west running from Long Point on Lake Erie to Georgian Bay, and a line on the east running north from Presqu'ile Point on Lake Ontario to the Ottawa River. In 1792, John Graves Simcoe, the first Lieutenant Governor of Upper Canada then further subdivided each district into counties and townships (Hunter 1909). The focus area is located in the former Township of Albion, Peel County, now Town of Caledon, Regional Municipality of Peel.

7.2.1 County of Peel

The County of Peel was initially occupied by the Mississaugas and various Iroquoian groups including the Haudenosaunee. After the American Revolution, British Loyalists denied their holdings in the new United States of America began looking for new settlement opportunities in Upper Canada. In the 1780s, Peel County belonged to an extensive area called the Nassau District, which was later renamed the Home District. In 1792, Lieutenant Governor John Graves Simcoe legislated the formation of 19 counties. By 1798, there was already a government inn (The Government House) at the mouth of the Credit River, and in 1805 a treaty between the Crown and some Mississauga peoples, known as the Mississauga Tract, transferred all the land

south of what was Eglinton Street, between Etobicoke Creek to the east and Burlington Bay to the west, to the British government, with the exception of one mile on either side of the Credit River retained as Indigenous territory. Samuel Street Wilmot surveyed Toronto Township, south of Chinguacousy Township, in 1806 and small settlements began to proliferate, although immigration slowed during the War of 1812 (PAMA n.d.).

By 1818, the colonial need for more land was apparent, and the Crown negotiated with some Mississauga groups for a further 648,000 acres, including the remaining mile-wide buffer on either side of the Credit River. Surveys of the remainder of Toronto Township and the entirety of Chinguacousy Township were completed in 1819, and by the following year the rest of the townships in Peel County (Albion, Gore of Toronto, and Caledon) were opened for settlement (Pope 1877). Centre Road (Hurontario Street), which ran from Port Credit on Lake Ontario to Collingwood, encouraged settlement and by 1821 vacant land in the southern Peel townships was rare (Corporation of the County of Peel 1977). However, the relative isolation of the northern townships often led to disruptions in transportation and the growing importance of small villages and hamlets in order to serve rural residents. By 1837, most of the land in Peel County was occupied, mostly by white European settlers. The townships themselves were administered by a Justice of the Peace in the Home District Court located in York (Toronto), and local officials had little power until 1850, when the District Courts were dissolved in favour of county government. Peel was initially grouped with the United Counties of York, Peel, and Ontario, but eventually severed itself from York in 1866 to become a separate entity (Pope 1877).

Peel County emerged as an agricultural economy, where self-sufficient farmers relied on rural crossroad settlements for anything they could not make or grow on their own. Cattle and sheep were the main livestock, and wheat flourished (Corporation of the County of Peel 1967). The proliferation of rivers, creeks and streams allowed the foundation of many mills, which in turn encouraged community growth around these small points of industry. These frontier settlements often consisted of a tavern, church, general store, and school, and the more prosperous communities likely also had several mills, a hotel, and/or a community hall (Halton-Peel OGS n.d.). The county relied heavily on grain production, which led to the expansion of road networks linking the rural agricultural settlements with larger towns. Most settlement was located along the Dundas Road, along with other major thoroughfares like Hurontario/Centre and the Lakeshore Roads. Larger towns such as Streestville, Brampton, Cooksville, Summerville, and Dixie had residents that numbered into the hundreds, while smaller villages such as Caledon East, Bolton, Alton, and Mono Mills served the rural communities of the northern townships (Corporation of the County of Peel 1977).

After 1850, Peel County saw unprecedented prosperity as railroads were built across the region, beginning with the completion of the Great Western Railway in 1855 and the Grand Trunk Railway slightly after, which opened the county to the markets in Toronto and the greater world. Many of the smaller rural hamlets began to disappear as residents moved to more industrial towns along the rail lines, and cities like Port Credit, Clarkson, and Brampton directly benefitted from the rail system whereas smaller villages such as Streestville and Cooksville were bypassed, leading to their decline. Even with the addition of the Port Credit and Toronto Grey & Bruce Railways, many smaller villages were unable to keep up with the rapid pace of

industrialization and disappeared after 1880 (Halton-Peel OGS n.d.). The nature of agricultural life also changed with the introduction of rail travel; rivers and roads were less important for moving goods, and farmers could participate directly in the economy by moving their products by rail, which in turn led to more farmers combining their holdings to form specialized units. With greater access to worldwide markets, brick farmhouses began to become more ubiquitous as farmers with more capital began rejecting log construction in favour of more durable materials (Corporation of County of Peel 1967).

By the early 20th century, the County of Peel had become increasingly industrialized; in 1911, more than 70% of the workers in Peel were employed in manufacturing or industrial settings (Corporation of County of Peel 1967). The proximity of Peel to Toronto meant that the needs of urban citizens subsumed the former agrarian economy of the region, and farmers were increasingly forced to rely on intensive, industrialized cultivation, such as greenhouses, and large-scale dairy farming (PAMA n.d.). After the Second World War, Peel became a popular suburban destination, with planned communities linked to urban centres like Toronto and Brampton by arterial roads. Peel's explosive growth, especially in the southern townships, put increasing pressure on the county's government with a clear need for reorganization (Corporation of the County of Peel 1977). Inspired by the amalgamation of Toronto in 1953, officials encouraged a more "regional government" model, in which costly projects and planning initiatives would be undertaken by the regional government and more localized services would be delegated to three municipalities: Mississauga, Brampton, and Caledon (PAMA, n.d.). In 1974, this reorganization was finalized, and the County of Peel officially became Peel Region. In the subsequent years, Peel Region continued to be a popular area for commuters and immigrants, with the population now well over a million people.

7.2.2 Albion Township and the Community of Bolton

Albion Township is located in the northeast corner of Peel County and was surveyed by James Chewett in 1819, following the 1818 signing of Treaty 19 between the British Crown and the Mississauga First Nation. Prior to both Treaty 19 and the commencement of survey, advanced planning, based on mapping pertaining to the 1805 Mississauga Tract purchase, was undertaken to expedite the survey of Albion Township. The advanced planning stipulated that five of every seven lots of Albion Township would be eligible for land grant and the remaining lots would be retained for use by the Crown and Clergy reserves. The survey of Albion Township was one of the first to utilize the "double-front" system. In this system the common unit of concession is the half-lot of 100 acres with each half of the 200 acre lot fronting on a different concession line road. These half lots are almost square. Concessions run essentially north-south. At every five lots there was an allowance for a side road (Town of Caledon 2009). Chewett was well compensated for his work as surveyor, with his contract stipulating his services be paid for in land (Albion Bolton Historical Society n.d.). Chewett was provided with 2,635 acres of prime property located across the new township, in addition his 1,400 acres in the Township of Caledon (Albion Bolton Historical Society n.d.). Chewett's land holdings included 200 acres of Lot 9, Concession 7 (now within community of Bolton), that included an expanse of the Humber River; Chewett sold this land in 1821 to George Bolton, who in the following years constructed a grist mill and dam on the property.

Albion Township comprised eleven concessions laid out west to east. Albion Township contained rolling hills in the northeast corner of the township, with a great deal of pine land. In the south, the land was better, and there were some good farms, according to the *1846 Canadian Gazetteer*. The Humber River, with its many tributaries, provided sites for gristmills and saw mills. The population of Albion in 1821 was 110, with only 62 acres of land cultivated (OGS Halton-Peel n.d.).

Eventually a cooperage, blacksmith shop and workers' cottages were constructed around the grist mill and dam owned by George Bolton, followed by a store, inn, and tannery (Town of Caledon 2009). This area became known as Bolton Mills (later Bolton Village), and the hamlet became a postal village in 1832. The first school associated with the community was opened in 1842, followed by the first church in 1843. Bolton Village was incorporated in 1872, the only village of the township to do so. The English settlers in the area were known to have a fondness for horticulture. Bolton Village from 1840 kept growing and steadily increasing in business, being a commercial village. Although the village name is Bolton, the post office retained the name of Albion for some years. Place names of Albion Township include Columbia, Lockton, Glasgow, and Nunnville.

Albion Township was historically home to many small hamlets, the most prominent settlement being Bolton. Albion Township now forms a substantial portion of the Town of Caledon. The Town of Caledon was formed through amalgamation of Albion, Caledon and the north half of Chinguacousy Townships in 1974 as part of the establishment of regional governments in Ontario.

7.2.3 Humber Grove

The community of Humber Grove developed as a cottage community starting in 1929, with some of the cottages converted to permanent homes in the 1950s and 1960s (Personal communication, Sally Drummond, Senior Planner, Heritage, Town of Caledon). In 1929, the land in this area was purchased by the Bertram Realty Company, with the land severed into five blocks with 73 lots that were sold over the next 33 years (TRCA 2012) (Figure 1). The area was known as an attractive expanse that included the Humber River Valley and tree groves.

In 1962, the Metropolitan Toronto and Region Conservation Authority (MTRCA, now TRCA) started to purchase lots in the Humber Grove area as part of the Lands Acquisition Program under the MTRCA's Flood Control Program. The Flood Control Program was created following the widespread flooding from Hurricane Hazel in 1954. In Humber Grove, the acquisition of properties under the project took more than a decade, as residents were hesitant to leave their homes (TRCA 2012). Structures associated with Humber Grove were removed by 1977, likely demolished by MTRCA prior to the planned construction of the Bolton dam, the construction of which never came to pass (TRCA 2012).

Bridge abutments associated with a 19th century bridge are located in what was Humber Grove; these abutments are discussed in section 8.3.1.

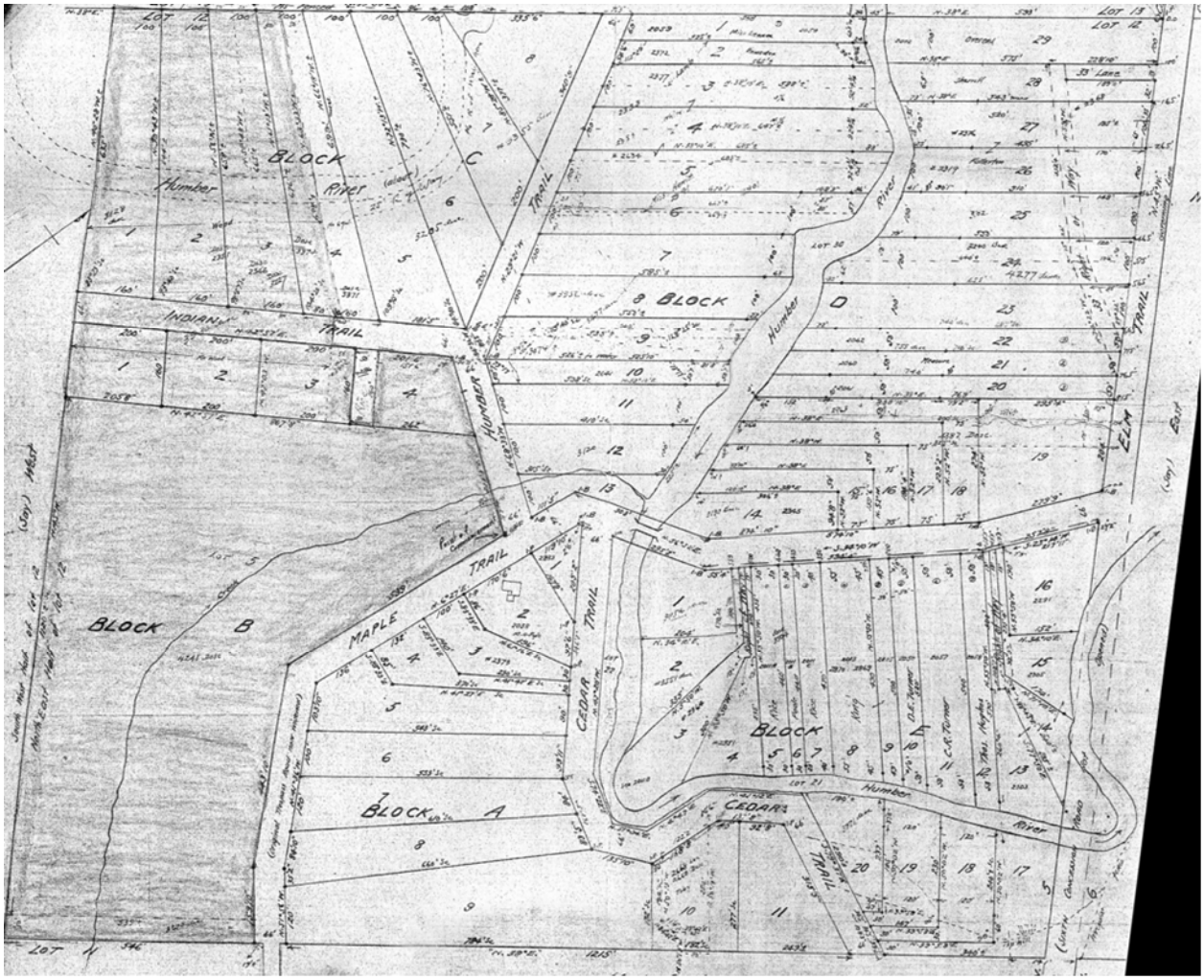


Figure 1: 1929 Plan of Humber Grove (provided by TRCA)



Figure 2: Humber Grove Postcard, c. 1936 (provided by TRCA)

7.2.4 Focus Area Properties

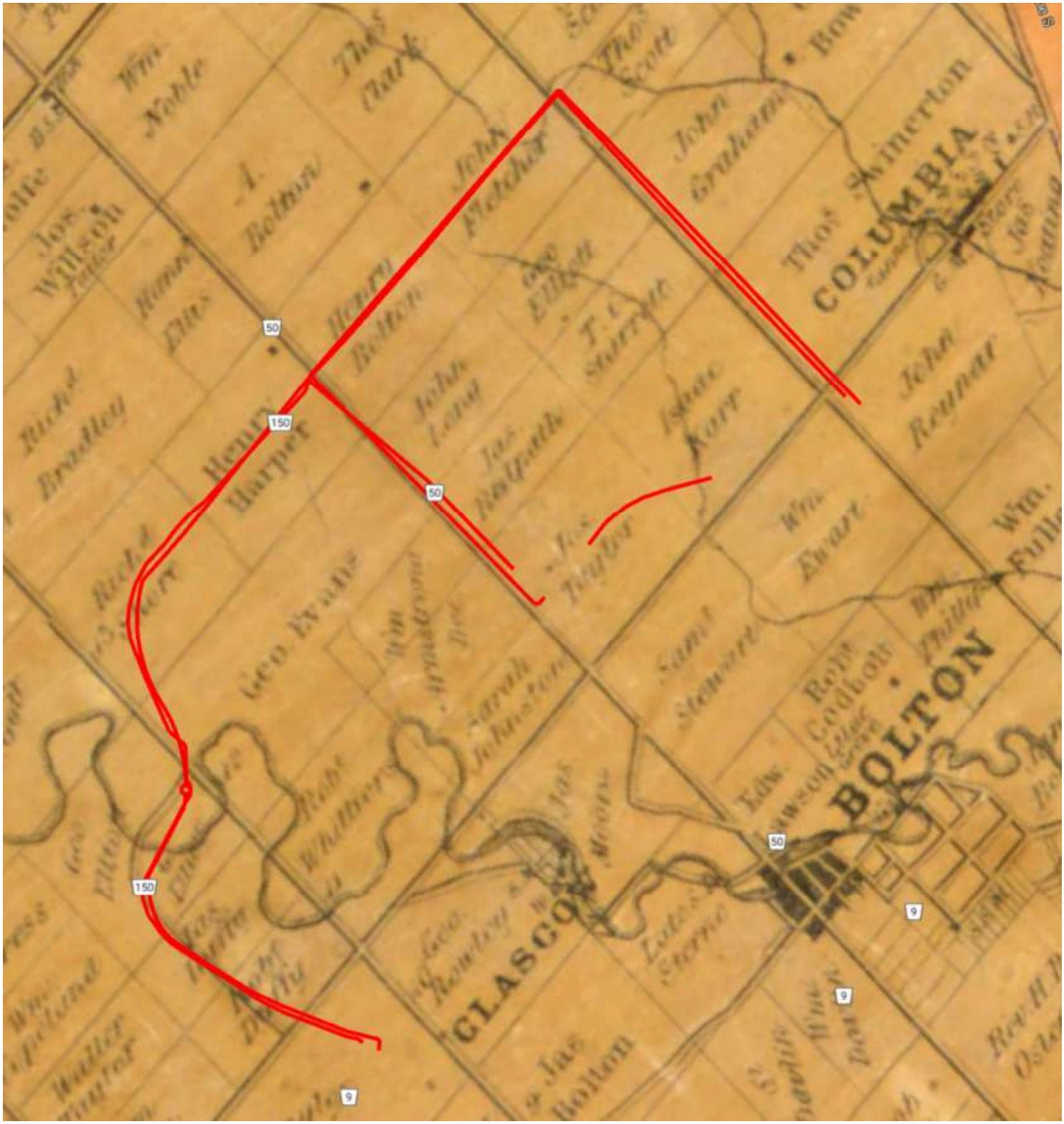
The focus area is located within or adjacent to numerous lots in concessions 5-8, in the Geographic Township of Albion, former Peel County. In reviewing available historical maps and aerial images for the area, the main features noted are the Humber River, the community of Bolton, and the historic lot distribution and road grid. Table 2 provides a review of historical maps and aerial images in relation to the focus area. Where the focus area bisects a lot or is present along an adjacent roadway, it is noted if features were present on the map or aerial image.

Table 2: Historical Map and Aerial Image Review

Item	Features Noted	Map Number
1859 Map of Peel County	Lot owners illustrated, limited structures present adjacent to project area Lot 14, Concession 6 – structure noted north of project area on lot owned by Henry Harper Lot 12, Concession 5 – Humber River bisects project area	3
1877 Map of Albion Township	Lot owners illustrated, greater presence of structures adjacent to project area Lot 12, Concession 5 – Humber River bisects project area. Two structures noted within lot in close proximity to project area where river crosses roadway on property owned by George Elliot Sr. Neither structure remains Lot 11, Concession 5 – structure noted northeast of project area, east of former roadway on property owned by James Duffy. Structure does not remain Lot 13, Concession 6 – structure noted north of project area on lot owned by Abram Taylor. Structure does not remain Lot 13, Concession 6 – structure noted in close proximity to project area on lot owned by Henry Harper. Structure does not remain Lot 14, Concession 7 – structure noted in close proximity to project area on lot owned by Humphy O'Leary. Structure may remain, though located further north of project area than depicted on map Lot 13, Concession 7 – structure noted in close proximity to project area on lot owned by Henry Harper. Structure remains (14475 Regional Road 50) Lot 12, Concession 7 – structure noted in close proximity to project area on lot owned by James Gott. Structure does not remain Lot 11, Concession 6 – structure noted in close proximity to project area on lot owned by Sam Johnson. Structure does not remain Lot 13, Concession 7 – structure noted in close proximity to project area on lot owned by James Scott. Structure does not remain Lot 13, Concession 8 – structure noted in close proximity to project area on lot owned by H. Jamieson. Structure does not remain	4

Item	Features Noted	Map Number
	Lot 13, Concession 8 – structure noted in close proximity to project area on lot owned by J. Rutherford. Structure does not remain Lot 12, Concession 7 – structure noted in close proximity to project area on lot owned by George Elliot. Structure does not remain Lot 12, Concession 7 – structure noted in close proximity to project area on lot owned by James Rutherford. Structure does not remain Lot 12, Concession 8 – structure noted in close proximity to project area on lot owned by J. Graham. Structure does not remain Lot 11, Concession 7 – structure noted southwest of project area on lot owned by Isaac Curr. Structure does not remain Lot 11, Concession 8 – structure noted in close proximity to project area on lot owned by Robert Dick. Structure does not remain	
1914 Topographic Map	Structures noted adjacent to project area, area remains rural in nature	5
1934 Topographic Map	Structures noted adjacent to project area, area remains rural in nature	6
1954 Aerial Image	Structures noted adjacent to project area, area remains rural in nature	7

Map 3 - Preferred Water and Wastewater Solution on 1859 Map of Peel County



Preferred Water and Wastewater Solution

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Archaeology & Built Heritage

Cultural Heritage Report - Bolton Water and Wastewater Capacity Improvements Schedule C MCEA

N

Map 4 - Preferred Water and Wastewater Solution on 1877 Map of Albion Township

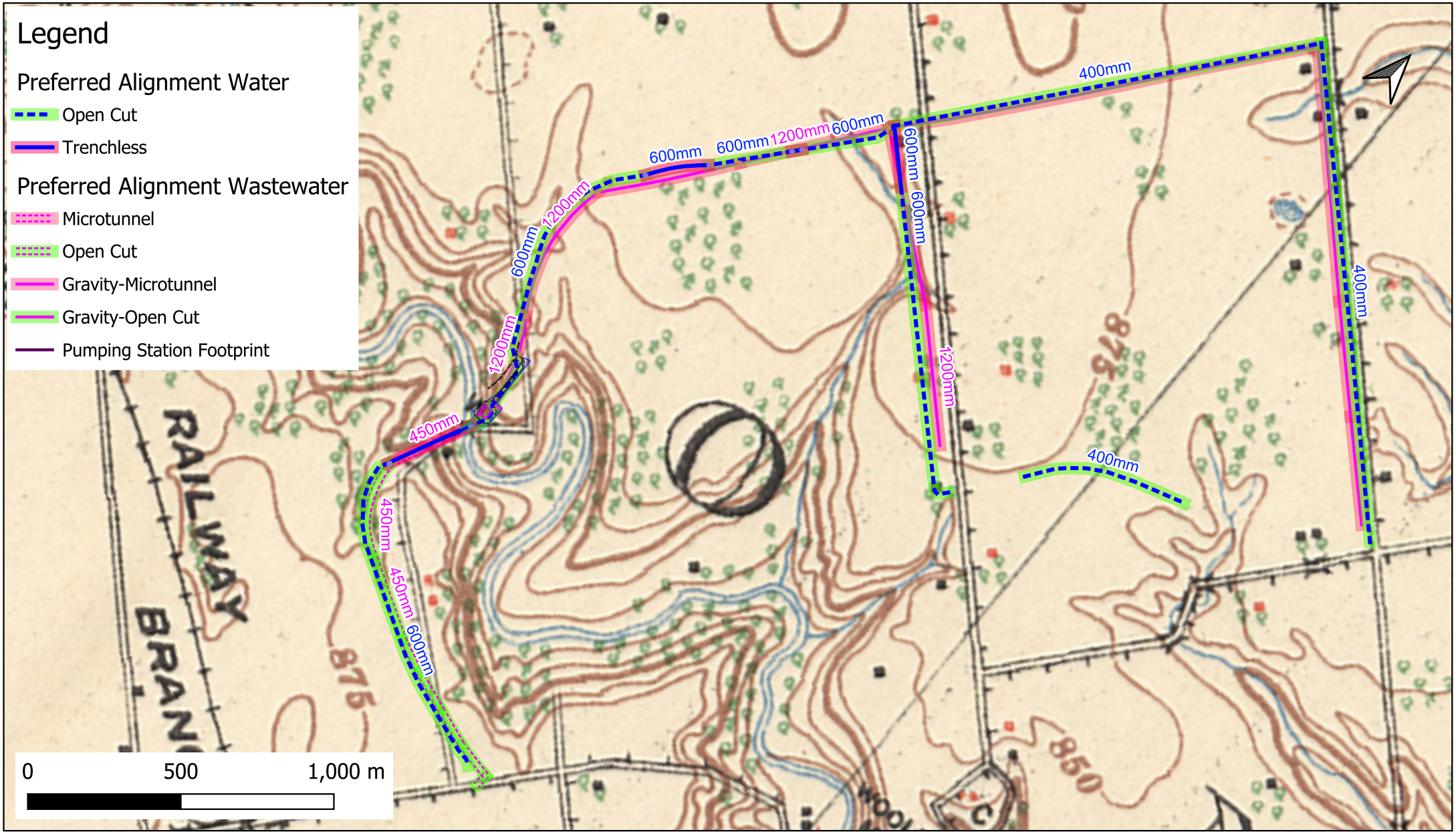


Preferred Water and Wastewater Solution

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Cultural Heritage Report - Bolton Water and Wastewater Capacity Improvements Schedule C MCEA

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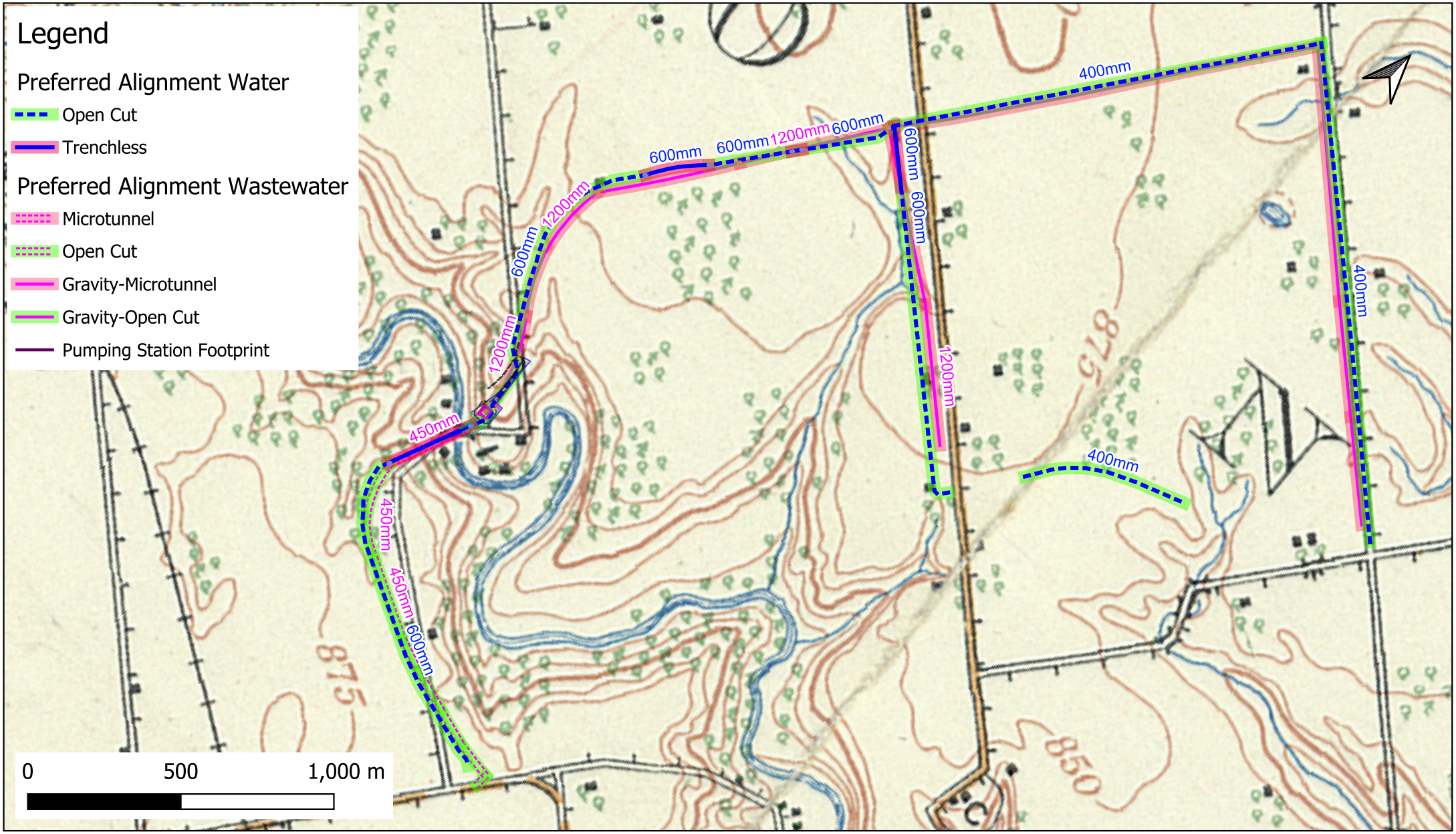


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Map 5 - Preferred Water and Wastewater Solution on 1914 Topographic Map

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Coordinate system - EPSG:3857 - WGS 84 / Pseudo-Mercator

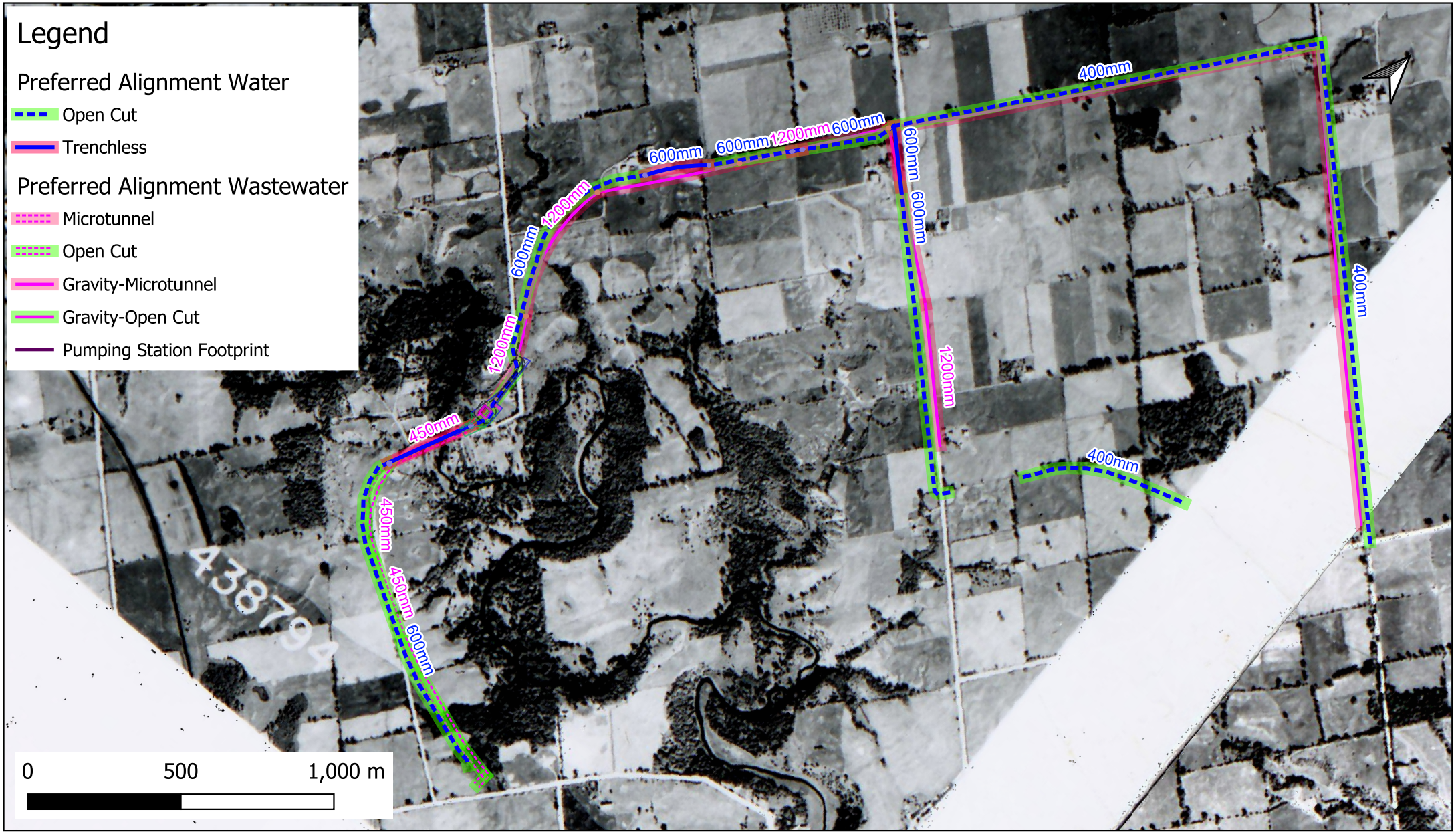


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Map 6 - Preferred Water and Wastewater Solution on 1934 Topographic Map

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Coordinate system - EPSG:3857 - WGS 84 / Pseudo-Mercator



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Map 7 - Preferred Water and Wastewater Solution on 1954 Aerial Image

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Coordinate system - EPSG:3857 - WGS 84 / Pseudo-Mercator

7.3 Archaeological Sites

The registered archaeological site records kept by the MCM were consulted so that an inventory of known archaeological resources could be compiled. According to the MCM's archaeological sites database, there are currently 57 archaeological sites located within 1 km of the preferred water and wastewater solution, representing both pre-contact Indigenous and Euro-Canadian historical archaeological sites (Table 3). Blank cells indicated information was not available. For further information on archaeological resources, please refer to the archaeological assessments being completed under the MCEA.

Table 3: Archaeological Sites Within 1 km of Preferred Water and Wastewater Solution

Borden #	Site Name	Time Period	Affinity	Site Type	Current Status
AlGw-88	N/A	Pre-Contact	Indigenous	Unknown	Unknown
AlGw-69	N/A	Archaic, Early	Indigenous	Findspot	Unknown
AlGw-60	Moore	Post-Contact	Euro-Canadian	Scatter	Unknown
AlGw-59	N/A	Pre-Contact	Indigenous	Unknown	Unknown
AlGw-51	Samuel Walford House	Post-Contact	Euro-Canadian	Building, homestead, house, manufacturing	Unknown
AlGw-5	French	Archaic	Indigenous	Camp/campsite	Unknown
AlGw-44	Swinarton	Archaic, Early, Archaic, Middle	Indigenous	Findspot	Unknown
AlGw-43	Loring	Post-Contact	Euro-Canadian	Homestead	Unknown
AlGw-42	N/A	Post-Contact	Euro-Canadian	Unknown	Unknown
AlGw-4	Goodfellow	Archaic	Indigenous	Camp/campsite	Unknown
AlGw-39	N/A	Pre-Contact	Indigenous	Findspot	Unknown
AlGw-38	N/A	Pre-Contact	Indigenous	Findspot	Unknown
AlGw-36	N/A	Woodland, Early	Indigenous	Findspot	Unknown
AlGw-32	Westlake	Paleo-Indian	Unknown	Camp/campsite	Unknown
AlGw-31	Lotor	Archaic, Middle	Indigenous	Camp/campsite, processing	Unknown
AlGw-3	Harper	Archaic, Paleo-Indian	Indigenous	Camp/campsite	Unknown

Borden #	Site Name	Time Period	Affinity	Site Type	Current Status
AlGw-28	Beesting	Pre-Contact	Unknown	Findspot	Unknown
AlGw-25	Belly	Pre-Contact	Indigenous	Unknown	Unknown
AlGw-219	P3	Archaic, Middle	Unknown	Findspot	No Further CHVI
AlGw-218	H6	Post-Contact	Euro-Canadian	Homestead	Further CHVI
AlGw-217	H3	Post-Contact	Unknown	Homestead	Further CHVI
AlGw-216	H2	Post-Contact	Euro-Canadian	Homestead	Further CHVI
AlGw-215	H5	Post-Contact	Euro-Canadian	Homestead	Further CHVI
AlGw-214	H4	Post-Contact	Euro-Canadian	Homestead	No Further CHVI
AlGw-213	Location 1	Post-Contact	Euro-Canadian	Homestead	No Further CHVI
AlGw-212	Bowes	Post-Contact	Euro-Canadian	House, logging	Further CHVI
AlGw-207	N/A	Archaic, Late	Unknown	Findspot	No Further CHVI
AlGw-206	N/A	Post-Contact, Pre-Contact	Unknown	Homestead, scatter	Further CHVI
AlGw-205	N/A	Archaic, Early	Unknown	Findspot	No Further CHVI
AlGw-204	Mary	Post-Contact	Euro-Canadian	Dump	No Further CHVI
AlGw-203	O'Leary	Post-Contact	Euro-Canadian	Scatter	No Further CHVI
AlGw-192	W. Jaffery	Post-Contact	Unknown	Unknown, farmstead	No Further CHVI
AlGw-19	Burns/C. Saunders	Post-Contact	Euro-Canadian	Manufacturing	Unknown
AlGw-182	N/A	Post-Contact	Unknown	Domestic/Agricultural, possibly associated with the village of Coventry/Columbia	Unknown

Borden #	Site Name	Time Period	Affinity	Site Type	Current Status
AlGw-180	N/A	Post-Contact	Euro-Canadian	Midden, scatter	No Further CHVI
AlGw-172	Harper	Post-Contact, Pre-Contact	Euro-canadian	Unknown	Unknown
AlGw-171	GoodFELLOW Site	Not provided	Unknown	Unknown	Unknown
AlGw-161	N/A	Pre-Contact	Indigenous	Findspot	Unknown
AlGw-160	The Taylor Homestead	Post-Contact	Euro-Canadian	Homestead	Unknown
AlGw-16	N/A	Not provided	Unknown	Unknown	Unknown
AlGw-15	N/A	Not provided	Unknown	Unknown	Unknown
AlGw-147	N/A	Pre-Contact	Indigenous	Unknown	Unknown
AlGw-146	N/A	Pre-Contact		Unknown	Further CHVI
AlGw-145	N/A	Pre-Contact	Indigenous	Unknown	Unknown
AlGw-144	N/A	Pre-Contact	Indigenous	Unknown	Unknown
AlGw-143	N/A	Pre-Contact	Unknown	Findspot	No Further CHVI
AlGw-142	AlGw-142	Archaic, Middle	Indigenous	Scatter	Further CHVI
AlGw-141	N/A	Post-Contact	Euro-Canadian	Scatter	Further CHVI
AlGw-138	N/A	Pre-Contact	Indigenous	Unknown	No Further CHVI
AlGw-137	N/A	Post-Contact	Euro-Canadian	Unknown	No Further CHVI
AlGw-136	N/A	Pre-Contact	Indigenous	Findspot	No Further CHVI
AlGw-135	N/A	Pre-Contact	Unknown	Unknown	No Further CHVI
AlGw-134	N/A	Post-Contact	Unknown	Unknown	Further CHVI
AlGw-12	Grogan	Archaic, Late	Indigenous	Camp/campsite	Unknown
AkGw-319	Peel 3-IF.3	Pre-Contact	Indigenous	Findspot	Unknown

Borden #	Site Name	Time Period	Affinity	Site Type	Current Status
AkGw-318	Peel 3-IF.2	Pre-Contact	Indigenous	Findspot	Unknown
AkGw-317	Peel 3-IF.1	Pre-Contact	Indigenous	Findspot	Unknown

8.0 Existing Conditions

8.1 Heritage Screening

The following resources and registers were consulted to determine the presence of known cultural heritage resources within or adjacent to the focus area:

- The Town of Caledon's *Municipal Heritage Register,* which includes properties individually Designated under Part IV of the Ontario Heritage Act, 'Listed' Heritage Properties, which included properties which are not Designated but believed to be of cultural heritage value or interest (CHVI) (commonly referred to as "Listed" properties), Heritage Conservation Districts (HCD) and Cultural Heritage Landscapes (CHL);
- The inventory of Ontario Heritage Trust (OHT) easements;
- The OHT's *Ontario Heritage Plaque Guide*, an online, searchable database of Ontario Heritage Plaques;
- Inventory of known cemeteries/burial sites in the Ontario Ministry of Government and Consumer Services and the Ontario Genealogical Society's online databases;
- Parks Canada's *Canada's Historic Places* website: available online, the searchable register provides information on historic places recognized for their heritage value at the local, provincial, territorial, and national levels;
- Parks Canada's *Directory of Federal Heritage Designations*, a searchable on-line database that identifies National Historic Sites, National Historic Events, National Historic People, Heritage Railway Stations, Federal Heritage Buildings, and Heritage Lighthouses;
- Canadian Heritage River System. The Canadian Heritage River System is a national river conservation program that promotes, protects and enhances the best examples of Canada's river heritage; and,
- United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Sites.

Table 4 provides a summary of the cultural heritage screening.

Table 4: Cultural Heritage Inventory Review

Inventory	**Presence of Cultural Heritage Resources (within or adjacent to focus area)**
Town of Caledon Municipal Heritage Register	Designated properties – Yes (1 property) Listed properties – Yes (4 properties) HCDs/CHLs – No
OHT easements	No
OHT's *Ontario Heritage Plaque Guide*	No
Inventory of known cemeteries/burial sites	No
Parks Canada's *Canada's Historic Places*	No

Inventory	Presence of Cultural Heritage Resources (within or adjacent to focus area)
Parks Canada's Directory of Federal Heritage Designations	No
Canadian Heritage River System	Yes
UNESCO World Heritage Sites	No

8.1.1 Known BHRs and CHLs

The following properties are currently on the Town of Caledon's heritage register:

- 14121 Emil Kolb Parkway (Duffy Homestead) – Designated under Part IV Section 29 of the Ontario Heritage Act (OHA)
- 14685 Regional Road 50 – Listed under Part IV Section 27 of the OHA
- 14475 Regional Road 50 – Listed under Part IV Section 27 of the OHA
- 14291 Regional Road 50 – Listed under Part IV Section 27 of the OHA
- 14328 Regional Road 50 – Listed under Part IV Section 27 of the OHA

The property at 14121 Emil Kolb Parkway is identified on the Town of Caledon heritage register as 14121 Duffy's Lane.

The properties at 14685, 14475 and 14291 Regional Road 50 were subject to heritage evaluation under Ontario Regulation (O. Reg. 9/06) in 2022 as part of a study for the Bolton North Hill Secondary Plan (TMHC 2022). This 2022 study found the property at 14475 Regional Road 50 to not exhibit CHVI, however the property remains on the Town's heritage register.

The focus area was not identified by the Town of Caledon as a CHL in the Town's CHL inventory (Town of Caledon 2009).

8.2 Previous Cultural Heritage Assessments

The focus area, or portions of the focus area were previously included in two known cultural heritage reports.

In the early stages of the MCEA, Parslow Heritage Consultancy Inc. (PHC) completed a Cultural Heritage Screening Report (CHSR) for a large portion of Peel Region, prior to identification of the preliminary preferred alignment (PHC 2023). The CHSR identified the large study area to contain numerous properties found on municipal heritage registers, and numerous properties of potential CHVI.

A Cultural Heritage Assessment was previously undertaken for portions of the focus area along Emil Kolb Parkway and Regional Road 50, as part of the Bolton North Hill Secondary Plan (TMHC 2022). The report noted the secondary plan study area included, or was adjacent to, four properties Listed on the Town of Caledon's Heritage Register: 14291, 14328, 14685, and 14475 Regional Road 50.

8.3 Field Review

The field survey for the MCEA was completed on November 25, 2024 under satisfactory conditions. No snow cover was present that would obscure the identification of potential BHRs or CHLs. Prior to commencement of the field survey, notice of the field survey was provided by Peel Region to Indigenous Nations with an interest in the MCEA. Billye Bomberry of Haudenosaunee Development Institute (HDI) was present for the field survey.

The field survey included a "windshield" survey of the preferred water and wastewater solution to document known and potential BHRs or CHLs. Properties of potential CHVI were primarily identified using the "40-year rule" to identify structures over 40 years old. The preferred water and wastewater solution is largely within municipal right-of-ways (ROWs). However, the preliminary preferred alignment corridor crosses private lands on the west side of the focus area, where the proposed Sanitary Pumping Station (SPS) and associated infrastructure will be on private property at 14328 Regional Road 50, and in the northeast corner of the focus area, where infrastructure will cross private property between Regional Road 50 and Mount Hope Road. Permission to enter these properties for field survey documentation was obtained by Peel Region.

8.3.1 Potential BHRs and CHLs

The following properties were identified as potential BHRs or CHLs during the field survey of properties adjacent to the preferred water and wastewater solution, primarily using the "40-year rule" to identify structures over 40 years old:

- 14090 Duffy's Lane
- 14096 Emil Kolb Parkway
- 14105 Emil Kolb Parkway
- 14114 Emil Kolb Parkway
- 14289 Regional Road 50
- 14337 Regional Road 50
- 14442 Regional Road 50
- 14445 Regional Road 50
- 14600 Regional Road 50
- Cast in place concrete bridge abutments on part of 14328 Regional Road 50

High-level O. Reg. 9/06 evaluations were conducted for properties of potential CHVI. For properties previously evaluated under O. Reg. 9/06 as part of the 2022 *Cultural Heritage Assessment, Bolton North Hill Secondary Plan*, these evaluations were carried over (Appendix C).

While 14328 Regional Road 50 is identified as a Listed property on the Town of Caledon's heritage register, no mention is provided of the bridge abutments on the west side of the property. Therefore, it is included here on the list of potential BHRs. 14328 Regional Road 50 is a large property and the bridge abutments are located on the west side of the property, approximately 1.5 km from the residential structure. The bridge abutments are adjacent to the extant bridge used as part of a recreational trail adjacent to Emil Kolb Parkway.

Appendix B provides field review data sheets for each known and potential BHR within or adjacent to the study area.

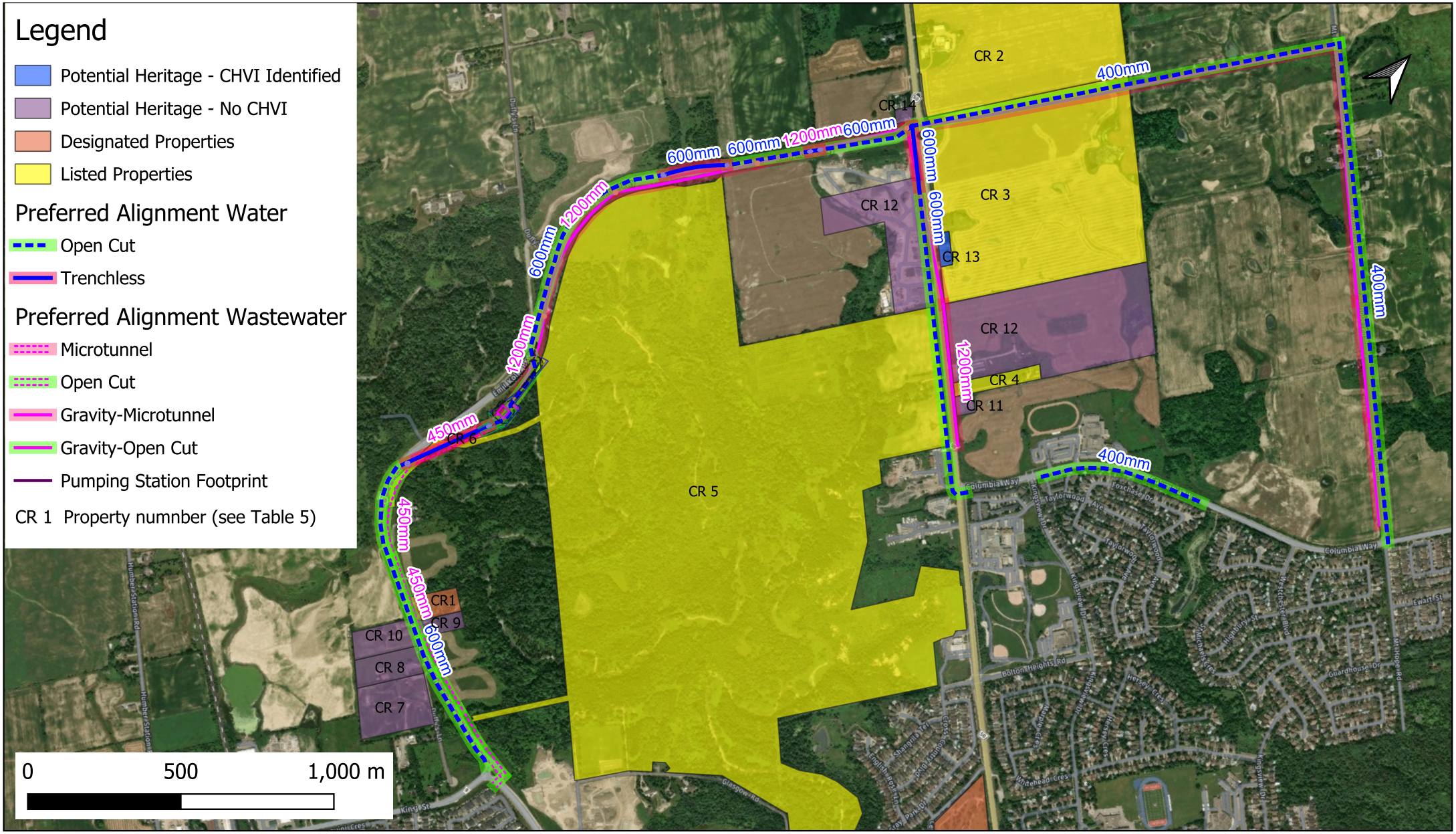
9.0 O. Reg. 9/06 Evaluations

O. Reg. 9/06 (as amended by O. Reg. 569/22) prescribes the criteria for determining the CHVI of a property. O. Reg. 9/06 (as amended by O. Reg. 569/22) stipulates that, to be considered a candidate for Designation under Section 29 of the OHA, a property must meet "two or more" of the criteria listed in O. Reg. 9/06; to be a candidate for Listing, a property must meet "one or more" of the O. Reg. 9/06 criteria. The nine criteria are listed below.

1. The property has design value or physical value because it is a rare, unique, representative or early example of a style, type, expression, material or construction method.
2. The property has design value or physical value because it displays a high degree of craftsmanship or artistic merit.
3. The property has design value or physical value because it demonstrates a high degree of technical or scientific achievement.
4. The property has historical value or associative value because it has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community.
5. The property has historical value or associative value because it yields, or has the potential to yield, information that contributes to an understanding of a community or culture.
6. The property has historical value or associative value because it demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.
7. The property has contextual value because it is important in defining, maintaining, or supporting the character of an area.
8. The property has contextual value because it is physically, functionally, visually or historically linked to its surroundings.
9. The property has contextual value because it is a landmark.

High-level evaluations under O. Reg. 9/06 (as amended by O. Reg. 569/22) were completed for each potential BHR (Appendix B). These high-level evaluations did not include property-specific background research that may impact evaluations of historical and/or associative value. Additionally, evaluations of physical and/or design value were made from municipal ROWs. For properties previously evaluated under O. Reg. 9/06 as part of the 2022 *Cultural Heritage Assessment, Bolton North Hill Secondary Plan*, these evaluations were carried over (Appendix C).

Maps 8 and 9 illustrate the CHR results based on current heritage protections (Designated, Listed), and the combined 2022 and current O. Reg. 9/06 evaluations.

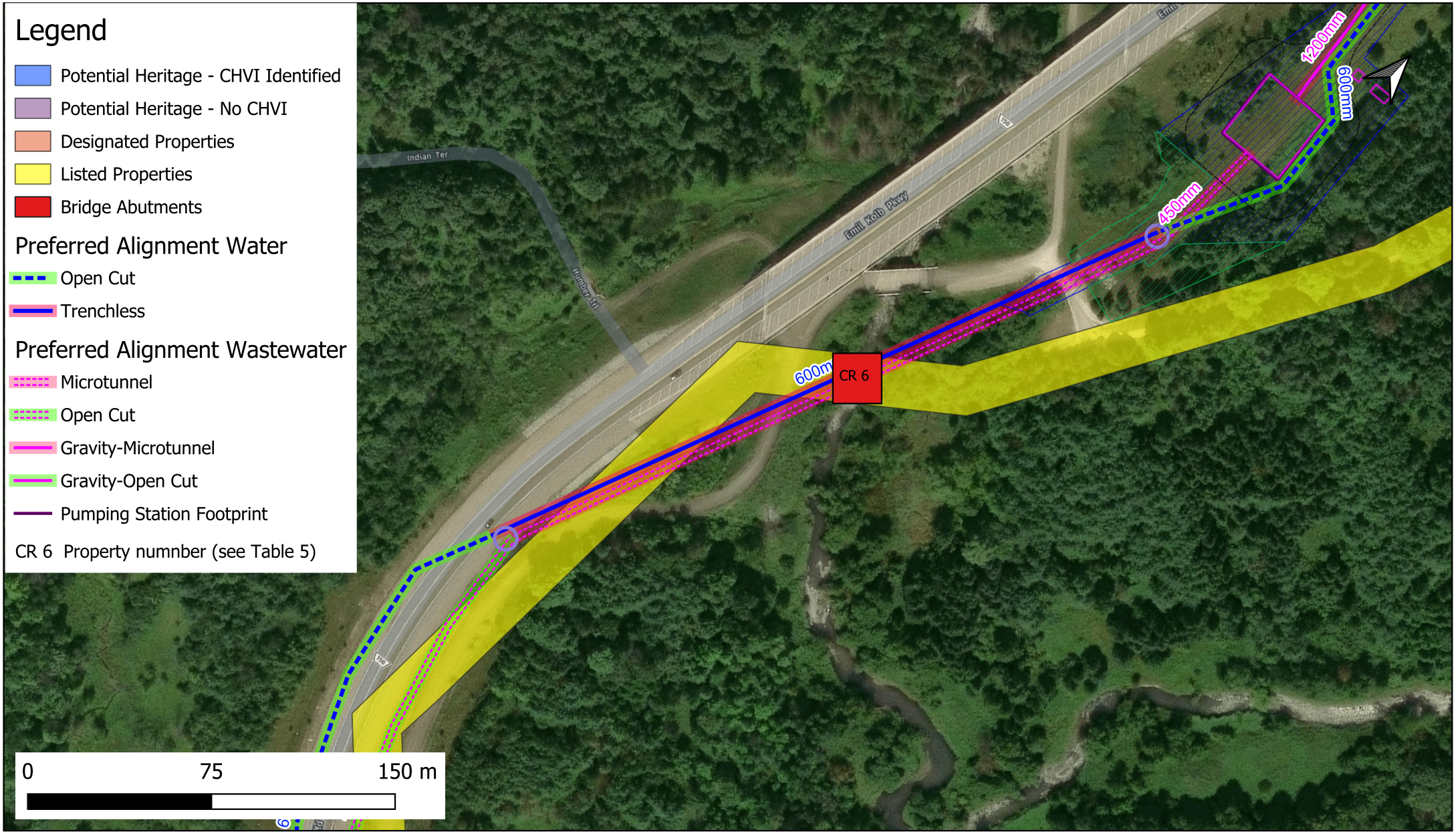


Cultural Heritage Report - Bolton Water and Wastewater Capacity Improvements Schedule C MCEA

Map 8 - Cultural Heritage Assessment Results

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Coordinate system - EPSG:3857 - WGS 84 / Pseudo-Mercator



Cultural Heritage Report - Bolton Water and Wastewater Capacity Improvements Schedule C MCEA

Map 9 - Cultural Heritage Assessment Results - SPS

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Coordinate system - EPSG:3857 - WGS 84 / Pseudo-Mercator

10.0 Preliminary Impact Assessment

10.1 Description of Proposed Work

The water and wastewater servicing strategy proposed through the MCEA includes the following:

- New watermain on Emil Kolb Parkway, Regional Road 50, Mount Hope Road, along new infrastructure corridor and new section of watermain on Columbia Way to connect to the existing and future Pressure Zone 7 system.
- New Sanitary Pumping Station (SPS) and access road north-east of the Humber River adjacent to Emil Kolb Parkway.
- New deep gravity sanitary sewer on Emil Kolb Parkway from Regional Road 50 / Emil Kolb Parkway intersection to the new SPS.
- New gravity sanitary sewers on Regional Road 50, Mount Hope Road and along new infrastructure corridor to connect to the Emil Kolb Parkway sewer.
- New sanitary forcemain extending from the new SPS south along Emil Kolb Parkway to King Street.

In terms of implementation, open-cut trenches, trenchless (tunnelled) construction, and suspended construction were considered. Based on environmental factors and the required depth of watermains, sewers and forcemains, the Study is proposing to utilize open-cut and trenchless construction. For trenchless construction areas, this will require the excavation of entry and exit shafts.

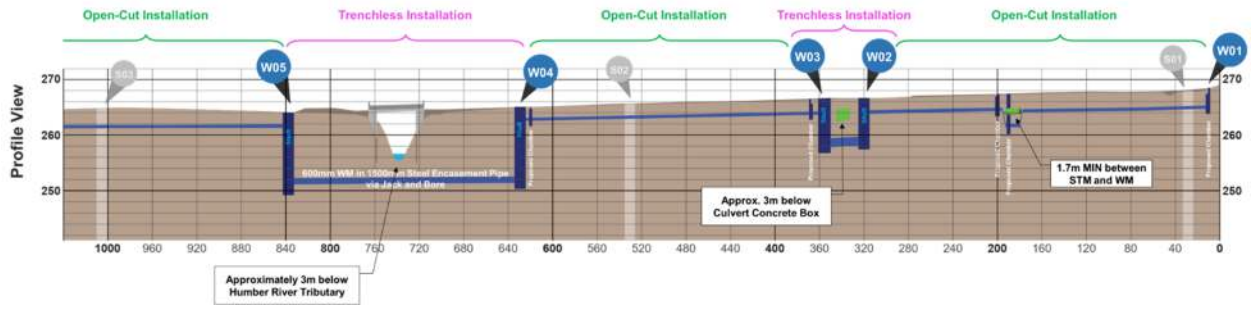


Figure 3: Example of open-cut and trenchless installation for water infrastructure



Figure 4: Example of trenchless installation for wastewater infrastructure below water infrastructure

The location of the proposed SPS considered the selected construction methodology for both the watermain and sewers, existing site constraints and overall impacts to the community including traffic, natural environment, archaeological and cultural heritage features (Peel Region 2024). The proposed location of the SPS and access road is located on TRCA-owned lands of off Emil Kolb Parkway, on the west side of the focus area.

10.2 Preliminary Evaluation of Potential Impacts

To evaluate the potential preliminary impacts to the CHVI of properties that may be impacted by the preliminary preferred alignment, the following direct and indirect impacts were reviewed, in keeping with the MCM's *Info Sheet #5 Heritage Impact Assessment and Conservation Plans* (MCM 2006b):

- Destruction of any, or part of any significant heritage attributes or features
- Alteration that is not sympathetic, or incompatible, with the historic fabric and appearance
- Shadows created that alter the viability of a heritage attribute or an associated nature feature or plantings, such as a garden
- Isolation of a heritage attribute from its surrounding environment, context, or a significant relationship
- Direct or indirect obstruction of significant views or vistas within, from, or of built and natural features
- A change in land use where the change may impact the property's CHVI
- Land disturbances such as a change in grade that alters soils and drainage patterns that may adversely affect archaeological and/or cultural heritage resources

The preferred water and wastewater solution is largely within municipal ROWs, however the corridor crosses private lands on the west side of the focus area, where the proposed SPS and associated infrastructure will be on private property at 14328 Regional Road 50, and in the

northeast corner of the focus area, where infrastructure will cross private property between Regional Road 50 and Mount Hope Road.

For proposed project infrastructure within municipal ROWs, no direct impacts will occur to heritage properties currently on the Town of Caledon heritage register and those identified by Peninsula Heritage as potential heritage properties. At this time no indirect impacts are anticipated to occur (e.g. damage from vibration).

For proposed project infrastructure between Regional Road 50 and Mount Hope Road within the private properties at 1468 Regional Road 50 (Listed), 14475 Regional Road 50 (Listed), and 14530 Mount Hope Road, no direct impacts to built structures will occur. At this time no indirect impacts are anticipated to occur (e.g. damage from vibration).

For proposed infrastructure on the private property located at 14328 Regional Road 50, no direct or indirect impacts will occur related to the residential structure located approximately 1.5 km east of the proposed project infrastructure on the west side of the private property.

Unused cast in place concrete bridge abutments associated with the Humber River was identified on the west side of 14328 Regional Road 50. The bridge abutments were part of the historical road alignment of Duffy's Lane prior to the replacement of large portions of Duffy's Lane with Emil Kolb Parkway in the early 21st century. Wood bridge crossings are noted in this area on 1914 and 1926 topographic maps, replaced by an iron bridge by 1934. The bridge abutments are located in close proximity to the historic Humber Grove cottage community that was developed in the 1920s. There are currently no heritage reports on file with the Town of Caledon related to these bridge abutments (Personal communication, Sally Drummond, Senior Planner, Heritage). Proposed infrastructure is located in the area of the abutments, proposed to be installed using trenchless and microtunnel techniques.

Table 5 provides a summary by property of potential direct and indirect impacts and recommended mitigation strategies.

Table 5: Evaluation of Preliminary Impacts

Address	Resource Type	Status	Potential Impacts	Proposed Mitigation Strategies
14121 Emil Kolb Parkway (Duffy Homestead) Cultural Resource (CR) 1	Farmstead/CHL	Designated, By-law 2018-17, Duffy-Murray House	As proposed, the preliminary preferred alignment in this area would be constructed using open cut methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14685 Regional Road 50 CR 2	Farmstead/CHL	Listed, O. Reg. 9/06 completed in 2022 (CHVI identified)	As proposed, the preliminary preferred alignment adjacent to this property would be constructed using open cut and gravity micro-tunnel methods. No direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14475 Regional Road 50 CR 3	Farmstead/CHL	Listed, O. Reg. 9/06 completed in 2022 (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut and gravity micro-tunnel methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14291 Regional Road 50 CR 4	Farmstead/CHL	Listed, O. Reg. 9/06 completed in 2022 (CHVI identified)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut and gravity micro-tunnel methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14328 Regional Road 50 CR 5 (please see row below for details	Farmstead/CHL	Listed, O. Reg. 9/06 completed in 2022 (CHVI identified)	Impacts are proposed on the west side of the property near Emil Kolb Parkway, approximately 1.5 km from the extant farmhouse that fronts Regional Road 50. As proposed, the preliminary preferred alignment in this area would be constructed	Along Regional Road 50 and Emil Kolb Parkway - No direct or indirect impacts are anticipated, no mitigation measures proposed at this time. Proposed SPS and access road location –

Address	Resource Type	Status	Potential Impacts	Proposed Mitigation Strategies
related to bridge abutments present on property)			using open cut, trenchless, and gravity micro-tunnel methods along Emil Kolb Parkway, and in this area includes the construction of an access road and SPS. Along Highway 50, the preliminary preferred alignment in this area would be constructed using open cut and gravity micro-tunnel methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW and on TRCA-owned lands (for access road and SPS).	Ground impacts will occur related to the construction of the access road and SPS. Given the proposed infrastructure is located approximately 1.5 km from the extant farmhouse, no direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14328 Regional Road 50 (cast in place concrete bridge abutments), former Duffy's Lane road alignment CR 6	Bridge remains/BHR	Listed, feature identified during field review, O. Reg. 9/06 completed (CHVI identified) Criteria met – abutments are historically linked to the early 20th century transportation improvements in the township.	As proposed, the preliminary preferred alignment in this area would be constructed using trenchless and gravity micro-tunnel methods. Impacts from infrastructure installation would occur underneath the bridge abutments and water course. The bridge abutments and farmstead on this large property are not historically linked (personal communication, Sally Drummond, Senior Planner, Heritage, Town of Caledon). Please see row above for details related to the farmstead.	Impacts from infrastructure installation would occur underneath the bridge abutments and water course. Mitigation: Vibration assessment to confirm proposed construction methods will not result in damage from vibration to the bridge abutments. On-site monitoring by project team recommended to ensure construction techniques do not inadvertently result in impacts to the bridge abutments.
14090 Duffy's Lane CR 7	Residence	Identified during field review, O. Reg. 9/06 completed (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14096 Emil Kolb Parkway CR 8	Residence	Identified during field review, O. Reg. 9/06 completed (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut methods. The preferred water and wastewater solution footprint in this area	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.

Address	Resource Type	Status	Potential Impacts	Proposed Mitigation Strategies
			would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	
14105 Emil Kolb Parkway CR 9	Residence	Identified during field review, O. Reg. 9/06 completed (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14114 Emil Kolb Parkway CR 10	Residence	Identified during field review, O. Reg. 9/06 completed (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14289 Regional Road 50 CR 11	Commercial	Identified during field review, O. Reg. 9/06 completed in 2022 (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut and gravity micro-tunnel methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14337 Regional Road 50 CR 12	Residence and Commercial	Identified during field review, O. Reg. 9/06 completed in 2022 (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut and gravity micro-tunnel methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14442 Regional Road 50 CR 12	Commercial	Identified during field review, O. Reg. 9/06 completed in 2022 (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut and gravity micro-tunnel methods. The preferred water and wastewater solution footprint in this area would be	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.

Address	Resource Type	Status	Potential Impacts	Proposed Mitigation Strategies
			contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	
14445 Regional Road 50 CR 13	Commercial/BHR	Identified during field review, O. Reg. 9/06 completed in 2022 (no CHVI) Revised O. Reg. 9/06 evaluation identified historical and contextual value	As proposed, the preliminary preferred alignment in this area would be constructed using open cut and gravity micro-tunnel methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.
14600 Regional Road 50 CR 14	Residence	Identified during field review, O. Reg. 9/06 completed in 2022 (no CHVI)	As proposed, the preliminary preferred alignment in this area would be constructed using open cut, trenchless, and gravity micro-tunnel methods. The preferred water and wastewater solution footprint in this area would be contained within the municipal ROW, with no direct or indirect impacts anticipated to the property.	No direct or indirect impacts are anticipated, no mitigation measures proposed at this time.

11.0 Conclusions and Recommendations

The following provides a summary of the CHR results:

- Fourteen properties/structures were reviewed as potential BHR or CHL resources including one Designated property, four Listed properties, and 10 properties of potential CHVI;
- Of the properties are potential CHVI, the following properties were identified to exhibit CHVI:
    - 14445 Regional Road 50
    - 14328 Regional Road 50 (cast in place concrete bridge abutments), former Duffy's Lane road alignment

Based on the results of the background data collection, field review, and assessment of potential impacts to the focus area, this Cultural Heritage Report makes the following recommendations:

- 1) For the Designated and Listed properties, no direct or indirect impacts are anticipated, and no mitigation measures are proposed at this time;
- 2) For the properties of potential CHVI where no CHVI was identified, no mitigation measures are proposed at this time;
- 3) For the property at 14445 Regional Road 50, where CHVI was determined to be present, no direct or indirect impacts are anticipated, and no mitigation measures are proposed at this time;
- 4) For the cast in place concrete bridge abutments along the former Duffy's Lane road alignment on 14328 Regional Road 50, based on the proposed construction techniques no direct or indirect impacts are anticipated to the bridge abutments. However, the following mitigation measures are recommended:
    - Vibration assessment be undertaken by qualified personnel to confirm proposed construction methods will not result in damage from vibration to the bridge abutments.
    - On-site monitoring by project team be conducted to ensure construction techniques do not inadvertently result in impacts to the bridge abutments.
- 5) Design the preferred water and wastewater solution to avoid direct and indirect impacts to BHLs and CHLs.
- 6) In contract documentation for the Project, direct the contractor to avoid and protect the identified BHRs and CHLs.

- 7) Plan and locate storage and construction staging areas to avoid impacts to the identified BHRs and CHLs.
- 8) Should the preferred water and wastewater solution be expanded, retain a qualified heritage consultant to identify the impacts of the proposed new work on known or potential BHRs and CHLs and recommend appropriate mitigation or conservation measures.

The *Provincial Planning Statement* (2024) notes that CHVI is identified for cultural heritage resources by communities. Thus, the system by which heritage is administered in Ontario places emphasis on the decision-making of local municipalities in determining CHVI. It is hoped that the information presented in this report will be useful in those determinations.

12.0 Closure

This report was prepared by Peninsula Heritage Ltd. for the exclusive use of GEI Consultants Ltd. And Peel Region for their work associated with the Bolton Water and Wastewater Capacity Improvements Schedule C Municipal Class Environmental Assessment, Peel Region, Ontario.

All information, recommendations and opinions provided in this report are for the sole benefit of the Proponent. No other party may use or rely on this report or any portion thereof without the Proponent's or Peninsula Heritage Ltd.'s express written consent. Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Proponent in the design of the specific project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of the third party.

We confirm this report conforms to accepted technical and ethical standards; the information included in this report is accurate to the best of our abilities, conforms to accepted technical and ethical standards, and reflects the professional opinion of Chris Lemon, Cultural Heritage Specialist.

Professional Qualifications for the primary author of this report are provided in Appendix A.

Sincerely,



Chris Lemon, B.Sc., Dip. Heritage, CAHP

Cultural Heritage Specialist

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Peninsula Heritage Ltd.
Archaeology & Built Heritage

Appendix A

Qualifications

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Chris Lemon, B.Sc., Dip. Heritage, CAHP

Chris Lemon is a Cultural Heritage Consultant and Licensed Archaeologist (R289) with over 18 years' experience. He received an Honours B.Sc. in Anthropology from the University of Toronto and has completed course work towards an M.A. from the University of Western Ontario. Mr. Lemon has a Diploma in Heritage Carpentry and Joinery and a Certificate in Heritage Planning from Algonquin College. During his career Mr. Lemon has conducted archaeological and cultural heritage assessments across Ontario. He has managed field teams and projects ranging in value from <$5,000.00 to in excess of $1,000,000.00. Mr. Lemon is a member of the Ontario Archaeological Society, the Council for Northeast Historical Archaeology, and is a member in good standing with the Canadian Association of Heritage Professionals.

Chris' training at Algonquin College and extensive field experience have provided Chris with skills and knowledge in the identification of historical building materials and construction techniques, including the viability of salvaging materials.

Employment History

PENINSULA HERITAGE LTD.
2024-Present, Owner, Cultural Heritage Specialist
Key Responsibilities: Cultural and Built Heritage Assessments, health and safety protocols

PARSLOW HERITAGE CONSULTANCY INC.
2020-2024, Cultural Heritage Specialist
Key Responsibilities: Cultural and Built Heritage Assessments, health and safety protocols

ALGONQUIN COLLEGE.
2019, Perth Façade Recovery Project Staff
Key Responsibilities: Built Heritage Assessments, historic research, coordination with Town staff

GOLDER ASSOCIATES LTD.
2008-2018, Project Archaeologist
Key Responsibilities: Senior archaeological field director GTA, crew training, report production, coordination and quality control of archaeological field work, cultural heritage assessments and report production

ARCHAEOLOGIX INC.
2006-2008, Field Director/Field technician
Key Responsibilities: Oversaw the day-to-day operation of site field work, maintained a safety-focused workspace, conducted background research and prepared report sections

Education and qualifications

Dip. Heritage Carpentry and Joinery – Algonquin College (2020)

Certificate in Heritage Planning – Algonquin College (2019)

M.A. course work – University of Western Ontario (2012-2014)

Honors B.Sc. (Anthropology) – University of Toronto (2006)

Ontario Research Archaeological License – R289

CAHP Member in Good Standing

Project Experience – Cultural Heritage

Cultural Heritage Assessment Report, Bolton Water and Wastewater MCEA
Peel Region, Ontario
2024

Primary author of a CHAR: Existing Conditions and Preliminary Impact Assessment to identify known and potential cultural heritage properties and provided mitigation options for planned impacts associated with the Bolton Water and Wastewater MCEA..

Cultural Heritage Screening Report
Township of West Lincoln, Ontario
2024

Reporting to screen for known and potential cultural heritage resources in support of the Municipal Class EA for the reconstruction of Regional Road 63 between Regional Road 27 and the Wellandport Community Centre.

Cultural Heritage Evaluation Report, Marsville Pumphouse
Township of East Garafraxa, Ontario
2024

Field documentation and reporting to evaluate cultural heritage value or interest of a small pumphouse in a rural community. The CHER was requested by MCM following their review of a Municipal Class EA for the proposed expansion of the Marsville water supply system.

Cultural Heritage Assessment Report
Township of Centre Wellington, Ontario
2023

Field documentation and reporting to evaluate cultural heritage value or interest of five rural bridges (1-P, 28-P, 30-P, 32-P, 33-P) in the Township of Centre Wellington under a Municipal Class EA. CHAR also included preliminary mitigation strategies.

Cultural Heritage Evaluation Report, Millards and Bond Head Creek Bridges
Town of South Bruce Peninsula, Ontario
2023

Field documentation and reporting to evaluate cultural heritage value or interest of two rural bridge as part of a Structural Evaluation and Feasibility Study.

Cultural Heritage Evaluation Report, Woodrow Road Bridge
Township of Severn, Ontario
2023

Field documentation and reporting to evaluate cultural heritage value or interest of a rural bridge as part of a Municipal Class EA.

Cultural Heritage Evaluation Report and Heritage Impact Assessment Bright's Grove Water Supply System
Petrolia, Ontario
2022

Field documentation and cultural evaluation of a streetscape and 20th century water works building, in support of a Class EA for upgrades to the Community of Bright's Grove water supply system.

Cultural Heritage Evaluation Report New Dundee Water Supply System
New Dundee, Ontario
2022

Field documentation and cultural evaluation of a streetscape and 19th century farm complex, in support of a Class EA for iron and manganese upgrades to the Community of New Dundee's water supply system.

Chris Lemon, B.Sc., Dip., CAHP
Cultural Heritage Consultant

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Jamie Lemon, M.A.

Jamie Lemon is a Senior Archaeologist and Project Manager with Peninsula Heritage Ltd. and is responsible for managing archaeological and cultural heritage projects across Ontario. She has worked on archaeological and cultural heritage projects for mining, land development, transportation, aggregates, and energy sectors. Jamie received a BA in Anthropology from the University of Waterloo in 2007, an MA from Trent University in 2014, and has been active in Cultural Resource Management in Ontario for over 17 years. Jamie holds a valid professional archaeological license with the Ontario Ministry of Citizenship and Multiculturalism (MCM). Jamie regularly assists clients with navigating the life cycle of archaeological and cultural heritage assessments as it relates to their Project, including interpretation of applicable standards, regulations, and policies.

Employment History

PENINSULA HERITAGE LTD.
2024-Present, Owner, Senior Archaeologist

PARSLOW HERITAGE CONSULTANCY INC.
2022-2024, Senior Archaeologist

GOLDER ASSOCIATES LTD.
2010-2022, Senior/Project Archaeologist

GOLDER ASSOCIATES LTD.
2008-2010, Licensed Field Director

ARCHAEOLOGIX INC.
2007-2008, Field technician

Education and qualifications

M.A. Archaeology – Trent University (2014)

Honors B.A. (Anthropology) – University of Waterloo (2007)

Ontario Professional Archaeological License – P1056

Government of Canada Reliability Clearance

Ontario Archaeological Society Member

Project Experience – Cultural Heritage

Cultural Heritage Assessment Report, Bolton Water and Wastewater MCEA
Peel Region, Ontario
2024

Project Manager of a CHAR: Existing Conditions and Preliminary Impact Assessment to identify known and potential cultural heritage properties and provided mitigation options for planned impacts associated with the Bolton Water and Wastewater MCEA.

Cultural Heritage Screening Report
Township of West Lincoln, Ontario
2024

Project Manager for a CHSR to screen for known and potential cultural heritage resources in support of the Municipal Class EA for the reconstruction of Regional Road 63 between Regional Road 27 and the Wellandport Community Centre.

Cultural Heritage Evaluation Report, Marsville Pumphouse
Township of East Garafraxa, Ontario
2024

Project Manager of a CHER to evaluate cultural heritage value or interest of a small pumphouse in a rural community. The CHER was requested by MCM following their review of a Municipal Class EA for the proposed expansion of the Marsville water supply system.

Cultural Heritage Assessment Report
Township of Centre Wellington, Ontario
2023

Project Manager of a CHAR to evaluate cultural heritage value or interest of five rural bridges (1-P, 28-P, 30-P, 32-P, 33-P) in the Township of Centre Wellington under a Municipal Class EA. CHAR also included preliminary mitigation strategies.

Cultural Heritage Evaluation Report, Millards and Bond Head Creek Bridges
Town of South Bruce Peninsula, Ontario
2023

Project Manager of a CHER to evaluate cultural heritage value or interest of two rural bridge as part of a Structural Evaluation and Feasibility Study.

Cultural Heritage Evaluation Report, Woodrow Road Bridge
Township of Severn, Ontario
2023

Project Manager of a CHER to evaluate cultural heritage value or interest of a rural bridge as part of a Municipal Class EA.

Cultural Heritage Evaluation Report and Heritage Impact Assessment Bright's Grove Water Supply System
Petrolia, Ontario
2022

Project Manager of a CHER documenting a streetscape and 20th century water works building, in support of a Class EA for upgrades to the Community of Bright's Grove water supply system.

Cultural Heritage Evaluation Report New Dundee Water Supply System
New Dundee, Ontario
2022

Project Manager of a CHER documenting of a streetscape and 19th century farm complex, in support of a Class EA for iron and manganese upgrades to the Community of New Dundee's water supply system.

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Appendix B

Field Review Data Sheets

Field Review	
Street Address	14090 Duffy's Lane
Resource Name	N/A
Lot and Concession	Lot 11, Concession 5
Heritage Recognition	None
Resource Type	Residence
Construction Date	c.1990
Description	Red brick one storey residential structure with three car garage. Likely dates to late 1980s or early 1990s
Historical Summary	Post-Modern contemporary residential design
Photo(s)	
Notes	O. Reg. 9/06 completed – no CHVI exhibited
Date of Visit	November 25, 2024

Evaluation of Property	
The property has design value or physical value because it:	
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method;	Criteria not met
ii. displays a high degree of craftsmanship or artistic merit, or;	Criteria not met
iii. demonstrates a high degree of technical or scientific achievement.	Criteria not met
The property has historical value or associative value because it:	
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community;	Criteria not met
ii. yields, or has the potential to yield, information that contributes to an understanding of a community of culture, or;	Criteria not met
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.	Criteria not met
The property has contextual value because it:	
i. is important in defining, maintaining or supporting the character of an area;	Criteria not met
ii. is physically, functionally, visually or historically linked to its surroundings, or;	Criteria not met
iii. is a landmark.	Criteria not met

Results of Heritage Assessment	
CHVI Evaluation	CHVI not identified at this time
Heritage Attributes	**Key attributes:** N/A

Field Review	
Street Address	14096 Emil Kolb Parkway
Resource Name	N/A
Lot and Concession	Lot 11, Concession 5
Heritage Recognition	None
Resource Type	Residence
Construction Date	c.1990
Description	Brick one storey residential structure with three car garage. Likely dates to late 1980s or early 1990s
Historical Summary	Post-Modern contemporary residential design
Photo(s)	
Notes	O. Reg. 9/06 completed – no CHVI exhibited
Date of Visit	November 25, 2024

Evaluation of Property	
The property has design value or physical value because it:	
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method;	Criteria not met
ii. displays a high degree of craftsmanship or artistic merit, or;	Criteria not met
iii. demonstrates a high degree of technical or scientific achievement.	Criteria not met
The property has historical value or associative value because it:	
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community;	Criteria not met
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The property has contextual value because it:	
i. is important in defining, maintaining or supporting the character of an area;	Criteria not met
ii. is physically, functionally, visually or historically linked to its surroundings, or;	Criteria not met
iii. is a landmark.	Criteria not met

Results of Heritage Assessment	
CHVI Evaluation	CHVI not identified at this time
Heritage Attributes	**Key attributes:** N/A

Field Review	
Street Address	14105 Emil Kolb Parkway
Resource Name	
Lot and Concession	Lot 11, Concession 5
Heritage Recognition	None
Resource Type	Residence
Construction Date	c.1970
Description	Two storey, stucco finish, gable roofline with flat roof triple car garage Obscured by heavy tree cover
Historical Summary	Post-Modern contemporary residential design
Photo(s)	
Notes	O. Reg. 9/06 completed – no CHVI exhibited
Date of Visit	November 25, 2024

Evaluation of Property	
The property has design value or physical value because it:	
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method;	Criteria not met
ii. displays a high degree of craftsmanship or artistic merit, or;	Criteria not met
iii. demonstrates a high degree of technical or scientific achievement.	Criteria not met
The property has historical value or associative value because it:	
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community;	Criteria not met
ii. yields, or has the potential to yield, information that contributes to an understanding of a community of culture, or;	Criteria not met
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.	Criteria not met
The property has contextual value because it:	
i. is important in defining, maintaining or supporting the character of an area;	Criteria not met
ii. is physically, functionally, visually or historically linked to its surroundings, or;	Criteria not met
iii. is a landmark.	Criteria not met

Results of Heritage Assessment	
CHVI Evaluation	CHVI not identified at this time
Heritage Attributes	**Key attributes:** N/A

Field Review	
Street Address	14114 Emil Kolb Parkway
Resource Name	N/A
Lot and Concession	Lot 11, Concession 5
Heritage Recognition	None
Resource Type	Residence
Construction Date	c.1990
Description	Brick one storey residential structure with three car garage. Likely dates to late 1980s or early 1990s
Historical Summary	Post-Modern contemporary residential design
Photo(s)	
Notes	O. Reg. 9/06 completed – no CHVI exhibited
Date of Visit	November 25, 2024

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Evaluation of Property	
The property has design value or physical value because it:	
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method;	Criteria not met
ii. displays a high degree of craftsmanship or artistic merit, or;	Criteria not met
iii. demonstrates a high degree of technical or scientific achievement.	Criteria not met
The property has historical value or associative value because it:	
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community;	Criteria not met
ii. yields, or has the potential to yield, information that contributes to an understanding of a community of culture, or;	Criteria not met
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.	Criteria not met
The property has contextual value because it:	
i. is important in defining, maintaining or supporting the character of an area;	Criteria not met
ii. is physically, functionally, visually or historically linked to its surroundings, or;	Criteria not met
iii. is a landmark.	Criteria not met

Results of Heritage Assessment	
CHVI Evaluation	CHVI not identified at this time
Heritage Attributes	**Key attributes:** N/A

Field Review	
Street Address	14121 Emil Kolb Parkway (14121 Duffy's Lane on Designation By-law)
Resource Name	Duffy-Murray House
Lot and Concession	Lot 11, Concession 5
Heritage Recognition	Designated (Duffy Homestead)
Resource Type	Residence and barn
Construction Date	c. 1840s (house), c. 1890s (barn)
Description	Two story red brick-veneer Georgian style residence with bank barn. See Appendix D for Designation by-law
Physical Design	Georgian style residential structure
Photo(s)	
Notes	Designated property containing Duffy Homestead Museum. Designation by-law heritage attributes reference the barn is not included in the heritage attributes
Date of Visit	November 25, 2024

Field Review	
Street Address	14289 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 12, Concession 7
Heritage Recognition	None
Resource Type	Commercial
Construction Date	C.1957-1980
Description	One storey commercial structure (automotive garage) clad in brick
Historical Summary	Late 20th century commercial development
Photo(s)	
Notes	2022 O. Reg. 9/06 evaluation identified the property to not exhibit CHVI.
Date of Visit	November 25, 2024

Field Review	
Street Address	14291 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 12 Con 7
Heritage Recognition	Listed
Resource Type	Residential
Construction Date	C.1865
Description	One and a half storey residential structure. Constructed in the Gothic Revival style. Believed to be of brick construction, currently painted. Set far back from the road allowance
Historical Summary	Reflects colonial settlement of the area and the agricultural history of the township. Example of Gothic Revival architecture
Photo(s)	
Notes	Property Listed on the Town of Caledon Heritage Register. 2022 O. Reg. 9/06 evaluation identified the property to exhibit CHVI.
Date of Visit	November 25, 2024

Field Review	
Street Address	14328 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 12, Concession 6
Heritage Recognition	Listed
Resource Type	Residential
Construction Date	C.1870
Description	One and a half storey Gothic Revival residential structure. Brick construction, painted off-white. Structure is largely obscured from view due to tree cover Part of large property that spans from Regional Road 50 to Emil Kolb Parkway
Historical Summary	Connected to the historical agricultural roots of the area. Reflects the Colonial settlement of the township
Photo(s)	
Notes	O. Reg. 9/06 completed – CHVI identified
Date of Visit	November 25, 2024

Evaluation of Property	
The property has design value or physical value because it:	
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method;	Criteria met
ii. displays a high degree of craftsmanship or artistic merit, or;	Criteria not met
iii. demonstrates a high degree of technical or scientific achievement.	Criteria not met
The property has historical value or associative value because it:	
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community;	Criteria met
ii. yields, or has the potential to yield, information that contributes to an understanding of a community of culture, or;	Criteria not met
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.	Criteria not met
The property has contextual value because it:	
i. is important in defining, maintaining or supporting the character of an area;	Criteria met
ii. is physically, functionally, visually or historically linked to its surroundings, or;	Criteria not met
iii. is a landmark.	Criteria not met

Results of Heritage Assessment	
CHVI Evaluation	CHVI identified, CHER and HIA would be needed if potential for direct or indirect impact
Heritage Attributes	**Key attributes:** Storey and a half Gothic Revival structure Connection to 19th century Colonial settlement of Albion Township

Field Review	
Street Address	14337 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 12, Concession 7
Heritage Recognition	None
Resource Type	Residential and commercial
Construction Date	C.1970s
Description	One storey ranch style residential structure. Red brick with gable roofline. Set well back from the road. Associated with a garden centre 'Johns Nursery Garden'
Historical Summary	Reflects mid to late-20th century development associated with Regional Road 50 corridor and the expansion of Bolton into the surrounding agricultural area.
Photo(s)	

	
Notes	2022 O. Reg. 9/06 evaluation identified the property to not exhibit CHVI.
Date of Visit	November 25, 2024

Field Review	
Street Address	14442 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 13, Concession 6
Heritage Recognition	None
Resource Type	Commercial
Construction Date	Late 20th century
Description	Large commercial property for James Dick Construction Ltd. Two main structures are present, one constructed of concrete and one primarily constructed of brick, with a smaller brick structure located in the northwest corner of the property The property is utilized to refine, store, and load aggregate
Historical Summary	Reflects the late-20th century development associated with Regional Road 50 corridor
Photo(s)	
Notes	2022 O. Reg. 9/06 evaluation identified the property to not exhibit CHVI.
Date of Visit	November 25, 2024

Field Review	
Street Address	14445 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 13, Concession 7
Heritage Recognition	None
Resource Type	Commercial structure with residence above
Construction Date	C.1950
Description	Two story commercial structure with cross gable roofline. Constructed of red brick. Block addition on rear. Currently an Esso gas station convenience store. Modern block commercial garage located on property Originally constructed as a 'Supertest' fuel station
Historical Summary	Period Revival architecture
Photo(s)	
Notes	2022 O. Reg. 9/06 evaluation identified the property to not exhibit CHVI. Please see next page for revised O. Reg. 9/06 evaluation with CHVI identified.
Date of Visit	November 25, 2024

Evaluation of Property	
The property has design value or physical value because it:	
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method;	Criteria not met
ii. displays a high degree of craftsmanship or artistic merit, or;	Criteria not met
iii. demonstrates a high degree of technical or scientific achievement.	Criteria not met
The property has historical value or associative value because it:	
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community;	Criteria met
ii. yields, or has the potential to yield, information that contributes to an understanding of a community of culture, or;	Criteria not met
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.	Criteria not met
The property has contextual value because it:	
i. is important in defining, maintaining or supporting the character of an area;	Criteria met
ii. is physically, functionally, visually or historically linked to its surroundings, or;	Criteria not met
iii. is a landmark.	Criteria not met

Results of Heritage Assessment	
CHVI Evaluation	CHVI identified
Heritage Attributes	**Key attributes:** Connection to development of road travel and improvement to automotive culture following WWII

Field Review	
Street Address	14475 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 13, Concession 7
Heritage Recognition	Listed
Resource Type	Farmstead
Construction Date	C. 1877-1887
Description	One and a half storey vernacular farmhouse. Structure present on 1877 historical atlas map that may represent this residence or an original barn
Historical Summary	Structure likely constructed by Henry Harper for his son Alfred Harper circa 1877-1887
Photo(s)	
Notes	Property Listed on the Town of Caledon Heritage Register. 2022 O. Reg. 9/06 evaluation identified the property to not exhibit CHVI.
Date of Visit	November 25, 2024

Field Review	
Street Address	14600 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 14, Concession 6
Heritage Recognition	None
Resource Type	Residence
Construction Date	c.1960
Description	One storey frame structure with detached two car garage. Exterior clad in vinyl siding.
Historical Summary	Post-Modern contemporary residential design
Photo(s)	
Notes	2022 O. Reg. 9/06 evaluation identified the property to not exhibit CHVI.
Date of Visit	November 25, 2024

Field Review	
Street Address	14685 Regional Road 50
Resource Name	N/A
Lot and Concession	Lot 14 Con 7
Heritage Recognition	Listed
Resource Type	Residence
Construction Date	C.1900
Description	Two story red brick residence with hip dormer. Decorative belt course on front façade. Rusticated stone lintels at structural openings
Historical Summary	Four Square red brick farmhouse
Photo(s)	
Notes	Property Listed on the Town of Caledon Heritage Register. 2022 O. Reg. 9/06 evaluation identified the property to exhibit physical/ design value and contextual value.
Date of Visit	November 25, 2024

Field Review	
Street Address	Former Duffy's Lane road alignment, 14238 Regional Road 50
Resource Name	Bridge abutments
Lot and Concession	Lot 12, Concession 5
Heritage Recognition	Part of Listed property, though unconnected to farmstead associated with Listed property
Resource Type	Industrial (bridge abutments)
Construction Date	Unknown
Description	Cast in place concrete bridge abutment located east of existing bridge and former bridge retained as part of recreational trail. Part of the historical road alignment of Duffy's Lane prior to the replacement of large portions of Duffy's Lane with Emil Kolb Parkway in the early 21st century. Wood bridge crossings are noted in this area on 1914 and 1926 topographic maps, replaced by an iron bridge by 1934. Bridge abutment located in close proximity to the historic Humber Grove cottage community that was developed in the 1920s.
Historical Summary	Historically connected to the development of provincial infrastructure (roads) in the early 20th century
Photo(s)	
Mitigation	Impacts from infrastructure installation would occur underneath the bridge abutment and water course. Mitigation: Vibration assessment to confirm proposed construction methods

	will not result in damage from vibration to the bridge abutment. On-site monitoring by project team recommended to ensure construction techniques do not inadvertently result in impacts to the bridge abutment.
Date of Visit	November 25, 2024

Evaluation of Property	
The property has design value or physical value because it:	
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method;	Criteria not met
ii. displays a high degree of craftsmanship or artistic merit, or;	Criteria not met
iii. demonstrates a high degree of technical or scientific achievement.	Criteria not met
The property has historical value or associative value because it:	
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community;	Criteria met – abutment has associations with the theme of early 20th century transportation improvements in the township.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community of culture, or;	Criteria not met
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.	Criteria not met
The property has contextual value because it:	
i. is important in defining, maintaining or supporting the character of an area;	Criteria not met
ii. is physically, functionally, visually or historically linked to its surroundings, or;	Criteria met – abutment is historically linked to the early 20th century transportation improvements in the township.
iii. is a landmark.	Criteria not met

Results of Heritage Assessment	
CHVI Evaluation	Bridge abutment exhibits historical and contextual value
Heritage Attributes	**Key attributes:** Cast in place concrete bridge abutment

Peninsula Heritage Ltd.
Archaeology & Built Heritage

Appendix C

2022 O. Reg. 9/06 Evaluations

TOWN OF CALEDON
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14289 Peel Regional Road 50



Secondary Address(es): 14289 Highway 50

Designation/Listing Status: None

Date of Construction: 1957-1980

Typology: Commercial – Mechanic Shop

Description: This property faces Peel Regional Road 50 and lies north of Columbia Way. The property consists of a one-storey commercial structure with four garage entryways. It is clad in polychromatic brick. Two pairs of entry doors and fixed windows are located at the right end of the front façade. Four vehicle bays fill the middle and left portions of the front façade. The property is located to the southeast of 14337 Peel Regional Road 50.

Historical Associations: The property lies in the southwestern quarter of Lot 12, Concession 7, Geographic Township of Albion, which was likely first occupied in the mid-19th century by James Redpath. This smaller parcel was separated from the original quarter in 1957 when William Wilson's estate sold the property to William Bourke. The current structure likely dates to after this severance.

The property has design value or physical value because it:

Criterion	Summary of Response
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method,	No; this property does not appear to have any distinct style which is rare, unique, representative, or early.
ii. displays a high degree of craftsmanship or artistic merit, or	No; the property does not display a high degree of craftsmanship or artistic merit.
iii. demonstrates a high degree of technical or scientific achievement.	No; the property does not demonstrate a high degree of technical or scientific achievement relative to what is typical for this typology.

Table 7: Design or physical value

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The property has historical value or associative value because it:

Criterion	Summary of Response
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,	No; the property has no direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or	No; the property is not likely to yield information that contributes to an understanding of a community or culture.
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community	No; the property is not known to demonstrate the work or ideas of an architect, builder, designer or theorist who is significant to a community.

Table 8: Historical or associative value

The property has contextual value because it:

Criterion	Summary of Response
i. is important in defining, maintaining or supporting the character of an area,	No; as a mid-to-late 20th century commercial addition to a rural setting, the property is not important in defining, maintaining, or supporting the character of the area.
ii. is physically, functionally, visually or historically linked to its surroundings, or	No; while the structure is connected to the surrounding area through services provided, it is not physically, functionally, visually, or historically linked to its surroundings such as it meets this criterion.
iii. is a landmark.	No; as a relatively modest commercial development in a rural setting, the property is not a visual landmark, and is not currently known or believed to meet this criterion as a community landmark.

Table 9: Contextual value

Potential Cultural Heritage Value: As a mid-to-late 20th century commercial structure, the property is not likely to hold significant cultural heritage value or interest.

Sources: Walker & Miles 1877; Bolton, Ontario [ed. 1] 1914 National Topographic Survey; Town of Caledon 2014; 1954 Air Photos of Southern Ontario; 2001-2020 Aerial Photos Town of Caledon

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Garage – South Elevation

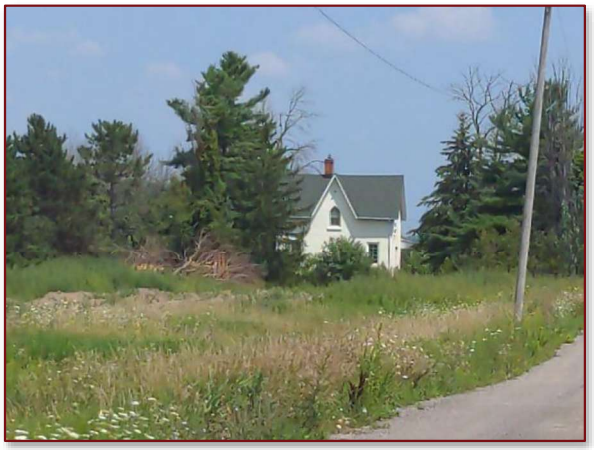


Garage – Side lot



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14291 Peel Regional Road 50



Secondary Address(es): 14291 Highway 50

Designation/Listing Status: Listed on the Town of Caledon Heritage Register

Date of Construction: 1877-1900

Typology: Residence Formerly Part of a Farmstead Complex

Description: This property is located on Peel Regional Road 50, north of Columbia Way. The property consists of a one-and-a-half-storey, framed farmhouse, with multiple smaller outbuildings. This cottage has Gothic Revival influences which are most evident through the peaked gable disrupting an otherwise side gabled house form and a pointed arch window in this gable. A red brick chimney is located off-centre along the roof ridge.

A rear addition was added and all or part of it may date fairly early. This addition appears to have nearly tripled the floorspace of this residence. Part of the addition features a roofline that is perpendicular to the original cottage form and contains two dormers on the eastern portion of the roof. The orientation of the residence appears to have changed as a walkway appears to lead to a side entrance to the addition. An outbuilding with a hipped roof is located to the northwest of the residence while hardscaping leads into part of the rear yard suggesting that part of the addition contains a garage. A long front-gabled structure and a shed are located to the northeast of the residence. An open yard is situated to the northwest of these structures.

The residence is setback approximately 240 m from the road and is partial covered with vegetation including trees in front of and to the right and left of the cottage portion of the residence. A gravel laneway follows the eastern boundary of the property off of Peel Regional Road 50. The farm complex property consists of the complex itself and the roadway leading to it, as well as the surrounding agricultural fields. The property, which is narrow, is flanked by 14337 Peel Regional Road 50 to the west and 14289 Peel Regional Road 50 to the east. A buffer of underutilized land divides the property from agricultural land to the north.

Historical Associations: The farmstead complex is located on the northwestern quarter of Lot 12, Concession 7, Geographic Township of Albion, which was likely first occupied in the mid-19th century by John Long. The current farmstead complex was likely constructed by Henry A. Rutherford who purchased the property in 1883. The current farmhouse structure was likely constructed between 1877 and 1900 based on

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construction methods and was likely constructed by Henry Rutherford when he took over the property in the 1880s, replacing an earlier farmhouse structure which appeared on the 1877 Walker & Miles atlas. The structure first appears on the 1914 topographic map as a brick structure. In 1891, Rutherford sold the property to Isaac Hudson who gifted it to Harris R. Hudson in 1904. The younger Hudson sold the property to Henry and James Harris in 1921. The Harpers owned the property until 1968 when they sold it to Brightvale Construction Limited. That same year, Brightvale severed the residential portions of the property from the agricultural portions to form the current lot fabric.

The property has design value or physical value because it:

Criterion	Summary of Response
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method,	Yes, this house is a modest example of the Gothic Revival-style Ontario Cottage of the late 19th century.
ii. displays a high degree of craftsmanship or artistic merit, or	No; while the property is representative of the Gothic Style, it is a modest example.
iii. demonstrates a high degree of technical or scientific achievement.	No; while the property is representative of a mid-to-late 19th century farmstead, it does not demonstrate a high degree of technical or scientific achievement relative to what is typical for this typology.

Table 10: Design or physical value

The property has historical value or associative value because it:

Criterion	Summary of Response
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,	No; while the property is representative of a continuation of agricultural settlement patterns in Albion Township, it does not have known direct associations with a particular historically significant element of a community.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or	No; the property is not likely to yield information that contributes to an understanding of a community or culture.
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community.	No; the property is not known to demonstrate the work or ideas of an architect, builder, designer or theorist who is significant to a community.

Table 11: Historical or associative value

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The property has contextual value because it:

Criterion	Summary of Response
i. is important in defining, maintaining or supporting the character of an area,	Yes; the combination of the 19th century residence, laneway, and associated vegetation have been identified by the Town of Caledon as contributing to the heritage character of the area.
ii. is physically, functionally, visually or historically linked to its surroundings, or	Yes; the property is historically linked to its surroundings, notably 14328 Regional Road 50 across the highway. However, recent developments near the property, in additional to vegetation on the property, have increasingly physically and visually isolated it from its former 19th century rural agricultural setting. The structures on the property are also functionally detached, no longer servicing adjacent agricultural fields.
iii. is a landmark.	No; as a relatively modest farmstead complex in a rural setting, the property is not a visual landmark, and is not currently known or believed to meet this criterion as a community landmark.

Table 12: Contextual value

Potential Cultural Heritage Value: Cultural heritage value has been identified by the local municipality as the property is listed on the Heritage Register.

The residence at 14291 Peel Regional Road 50 is a representative example of vernacular Gothic Revival-influenced architecture in a functional agricultural setting. This structure compliments nearby 19th century farmsteads by contributing to the historical and architectural evolution of agricultural properties north of Bolton. It is a surviving example of 19th century residential development on a farmstead in this area.

Potential architectural cultural heritage attributes include:

- One-and-a-half-storey stuccoed Gothic Revival/Ontario Cottage-style form with peaked gable disrupting an otherwise side gabled house form;
- a pointed arch window located in the gable;
- a red brick along the roof ridge;
- possible early addition; and,
- setback from Regional Road 50 with characteristic laneway.

Sources: Walker & Miles 1877; Bolton, Ontario [ed. 1] 1914 National Topographic Survey; Town of Caledon 2014

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Southeast Elevation



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14337 Peel Regional Road 50



Secondary Address(es): 14337 Highway 50

Designation/Listing Status: None

Date of Construction: 1954-1980 (residential property at rear); Garden Centre (1980-2001)

Typology: Commercial – Garden Centre

Description: This property faces Peel Regional Road 50 and lies north of Columbia Way. The property consists of three greenhouses at the front of the building which are parallel to the highway, as well as two perpendicular greenhouses located behind. A one-storey red brick ranch-style house is located at the rear of the property and is connected by a laneway. It features a low hipped roof, brick chimney, and various fenestration on the front façade. The property is located to the northwest of 14289 Peel Regional Road 50 and is surrounded by agricultural fields to the west, north, and northeast.

Historical Associations: The property lies in the northwestern quarter of Lot 12, Concession 7, Geographic Township of Albion, which was likely first occupied in the mid-19th century by John Long. The parcel was occupied by a number of tenants until being sold to Brightvale Construction Limited in 1968. That same year, Brightvale severed the original residential portions of the property, now at 14291 Peel Regional Road 50, from the agricultural portions to form the current lot fabric.

The property has design value or physical value because it:

Criterion	Summary of Response
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method,	No; this property does not appear to have any distinct style which is rare, unique, representative, or early.
ii. displays a high degree of craftsmanship or artistic merit, or	No; the property does not display a high degree of craftsmanship or artistic merit.
iii. demonstrates a high degree of technical or scientific achievement.	No; the property does not demonstrate a high degree of technical or scientific achievement relative to what is typical for this typology.

Table 13: Design or physical value

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The property has historical value or associative value because it:

Criterion	Summary of Response
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,	No; while the property is representative of a continuation of settlement patterns in Albion Township, it is not an early example and many other examples exist in Ontario.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or	No; the property is not likely to yield information that contributes to an understanding of a community or culture.
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community	No; the property is not known to demonstrate the work or ideas of an architect, builder, designer or theorist who is significant to a community.

Table 14: Historical or associative value

The property has contextual value because it:

Criterion	Summary of Response
i. is important in defining, maintaining or supporting the character of an area,	No; as a mid-to-late 20th century residential and commercial addition to a rural setting, the property is not important in defining, maintaining, or supporting the character of the area.
ii. is physically, functionally, visually or historically linked to its surroundings, or	No; while the structure is connected to the surrounding area through services provided, it is not physically, functionally, visually, or historically linked to its surroundings such as it meets this criterion.
iii. is a landmark.	No; as a relatively modest garden center, the property is not a visual landmark, and is not currently known or believed to meet this criterion as a community landmark.

Table 15: Contextual value

Potential Cultural Heritage Value: As a mid-to-late 20th century residence with a late-20th century commercial garden center, the property is not likely to hold significant cultural heritage value or interest.

Sources: Walker & Miles 1877; Bolton, Ontario [ed. 1] 1914 National Topographic Survey; Town of Caledon 2014; 1954 Air Photos of Southern Ontario; 2001-2020 Aerial Photos Town of Caledon

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Residence – Southwest Elevation



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14442 Peel Regional Road 50



Secondary Address(es): 14442 Highway 50

Designation/Listing Status: None

Date of Construction: 1960s-1970s (site); Buildings (late 20th century)

Typology: Industrial Site

Description:

This industrial property is located on Peel Regional Road 50 and stretches along the south side of the highway for approximately 530 m.

The main structures are two industrial buildings located along the east end of the property. The easternmost structure is a composed of concrete. It is evident that two sections comprise this structure with one of them likely a later addition. Two garage doors are located on the western half of the building with matching garage doors aligned on the south façade. There are also four narrow vertical windows and an entry door located to the right of the garage doors. Similarly, the eastern half of the front façade features five narrow vertical windows. Metal flashing lines the roofline.

The second structure, located to the west of the first, is two storeys tall and is composed mainly of brick. Windows on each storey are evenly placed and the building is divided into six bays. An off-centre bay features a recessed entry on the ground floor and a cantilevered upper storey with picture windows and a gable that disrupts the otherwise flat roof of this structure.

A third, diamond-shaped two storey brick building is located further west on the property. The majority of the property is used to refine, store, and load aggregate. This is evident through the numerous conveyor systems, concrete bays filled with aggregate and numerous dump trucks and semi-transport vehicles. A retaining wall appears to line part of the southeast of the property.

Historical Associations: The patent for the eastern half of Lot 13, Concession 6, Geographic Township of Albion, (partially in the Study Area) was granted by the Crown to John Collins in 1823. After a series of transactions, the eastern half was purchased by John Harper in 1836. The lot was then sold to Thomas Harper in 1846, although the 1859 atlas identifies Henry Harper as the occupant. The parcel was formally sold to Henry Harper in 1861.

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The parcel remained in the Harper family until 1907, when Jane Harper sold the parcel to David Wilson. In 1933, David Wilson sold the parcel to Henry Wilson. Twenty years later, in 1953, the Wilson family sold the parcel to Harry P. LaPlante, who in turn sold the property to LaPlante Stock Farms. The western half of the parcel was acquired by the Metropolitan and Region Conservation Authority in 1961. The remaining passed through a series of short-term owners until portions were subdivided to form the current fabric in the 1960s. One portion was leased to a numbered company identified as Albion Ready Mix in 1977 likely indicating the beginnings of the current industry. The original Harper homestead was demolished between 1980 and 2001.

The property has design value or physical value because it:

Criterion	Summary of Response
i. is a rare, unique, representative, or early example of a style, type, expression, material or construction method,	No; this property does not appear to have any distinct style which is rare, unique, representative, or early.
ii. displays a high degree of craftsmanship or artistic merit, or	No; the property does not display a high degree of craftsmanship or artistic merit.
iii. demonstrates a high degree of technical or scientific achievement.	No; the property does not demonstrate a high degree of technical or scientific achievement relative to what is typical for this typology.

Table 16: Design or physical value

The property has historical value or associative value because it:

Criterion	Summary of Response
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,	No; the property has no direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or	No; the property is not likely to yield information that contributes to an understanding of a community or culture.
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community	No; the property is not known to demonstrate the work or ideas of an architect, builder, designer or theorist who is significant to a community.

Table 17: Historical or associative value

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The property has contextual value because it:

Criterion	Summary of Response
i. is important in defining, maintaining or supporting the character of an area,	No; as a late 20th century industrial and commercial development in a rural setting, the property is not important in defining, maintaining, or supporting the character of the area.
ii. is physically, functionally, visually or historically linked to its surroundings, or	No; the property is not physically, functionally, visually, or historically linked to its surroundings such as it meets this criterion.
iii. is a landmark.	No; as a recent industrial development in a rural setting, the property is not a visual landmark, and is not currently known or believed to meet this criterion as a community landmark.

Table 18: Contextual value

Potential Cultural Heritage Value: As a late-20th century industrial and commercial development in a rural landscape, the property is not likely to hold significant cultural heritage value or interest.

Sources: Walker & Miles 1877; Bolton, Ontario [ed. 1] 1914 National Topographic Survey; Town of Caledon 2014; 2001-2020 Aerial Photos Town of Caledon

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14445 Peel Regional Road 50



Secondary Address(es): 14445 Highway 50

Designation/Listing Status: None

Date of Construction: c.1954-1980; Gas bar updated in 2007

Typology: Commercial – Gas station with affiliated structures

Description: The property faces Peel Regional Road 50, to the south of the Peel Regional Road 50/Emil Kolb Parkway roundabout. It contains a modern Esso gas station with an associated one-and-a-half-storey, red brick, convenience store/garage and a detached cast concrete garage. The convenience store structure had a cross-gable form with a steep roofline perpendicular to Highway 50. Two glazed garage doors are present on the east façade, as are two entry doors and two windows. Small windows adorn all three gables. A deck is located at the rear above a flat roof portion of the first storey. The red brick appears to be a veneer and concrete masonry units likely provide structural support. This property is located southeast of 14475 Peel Regional Road 50.

Historical Associations: The property is part of the western half of Lot 13, Concession 7, Geographic Township of Albion, which was likely first occupied in the mid-19th century by Henry Bolton. In 1873, Henry Harper purchased the lot and the Harper family continued to own the property well into the 20th century. The current Esso station and affiliated structures occupy a parcel of the western half which was sold to a Westney Matson in 1949, who then leased the property to the Supertest Petroleum Corp. Limited in 1950. The 1954 aerial photograph does not display any structures on the property, indicating the current structures were constructed between 1954 and 1985 based on Google Earth aerial photography. The gas bar was updated to its current form in 2007.

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The property has design value or physical value because it:

Criterion	Summary of Response
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method,	No; while the property is an example of a common gas bar in a rural setting, it is neither early nor representative. The original mid-century gas bar was replaced in the late 2000s.
ii. displays a high degree of craftsmanship or artistic merit, or	No; the property does not display a high degree of craftsmanship or artistic merit.
iii. demonstrates a high degree of technical or scientific achievement.	No; the property it does not demonstrate a high degree of technical or scientific achievement relative to what is typical for this typology.

Table 19: Design or physical value

The property has historical value or associative value because it:

Criterion	Summary of Response
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,	No; the property is not known to have direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or	No; the property is not known to yield information that contributes to an understanding of a community or culture.
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community	No; the property is not known to demonstrate the work or ideas of an architect, builder, designer or theorist who is significant to a community.

Table 20: Historical or associative value

The property has contextual value because it:

Criterion	Summary of Response
i. is important in defining, maintaining or supporting the character of an area,	No; as a mid-to-late 20th century gas bar in a rural setting, the property is not important in defining, maintaining, or supporting the character of the area.
ii. is physically, functionally, visually or historically linked to its surroundings, or	No; while the structure is connected to the surrounding area through services provided, it is not physically, functionally, visually or historically linked to its surroundings such as it meets this criterion.
iii. is a landmark.	No; the property is not a visual landmark, and is not currently known or believed to meet this criterion as a community landmark.

Table 21: Contextual value

Potential Cultural Heritage Value: As a mid-to-late 20th century rural gas bar with contemporary updates, the property is not likely to hold significant cultural heritage value or interest.

Sources: Walker & Miles 1877; Bolton, Ontario [ed. 1] 1914 National Topographic Survey; Town of Caledon 2014; 1954 Air Photos of Southern Ontario; 2001-2020 Aerial Photos Town of Caledon

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Garage – Northeast Elevation



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14475 Peel Regional Road 50



Secondary Address(es): 14475 Highway 50

Designation/Listing Status: Listed on the Town of Caledon Heritage Register

Date of Construction: c.1877-1887

Typology: Farmstead Complex

Description: This property is located on Peel Regional Road 50, south of the Regional Road 50/Emil Kolb Parkway roundabout. The property consists of a two-storey, vernacular farmhouse, a large relic barn with abandoned silo and two smaller outbuildings. The farmhouse has a cross-gable L-shaped plan. On the front façade it features a fixed window on the first storey with a transom light above as well as two, two-over-one sash windows on the second storey. An entry door is located on the southeast part of the front façade. The east façade has window openings. A red brick chimney is located on the roof ridge at the east end of the building. The farmhouse is surrounded by some vegetation, including trees and tall grass, on the south and west sides. The barn and outbuildings are located to the north of the farmhouse. A clearing is located to the east, on the other side of the laneway from Peel Regional Road 50. The farm complex is surrounded by agricultural fields to the west, north, and south. This property is located northwest of 14445 Peel Regional Road 50.

Historical Associations: The farmstead complex is located on the western half of Lot 13, Concession 7, Geographic Township of Albion, which was likely first occupied in the mid-19th century by Henry Bolton. In 1873, Henry Harper purchased the lot and the Harper family continued to own the lot well into the 20th century. A structure, either the farmhouse or an original barn, was present on the 1877 historic atlas. The residence was likely constructed by Henry Harper for his son Alfred T. Harper who was granted this portion of the property in 1887. Subsequent renovations in the late-19th and early 20th century make identifying a firm date for the structure difficult. Henry Harper's primary residence was located on the opposite side of Highway 50 near the current roundabout.

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The property has design value or physical value because it:

Criterion	Summary of Response
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method,	No; this house does not appear to have any distinct style which is rare, unique, representative or early.
ii. displays a high degree of craftsmanship or artistic merit, or	No; the property does not display a high degree of craftsmanship or artistic merit.
iii. demonstrates a high degree of technical or scientific achievement.	No; while the property is representative of a late 19th century farmstead complex, it does not demonstrate a high degree of technical or scientific achievement relative to what is typical for this typology.

Table 22: Design or physical value

The property has historical value or associative value because it:

Criterion	Summary of Response
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,	No; while the property is representative of a continuation of agricultural settlement patterns in Albion Township, it is not an early example and other representative examples exist – specifically the property at 14328 Regional Road 50. The Town of Caledon Heritage Register mentions large, local landowner Henry Harper's association with property, although the residence is more likely associated with his son Alfred T. Harper. Larger landowners, particularly those who relied on and eventually granted property to family members were not uncommon in this area.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or	No; the property is not likely to yield information that contributes to an understanding of a community or culture.
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community	No; the property is not known to demonstrate the work or ideas of an architect, builder, designer or theorist who is significant to a community.

Table 23: Historical or associative value

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The property has contextual value because it:

Criterion	Summary of Response
i. is important in defining, maintaining or supporting the character of an area,	No; although a formerly contributing part of the c. 19th century agricultural landscape of the area, recent developments including the gas station and the commercial and industrial developments across the highway have increasingly isolated this property and reshaped the character of this stretch of the highway.
ii. is physically, functionally, visually or historically linked to its surroundings, or	No; recent developments in close proximity to the property have increasingly physically and visually isolated it from its former 19th century rural agricultural setting. The structures on the property are also functionally detached, no longer servicing adjacent agricultural fields. Historically, the property would have been linked to the original Harper residence across the highway had that building been retained.
iii. is a landmark.	No; as a relatively modest farmstead complex in a rural setting, the property is not a visual landmark, and is not currently known or believed to meet this criterion as a community landmark.

Table 24: Contextual value

Potential Cultural Heritage Value: Potential cultural heritage value has been identified by the local municipality as the property is listed on the Heritage Register; however, application of 9/06 criteria suggests the property's inherent design and historical values are limited. Contextually, the property is also increasingly detached from its original setting by recent nearby developments.

Sources: Walker & Miles 1877; Bolton, Ontario [ed. 1] 1914 National Topographic Survey; Town of Caledon 2014

TOWN OF CALEDON
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Residence – Southwest Elevation



Barn Complex – Southwest Elevation



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Barn Complex – West Elevation



Barn Complex – West Elevation Details



TOWN OF CALEDON
PLANNING
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14600 Peel Regional Road 50



Secondary Address(es): 14600 Highway 50

Designation/Listing Status: None

Date of Construction: 1954-1980

Typology: Residential

Description:

This property is primarily composed of a residence and garage. The residence is a one-storey ranch-style house form. The roof is mainly hipped but contains a protruding off-centre front section that has a gable and off-centre picture window. An entry door is located at the side of this section. The house is clad in white aluminum or vinyl siding and fenestration on the front façade is applied sparingly with what appears to be square casements. A front-gabled two-door garage with a low roof pitch is located to the southwest of the house and is connected to the roadway by an asphalt driveway that shifts to concrete at the property line. An open yard is located at the rear of the house.

The property borders 14616 Peel Regional Road 50 to the northwest and is located on the southwest corner of the roundabout of Peel Regional Road 50 and the Emil Kolb Parkway. An agricultural field is located to the southwest of the property.

Historical Associations: The property lies in the eastern half of Lot 14, Concession 6, Geographic Township of Albion, which was first likely settled in the mid-19th century by Jonathan Ellis. In 1907 the eastern half was purchased by David Wilson, who sold the property once more in 1928 to Hudson and Zella Wilson. The Wilsons began subdividing the lot in the 1950s, through the 1960s and into the 1970s, selling to a variety of owners and contributing to the current mix of residential and smaller farm lots.

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The property has design value or physical value because it:

Criterion	Summary of Response
i. is a rare, unique, representative or early example of a style, type, expression, material or construction method,	No; this property does not appear to have any distinct style which is rare, unique, representative, or early.
ii. displays a high degree of craftsmanship or artistic merit, or	No; the property does not display a high degree of craftsmanship or artistic merit.
iii. demonstrates a high degree of technical or scientific achievement.	No; the property does not demonstrate a high degree of technical or scientific achievement relative to what is typical for this typology.

Table 25: Design or physical value

The property has historical value or associative value because it:

Criterion	Summary of Response
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,	No; while the property is representative of a continuation of settlement patterns in Albion Township, it is not an early example and many other examples exist in Ontario.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or	No; the property is not likely to yield information that contributes to an understanding of a community or culture.
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community	No; the property is not known to demonstrate the work or ideas of an architect, builder, designer or theorist who is significant to a community.

Table 26: Historical or associative value

The property has contextual value because it:

Criterion	Summary of Response
i. is important in defining, maintaining or supporting the character of an area,	No; as a recent residential addition to a rural setting, the property is not important in defining, maintaining, or supporting the character of the area.
ii. is physically, functionally, visually or historically linked to its surroundings, or	No; as a recent residential addition to a rural setting, the structure is not physically, functionally, visually, or historically linked to its surroundings such as it meets this criterion.
iii. is a landmark.	No; as a relatively modest residence in a rural setting, the property is not a visual landmark, and is not currently known or believed to meet this criterion as a community landmark.

Table 27: Contextual value

Potential Cultural Heritage Value: As a mid-to-late 20th century residential addition to a rural landscape, the property is not likely to hold significant cultural heritage value or interest.

Sources: Walker & Miles 1877; Bolton, Ontario [ed. 1] 1914 National Topographic Survey; Town of Caledon 2014; Google Earth 2020

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14685 Peel Regional Road 50



Secondary Address(es): 14685 Highway 50

Designation/Listing Status: Listed on the Town of Caledon Heritage Register

Date of Construction: 1900-1914

Typology: Farmstead Complex

Description: This property is located on Peel Regional Road 50, north of the Regional Road 50/Emil Kolb Parkway roundabout. The property consists of a two-storey, brick-clad farmhouse, three drive sheds, two silos and multiple smaller outbuildings including an early 20th century milk house. The house has a hipped roof with a hipped dormer on the front facing part of the roof. A transom window adorns the first storey window at left. Stone lintels are located above windows which are flanked by painted wood shutters. A decorative stringcourse is present below the second storey windows distinguishing the second storey from the first. A porch covered with a shed roof is located at the right of the front façade. The porch features decorative millwork and covers an entry door which reveals the side plan of this house. The house has an L-shape form with an addition at the rear. The majority of the agricultural buildings are concentrated to the east of the house which is separated by a long laneway that runs northeast. The farm complex is surrounded by agricultural fields to the west, north, and east.

Historical Associations: The farmstead complex is located on the western half of Lot 14, Concession 7, Geographic Township of Albion, which was likely first occupied in the mid-19th century by Austin Bolton. From 1880 to 1915 Dennis O'Leary was the primary occupant of the parcel, and it was likely during this period in which the current farmstead complex began. The current farmhouse structure was likely constructed between 1900 and 1914 based on construction methods and the 1914 topographic map, replacing an earlier farmhouse structure which appears on the 1877 Walker & Miles atlas.

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The property has design value or physical value because it:

Criterion	Summary of Response
i. is a rare, unique, representative, or early example of a style, type, expression, material or construction method,	Yes; the building has been identified by the Town of Caledon Heritage Register as "the most complete and elaborate surviving expression of the early Edwardian Classical style in the area".
ii. displays a high degree of craftsmanship or artistic merit, or	Yes; this house exhibits elaborate detailing with a band of projecting string courses beneath the upper storey windows, a main entry porch with decorative detailing and coloured transom lights over the main floor windows.
iii. demonstrates a high degree of technical or scientific achievement.	No; while the property is representative of an early 20th century farmstead complex, it does not demonstrate a high degree of technical or scientific achievement relative to what is typical for this typology.

Table 31: Design or physical value

The property has historical value or associative value because it:

Criterion	Summary of Response
i. has direct associations with a theme, event, belief, person, activity, organization or institution that is significant to a community,	No; while the property is representative of a continuation of agricultural settlement patterns in Albion Township, it does not have known direct associations with a particular historically significant element of a community.
ii. yields, or has the potential to yield, information that contributes to an understanding of a community or culture, or	No; the property is not likely to yield information that contributes to an understanding of a community or culture.
iii. demonstrates or reflects the work or ideas of an architect, artist, builder, designer or theorist who is significant to a community	No; the property is not known to demonstrate the work or ideas of an architect, builder, designer, or theorist who is significant to a community.

Table 32: Historical or associative value

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The property has contextual value because it:

Criterion	Summary of Response
i. is important in defining, maintaining or supporting the character of an area,	Yes; as an operating, early 20th century farmstead complex, the property compliments earlier 19th century farmsteads by providing a sense of the evolution of rural architecture in the area. As the Town of Caledon Heritage Register describes it, the property demonstrates "…the prosperity of the agricultural community in this era".
ii. is physically, functionally, visually or historically linked to its surroundings, or	Yes; the property is historically, visually and functionally linked to the surrounding agricultural landscape.
iii. is a landmark.	No; as a relatively modest farmstead complex in a rural setting, the property is not a visual landmark, and is not currently known or believed to meet this criterion as a community landmark.

Table 33: Contextual value

Potential Cultural Heritage Value: Cultural heritage value has been identified by the local municipality as the property is listed on the Heritage Register.

The residence at 14685 Peel Regional Road 50 is a representative example of Edwardian Classical architecture in a functional agricultural setting. This structure compliments nearby 19th century farmsteads by contributing to the historical and architectural evolution of agricultural properties north of Bolton.

Potential architectural cultural heritage attributes include:

- Two-storey red brick Edwardian Classical form with hipped roof and dormer;
- sash windows with stone lintels and sills;
- band of projecting decorative brick stringcourses beneath the upper storey windows;
- main entry porch with decorative millwork detailing; and
- coloured transom lights over the main floor windows.

Sources: Walker & Miles 1877; Bolton, Ontario [ed. 1] 1914 National Topographic Survey; Town of Caledon 2014

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Property Drive and Barn Complex



Barn and Residence – Northeast Elevations



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Appendix D

Town of Caledon By-law 2018-17

THE CORPORATION OF THE TOWN OF CALEDON

BY-LAW NO. 2018-17

A by-law to amend By-law No. 96-31, being a by-law to designate certain properties, including 14121 Duffy's Lane (the Duffy-Murray House), as being of architectural and/or historical value or interest under the *Ontario Heritage Act*

WHEREAS The Corporation of the Town of Caledon By-law 96-31 ("By-law 96-31") designated the Duffy-Murray House, 14121 Duffy's Lane ("the Designated Property"), as being of architectural and/or historical value or interest pursuant to section 29 of the *Ontario Heritage Act* R.S.O. 1990, c.O.18 ("the Act");

AND WHEREAS the owner of the Designated Property has requested that By-law 96-31 be amended for the purpose of clarifying the heritage attributes, as per section 30.1(2)(a) of the Act;

AND WHEREAS pursuant to section 30.1(10) of the Act, amendments to a section 29 designating by-law that predates the 2005 amendments to the Act must include a statement of cultural heritage value or interest and a description of heritage attributes;

AND WHEREAS no notice of objection to the proposed designation of the Property has been served on the Clerk for The Corporation of the Town of Caledon;

NOW THEREFORE the Council of The Corporation of the Town of Caledon hereby ENACTS AS FOLLOWS:

1. That By-law 96-31, be amended by deleting the following text from section 8:

   Reasons for Designation
   This two storey log house has been brick-veneered since approximately 1907. This house was the home of pioneer Elizabeth (Eliza) Duffy and her family. Eliza who died in 1872 was a prominent Wesleyan Methodist in both Ireland and Albion. This designation recognizes the pioneer family aspects of the building and the contribution of the Duffy family to the community.

2. That By-law 96-31, be amended by repealing and replacing Schedule "H" attached to and forming part of this by-law to revise the legal description and include a statement of cultural heritage value or interest and a description of heritage attributes;

3. That a copy of this amending by-law be served upon the owner of the Designated Property and upon the Ontario Heritage Trust;

4. That a copy of this amending by-law to be registered against the Designated Property in the proper Land Registry Office; and

5. This By-law shall come into full force and effect on the day of its passing.

Enacted by the Town of Caledon Council this 20th day of February, 2018

Allan Thompson, Mayor

Amanda Fusco, Deputy Clerk

This photocopy is a true copy of the original
Document which has not been altered in any way.

Dated at the Town of Caledon
this 2nd day of March, 2018

Amanda Fusco, Deputy Clerk

**Amanda Lynn Fusco, a Commissioner, etc.,
Regional Municipality of Peel, while Deputy Clerk of
The Corporation of the Town of Caledon.**

SCHEDULE "H"
Duffy-Murray House

PIN: 14330-0485 (LT) – Part Lot 11, Concession 5 (Albion) as in RO521930; Save and Except Part 1 on Expropriation Plan PR2314096; Town of Caledon, Regional Municipality of Peel.

Statement of Cultural Heritage Value or Interest

The property known municipally as 14121 Duffy's Lane, part Lot 11, Concession 5, Albion Township, contains a circa 1840s, two storey, Georgian style dwelling of squared timber construction and a c.1890s bank barn of timber frame construction.

This property is directly associated with generations of the Irish Duffy family. Widowed matriarch Elizabeth (Eliza) Duffy and her sons, James and Robert, settled on the East Half of Lot 11, Concession 5 Albion Township, in 1832. Eliza acquired clear title to the 100 acre lot in 1845, and it remained in continuous occupation/ownership by her descendants until 1954.

Eliza Duffy was a prominent member of the Wesleyan Methodist community in both her native Ireland and Albion Township. The Duffy farmstead was the site of early local Wesleyan Methodist gatherings before a Methodist church was built in nearby Bolton in 1848. At her death in 1872, Eliza was the oldest member of the Wesleyan Society of Albion.

The dwelling is among a remnant concentration of two storey, squared timber dwellings erected by Irish settlers in Albion Township in the mid-19th century. It is built in a T-plan configuration with a two storey rear addition also of squared log construction. Originally constructed as a two family home, the farmhouse was later converted to a single family residence. In about 1907, a brick veneer was added to all but the back wall of the rear addition. Later 20th century alterations were made to the main floor front façade and other window openings, and the brick was painted.

The barn, located directly north of the dwelling, was built by George Duffy, who took over the farm following the death of his father, James, in 1891.

The Duffy farm was bisected by the Humber River valley, which forced a realignment of a section of the 6th Concession road through the western half of the farm. The farmstead was set close to the east side of this road, which became known as 'Duffy's Lane'. Although a portion of Duffy's Lane has recently been renamed Emil Kolb Parkway, the dwelling remains as physical evidence of the early presence of the Irish family commemorated in the naming of the concession road.

Description of Heritage Attributes

The key heritage attribute of this property is the circa 1840s squared timber farmhouse. The late 19th century barn is not included in this description of attributes.

- Overall form, massing and scale, including the T-plan and 2 storey height
- Orientation of the principal façade to the road
- Medium pitched, gable roof type
- 3-bay front façade, including the rectangular upper storey windows, but not including the 20th century picture window or relocated entrance door

- Exposed squared timbers on the north wall of the rear addition
- Fieldstone foundation
- Placement and size of all original door and window openings, but not the replacement window sashes, frames
- All original windows
- All original window shutters and remnant hardware
- All evidence of the farmhouse's style, form, construction technology and materials dating to and before the c.1907 brick cladding
- Access lane on the south side of the farmhouse
- Mature specimen trees planted in the house yard, where feasible given the health and condition of the trees

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Appendix 2F

Traffic Impact Assessment (TIA)

Traffic Assessment

BOLTON WATER AND WASTEWATER CAPACITY IMPROVEMENTS SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT, PEEL REGION

Paradigm Transportation Solutions Limited

2025-03
220149

ptsl.com

Great Place To Work. Certified NOV 2023 - NOV 2024 CANADA

Project Summary

Project Number:

220149

Date and Version:

2025-03
1.0.0

Client:

GEI Consultants
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905.381.2229
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www.ptsl.com

Traffic Assessment

Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment, Peel Region

<< Original Signed By >>

Joshua de Boer, P.Eng.

Disclaimer

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Executive Summary

Content

Peel Region (the Region) intends to complete a Schedule C Class Environmental Assessment for water and wastewater capacity improvements in the community of Bolton. GEI Consultants (GEI), on behalf of the Region, retained Paradigm Transportation Solutions Limited (Paradigm) to prepare this Traffic Assessment.

The construction of planned water and wastewater infrastructure improvements may have impacts to the existing transportation network. The purpose of this report is to identify and assess potential transportation impacts, if any, resulting from these works and provide recommendation on how to best mitigate potential impacts.

Study Area

Bolton is an unincorporated community in the northern section of Peel. Due to the growth of the community, water and wastewater infrastructure requirements need to be addressed by the Region.

The study area is situated on the northwest side of Bolton, primarily west of Mount Hope Road. There are four main areas constituting the study area:

- Area 1 includes Columbia Way, Mount Hope Road, Emil Kolb Parkway, Duffys Lane and Highway 50 north of Columbia Way.
- Area 2 includes King Street west of Coleraine Drive and Highway 50 south of Columbia Way.
- Area 3 includes Humber Station Road, The Gore Road, Coleraine Drive, Mayfield Road, Healey Road and King Street west of Emil Kolb Parkway.
- Area 4 includes Castlederg Side Road and Humber Station Road.

The focus of this study is on Area 1. This area is currently undergoing residential and commercial expansion and is surrounded mainly by farmland, greenspace and low-density residential land use. Planned works include the installation of water and wastewater infrastructure, as well as the construction of a sanitary pumping station along the east side of Emil Kolb Parkway, approximately 350 metres south of Duffys Lane.

Methodology

The study establishes existing baseline conditions by reviewing technical studies, assessing field observations, and analyzing traffic data. This provides a clear understanding of the existing transportation network, including road configurations, traffic volumes, and vehicle collisions. Future conditions are then projected based on anticipated growth and planned infrastructure developments.

The study also assesses the impacts of construction on the transportation network, focusing on potential road closures, detours, and temporary changes in traffic flow. Vehicle access for the proposed sanitary pumping station is reviewed, with recommendations provided accordingly.

Conclusions

Based on the investigations carried out, it is concluded that:

Existing Conditions:

- The highest traffic volumes were recorded on Highway 50, followed by Emil Kolb Parkway, highlighting their key roles in the area's transportation network.
- The highest number of collisions were recorded at the roundabouts on Emil Kolb Parkway at King Street and Highway 50, with all incidents classified as property damage only (PDO).
- There are two transit routes operating in the study area that provide local and inter-regional travel opportunities.
- Active transportation facilities in the study area include a multi-use path (MUP) along Columbia Way and a multi-use trail (MUT) along Emil Kolb Parkway.

Future Conditions:

- Traffic volumes are anticipated to grow at current pace, which is manageable through existing road infrastructure and Region plans.
- Through this study, no major road network improvements are planned for the study area.
- The planned works related to this study are not expected to impact future transportation conditions to any significant extent.
- The construction of a sanitary pumping station, scheduled to be completed by 2029, will have site access via a private driveway

connection to Emil Kolb Parkway. This access is not expected to impact transportation conditions to any significant extent.

Construction Conditions:

- Construction activities will generate additional temporary truck traffic, with a maximum of 34 trucks per hour, particularly in off-peak hours between 1:00 AM and 3:00 AM.
- Approximately 27 trucks per hour are anticipated during the AM peak hour (one hour between 7:00 AM and 9:00 AM). In the PM peak hour (one hour between 4:00 PM and 6:00 PM) truck volumes are expected to range between 11 and 16 trucks per hour.
- Due to off-peak scheduling and the distribution of traffic across the entire study area, the temporary traffic disruptions are not expected to be significant relative to typical construction works.
- No lane closures are planned for the majority of the proposed works. Due to the narrow right-of-way width along Mount Hope Road, temporary segmented closures may be required during construction activity. Trenchless construction techniques will minimize impacts at the roundabouts.
- Detailed traffic management plans will be developed to ensure safe and appropriate traffic flow during construction.

Sanitary Pumping Station Access Review:

- A review of the site access location for the Sanitary Pumping Station indicates adequate corner clearance, access spacing, throat length, access alignment and sight distance at the intersection of proposed driveway and Emil Kolb Parkway.
- A raised concrete centre median island is recommended to be installed on Emily Kolb Parkway at the site access. The purpose of the island would be to eliminate left turn vehicle conflicts and dwelling of southbound vehicles in the single through lane along the curve at Emil Kolb Parkway. It will also reduce the likelihood of head-on and sideswipe collisions, as per TAC GDGCR guidelines, by clearly delineating lanes and preventing vehicles from straying into opposing lanes.
- No auxiliary turn lanes are warranted due to the low traffic volumes generated by the site.
- A northbound acceleration lane is not required based on forecast traffic volumes. However, this lane can be considered given the grade of Emil Kolb Parkway at the site access.

- Signage and pavement markings are recommended as they relate to the new site access for the pumping station.

Recommendations

Based on the study results, it is recommended that:

- No traffic capacity upgrades on the public road network be pursued based on the infrastructure upgrades planned through the EA.
- Full vehicle access in both directions be maintained during construction works.
- A raised concrete centre median island be installed on Emil Kolb Parkway at the access to sanitary pumping station.
- The need for an acceleration lane at the sanitary pumping station access be considered.
- A Wa-113A intersection warning sign and a Wa-118t hidden intersection tab sign be considered for Emil Kolb Parkway, 265 metres south of the planned sanitary pumping station driveway.
- Traffic management plans be developed in collaboration with local traffic authorities and municipal stakeholders.

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1 Introduction

1.1 Overview

Peel Region (the Region) intends to complete a Schedule C Class Environmental Assessment for water and wastewater capacity improvements in the community of Bolton. GEI Consultants (GEI), on behalf of the Region, retained Paradigm Transportation Solutions Limited (Paradigm) to prepare this Transportation Assessment.

The construction of planned water and wastewater infrastructure improvements may have impacts to the existing transportation network. The purpose of this report is to identify and assess potential transportation impacts and provide recommendation on how to best mitigate potential impacts.

Bolton is an unincorporated community in the northern section of Peel. Due to the growth of the community, water and wastewater infrastructure requirements need to be addressed by the Region. A new sanitary pumping station is planned to be constructed approximately 350 metres south of Duffys Lane, along the east side of Emil Kolb Parkway.

The study area is situated on the northwest side of Bolton, primarily west of Mount Hope Road. There are four main areas constituting the study area:

- Area 1 includes Columbia Way, Mount Hope Road, Emil Kolb Parkway, Duffys Lane and Highway 50 north of Columbia Way.
- Area 2 includes King Street west of Coleraine Drive and Highway 50 south of Columbia Way.
- Area 3 includes Humber Station Road, The Gore Road, Coleraine Drive, Mayfield Road, Healey Road and King Street west of Emil Kolb Parkway.
- Area 4 includes Castlederg Side Road and Humber Station Road.

The focus of this study is on Area 1. This area is currently undergoing residential and commercial expansion and is surrounded mainly by farmland, greenspace and low-density residential land use. Planned works include the installation of water and wastewater infrastructure, as well as the construction of a sanitary pumping station along the east side of Emil Kolb Parkway, approximately 350 metres south of Duffys Lane. **Figure 1.1** illustrates the location of the study area.

1.2 Purpose and Scope

The purpose of this study is to identify and assess potential transportation impacts, if any, resulting from the construction of planned water and wastewater infrastructure improvements and provide recommendations on how to best mitigate these potential impacts.

The scope of this study has been developed in consultation with Peel Region. The scope of this study includes:

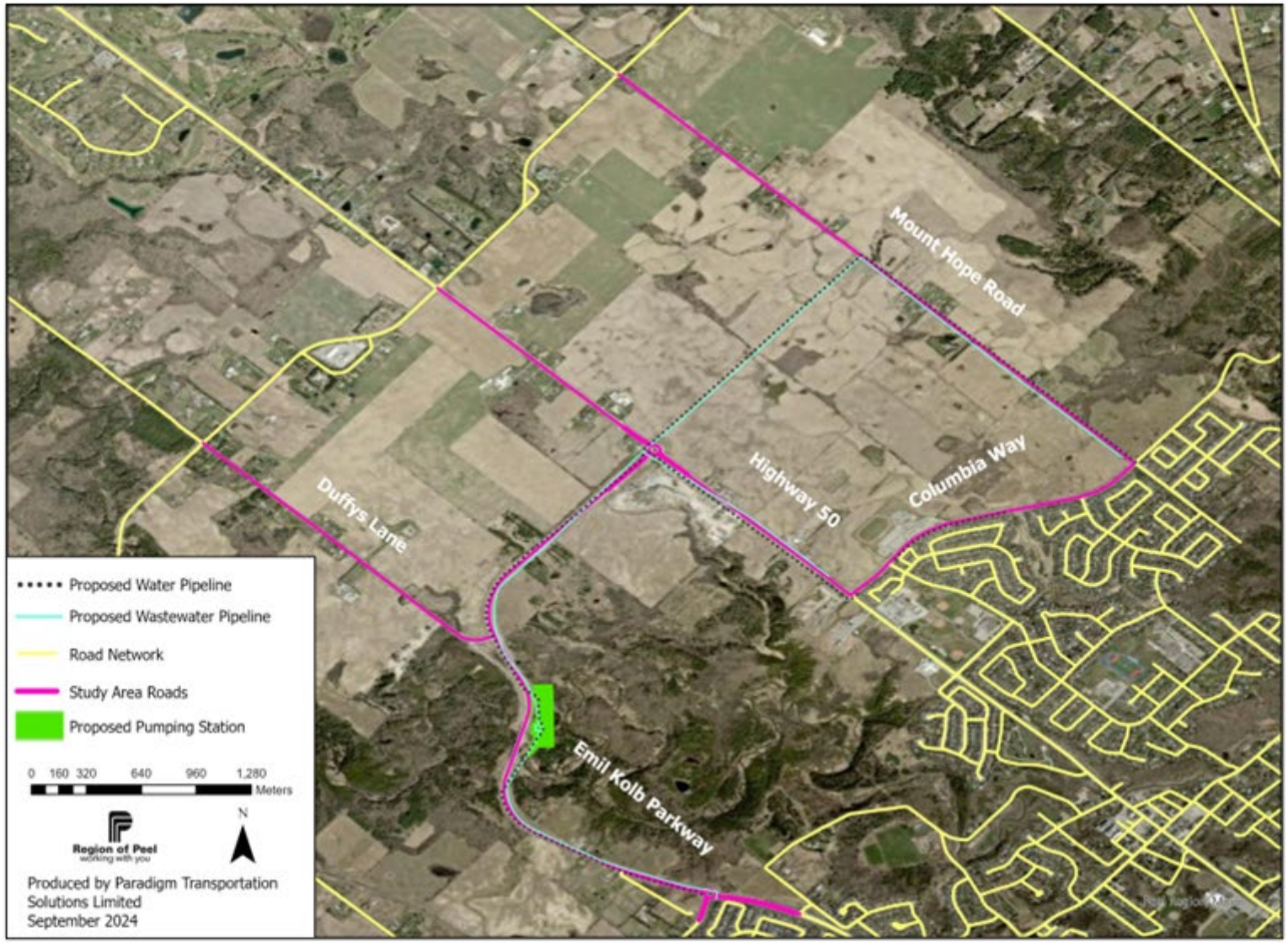
- A qualitative analysis of existing transportation conditions;
- A qualitative analysis of future transportation conditions;
- A review of public road access for the new sanitary pumping station; and
- A qualitative analysis of construction conditions.

Appendix A contains the pre-study consultation material.

1.3 Report Structure

This report is organized as follows:

- **Section 2** documents the existing road network as well as the existing transportation conditions including road configurations, traffic volumes and vehicle collision data;
- **Section 3** documents future transportation conditions based on anticipated growth and planned infrastructure developments, including the works expected through this EA;
- **Section 4** assesses vehicle access for the proposed sanitary pumping station, with focus on the access location, alignment, auxiliary lane requirements, and other safety features;
- **Section 5** analyzes the impacts of construction on the transportation network, focusing on potential temporary changes to traffic flow; and
- **Section 6** outlines key conclusions and recommendations from the study.



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Study Area Location

Bolton EA Traffic Assessment
220149

Figure 1.1

2 Existing Conditions

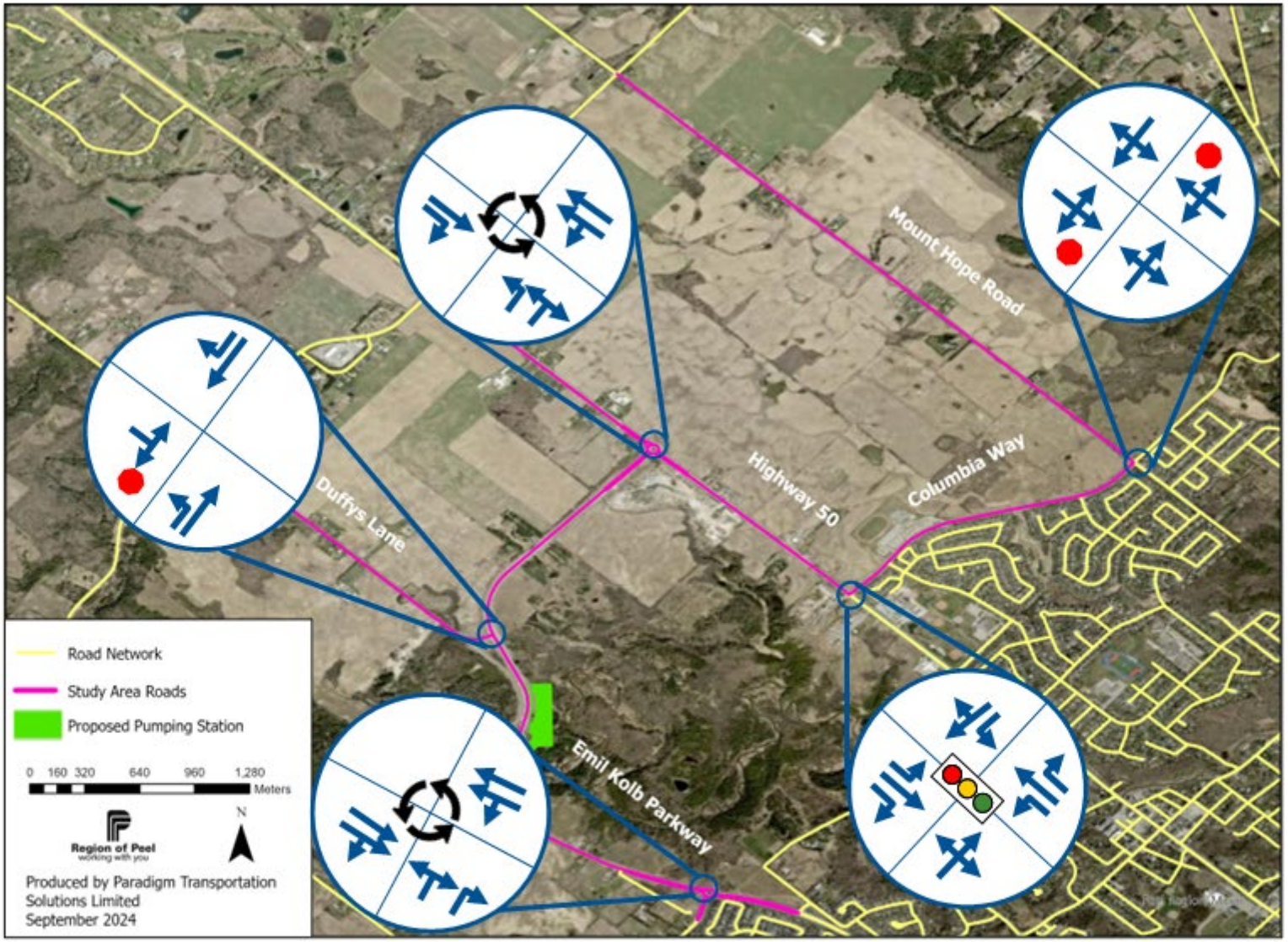
2.1 Roadways

- **Emil Kolb Parkway** is a north-south (predominantly), two-lane arterial road with one travel lane per direction.[1] The road has four lanes with two travel lanes per direction south of King Street intersection. The posted speed limit is 70 km/h in the study area and this road operates under the jurisdiction of Peel Region;
- **King Street** is an east-west, arterial road with one travel lane per direction in the study area. The speed limit is 50 km/h in the study area. The road operates under the jurisdiction of Peel Region;
- **Duffys Lane** is a north-south, two-lane collector road with one travel lane per direction in the study area. The speed limit is 50 km/h in the study area. The road is under the jurisdiction of Town of Caledon;
- **Mount Hope Road** is a north-south, two-lane arterial road with one travel lane per direction in the study area. The posted speed limit is 60 km/h in the study area. The road is under the jurisdiction of the Town of Caledon;
- **Columbia Way** is an east west two-lane collector road with one travel lane per direction in the study area. The posted speed limit is 60 km/h in the study area. The road is under the jurisdiction of the Town of Caledon;[2] and
- **Highway 50** is a four-lane arterial road with two travel lanes per direction in the study area.**Error! Bookmark not defined.** The posted speed limit within the study area is 50 km/h south of Columbia Way, increasing to 60 km/h north of Columbia Way. The road is under the jurisdiction of the Peel Region.

Figure 2.1 illustrates the existing lane configuration and traffic control device at the study intersections. Detailed discussion regarding active transportation infrastructure is provided in **Section 2.3**.

[1] Peel Region. *Peel Regional Roads*, 2024. Available at: https://peelregion.ca/transportation-roads/road-maintenance/peel-regional-roads?gad_source=1&gclid=EAIaIQobChMIv7K3wp2KigMVAEx_AB3FmQFrEAAYASAAEgJvsvD_BwE.

[2] Town of Caledon, *Columbia Way Environmental Assessment (EA) Study (Highway 50 to Caledon King Townline),* 2021.



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Existing Lane Configurations and Traffic Control

2.2 Transit Network

Brampton Transit and GO Transit operate one bus route each within the study area.

- Brampton Transit operates Route 41 between the Züm Queen Station Stop Westbound and Caledon Recreation Centre. Routes 41 operates under a contract with the Town of Caledon. This service operates predominantly in the north-south direction along Highway 50. The route operates on weekdays with a headway of approximately 110 minutes.[3]
- GO Transit operates Route 38 between Malton GO Station and Highway 50 predominantly in the north-south direction. The route operates on weekdays with a headway of approximately 60 minutes.[4]

Figure 2.2 and **Figure 2.3** illustrate the Brampton Transit and GO Transit network within the study area.

These bus routes form an integral component of the transit network that serve the community of Bolton. Within the study area, two key bus stops facilitate convenient access to public transit. The first stop is located on Highway 50, southeast of the study area. The second bus stop is situated on the north side of Bond Street East, with a walking distance of approximately 100 metres from the study area. These bus stops contribute to the accessibility and connectivity of the study area, providing efficient transit options.

In summary, the two transit routes operating in the study area provide local and inter-regional travel opportunities.

[3] Brampton Transit, *Schedules and Maps*, 2024. Available at: https://www.brampton.ca/EN/residents/transit/plan-your-trip/Pages/Schedules-and-Maps.aspx

[4] Moovit App, 38 Bus Schedule, 2024. Available at: https://moovitapp.com/index/en/public_transit-line-38-Toronto_ON-143-1595-314042-1



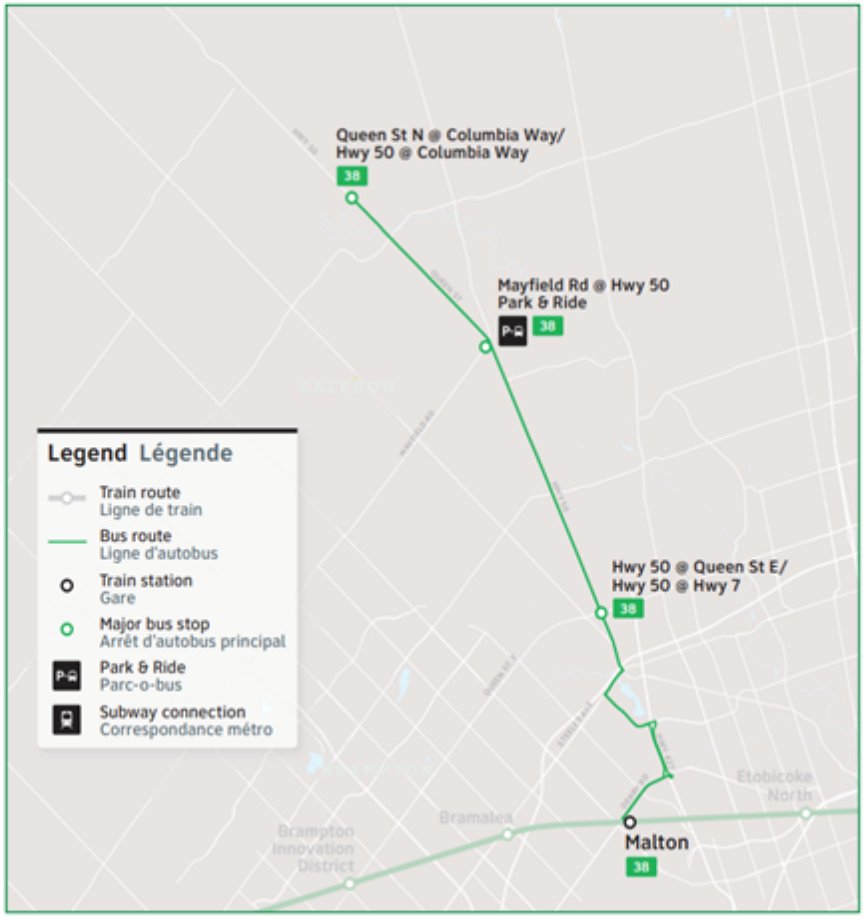
Brampton Transit – Route 41 Map

Bolton EA Traffic Assessment
220149

Figure 2.2

38 Route number
Nombre d'itinéraire

Bolton/Malton



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Inclut la train GO Kitchener

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24 JUNE JUIN 2023

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GO Transit – Route 38 Map

2.3 Active Transportation

2.3.1 Walking

Sidewalks are provided on at least one side of some study area roads. Exceptions include Duffys Lane, Mount Hope Road, Highway 50 north of Columbia Way and sections of Emil Kolb Parkway where sidewalks are not present. All signalized intersections provide delineated crosswalk pavement markings and pedestrian signal heads. There are curb depressions with curb cuts at pedestrian crossings to accommodate accessibility for individuals with mobility challenges. Pedestrian crossings are also present at the roundabout intersections but absent from most side street crossings.

Figure 2.4 depicts the Town's network of designated walking routes, as illustrated in the 2024 Town of Caledon *Active Transportation Master Plan*.[5] The Town is committed to promoting active lifestyle opportunities and choices for residents, visitors and employees across Caledon.

Peel Region *Sustainable Transportation Strategy* outlines a goal of a 50% sustainable mode share by 2041 from the current 37% share.[6] Bolton is identified as a 'Rural Service Centre' with a potential to implement walking and pedestrian infrastructure.

The majority of traffic signals within the study area operate under actuated-coordinated control. Pedestrian push buttons are provided at required intersections to actuate side street pedestrian phases and accessible pedestrian signals (APS) assistance.

A multi-use pathway (MUP) is present on the south side of Columbia Way between Highway 50 and Forest Gate Avenue. The path is approximately 3.0 metres wide, and it has raised barrier curb and a grass boulevard buffering it from the roadway.[7] The MUP is designed for cycling and pedestrian use, offering a safe dedicated space separate from vehicle traffic. The MUP encourages active transportation, promoting walking and cycling as viable modes of travel within the area.

5 Town of Caledon, *Active Transportation Master Plan*, 2024.
6 Peel Region, *Sustainable Transportation Strategy*, 2018.
7 Town of Caledon, *Columbia Way Environmental Assessment Transportation and Traffic Study Report,* 2021.

2.3.2 Cycling

Dedicated cycling lanes are not currently provided on any study area roads, requiring cyclists and other road users to share the road space**.**

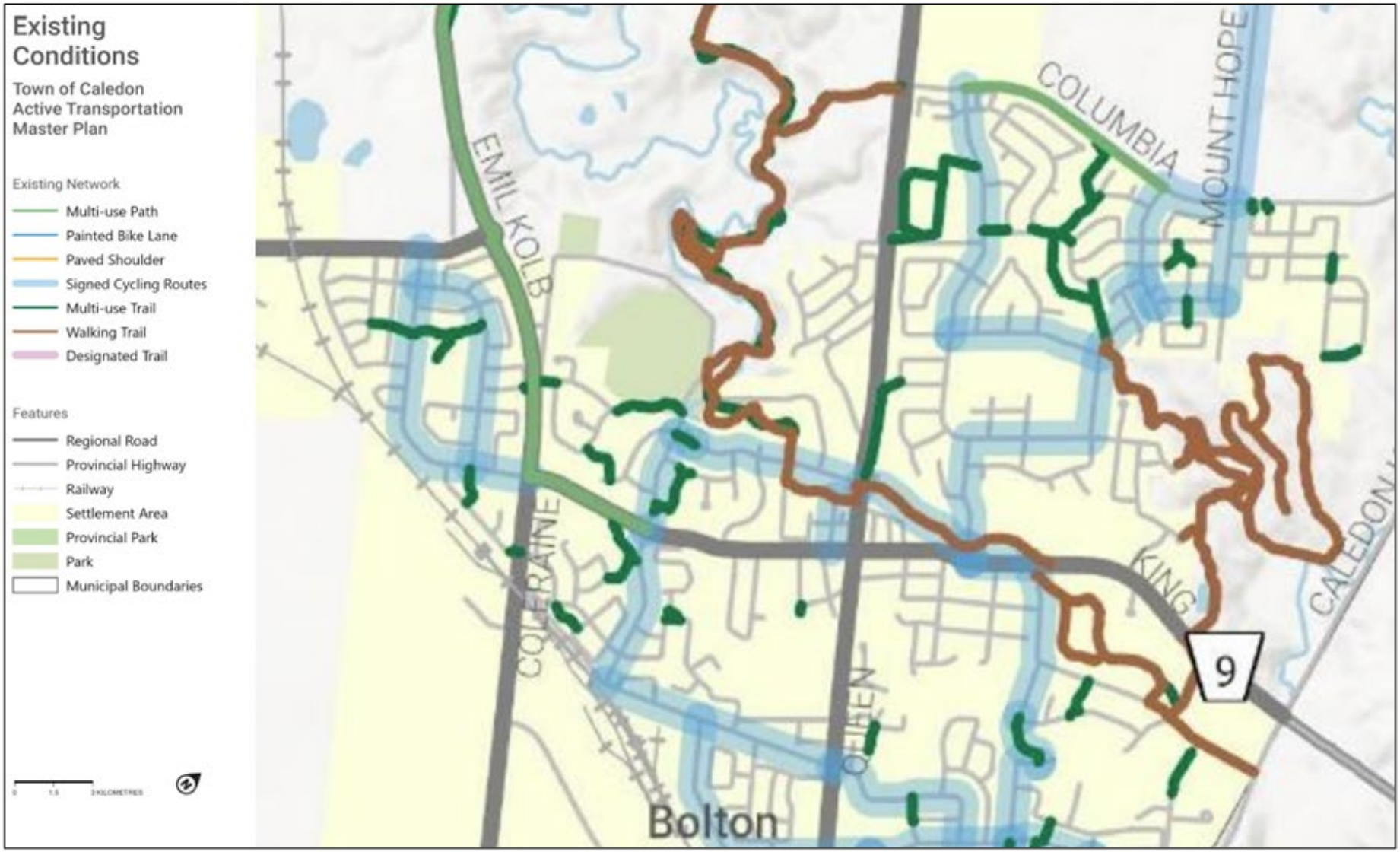
Figure 2.5 depicts the network improvement opportunities across Caledon.[5]

A multi-use trail (MUT) is present on the north side of Emil Kolb Parkway. The trail starts at the King Street and Emil Kob Parkway intersection and leads to the old Humber River bridge. The MUT is designed for cycling and pedestrian use and connects to the existing Humber Valley Heritage Trail. This trail provides safe travel, separated from traffic, and encourages recreational active travel.

The Peel Region *Sustainable Transportation Strategy* highlights the importance of MUTs in promoting cycling. It recommends the provision of connected cycling infrastructure, where feasible. The Region launched *Walk+Roll* initiative in 2010 that provides an interactive map to residents to find trails, bike lanes and trails in the Region.[8]

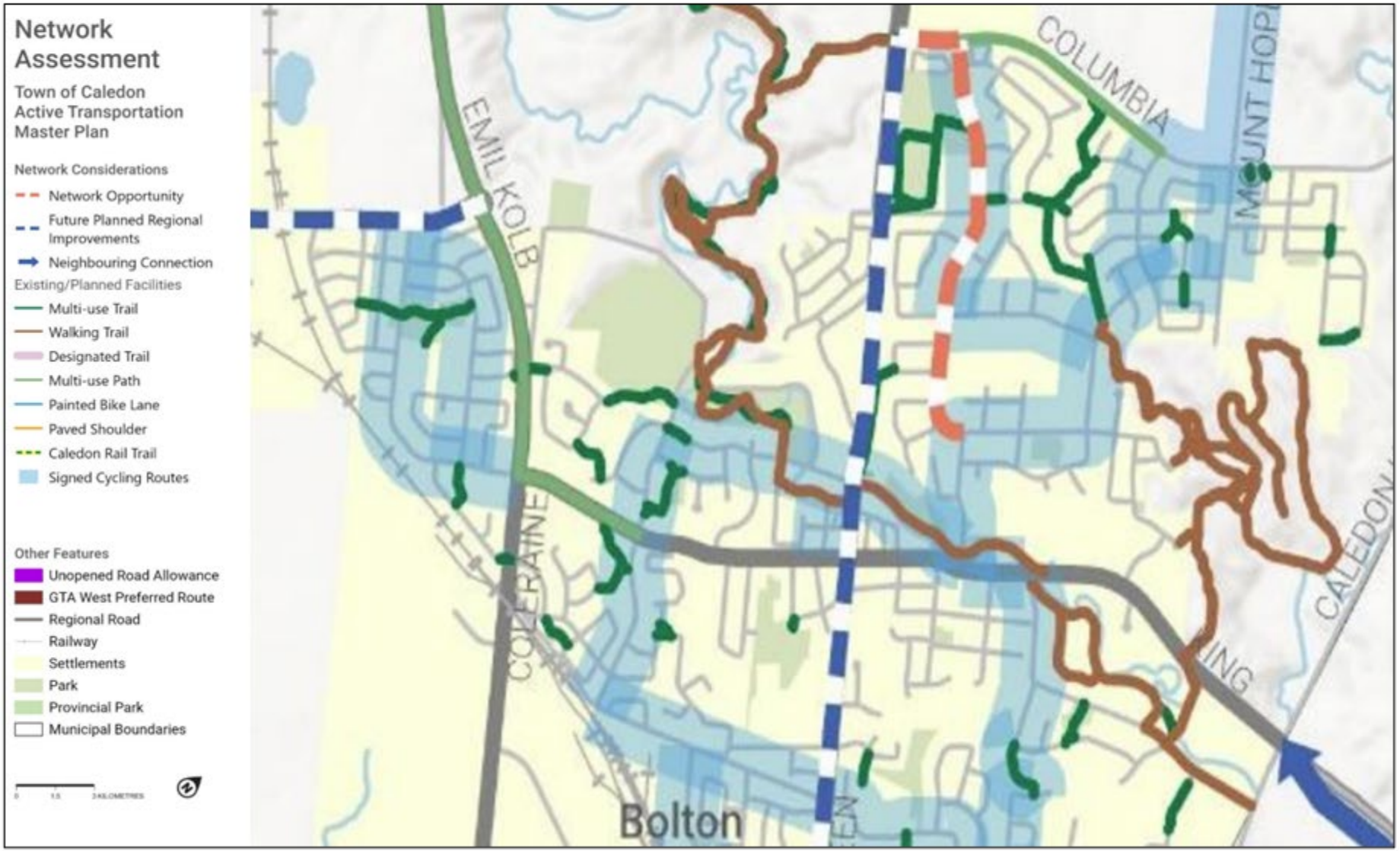
The Town has a commitment to enhancing active transportation and is dedicated to creating communities that prioritizes lower impact, accessible, and health-conscious travel options.[5]

[8] Peel Region, *Walk+Roll*, 2010. Available at: https://walkandroll.peelregion.ca



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Existing Pedestrian and Cycling Infrastructure (Within Study Area)



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Network Improvement Opportunities (Within Study Area)

2.4 Traffic

Traffic volume data for the study area was derived from the Annual Average Daily Traffic (AADT) volume estimates. These volumes were provided by Peel Region staff, with supplemental data being collected by Paradigm staff.

AADT estimates for the following road segments were obtained from the Region staff:

- Emil Kolb Parkway north of King Street;
- King Street east of Queen Street;
- Highway 50 south of Columbia Way; and
- Highway 50 south of Emil Kolb Parkway.

Traffic volumes were measured on the study area roads during April and May 2024. Hourly traffic volumes were recorded continuously for 24 hours over a period of three consecutive days to provide a comprehensive analysis of traffic patterns.

Paradigm collected turning movement counts (TMCs) at the following study area intersection:

- Mount Hope Road and Columbia Way

The counts were completed on Tuesday October 24, 2023, from 6:00 AM to 9:00 AM, and 4:00 PM to 7:00 PM. All vehicle, pedestrian, and cyclist movements were recorded in 15-minute intervals and vehicles were classified by type.

TMCs were obtained from Spectrum Traffic Data Inc. for the following study area intersection:[9]

- Emil Kolb Parkway and Duffys Lane

The counts were completed on Wednesday June 29, 2022, for peak hour time periods.

A compounded per annum growth rate of 2% was applied to the TMC data to estimate 2024 volumes.[10] This 2% growth rate was confirmed with Peel Region staff through the Terms of Reference (ToR) for this

[9] Spectrum Traffic Data Inc., *Turning Movement Count (EMIL KOLB PARKWAY & DUFFYS LANE),* 2022.

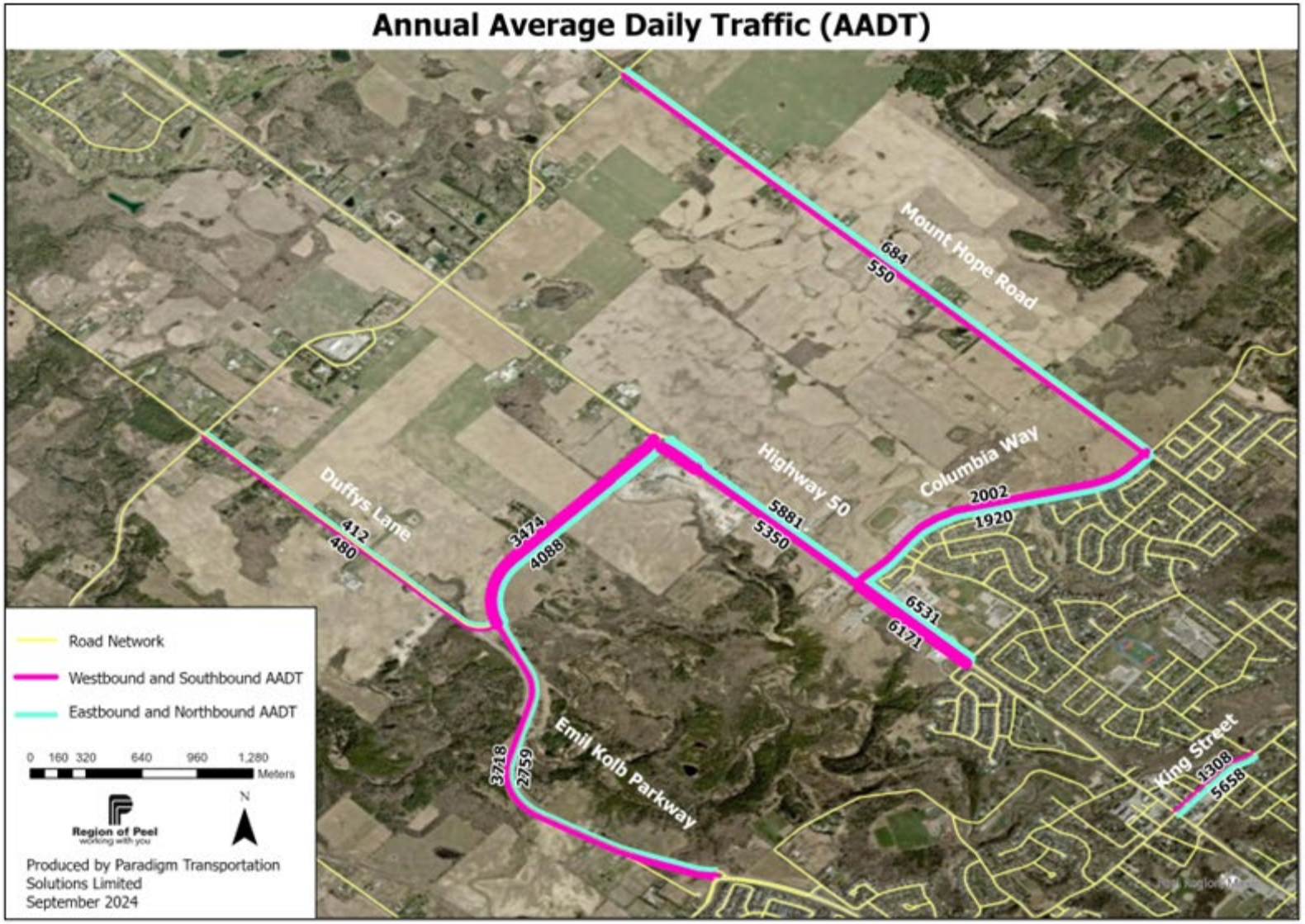
[10] National Association of City Transportation Officials (NACTO), *Design Year - Traffic Growth Projections*, 2025. Available at: https://nacto.org/publication/urban-street-design-guide/design-controls/design-year.

study, before analysis of the data. As a conservative estimate, the full set of peak hour volumes are assumed to be 50% of the 24-hour volume. Using this estimate, the cumulative TMC volumes were doubled to calculate the AADTs. Data for Highway 50 between King Street and Bolton Heights Road was not available and hence is not included in AADT analysis.

Appendix B contains the AADT data.

From the AADT data, it is observed that Highway 50 experiences the highest volume of traffic, which aligns with expectations given its role as a major road in the study area. Emil Kolb Parkway has the next highest traffic volumes, indicating significant use as well, though at a lower level than Highway 50. This distribution of traffic volumes underscores the critical role of Highway 50 and Emil Kolb Parkway in accommodating traffic flow through the study area. These insights help with understanding traffic flow patterns and inform the planning of any required traffic improvements and developing mitigation strategies for the study area.

Figure 2.6 illustrates the Annual Average Daily Traffic (AADT) on key road sections within the study area. The varying line thicknesses represent the bandwidths, which increase as the AADT magnitude increases.



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Annual Average Daily Traffic in the Study Area

2.5 Road Safety

2.5.1 Vehicle Collision Data Review

Road safety in the study area was assessed at a high level through a review of reported vehicle collision history. Collision Detail Reports were provided by Peel Region staff. These reports contain data on collision incidents, including frequency and severity for a three-year period from January 1, 2021, to December 31, 2023.

The following intersections were reviewed:

- Columbia Way and Highway 50 intersection;
- Highway 50 and Emil Kolb Parkway intersection;
- Duffys Lane and Emil Kolb Parkway intersection; and
- Emil Kolb Parkway and King Street intersection.

Additionally, the following road segments were reviewed:

- Highway 50 between Columbia Way and Emil Kolb Parkway;
- Emil Kolb Parkway between Highway 50 and Duffys Lane;
- Emil Kolb Parkway between Duffys Lane and Humber Trail; and
- Emil Kolb Parkway between Duffys Lane and King Street.

Appendix C contains the Collision Detail Reports for the study area.

The collision data has been normalized using the AADT data to develop a per trip comparison of the road segments. The following collision rates were observed:

- Emil Kolb Parkway, south of Duffys Lane: 0.93 collisions per 1000 vehicles AADT;
- Emil Kolb Parkway, north of Duffys Lane: 0.66 collisions per 1000 vehicles AADT;
- Emil Kolb Parkway and King Street Roundabout: 2.93 collisions per 1000 vehicles AADT;
- Emil Kolb Parkway and Highway 50 Roundabout: 1.25 collisions per 1000 vehicles AADT;
- Duffys Lane, West of Emil Kolb Parkway: 1.12 collisions per 1000 vehicles AADT; and
- Highway 50, South of Emil Kolb Parkway: 0.45 collisions per 1000 vehicles AADT.

The review of the collision data reveals that the highest number of total collisions and collisions per trip occur at the two roundabout intersections where Emil Kolb Parkway intersects with King Street and Highway 50. These two locations account for a substantial proportion (66%) of the total collisions recorded in the study area. Importantly, all the collisions at both intersections are classified as property damage only (PDO), with no reported injuries or fatalities. This indicates that, while collisions occur frequently at these two intersections, severity is low.

Duffys Lane, west of Emil Kolb Parkway also has an above average collision rate per trip, which is due to the low trip rate for this section of road.

Roundabouts, by design, tend to exhibit a higher frequency of collisions compared to other types of intersections.[11] This is due to increased motorist workload and movement complexity. Despite this, roundabouts are generally associated with decreased collision severity, as the lower speeds and the circular flow of traffic reduce the likelihood of high-impact crashes.[12]

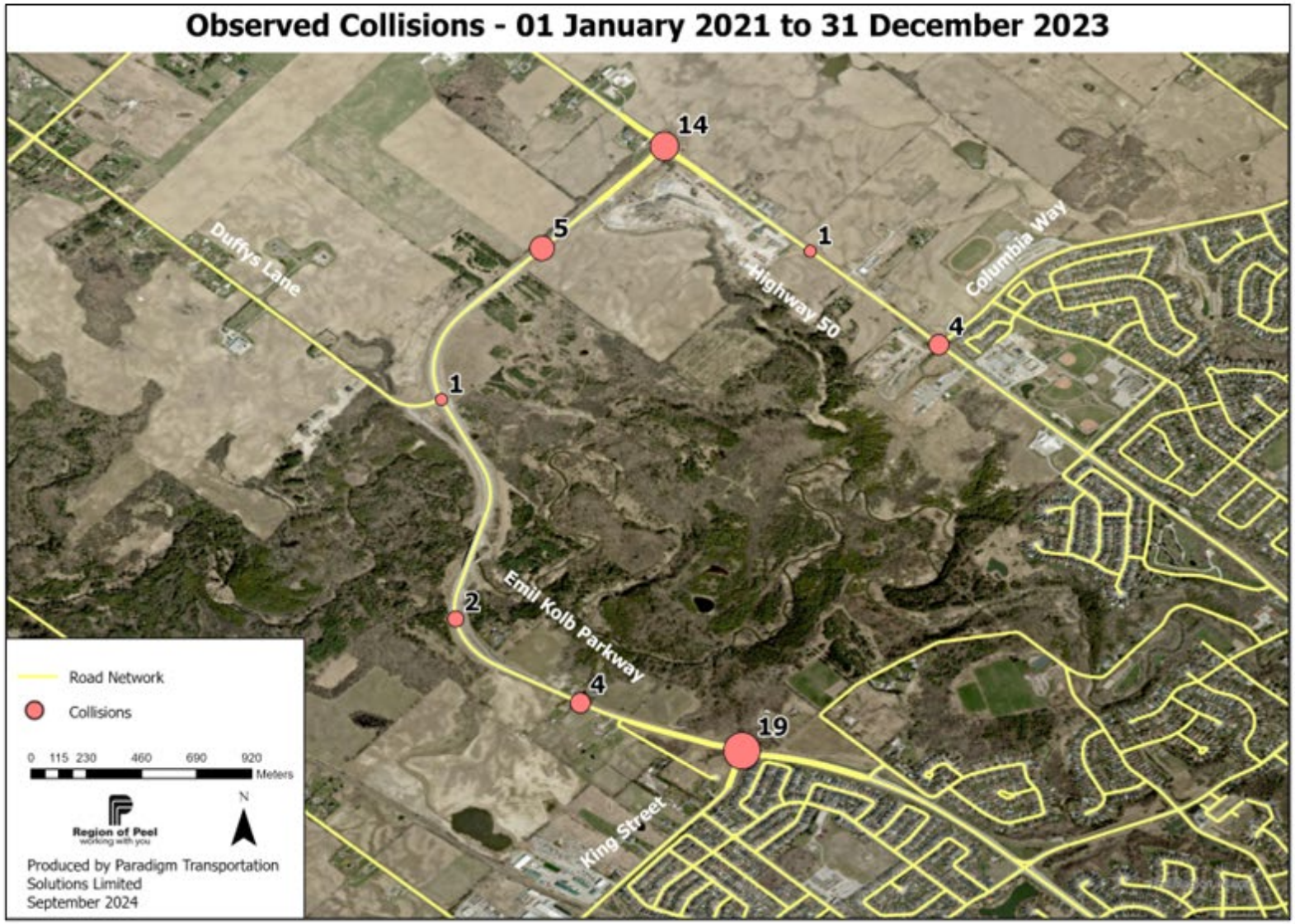
Roundabouts reduce collision severity due to the lower speeds and reduced impact angles. Higher speeds and sharper angles lead to more severe collisions. Roundabouts also minimize or eliminate some of the severe conflict movement types common at traditional intersections.[11] A review of vehicle collisions for the study area is consistent with this trend. Ultimately, a review of the results indicates that the roundabouts are serving their intended function by moving traffic while preventing any significant safety issues.

Collisions recorded at other intersections and road segments are relatively lower compared to those at the two roundabouts. All collisions in the study area are either PDO or non-fatal injury incidents, indicating that the overall severity of collisions is low. The Columbia Way and Highway 50 intersection, the Duffys Lane and Emil Kolb Parkway intersection, and the segment of Emil Kolb Parkway between Highway 50 and Duffys Lane each recorded one non-fatal injury collision. All other collisions in the study area were classified as PDO incidents. The low collision severity indicates that road safety risks in the study area are relatively low.

Figure 2.7 illustrates the collisions observed within the study area.

[11] Federal Highway Administration, *Chapter 5 – Safety – Roundabouts: An Information Guide*, 2000.

[12] Annual Conference of the Transportation Association of Canada, *Safety Auditing Roundabouts: Innovative Intersection and Interchange Designs*, 2004.



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Observed Collisions in the Study Area

3 Future Conditions

3.1 Roads

Through pre-study consultations, Region staff have confirmed that no road network improvements or background developments are planned within the study area. Through this study, a new sanitary pumping station is scheduled to be commissioned by 2029. The station will be located, along the east side of Emil Kolb Parkway, 350 metres south of the Duffys Lane intersection. A new private driveway connecting the station to Emil Kolb Parkway will be constructed.

3.2 Transit Network

It is likely that transit use will increase at a modest rate as trips within the Bolton community grow. No upgrades to public transit service or infrastructure are planned for the study area. The planned works in the study area are not expected to add or remove any public transit trips to the network. As such, no changes to transit service or infrastructure are required to accommodate the works.

As outlined in **Section 2.2**, there are currently two bus routes operating in the study area, both of which connect to Highway 50. There is no bus route currently operating on Emil Kolb Parkway, where the sanitary pumping station is planned to be constructed. The station is anticipated to generate only two trips per day, most likely made by small trucks rather than passenger vehicles or large trucks. This low volume of trips is unlikely to impact public transit due to its land use.

3.3 Active Transportation

3.3.1 Walking

Pedestrian trips are expected to increase at a modest rate as overall travel within the Bolton community grows. As discussed in **Section 2.3.1**, the MUP on the south side of Columbia Way will not be impacted by the planned works. No upgrades to pedestrian infrastructure are planned for the study area. The planned sanitary pumping station at Emil Kolb Parkway is expected to generate two truck trips (one entry and one egress) per day, involving one routine worker. This activity is not expected to generate changes in pedestrian activity.

3.3.2 Cycling

As the Bolton area grows, cycling activity may also increase at a modest rate. No upgrades to cycling infrastructure are planned for the

study area. As discussed in **Section 2.3.2**, the MUT on the north side of Emil Kolb Parkway is not expected to be impacted by planned works. The route of this MUT deviates away from the planned access to the sanitary pumping station and therefore no direct impact to the MUT is anticipated. The proposed sanitary pumping station at Emil Kolb Parkway is expected to generate two truck trips (one access and one egress) per day, involving one routine worker, and is unlikely to affect cycling activity.

3.4 Traffic

In the future, traffic volumes in the study area are expected to increase at a modest pace (approximately 2%) as travel within the Bolton community grows. This is consistent with other modes of travel. No major background developments are anticipated that would result in a disproportionate increase in traffic volumes.

As discussed in **Section 2.4**, Highway 50 is anticipated to attract the highest volume of traffic within the study area. Highway 50 will continue to operate as a major arterial road providing north-south connectivity. Emil Kolb Parkway is observed to show the second highest traffic volume. The planned works are not expected to alter existing travel behaviour. Both Highway 50 and Emil Kolb Parkway are currently operating at an AADT of approximately 3,000 vehicles per lane. The ideal capacity per lane is 1,900 passenger car equivalents per hour per lane.[13] If half of the 24-hour AADT volume were generated during a single peak hour, which is much greater than typical, the roads would still be operating well below capacity. Typically, peak hour volumes can represent a maximum of 10% of the AADT. Therefore, travel conditions are expected to remain similar to existing conditions as the roads are operating well below capacity.

Traffic conditions may be impacted through construction of the public works, but ultimately, existing road conditions will be restored. Any impacts to lanes or visual cues (i.e. signage and pavement markings) will be removed once construction is complete.

The sanitary pumping station is expected to be operational in 2029. This station is expected to generate two trips per day (one entry and one egress). It is likely that these trips will be via small trucks, and not passenger vehicles or large trucks. This low volume of vehicle trips will not generate impacts to existing traffic conditions. Given these

[13] Traffic Management Centre (City of Toronto), *Intelligent Transportation Systems (Operations) - Guidelines for using Synchro 9 (Including SimTraffic 9),* 2016.

projections, traffic flow is expected to remain consistent, with no major changes or challenges anticipated in future.

3.5 Road Safety

The infrastructure improvements planned for the study area are not expected to introduce new road safety risks. The only changes impact the future right-of-way is the planned private driveway connection from the sanitary pumping station to Emil Kolb Parkway. This driveway access is reviewed in **Section 4** of this report. The installation of water wastewater pipes will not have an impact on road safety because the road network will be restored to its existing form, once the works are complete.

Traffic volumes are expected to increase at a modest pace of approximately 2% as the Bolton area grows. A slight increase in traffic volume expected in future will likely not result in significant changes to vehicle collision rates and severity. The sanitary pumping station is expected to generate two truck trips per day (one entry and one egress). With these relatively minimal changes to traffic patterns, the road safety of the study area will likely remain consistent to its current form.

4 Sanitary Pumping Station Access Review

4.1 Background

A new sanitary pumping station is planned as part of the infrastructure works with this project. The access for this station is planned to be located on the east side of Emil Kolb Parkway, approximately 350 metres south of the Duffys Lane intersection. The site access will serve as both the entry and exit point for the station. To ensure that the access is feasible in terms of road safety and operations, a review of its configuration is provided in this section. The review is based on industry practise and guidelines, notably the 2017 Transportation Association of Canada (TAC*) Geometric Design Guide for Canadian Roads (GDGCR)*.[14]

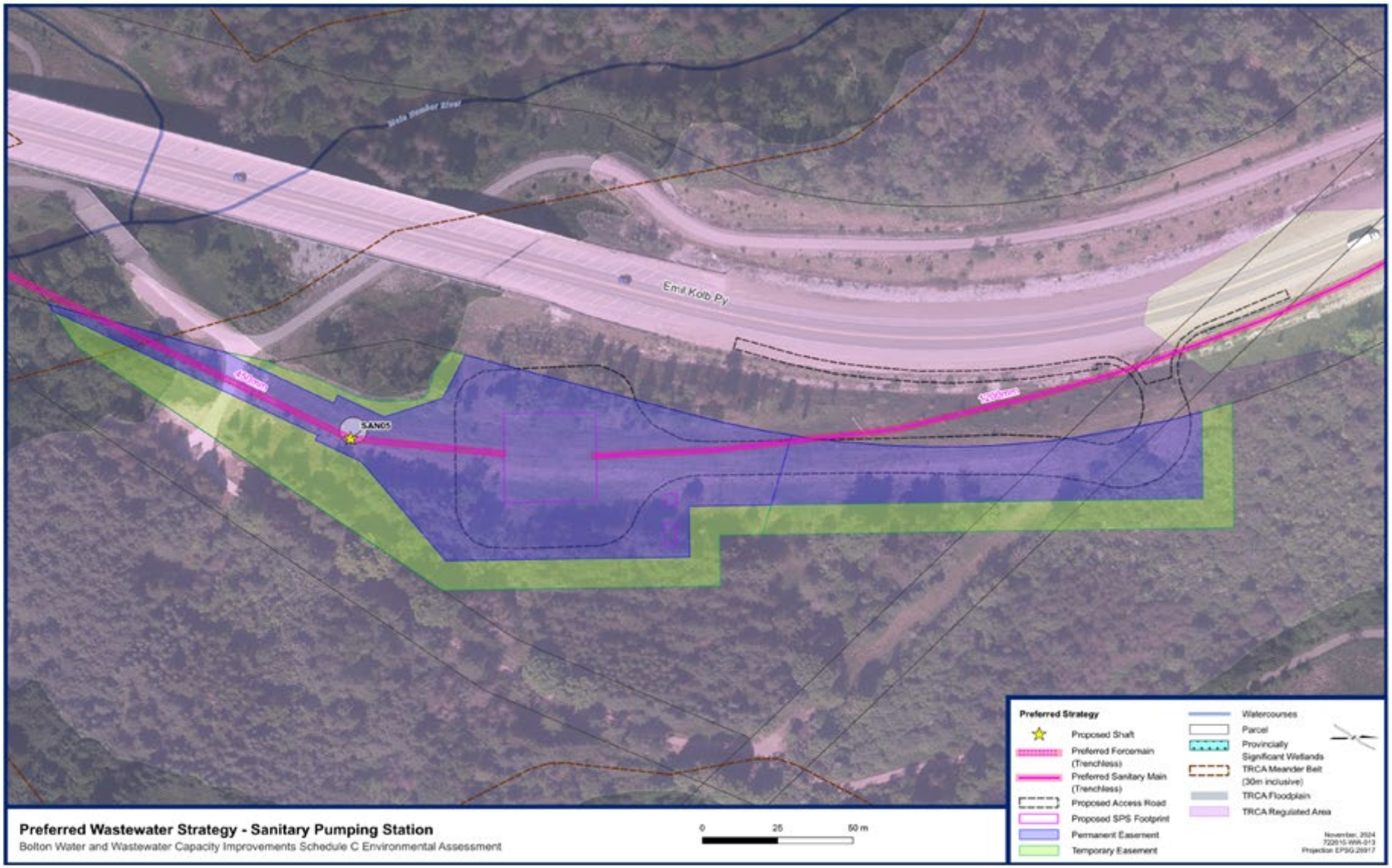
The pumping station will be situated along the outside of a gentle horizontal curve on Emily Kolb Parkway. There are curves north and south of the site access, as Emil Kolb has been designed with a number of horizontal curves. Immediately south of the site is the Humber River, which crosses under Emil Kolb Parkway.

The driveway access will be stop controlled for the driveway movement, and free flow for vehicles on Emil Kolb Parkway. This means that vehicles accessing and exiting the driveway have a permissive movement and can only perform a turn when safe to do so.

The driveway access is planned to intersect with Emil Kolb Parkway at a perpendicular angle. This allows for a clear understanding for all road users on who has the right-of-way, and which movements are permissive and free flow.

Figure 4.1 illustrates the planned location of sanitary pumping station.

[14] Transportation Association of Canada, *Geometric Design Guide for Canadian Roads*, (Ottawa: TAC, 2017),16-71.



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Location of Sanitary Pumping Station

4.2 Access Location and Design

To ensure that the site access is designed to reflect best industry practices and guidelines, the following section reviews applicable aspects of the TAC GDGCR.

4.2.1 Corner Clearance

According to the TAC GDGCR, corner clearance is the measured distance between the near curb of the nearest intersection and the near edge of the driveway throat.[4] For the subject site, distances were measured based on the corner clearance components shown in Figure 8.8.2 of the TAC GDGCR. The component measurements were compared against the recommended values for a commercial development.

Table 4.1 highlights the recommended values for the corner clearance in comparison to measurements of the existing road conditions.[6]

TABLE 4.1: CORNER CLEARANCE

Measurement	TAC Guide Distance (m)	Road Measurement (m)	Requirement Satisfied
Corner Clearance	35	~345	Yes

Results indicate that the required corner clearance requirements are met and satisfied for the planned site access driveway.

4.2.2 Access Spacing

When considering the location of any given driveway, criteria including the minimum spacing between driveways, the minimum offset to the property line and the maximum number of driveways (only one driveway in this case) should be considered.**Error! Bookmark not defined.** A minimum spacing of 20 metres is required for driveways along arterial roads in commercial areas.

Table 4.2 highlights the recommended values for the minimum spacing in comparison to measurements of the existing road conditions. There is no adjacent driveway north of the subject site.

TABLE 4.2: ACCESS SPACING

Measurement	TAC Guide Distance (m)	Road Measurement (m)	Requirement Satisfied
Distance between the Site Driveway and Adjacent Driveway South of Development	20	~850	Yes

Results indicate that the required access spacing requirements are met and satisfied for the planned site access driveway.

4.2.3 Throat Length

To increase operational efficiency for vehicle entering and exiting the driveway, a no conflict and storage zone is recommended within the driveway. The clear throat length (or set-back distance) is used to prevent frequent blocking of on-site circulation roads and the queueing of entering vehicles. Table 8.9.3 in the TAC GDGCR provides a guideline for suggested minimum clear throat lengths for various developments.**Error! Bookmark not defined.**

Table 4.3 highlights the recommended values for the minimum clear throat length. The site land use has been considered as a general office (<5,000 m^2), as this category is most applicable to the planned land use.

TABLE 4.3: THROAT LENGTH

Measurement	TAC Guide Distance (m)	Driveway Measurement (m)	Requirement Satisfied
Driveway Throat Length for General Office (<5,000 m^2) Connecting to an Arterial Road	15	~17	Yes

Results indicate that the required throat length requirements are met and satisfied for the planned site access driveway.

4.2.4 Access Alignment

As previously noted, the access driveway is planned to align with Emil Kolb Parkway at a perpendicular angle. The driveway will be a two-way stop-controlled private driveway connection on the west side of the site, connecting to Emil Kolb Parkway. The TAC GDGCR suggests that

two-way driveways that intersect roads at or near right angles represent the most practical design for most conditions.[15]

The perpendicular site access configuration is the most suitable alignment for the planned sanitary pumping station driveway, as it provides optimal traffic flow and safety. This configuration helps to minimize turning radii and ensures that vehicles can enter and exit the site with greater ease, reducing the risk of accidents. By aligning the driveway perpendicularly to Emil Kolb Parkway, the access point is better positioned to accommodate both the traffic entering the site and the high-speed flow of traffic on the arterial road. Clear right-of-way delineation can be understood by all road users, with the private driveway motorists clearly understanding that they need to wait for a gap in traffic to perform their movement.

This perpendicular access alignment is similar to the Duffys Lane and Emil Kolb Parkway intersection, where Duffys Lane has been strategically realigned to intersect the Parkway at a near-perpendicular angle.

4.2.5 Sight Distance Assessment

The necessary sight distances at the site driveway were reviewed in accordance with the TAC GDGCR.**Error! Bookmark not defined.** The components for the sight distance are measured as shown in Figure 9.9.2 of the TAC GDGCR. The sight distance values were determined using Tables 9.9.4 and 9.9.6. This case is assumed to be an intersection with stop control on the minor road.

The assessment used the following parameters:

- Object Height (vehicle tail or brake light): 0.60 metres;
- Driver Eye Height: 1.08 metres; and
- Top of Car: 1.30 metres.

Paradigm staff completed a desktop review of the driveway connections and confirmed the measurements using satellite imagery from Google Street View.

The measurements for outbound traffic exiting the site were recorded at 5.4 metres from the existing edge of pavement, representing the typical position of a driver performing a turning movement. The measurements for inbound traffic were taken from the centre of the

[15] *Geometric Design Guide for Canadian Roads. 3rd ed.* Transportation Association of Canada, Ottawa, ON, Canada, 2017, pp. 8-46.

travel lane on Emil Kolb Parkway from which the turning movement would occur (e.g. curb lane from northbound right turn, etc.).

Table 4.4 summarizes the recommended sight distances for the existing driveway location based on a 90 km/h design speed (20 km/h above the posted speed limit) for the major road and 20 km/h design speed for the driveway.

TABLE 4.4: DRIVEWAY SIGHT DISTANCE ASSESSMENT

Measurement	TAC Guide Distance (m)	Road Measurement (m)	Requirement Satisfied
Minimum Stopping Sight Distance (Northbound) – Driver Approaching the Site Driveway from the South.	160	~208	Yes
Minimum Stopping Sight Distance (Southbound) – Driver Approaching the Site Driveway from the North.	160	~302	Yes
Departure Sight Distance (Left Turn from Stop) – Driver Facing West and Looking South	190	~218	Yes
Departure Sight Distance (Left Turn from Stop) – Driver Facing West and Looking North	190	~310	Yes
Departure Sight Distance (Right Turn from Stop) – Driver Facing West and Looking South	165	~218	Yes

Results of the assessment indicate that all of the sight distance requirements are achieved under the current roadway geometry. The horizontal and vertical alignment of Emil Kolb Parkway is not completely straight and level. There are horizon curves north and south of the site access. Additionally, Emil Kolb Parkway has a vertical grade, sloping downwards from Duffys lane past the site access and towards the Humber River bridge. It was observed that there are currently some obstructions in the form of vegetation along the western periphery of the site.

It is recommended that sight distances are confirmed once the site access is constructed. This includes the removal of any vegetation that

may obstruct the view of motorists entering or exiting the site, as well as by-passing motorists.

If there are plans to upgrade Emil Kolb Parkway in the future, it is recommended that adjustments to the horizontal and vertical alignment be considered to improve sight distance and road safety. In the absence of modifications to the alignment, adequate sight distance can be achieved by trimming vegetation along the western side of the site boundary.

4.3 Auxiliary Lane Analysis

A review of auxiliary lane requirements is provided to understand impacts at the pumping station site access.

4.3.1 Left Turn Lane Warrant

The Peel Region *Road Characterization Study* provides guidance on auxiliary left turn lane requirements at private access driveways.[16] The guidelines address the need for a left turn lane based on vehicle volume thresholds. *Table 5: Volume Thresholds for Access Control* suggests that an auxiliary lane is not required if the volume at the driveway is less than 60 vehicles per hour.

Table 4.5 summarizes the threshold volumes required for an auxiliary turn lane, based on the Peel Region Road Characterization Study.

TABLE 4.5: VOLUME THRESHOLDS FOR ACCESS CONTROL

Re-Development/Intensification			
	Low Impact less than 60 veh/hr peak hour	Medium Impact 60-100 veh/hr peak hour	High Impact over 100 veh/hr peak hour
Physical Access Restriction	N/A	N/A	Yes
Auxillary Lane(s) Requirement	N/A	N/A	Yes
Access Restriction on Title	N/A*	Yes	Yes
Auxillary Lane(s) Requirements on Title	N/A	Yes	Yes

Even though the two small trucks will be entering the site at any two points throughout the entire day, conservatively, each truck can be estimated to represent three passenger-car equivalent (PCE) trips within one hour. Therefore, a maximum of six PCE vehicles may use the driveway in an hour. If both of the trucks enter the site from the north direction in the same study hour, the total is still much less than the required threshold and hence a left turn lane is not justified.

[16] Peel Region, *Road Characterization Study,* 2013.

4.3.2 Right Turn Lane Warrant

The TAC GDGCR does not provide warrants for the application of right turn lanes. However, the guide does note that implementation should consider many factors, including speed, design volume, right-of-way availability, collision potential, access location, intersection spacing, cycling and pedestrian needs, and implications on transit operation.

At unsignalized intersections, the TAC GDGCR suggests implementing a right turn auxiliary lane when the volume of decelerating or accelerating vehicles compared with the through traffic volume causes undue hazard. Similar to the conservative approach to the left turn lane warrant, a maximum six PCE vehicles may enter the driveway during the AM peak hour or PM peak hour via a right turn at the site access. If both of the trucks enter the site from the south direction in the same study hour, the total is still much less than the required volume that would pose any undue hazard. Furthermore, the right-turning volume will conservatively account for less than 5% of the through traffic. Therefore, the implementation of a right-turn lane is not warranted.[17]

The TAC GDGCR indicates that a threshold volume of approximately 60 vehicles per hour can be used to determine the need for right turn channelization. Additionally, municipal guidelines such as the Durham Region *Right-Turn Lane Policy and Design Guideline Development* specifies a lower threshold of 40-50 vehicles per hour for higher-speed, higher-risk (two-lane) locations.[18] Additionally, the guideline recommends a right-turn taper when a minimum threshold of 10 to 20 right-turn vehicles per hour is observed. The conservative estimate of six PCE vehicles entering the site is less than these required thresholds, indicating that a turn lane or taper is not necessary.

4.3.3 Acceleration and Deceleration Lanes

Acceleration and deceleration lanes are auxiliary lanes located adjacent to through lanes to allow vehicles to speed up or slow down when entering or exiting a roadway.[19] When applied in the proper context, these lanes allow vehicles to merge with or depart from free flow traffic at the operating speed of the free flow traffic.

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17 *Geometric Design Guide for Canadian Roads. 3rd ed.* Transportation Association of Canada, Ottawa, ON, Canada, 2017, pp. 9-99.

18 Regional Municipality of Durham, *Right-Turn Lane Policy and Design Guideline Development*, 2006.

19 Ministry of Transportation, *MTO Design Supplement for TAC Geometric Design Guide (GDG) for Canadian Roads*, 2023, pp. 19.

Based on the TAC GDGCR, acceleration and deceleration lanes are commonly used for higher-speed rural roads.[20] For unsignalized intersections, these lanes should be considered if there is a substantial volume of decelerating or accelerating vehicles compared to through traffic volume, which can pose a safety hazard. The TAC GDGCR does not provide any explicit proportion of turning vehicles compared to through movement vehicles for unsignalized intersections. For signalized intersections, an acceleration or deceleration lane is suggested when turning traffic exceeds 10% of the total approach volume.[21]

The forecast for the sanitary pumping station indicates a conservative maximum of six PCE turning vehicles, which is below the required threshold for the implementation of such lanes.

Table 10.6.2 and Table 10.6.5 in the TAC GDGCR provide guidance on the typical design length required for deceleration and acceleration lanes, respectively.[22] Emil Kolb Parkway is estimated to have a design speed of 90 km/h (20 km/h above the posted speed limit of 70 km/h). This results in a required taper length of 80 metres. For deceleration, the required length of the deceleration lane is between 140 and 185 metres, while the acceleration lane should be between 200 and 310 metres in length. This is assuming a speed of 20 km/h on the minor roadway (i.e. the driveway).

Table 4.6 and **Table 4.7** summarize the design lengths required for deceleration and acceleration lanes, respectively, based on the TAC GDGCR guidance.

TABLE 4.6: DESIGN LENGTHS FOR DECELERATION

Speed of roadway (km/h)		Length of Taper (m) L_1	Length of Deceleration Lane Excluding Taper (m) L_d							
			Design Speed of Turning Roadway curve (km/h)							
Design	Assumed Operating		Stop condition	20	30	40	50	60	70	80
60	55-60	55	90-115	85-110	80-105	70-90	55-60			
70	63-70	65	110-145	105-140	100-130	90-120	75-105	60-70		
80	70-80	70	130-170	120-165	115-160	105-150	95-130	80-105		
90	77-90	80	150-195	140-185	135-180	125-170	115-160	100-135	80-110	
100	85-100	85	170-215	160-210	155-205	145-200	135-185	120-165	100-145	
110	91-110	90	185-250	175-245	170-240	160-230	150-220	140-205	120-190	100-165
120	98-120	95	200-320	190-315	185-310	180-305	170-300	155-280	135-270	120-240
130	105-130	100	215-340	205-335	200-330	190-325	180-320	170-300	150-285	135-270

[20] *Geometric Design Guide for Canadian Roads. 3rd ed.* Transportation Association of Canada, Ottawa, ON, Canada, 2017, pp. 9-98.
[21] *Geometric Design Guide for Canadian Roads. 3rd ed.* Transportation Association of Canada, Ottawa, ON, Canada, 2017, pp. 9-99.
[22] *Geometric Design Guide for Canadian Roads. 3rd ed.* Transportation Association of Canada, Ottawa, ON, Canada, 2017, pp. 10-29 to 10-46.

TABLE 4.7: DESIGN LENGTHS FOR ACCELERATION

Speed of roadway (km/h)		Length of Taper (m) L_1	Length of Acceleration Lane Excluding Taper (m) L_d							
			Stop condition	20	30	40	50	60	70	80
60	55-60	55	85-115	70-100	60-80	45-60	20-35			
70	63-70	65	120-160	115-150	100-135	80-115	50-85	15-40		
80	70-80	70	160-225	150-215	130-200	115-185	85-160	40-100		
90	77-90	80	215-325	200-310	180-300	160-285	140-250	50-200	40-145	
100	85-100	85	275-450	250-440	240-420	225-405	200-375	140-325	100-285	40-230
110	91-100	90	330-650	320-645	305-630	290-600	260-575	210-525	150-475	100-410
120	98-120	95	410-730	400-725	375-710	370-690	340-660	285-590	250-515	195-430
130	105-130	100	550-885	540-880	510-870	500-850	470-820	400-745	340-655	300-550

4.4 Other Road Safety Considerations

4.4.1 Raised Concrete Centre Median Island

A median is a safety device that provides some measure of freedom from interference of opposing traffic by separating travel lanes. Raised concrete centre median islands are physical separators installed between opposing (typically) lanes of traffic that prevent vehicles from passing through (i.e. left turns).

The TAC GDGCR provides guidance on the application of medians for various road types.[23] A raised median is typically preferred on arterial roads where access control is necessary, as it effectively restricts left turns and helps manage traffic flow. This design feature enhances safety by preventing direct access to opposing lanes, reducing the likelihood of collisions caused by turning movements.

The access to the sanitary pumping station driveway is planned along a horizontal curve, approximately 350 metres south of Duffys Lane. The southbound approach to the access features a downhill grade, which increases the potential for high-speed traffic. According to the TAC GDGCR, restricting left turns is an effective strategy to reduce conflicts created by driveways along two-way undivided arterial roads or other major undivided roadways.

The TAC GDGCR indicates that a median is particularly effective in reducing head-on and sideswipe collisions.[24] Based on the collision data, only one collision was observed on the section of road where the median is proposed. However, this incident was neither a head-on nor

[23] *Geometric Design Guide for Canadian Roads. 3rd ed.* Transportation Association of Canada, Ottawa, ON, Canada, 2017, pp. 4-28 to pp. 4-38.

[24] Transportation Association of Canada, *Geometric Design Guide for Canadian Roads - Chapter 4.5 Medians and Outer Separation – Section 4.5.5.2*, (Ottawa: TAC, 2017), pp.37.

a sideswipe collision. It was a Single Motor Vehicle (SMV) collision, where the driver lost control of their vehicle while turning right and drove off the road into a ditch.

The TAC GDGCR suggests that a median serves an access control function, eliminating conflicts from turning movements. The median is a proactive preventive measure, as access to the Sanitary Pumping Station is not yet present. The median would eliminate left turn conflicts as well as vehicles dwelling in the southbound through lane on Emil Kolb Parkway at the Sanitary Pumping Station driveway.

Table 4.8 summarizes the effect of median type on collision rates based on number of access points.[25]

TABLE 4.8: EFFECTS OF MEDIAN TYPE ON COLLISION RATES BY NUMBER OF ACCESS POINTS[25]

Total Access Points Per Kilometre [A]	Collisions Per Million Vehicle Kilometres Per Year		
	Undivided	Two-Way Left Turn Lane	Raised Median
≤ 12	2.4	2.1	1.8
12 - 24	4.5	3.7	3.2
24 - 37	5.8	4.9	4.2
> 37	6.6	5.7	5.1
All	5.6	4.3	3.5

Table 4.8 indicates that the installation of a raised median reduces collision rates by approximately 25% when the number of access points are 12 or less per kilometre.

The TAC GDGCR also details the results of an operational analysis that uses seven collision prediction models to further support the contention that roadways with raised medians experience fewer collisions than those with two-way left turn lanes (TWLTL) or undivided cross sections.

Table 4.9 summarizes the effect of median type on collision rates for various turning configurations.[26]

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[25] Transportation Association of Canada, *Geometric Design Guide for Canadian Roads - Chapter 4.5 Medians and Outer Separation - Table 4.5.2: Effect of Median Type on Collision Rates by Number of Access Points*, (Ottawa: TAC, 2017), pp.37.

[26] Transportation Association of Canada, *Geometric Design Guide for Canadian Roads - Chapter 4.5 Medians and Outer Separation - Table 4.5.3: Estimated Total Collisions/ Kilometre/ Year Collisions*, (Ottawa: TAC, 2017), pp.37.

TABLE 4.9: ESTIMATED TOTAL COLLISIONS PER KM PER YEAR BASED ON TURNING LANE CONFIGURATION[26]

ADT	Collisions Per Kilometre Per Year		
	Undivided	Two-Way Left Turn Lane	Raised Median
10,000	30	24	20
20,000	78	37	34
30,000	118	57	48
40,000	157	70	53

Emil Kolb Parkway is forecast to generate an ADT of less than 10,000. **Table 4.9** shows that the total number of collisions reduces by around 33% with a raised median compared to an undivided road.

The site access is located along a 70 km/h curved, single-lane road, with a downhill grade for southbound vehicles. Vehicles seeking to perform the southbound left turn movement would dwell in the single southbound lane until a gap in northbound traffic becomes available. This may lead to queuing in the southbound direction, which is undesirable from a traffic operations and road safety standpoint, given the specific context. Therefore, preventing this movement eliminates this undesirable condition.

Based on TAC GDGCR guidance and site access conditions, it is recommended that a raised center median be installed along Emil Kolb Parkway to restrict left-turning traffic movements at the site driveway. This measure will enhance safety by preventing left turn movements in and out of the driveway, reducing the risk of conflicts with oncoming traffic and improving overall traffic flow.

4.4.2 Signage and Pavement Markings

The driveway for the sanitary pumping station is planned to be located on the north side of Emil Kolb Parkway, along a horizontal curve approximately 350 meters south of Duffys Lane. Chevron Alignment (Wa-109) signs are installed to guide drivers around the curves. An Object Marker (Wa-33R) sign is already in place to warn passing traffic of the hazard.[27]

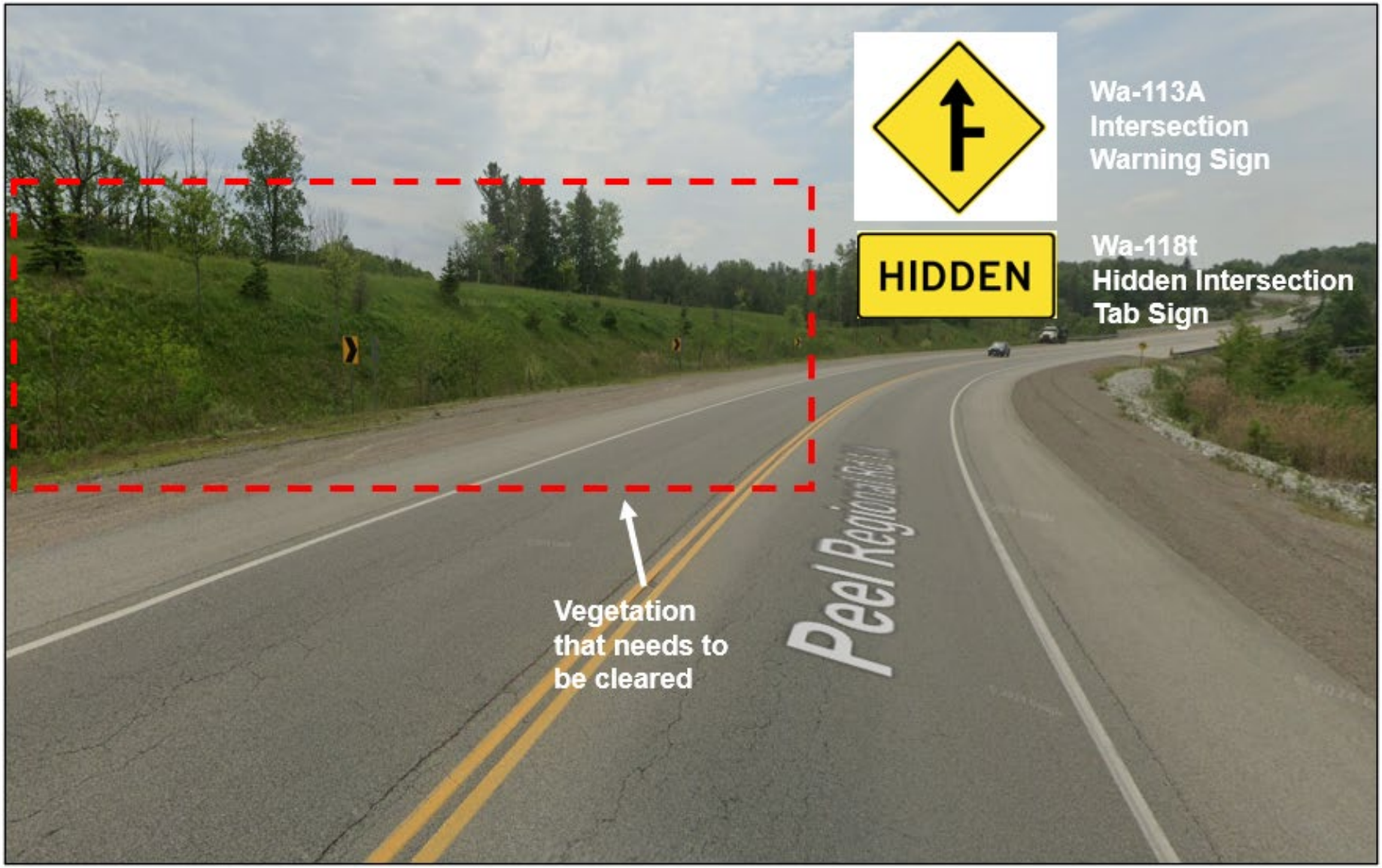
There is vegetation along the horizontal curve on the eastern side of Emil Kolb Parkway south of the planned site access. It is recommended that this vegetation be trimmed and maintained such that it does not obstruct motorist sight distances for the site access. In the event that vegetation cannot be fully cleared or there is regrowth, a

[27] Ontario Traffic Manual Book 6, *Warning Signs*, 2001.

Wa-113A intersection warning sign (75 cm x 75 cm) should be installed on Emil Kolb Parkway, 265 metres south of the planned driveway intersection. This sign should be accompanied by a Wa-118t hidden intersection tab sign (45 cm x 90 cm).

Emil Kolb Parkway is observed to have double solid yellow directional dividing lines, providing additional emphasis of a passing prohibition along the curve. Additionally, solid white edge lines are provided along the Emil Kolb Parkway that delineate the outside edges of the traveled pavement. These edge lines are located adjacent to the partially paved shoulders and help reduce shoulder maintenance and collision frequencies while providing effective travel lane delineation. It is recommended that these pavement markings be maintained.**Error! Bookmark not defined.**

Figure 4.2 illustrates the recommended sign types to alert motorists about the upcoming driveway to the sanitary pumping station.



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Recommended Signage and Vegetation Clearing

4.5 Site Access Review Summary

The site access location does not conflict with guidance found in the TAC GDGCR. There are some sightline obstructions in the form of vegetation along the site boundary that should be cleared and maintained when the site becomes operational. In addition, the site features a horizontal curve on the east side of Emil Kolb Parkway and a vertical elevation north of the site access. Aspects, such as corner clearance, access spacing, throat length and sight distance, exceed minimum requirements. The access is designed with a perpendicular alignment to Emil Kolb Parkway, which is desirable in terms of road alignment. The perpendicular configuration will help minimize turning radii, improve visibility, and align with the nearby Duffys Lane intersection.

The Peel Region Road Characterization Study and related literature indicate that left and right turn lanes are not warranted as site volumes are forecast to be below the threshold of 60 vehicles per hour. The installation of a raised concrete centre median island is recommended to ensure road safety. The forecast traffic volumes do not justify the need for acceleration or deceleration lanes, but these can be considered if necessary. Finally, hidden intersection signage can be installed to help identify upstream motorists of the site access.

5 Construction Impacts

Construction activity will involve the installation of water and wastewater infrastructure, as well as a sanitary pumping station. Water and wastewater pipes will be constructed using a combination of open cut and tunnelling construction methods.

Tunnelling construction involves digging shafts and using special equipment to tunnel underground between shafts. It is less intrusive than open cutting, minimizing traffic disruptions, impacts to local residents and businesses, and avoiding environmental features such as watercourses. The surface works for tunnelled construction are the entry and exit shafts located between tunnel drive sections. These exit shafts vary between 0.2 and 2.1 kilometres in distance from each other, depending on the type of technology used for the system.

Open cut construction involves digging a trench to facilitate the installation of linear infrastructure. With this type of construction occurring at the surface, it has the potential restrict typical traffic flows.

Construction is expected to be completed by 2029. During this period, construction vehicles will use roads within the study area, including Emil Kolb Parkway, Highway 50, Columbia Way, and Mount Hope Road. Most trucks are expected to access the study area during non-peak hours, particularly between 1:00 and 3:00 AM, to minimize disruption during peak hours.

5.1 Truck Volumes

The construction activity for the project will generate truck traffic to and from the study area. These trucks will be transporting construction materials and personnel necessary to various sites to complete the works in a timely and cost-effective manner.

During peak traffic hours, a fair number of trucks are expected to arrive or leave the construction sites within the study area. These trucks will be at various locations, and either be headed to or from the sites, thus using opposite sides of the roads.

Approximately 27 trucks per hour are anticipated during the AM peak hour (one hour between 7:00 AM and 9:00 AM). In the PM peak hour (one hour between 4:00 PM and 6:00 PM), truck volumes are expected to range between 11 and 16 trucks per hour. The truck volumes during AM and PM peak hours are lower than the peak truck volumes observed during off-peak hours.

The heaviest concentration of trips generated by the construction works is expected to occur during off-peak hours, particularly between 1:00 AM and 3:00 AM. During this period, it is anticipated that up to 34 trucks per hour will be observed on study area roads. This is equivalent to approximately one new trip every two minutes at some point in the study area road network.

The construction trips are not anticipated to generate significant disruption to existing traffic conditions because they are spread over a large area, bi-directional, and will predominantly occur during off-peak hours where available road capacity is greater.

It is not anticipated that any tangible number of construction workers will commute to the construction sites via public transit or active transportation. When on the site, these workers are expected to remain in their designated work areas.

5.2 Lane Closures and Road Disruptions

Construction activity will occur adjacent to roads and is not expected to significantly impact traffic. No long-term road closures of study area roads are planned, with all roads maintaining two-way access throughout the duration of the construction period. Short duration closures of live vehicle lanes may be necessary to complete certain construction activities.

There is potential for partial lane closures on Mount Hope Road to complete construction works. Mount Hope Road, which serves approximately nine residential houses within the study area, may experience short-term, temporary lane closures. These partial closures are anticipated to have minimal impact on local traffic as the area does not experience heavy traffic, and alternative routes are available.

No other temporary lane closures anticipated in the study area. Any temporary lane closure should be managed in accordance with the Ontario traffic Manual (OTM) *Book 7: Temporary Conditions*.[28] This manual provides guidelines for safely managing temporary lane closures and ensuring minimal disruption to traffic flow.

Trenchless construction techniques are being employed at the study area roundabouts to avoid disruptions to intersection operations. As trenchless technology involves minimal surface disruption, it will not cause significant delays or changes to the existing traffic conditions around the intersections. Any temporary disruptions that may occur during the construction of shafts, such as brief lane closures or

[28] Ontario Traffic Manual (OTM), *Book 7: Temporary Conditions*, 2014.

equipment setup, should be outlined in the traffic management plans. Strategies to minimize impacts on traffic and maintain safe and efficient movement should be clearly communicated to road users.

5.3 Traffic Management

Detailed Traffic management plans will be developed for the construction sites once specifics about these sites are established closer to the start date of construction. These plans will detail the signage and pavement markings that will be setup at each site for each stage of construction. Specific strategies will be put in place to manage construction traffic and ensure the safety of all road users, including construction workers, local residents, and commuters.

Construction activities are planned to occur outside of live vehicle lanes, meaning work within the boulevard and shoulders of the study area roads may occur. Temporary traffic control measures may be implemented as needed to direct truck traffic safely through the area, particularly during peak construction periods.



6 Conclusions and Recommendations

6.1 Conclusions

Based on the investigations carried out, it is concluded that:

Existing Conditions:

- The highest traffic volumes were recorded on Highway 50, followed by Emil Kolb Parkway, highlighting their key roles in the area's transportation network.
- The highest number of collisions were recorded at the roundabouts on Emil Kolb Parkway at King Street and Highway 50, with all incidents classified as property damage only (PDO).
- There are two transit routes operating in the study area that provide local and inter-regional travel opportunities.
- Active transportation facilities in the study area include a multi-use path (MUP) along Columbia Way and a multi-use trail (MUT) along Emil Kolb Parkway.

Future Conditions:

- Traffic volumes are anticipated to grow at current pace, which is manageable through existing road infrastructure and Region plans.
- Through this study, no major road network improvements are planned for the study area.
- The planned works related to this study are not expected to impact future transportation conditions to any significant extent.
- The construction of a sanitary pumping station, scheduled to be completed by 2029, will have site access via a private driveway connection to Emil Kolb Parkway. This access is not expected to impact transportation conditions to any significant extent.

Construction Conditions:

- Construction activities will generate additional temporary truck traffic, with a maximum of 34 trucks per hour, particularly in off-peak hours between 1:00 AM and 3:00 AM.
- Approximately 27 trucks per hour are anticipated during the AM peak hour (one hour between 7:00 AM and 9:00 AM). In the PM peak hour (one hour between 4:00 PM and 6:00 PM) truck volumes are expected to range between 11 and 16 trucks per hour.



- Due to off-peak scheduling and the distribution of traffic across the entire study area, the temporary traffic disruptions are not expected to be significant relative to typical construction works.
- No lane closures are planned for the majority of the proposed works. Due to the narrow right-of-way width along Mount Hope Road, temporary segmented closures may be required during construction activity. Trenchless construction techniques will minimize impacts at the roundabouts.
- Detailed traffic management plans will be developed to ensure safe and appropriate traffic flow during construction.

Sanitary Pumping Station Access Review:

- A review of the site access location for the Sanitary Pumping Station indicates adequate corner clearance, access spacing, throat length, access alignment and sight distance at the intersection of proposed driveway and Emil Kolb Parkway.
- A raised concrete centre median island is recommended to be installed on Emily Kolb Parkway at the site access. The purpose of the island would be to eliminate left turn vehicle conflicts and dwelling of southbound vehicles in the single through lane along the curve at Emil Kolb Parkway. It will also reduce the likelihood of head-on and sideswipe collisions, as per TAC GDGCR guidelines, by clearly delineating lanes and preventing vehicles from straying into opposing lanes.
- No auxiliary turn lanes are warranted due to the low traffic volumes generated by the site.
- A northbound acceleration lane is not required based on forecast traffic volumes. However, this lane can be considered given the grade of Emil Kolb Parkway at the site access.
- Signage and pavement markings are recommended as they relate to the new site access for the pumping station.

6.2 Recommendations

Based on the study results, it is recommended that:

- No traffic capacity upgrades on the public road network be pursued based on the infrastructure upgrades planned through the EA.
- Full vehicle access in both directions be maintained during construction works.
- A raised concrete centre median island be installed on Emil Kolb Parkway at the access to sanitary pumping station.



- The need for an acceleration lane at the sanitary pumping station access be considered.
- A Wa-113A intersection warning sign and a Wa-118t hidden intersection tab sign be considered for Emil Kolb Parkway, 265 metres south of the planned sanitary pumping station driveway.
- Traffic management plans be developed in collaboration with local traffic authorities and municipal stakeholders.

Appendix A

Pre-Study Consultation Notes

From: Anastasio, Sandra < SAnastasio@geiconsultants.com >
Sent: September 16, 2024 3:59 PM
To: Josh de Boer < jdeboer@ptsl.com >
Cc: Campbell, Chris < ChCampbell@geiconsultants.com > ; Rojas-Contento, Julia < JRojasContento@geiconsultants.com > ; Prateek Jain < pjain@ptsl.com > ; Lin, Alice < ALin@geiconsultants.com >
Subject: RE: (220149) Bolton EA - Background Information

Hi Josh,

Yes, we agree with the scope discussed. Let us know if you have any questions on the files received.

We are still working through the shaft locations for the preferred route. Please let us know if there is anything we can consider as we go through the evaluation process as well as considerations for the SPS access point.

Thanks,
Sandra

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From: Josh de Boer < jdeboer@ptsl.com >
Sent: Sunday, September 15, 2024 12:33 PM
To: Anastasio, Sandra < SAnastasio@geiconsultants.com >
Cc: Campbell, Chris < ChCampbell@geiconsultants.com > ; Rojas-Contento, Julia < JRojasContento@geiconsultants.com > ; Prateek Jain < pjain@ptsl.com > ; Lin, Alice < ALin@geiconsultants.com >
Subject: [EXT] RE: (220149) Bolton EA - Background Information

EXTERNAL EMAIL

Thank you Sandra.

We will review the data.

Did the Region confirm the scope of our work?

Joshua de Boer, M.Eng., P.Eng., PTOE
Senior Project Manager, Associate
(He/Him)

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From: Anastasio, Sandra < SAnastasio@geiconsultants.com >
Sent: September 13, 2024 8:29 AM
To: Josh de Boer < jdeboer@ptsl.com >
Cc: Campbell, Chris < ChCampbell@geiconsultants.com > ; Rojas-Contento, Julia < JRojasContento@geiconsultants.com > ; Prateek Jain < pjain@ptsl.com > ; Lin, Alice < ALin@geiconsultants.com >
Subject: RE: (220149) Bolton EA - Background Information

Hi Josh,

Please find attached the Bolton EA traffic information from the Region. Please note that there were no traffic counts for the area of Columbia Way / Mount Hope.

Thanks,
Sandra

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---

From: Josh de Boer < jdeboer@ptsl.com >
Sent: Tuesday, August 13, 2024 7:47 AM
To: Anastasio, Sandra < SAnastasio@geiconsultants.com >
Cc: Campbell, Chris < ChCampbell@geiconsultants.com > ; Rojas-Contento, Julia < JRojasContento@geiconsultants.com > ; Prateek Jain < pjain@ptsl.com >
Subject: [EXT] RE: (220149) Bolton EA - Background Information

EXTERNAL EMAIL

Good morning Sandra,

In terms of data, the following items would be beneficial:

- **Annual Average Daily Traffic (AADT).** This is the primary piece of info we would base our review on and should be somewhat easily available from the Region.

- **Turning Movement Counts (TMCs).** Any TMCs at key intersections would be helpful to understand specific turning movement impacts.
- **Collision Data.** If there are any key locations identified by the Region, including the potential driveway location, providing the collision data would help our review.
- **Speed Data.** Similar to collision data, speed data at key locations would be helpful.

If some of the roads are not Regional, we would need to get that information from Caledon.

Regards,

Joshua de Boer, M.Eng., P.Eng., PTOE
Senior Project Manager, Associate
(He/Him)

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From: Anastasio, Sandra < SAnastasio@geiconsultants.com >
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To: Josh de Boer < jdeboer@ptsl.com >
Cc: Prateek Jain < pjain@ptsl.com > ; Campbell, Chris < ChCampbell@geiconsultants.com > ; Rojas-Contento, Julia < JRojasContento@geiconsultants.com >
Subject: RE: (220149) Bolton EA - Background Information

Hi Josh,

We have a call with the Region this week (the previous one was cancelled). We will advise Italia on your suggested scope. Based on this scope, would you be able to provide a list of data you will need from the Region so we can discuss with Italia on the call?

Thanks,
Sandra

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---

From: Josh de Boer < jdeboer@ptsl.com >
Sent: Wednesday, July 31, 2024 9:18 AM
To: Anastasio, Sandra < SAnastasio@geiconsultants.com >
Cc: Prateek Jain < pjain@ptsl.com > ; Campbell, Chris < ChCampbell@geiconsultants.com > ; Rojas-Contento, Julia < JRojasContento@geiconsultants.com >
Subject: [EXT] RE: (220149) Bolton EA - Background Information

EXTERNAL EMAIL

Yes, to both.

Joshua de Boer, M.Eng., P.Eng., PTOE
Senior Project Manager, Associate
(He/Him)

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Sent: Wednesday, July 31, 2024 8:32 AM
To: Josh de Boer < jdeboer@ptsl.com >
Cc: Prateek Jain < pjain@ptsl.com > ; Campbell, Chris < ChCampbell@geiconsultants.com > ; Rojas-Contento, Julia < JRojasContento@geiconsultants.com >
Subject: RE: (220149) Bolton EA - Background Information

Hi Josh,

Your suggested scope looks good. We can confirm this with the Region at our next bi-weekly call with them. Just a couple clarifications:

- Would this include mitigation measures for any identified potential impacts?
- For the review of the public access road for the SPS, would this include a recommended location for the entrance/exit based on the area we are looking at?

Thanks,
Sandra

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---

From: Josh de Boer < jdeboer@ptsl.com >
Sent: Monday, July 29, 2024 3:34 PM
To: Campbell, Chris < ChCampbell@geiconsultants.com > ; Rojas-Contento, Julia < JRojasContento@geiconsultants.com > ; Anastasio, Sandra < SAnastasio@geiconsultants.com >
Cc: Prateek Jain < pjain@ptsl.com >
Subject: [EXT] RE: (220149) Bolton EA - Background Information

EXTERNAL EMAIL

Good afternoon,

I reviewed the files and based on the information and our meeting last week, there don ’t appear to substantial transportation impacts. The Region of Peel may be seeking the following four aspects through our work:

- A qualitative analysis of existing transportation conditions.
- A qualitative analysis of future transportation conditions.
- A qualitative analysis of construction conditions. I recall from our call that there will be no lane closures required for the construction works. However, typically there are some impacts at the shaft location. Also, if there are any construction impacts on the public road network beyond the shaft location, we would discuss these.
- A review of public road access for the new Sanitary Pumping Station.

Please let me know if this is what your team is looking for in terms of transportation considerations. As discussed, it ’s best we confirm our approach with the Region ’s transportation staff before starting our work.

Regards,

Joshua de Boer, M.Eng., P.Eng., PTOE
Senior Project Manager, Associate
(He/Him)

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Appendix B

Annual Average Daily Traffic (AADT) Estimates

Road Number:

Road Name: **King Street**

Location: **275m East of Hwy 50/Queen Street**

Site Number: **00901760EW**

24 Hour Factor:

Direction: **East**

Dates---->		2024-04-01	2024-04-02	**2024-04-03**	**Average**
o:oo	1:00	26	21	**20**	**22**
1:00	2:00	14	11	**16**	**14**
2:00	3:00	8	11	**8**	**9**
3:00	4:00	9	9	**11**	**10**
4:00	5:00	25	24	**23**	**24**
5:00	6:00	88	116	**79**	**94**
6:00	7:00	137	181	**172**	**163**
7:00	8:00	189	331	**321**	**280**
8:00	9:00	211	412	**379**	**334**
9:00	10:00	226	293	**249**	**255**
10:00	11:00	303	251	**222**	**258**
11:00	12:00	309	324	**340**	**325**
12:00	13:00	393	360	**339**	**364**
13:00	14:00	369	349	**327**	**348**
14:00	15:00	396	402	**412**	**404**
15:00	16:00	447	487	**502**	**478**
16:00	17:00	518	641	**588**	**582**
17:00	18:00	537	597	**557**	**565**
18:00	19:00	359	378	**364**	**367**
19:00	20:00	274	282	**272**	**276**
20:00	21:00	192	216	**236**	**215**
21:00	22:00	133	168	**125**	**142**
22:00	23:00	87	89	**96**	**90**
23:00	o:oo	48	25	**44**	**39**
24 Hour Total		5,298	5,978	**5,702**	**5,658**
Highest 8 Hours		3,328	3,626	**3,481**	**3,442**

Road Number:

Road Name: **King Street**

Location: **275m East of Hwy 50/Queen Street**

Site Number: **00901760EW**

24 Hour Factor:

Direction: **West**

Dates---->		01-04-24	02-04-24	**03-04-24**	**Average**
o:oo	1:00	2	3	**4**	**3**
1:00	2:00	1	3	**8**	**4**
2:00	3:00	2	2	**1**	**2**
3:00	4:00	1	2	**6**	**4**
4:00	5:00	3	4	**6**	**4**
5:00	6:00	12	23	**27**	**21**
6:00	7:00	24	32	**47**	**34**
7:00	8:00	47	87	**74**	**69**
8:00	9:00	44	149	**141**	**111**
9:00	10:00	42	69	**61**	**58**
10:00	11:00	58	55	**43**	**53**
11:00	12:00	63	68	**104**	**78**
12:00	13:00	80	68	**80**	**76**
13:00	14:00	62	54	**65**	**60**
14:00	15:00	83	68	**107**	**86**
15:00	16:00	90	209	**278**	**193**
16:00	17:00	92	145	**154**	**130**
17:00	18:00	90	120	**136**	**115**
18:00	19:00	62	69	**87**	**73**
19:00	20:00	43	45	**70**	**53**
20:00	21:00	20	35	**52**	**36**
21:00	22:00	16	26	**22**	**21**
22:00	23:00	10	13	**23**	**16**
23:00	o:oo	2	4	**20**	**8**
24 Hour Total		**949**	**1,353**	**1,616**	**1,308**
Highest 8 Hours		**622**	**1,052**	**1,087**	**862**

Road Number:

Road Name: **King Street**

Location: **275m East of Hwy 50/Queen Street**

Site Number: **00901760EW**

24 Hour Factor: **East + West**

Direction:

Dates---->		01-04-2024	02-04-2024	**03-04-2024**	**Average**
o:oo	1:00	28	24	**24**	**25**
1:00	2:00	15	14	**24**	**18**
2:00	3:00	10	13	**9**	**11**
3:00	4:00	10	11	**17**	**14**
4:00	5:00	28	28	**29**	**28**
5:00	6:00	100	139	**106**	**115**
6:00	7:00	161	213	**219**	**197**
7:00	8:00	236	418	**395**	**349**
8:00	9:00	255	561	**520**	**445**
9:00	10:00	268	362	**310**	**313**
10:00	11:00	361	306	**265**	**311**
11:00	12:00	372	392	**444**	**403**
12:00	13:00	473	428	**419**	**440**
13:00	14:00	431	403	**392**	**408**
14:00	15:00	479	470	**519**	**490**
15:00	16:00	537	696	**780**	**671**
16:00	17:00	610	786	**742**	**712**
17:00	18:00	627	717	**693**	**680**
18:00	19:00	421	447	**451**	**440**
19:00	20:00	317	327	**342**	**329**
20:00	21:00	212	251	**288**	**251**
21:00	22:00	149	194	**147**	**163**
22:00	23:00	97	102	**119**	**106**
23:00	o:oo	50	29	**64**	**47**
24 Hour Total		**6,247**	**7,331**	**7,318**	**6,966**
Highest 8 Hours		**3,950**	**4,523**	**4,568**	**4,286**

Road Number:

Road Name: **Hwy 50**

Location: **400m South of Columbia Way**

Site Number: **05018120NS**

24 Hour Factor:

Direction: **North** 43.888922,-79.751058

Dates---->		2024-04-30	2024-05-01	**2024-05-02**	**Average**
o:oo	1:00	46	37	**43**	**43**
1:00	2:00	24	27	**21**	**23**
2:00	3:00	14	17	**13**	**15**
3:00	4:00	11	12	**13**	**12**
4:00	5:00	20	22	**22**	**21**
5:00	6:00	59	58	**88**	**68**
6:00	7:00	141	126	**157**	**142**
7:00	8:00	267	281	**259**	**270**
8:00	9:00	349	376	**336**	**354**
9:00	10:00	288	296	**294**	**292**
10:00	11:00	298	305	**290**	**298**
11:00	12:00	354	310	**300**	**322**
12:00	13:00	367	366	**350**	**361**
13:00	14:00	364	376	**341**	**360**
14:00	15:00	474	373	**423**	**423**
15:00	16:00	581	540	**565**	**563**
16:00	17:00	616	543	**582**	**579**
17:00	18:00	625	592	**564**	**595**
18:00	19:00	512	473	**515**	**499**
19:00	20:00	392	451	**418**	**420**
20:00	21:00	344	348	**353**	**349**
21:00	22:00	223	252	**245**	**240**
22:00	23:00	197	164	**164**	**175**
23:00	o:oo	106	93	**123**	**107**
24 Hour Total		6,672	6,438	**6,479**	**6,531**
Highest 8 Hours		3,931	3,724	**3,770**	**3,800**

Road Number:

Road Name: **Hwy 50**

Location: **400m South of Columbia Way**

Site Number: **05018120NS**

24 Hour Factor:

Direction: **South** 43.888922,-79.751058

Dates---->		30-04-24	01-05-24	**02-05-24**	**Average**
o:oo	1:00	17	20	**17**	**18**
1:00	2:00	16	13	**17**	**15**
2:00	3:00	28	22	**21**	**23**
3:00	4:00	23	24	**26**	**25**
4:00	5:00	104	90	**90**	**94**
5:00	6:00	219	218	**218**	**219**
6:00	7:00	341	358	**347**	**349**
7:00	8:00	449	439	**400**	**430**
8:00	9:00	504	488	**432**	**474**
9:00	10:00	414	397	**400**	**405**
10:00	11:00	384	376	**320**	**360**
11:00	12:00	352	361	**329**	**348**
12:00	13:00	389	341	**358**	**363**
13:00	14:00	352	332	**343**	**343**
14:00	15:00	404	345	**406**	**385**
15:00	16:00	343	324	**360**	**343**
16:00	17:00	354	347	**373**	**358**
17:00	18:00	345	367	**341**	**351**
18:00	19:00	356	350	**366**	**357**
19:00	20:00	300	361	**321**	**328**
20:00	21:00	243	282	**241**	**256**
21:00	22:00	178	182	**183**	**181**
22:00	23:00	105	106	**90**	**100**
23:00	o:oo	46	34	**59**	**46**
24 Hour Total		**6,266**	**6,177**	**6,058**	**6,171**
Highest 8 Hours		**3,254**	**3,147**	**3,095**	**3,132**

Road Number:

Road Name: **Hwy 50**

Location: **400m South of Columbia Way**

Site Number: **05018120NS**

24 Hour Factor: **North + South** 43.888922,-79.751058

Direction:

Dates---->		30-04-2024	01-05-2024	**02-05-2024**	**Average**
o:oo	1:00	63	57	**60**	**61**
1:00	2:00	40	40	**38**	**38**
2:00	3:00	42	39	**34**	**38**
3:00	4:00	34	36	**39**	**37**
4:00	5:00	124	112	**112**	**115**
5:00	6:00	278	276	**306**	**287**
6:00	7:00	482	484	**504**	**491**
7:00	8:00	716	720	**659**	**700**
8:00	9:00	853	864	**768**	**828**
9:00	10:00	702	693	**694**	**697**
10:00	11:00	682	681	**610**	**658**
11:00	12:00	706	671	**629**	**670**
12:00	13:00	756	707	**708**	**724**
13:00	14:00	716	708	**684**	**703**
14:00	15:00	878	718	**829**	**808**
15:00	16:00	924	864	**925**	**906**
16:00	17:00	970	890	**955**	**937**
17:00	18:00	970	959	**905**	**946**
18:00	19:00	868	823	**881**	**856**
19:00	20:00	692	812	**739**	**748**
20:00	21:00	587	630	**594**	**605**
21:00	22:00	401	434	**428**	**421**
22:00	23:00	302	270	**254**	**275**
23:00	o:oo	152	127	**182**	**153**
24 Hour Total		**12,938**	**12,615**	**12,537**	**12,702**
Highest 8 Hours		**7,651**	**6,650**	**6,710**	**6,753**

Road Number:

Road Name: **Hwy 50**

Location: **600m South of Emil Kolb Parkway**

Site Number: **05019053NS**

24 Hour Factor:

Direction: **North** 43.894861,-79.759256

Dates---->		2024-04-30	2024-05-01	**2024-05-02**	**Average**
o:oo	1:00	38	32	**33**	**34**
1:00	2:00	22	28	**23**	**24**
2:00	3:00	9	14	**9**	**11**
3:00	4:00	13	9	**11**	**11**
4:00	5:00	20	21	**22**	**21**
5:00	6:00	52	56	**84**	**64**
6:00	7:00	134	129	**154**	**139**
7:00	8:00	259	283	**270**	**271**
8:00	9:00	340	380	**337**	**352**
9:00	10:00	245	239	**258**	**247**
10:00	11:00	242	266	**240**	**249**
11:00	12:00	285	262	**270**	**272**
12:00	13:00	336	305	**275**	**305**
13:00	14:00	352	356	**319**	**342**
14:00	15:00	461	388	**411**	**420**
15:00	16:00	569	540	**580**	**563**
16:00	17:00	557	473	**557**	**529**
17:00	18:00	542	512	**502**	**519**
18:00	19:00	458	397	**422**	**426**
19:00	20:00	307	369	**357**	**344**
20:00	21:00	279	299	**282**	**287**
21:00	22:00	194	217	**209**	**206**
22:00	23:00	168	143	**145**	**152**
23:00	o:oo	86	88	**106**	**93**
24 Hour Total		5,968	5,806	**5,876**	**5,881**
Highest 8 Hours		3,615	3,415	**3,485**	**3,495**

Road Number:

Road Name: **Hwy 50**

Location: **600m South of Emil Kolb Parkway**

Site Number: **05019053NS**

24 Hour Factor:

Direction: **South** 43.894861,-79.759256

Dates---->		30-04-24	01-05-24	**02-05-24**	**Average**
o:oo	1:00	14	16	**14**	**15**
1:00	2:00	15	11	**16**	**13**
2:00	3:00	24	20	**22**	**22**
3:00	4:00	20	18	**21**	**19**
4:00	5:00	92	82	**77**	**83**
5:00	6:00	196	198	**195**	**196**
6:00	7:00	310	313	**311**	**311**
7:00	8:00	426	433	**373**	**410**
8:00	9:00	462	431	**395**	**429**
9:00	10:00	369	348	**349**	**355**
10:00	11:00	288	273	**245**	**269**
11:00	12:00	272	288	**260**	**274**
12:00	13:00	288	292	**279**	**286**
13:00	14:00	297	294	**316**	**302**
14:00	15:00	326	316	**351**	**331**
15:00	16:00	284	310	**339**	**311**
16:00	17:00	379	332	**362**	**357**
17:00	18:00	341	384	**353**	**359**
18:00	19:00	301	287	**301**	**296**
19:00	20:00	235	265	**258**	**253**
20:00	21:00	178	221	**190**	**196**
21:00	22:00	142	156	**153**	**150**
22:00	23:00	92	68	**68**	**76**
23:00	o:oo	38	26	**48**	**37**
24 Hour Total		**5,389**	**5,382**	**5,296**	**5,350**
Highest 8 Hours		**2,914**	**2,867**	**2,838**	**2,863**

Road Number:

Road Name: **Hwy 50**

Location: **600m South of Emil Kolb Parkway**

Site Number: **05019053NS**

24 Hour Factor: **North + South** 43.894861,-79.759256

Direction:

Dates---->		30-04-2024	01-05-2024	**02-05-2024**	**Average**
o:oo	1:00	52	48	**47**	**49**
1:00	2:00	37	39	**39**	**37**
2:00	3:00	33	34	**31**	**33**
3:00	4:00	33	27	**32**	**30**
4:00	5:00	112	103	**99**	**104**
5:00	6:00	248	254	**279**	**260**
6:00	7:00	444	442	**465**	**450**
7:00	8:00	685	716	**643**	**681**
8:00	9:00	802	811	**732**	**781**
9:00	10:00	614	587	**607**	**602**
10:00	11:00	530	539	**485**	**518**
11:00	12:00	557	550	**530**	**546**
12:00	13:00	624	597	**554**	**591**
13:00	14:00	649	650	**635**	**644**
14:00	15:00	787	704	**762**	**751**
15:00	16:00	853	850	**919**	**874**
16:00	17:00	936	805	**919**	**886**
17:00	18:00	883	896	**855**	**878**
18:00	19:00	759	684	**723**	**722**
19:00	20:00	542	634	**615**	**597**
20:00	21:00	457	520	**472**	**483**
21:00	22:00	336	373	**362**	**356**
22:00	23:00	260	211	**213**	**228**
23:00	o:oo	124	114	**154**	**130**
24 Hour Total		**11,357**	**11,188**	**11,172**	**11,231**
Highest 8 Hours		**6,354**	**6,116**	**6,188**	**6,217**

Road Number:

Road Name: **Emil Kolb Parkway**

Location: **300m North of King Street/Emil Kolb Parkway Roundabout**

Site Number: **15002244NS**

24 Hour Factor:

Direction: **North** 43.877250°,-79.765434°

Dates---->		2024-04-29	2024-04-30	**2024-05-01**	**Average**
o:oo	1:00	14	9	**12**	**12**
1:00	2:00	9	10	**14**	**10**
2:00	3:00	4	9	**13**	**9**
3:00	4:00	6	7	**4**	**6**
4:00	5:00	29	25	**28**	**27**
5:00	6:00	58	64	**63**	**62**
6:00	7:00	115	117	**126**	**119**
7:00	8:00	200	187	**197**	**194**
8:00	9:00	168	182	**203**	**184**
9:00	10:00	150	136	**169**	**151**
10:00	11:00	132	134	**27**	**97**
11:00	12:00	137	154		**98**
12:00	13:00	172	160		**111**
13:00	14:00	179	184		**122**
14:00	15:00	255	237		**164**
15:00	16:00	419	395		**270**
16:00	17:00	515	541		**351**
17:00	18:00	442	469		**304**
18:00	19:00	259	299		**186**
19:00	20:00	143	154		**98**
20:00	21:00	91	115		**69**
21:00	22:00	79	86		**54**
22:00	23:00	50	73		**41**
23:00	o:oo	29	35		**20**
24 Hour Total		3,655	3,782	**856**	**2,759**
Highest 8 Hours		2,441	2,494	**827**	**1,804**

Road Number:

Road Name: **Emil Kolb Parkway**

Location: **300m North of King Street/Emil Kolb Parkway Roundabout**

Site Number: **15002244NS**

24 Hour Factor:

Direction: **South** 43.877250°,-79.765434°

Dates---->		29-04-24	30-04-24	**01-05-24**	**Average**
o:oo	1:00	11	11	**16**	**13**
1:00	2:00	9	7	**11**	**9**
2:00	3:00	4	7	**9**	**6**
3:00	4:00	13	19	**15**	**16**
4:00	5:00	49	37	**37**	**41**
5:00	6:00	172	170	**156**	**166**
6:00	7:00	323	352	**326**	**334**
7:00	8:00	470	461	**433**	**455**
8:00	9:00	385	430	**404**	**406**
9:00	10:00	211	238	**225**	**225**
10:00	11:00	182	158	**161**	**167**
11:00	12:00	159	169	**146**	**158**
12:00	13:00	177	151	**158**	**163**
13:00	14:00	152	170	**156**	**160**
14:00	15:00	217	194	**204**	**206**
15:00	16:00	235	237	**215**	**229**
16:00	17:00	217	185	**214**	**205**
17:00	18:00	257	194	**212**	**221**
18:00	19:00	149	194	**172**	**172**
19:00	20:00	157	132	**153**	**147**
20:00	21:00	78	106	**116**	**99**
21:00	22:00	30	63	**65**	**53**
22:00	23:00	38	46	**39**	**41**
23:00	o:oo	20	28	**29**	**26**
24 Hour Total		**3,715**	**3,759**	**3,672**	**3,718**
Highest 8 Hours		**2,315**	**2,300**	**2,233**	**2,281**

Road Number:

Road Name: **Emil Kolb Parkway**

Location: **300m North of King Street/Emil Kolb Parkway Roundabout**

Site Number: **15002244NS**

24 Hour Factor: **North + South** 43.877250°,-79.765434°

Direction:

Dates---->		29-04-2024	30-04-2024	**01-05-2024**	**Average**
o:oo	1:00	25	20	**28**	**25**
1:00	2:00	18	17	**25**	**19**
2:00	3:00	8	16	**22**	**15**
3:00	4:00	19	26	**19**	**22**
4:00	5:00	78	62	**65**	**68**
5:00	6:00	230	234	**219**	**228**
6:00	7:00	438	469	**452**	**453**
7:00	8:00	670	648	**630**	**649**
8:00	9:00	553	612	**607**	**590**
9:00	10:00	361	374	**394**	**376**
10:00	11:00	314	292	**188**	**264**
11:00	12:00	296	323	**146**	**256**
12:00	13:00	349	311	**158**	**274**
13:00	14:00	331	354	**156**	**282**
14:00	15:00	472	431	**204**	**370**
15:00	16:00	654	632	**215**	**499**
16:00	17:00	732	726	**214**	**556**
17:00	18:00	699	663	**212**	**525**
18:00	19:00	408	493	**172**	**358**
19:00	20:00	300	286	**153**	**245**
20:00	21:00	169	221	**116**	**168**
21:00	22:00	109	149	**65**	**107**
22:00	23:00	88	119	**39**	**82**
23:00	o:oo	49	63	**29**	**46**
24 Hour Total		**7,370**	**7,541**	**4,528**	**6,477**
Highest 8 Hours		**4,626**	**4,674**	**2,943**	**4,018**

Paradigm Transportation Solutions Limited
5A-150 Pinebush Rd

Cambridge, Ontario, Canada N1R 8J8
519-896-3163 cbowness@ptsl.com

Count Name: Mount Hope Rd and Columbia Way
Site Code: 230561
Start Date: 10/24/2023

Turning Movement Data

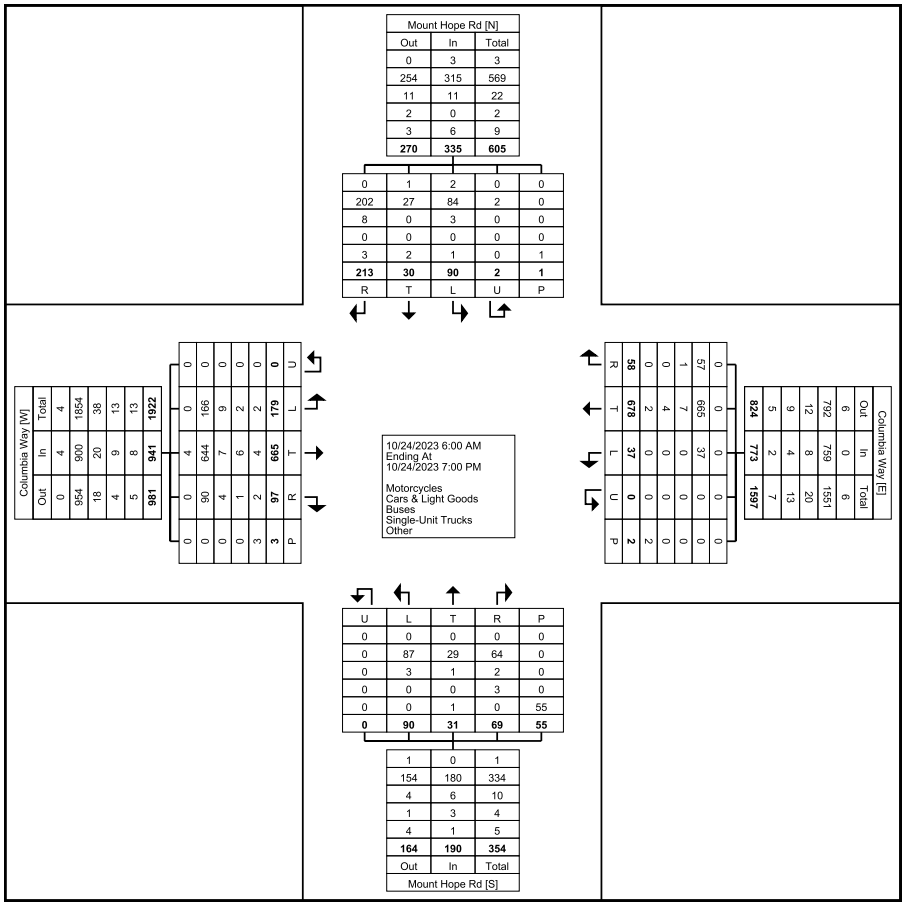
Start Time	Mount Hope Rd Southbound						Columbia Way Westbound						Mount Hope Rd Northbound						Columbia Way Eastbound						Int. Total
	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	
6:00 AM	1	0	1	0	0	2	0	5	0	0	0	5	3	0	1	0	1	4	1	9	3	0	0	13	24
6:15 AM	2	0	0	0	0	2	0	6	0	0	1	6	1	0	2	0	0	3	0	14	2	0	0	16	27
6:30 AM	2	0	3	0	0	5	0	9	0	0	0	9	5	1	3	0	0	9	1	22	2	0	0	25	48
6:45 AM	3	0	7	0	0	10	2	14	0	0	0	16	7	0	5	0	0	12	1	15	4	0	0	20	58
Hourly Total	8	0	11	0	0	19	2	34	0	0	1	36	16	1	11	0	1	28	3	60	11	0	0	74	157
7:00 AM	5	0	2	0	0	7	1	15	0	0	0	16	2	3	4	0	0	9	1	24	4	0	0	29	61
7:15 AM	5	1	2	0	0	8	1	20	0	0	0	21	4	3	4	0	1	11	0	23	5	0	0	28	68
7:30 AM	7	0	5	0	1	12	5	27	2	0	1	34	1	4	1	0	1	6	4	21	4	0	1	29	81
7:45 AM	14	3	5	0	0	22	3	45	0	0	0	48	3	3	4	0	3	10	1	33	5	0	2	39	119
Hourly Total	31	4	14	0	1	49	10	107	2	0	1	119	10	13	13	0	5	36	6	101	18	0	3	125	329
8:00 AM	36	0	6	1	0	43	1	74	1	0	0	76	2	0	19	0	2	21	6	42	17	0	0	65	205
8:15 AM	29	1	6	0	0	36	3	33	0	0	0	36	4	4	13	0	0	21	4	38	11	0	0	53	146
8:30 AM	8	1	4	0	0	13	2	26	0	0	0	28	3	1	3	0	1	7	4	34	13	0	0	51	99
8:45 AM	9	0	1	0	0	10	2	16	0	0	0	18	1	0	6	0	3	7	1	21	8	0	0	30	65
Hourly Total	82	2	17	1	0	102	8	149	1	0	0	158	10	5	41	0	6	56	15	135	49	0	0	199	515
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	8	1	0	0	0	9	4	28	3	0	0	35	2	0	2	0	5	4	9	29	5	0	0	43	91
4:15 PM	4	0	7	0	0	11	4	28	1	0	0	33	3	0	2	0	3	5	5	19	12	0	0	36	85
4:30 PM	6	3	5	0	0	14	2	31	4	0	0	37	5	1	2	0	2	8	7	27	14	0	0	48	107
4:45 PM	6	1	4	0	0	11	3	33	1	0	0	37	6	3	4	0	3	13	6	41	13	0	0	60	121
Hourly Total	24	5	16	0	0	45	13	120	9	0	0	142	16	4	10	0	13	30	27	116	44	0	0	187	404
5:00 PM	6	3	5	0	0	14	3	29	4	0	0	36	3	2	1	0	2	6	5	41	9	0	0	55	111
5:15 PM	7	2	1	0	0	10	1	39	4	0	0	44	4	0	1	0	4	5	7	27	12	0	0	46	105
5:30 PM	15	2	4	0	0	21	2	46	7	0	0	55	2	2	4	0	2	8	8	36	7	0	0	51	135
5:45 PM	21	5	8	0	0	34	5	28	2	0	0	35	2	1	0	0	3	3	7	38	8	0	0	53	125
Hourly Total	49	12	18	0	0	79	11	142	17	0	0	170	11	5	6	0	11	22	27	142	36	0	0	205	476
6:00 PM	5	3	4	0	0	12	4	39	2	0	0	45	1	0	4	0	5	5	4	32	4	0	0	40	102
6:15 PM	7	0	2	0	0	9	5	29	3	0	0	37	1	0	1	0	9	2	4	29	6	0	0	39	87
6:30 PM	2	1	3	1	0	7	1	34	3	0	0	38	1	1	1	0	5	3	5	23	6	0	0	34	82
6:45 PM	5	3	5	0	0	13	4	24	0	0	0	28	3	2	3	0	0	8	6	27	5	0	0	38	87
Hourly Total	19	7	14	1	0	41	14	126	8	0	0	148	6	3	9	0	19	18	19	111	21	0	0	151	358
Grand Total	213	30	90	2	1	335	58	678	37	0	2	773	69	31	90	0	55	190	97	665	179	0	3	941	2239
Approach %	63.6	9.0	26.9	0.6	-	-	7.5	87.7	4.8	0.0	-	-	36.3	16.3	47.4	0.0	-	-	10.3	70.7	19.0	0.0	-	-	-
Total %	9.5	1.3	4.0	0.1	-	15.0	2.6	30.3	1.7	0.0	-	34.5	3.1	1.4	4.0	0.0	-	8.5	4.3	29.7	8.0	0.0	-	42.0	-
Motorcycles	0	1	2	0	-	3	0	0	0	0	-	0	0	0	0	0	-	0	0	4	0	0	-	4	7

% Motorcycles	0.0	3.3	2.2	0.0	-	0.9	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.6	0.0	-	-	0.4	0.3
Cars & Light Goods	202	27	84	2	-	315	57	665	37	0	-	759	64	29	87	0	-	180	90	644	166	0	-	900	2154
% Cars & Light Goods	94.8	90.0	93.3	100.0	-	94.0	98.3	98.1	100.0	-	-	98.2	92.8	93.5	96.7	-	-	94.7	92.8	96.8	92.7	-	-	95.6	96.2
Buses	8	0	3	0	-	11	1	7	0	0	-	8	2	1	3	0	-	6	4	7	9	0	-	20	45
% Buses	3.8	0.0	3.3	0.0	-	3.3	1.7	1.0	0.0	-	-	1.0	2.9	3.2	3.3	-	-	3.2	4.1	1.1	5.0	-	-	2.1	2.0
Single-Unit Trucks	0	0	0	0	-	0	0	4	0	0	-	4	3	0	0	0	-	3	1	6	2	0	-	9	16
% Single-Unit Trucks	0.0	0.0	0.0	0.0	-	0.0	0.0	0.6	0.0	-	-	0.5	4.3	0.0	0.0	-	-	1.6	1.0	0.9	1.1	-	-	1.0	0.7
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	2	0	0	-	2	2
% Articulated Trucks	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.3	0.0	-	-	0.2	0.1
Bicycles on Road	3	2	1	0	-	6	0	2	0	0	-	2	0	1	0	0	-	1	2	2	2	0	-	6	15
% Bicycles on Road	1.4	6.7	1.1	0.0	-	1.8	0.0	0.3	0.0	-	-	0.3	0.0	3.2	0.0	-	-	0.5	2.1	0.3	1.1	-	-	0.6	0.7
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-	-	-	-	1.8	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	54	-	-	-	-	-	3	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	98.2	-	-	-	-	-	100.0	-	-

Paradigm Transportation Solutions Limited
5A-150 Pinebush Rd

Cambridge, Ontario, Canada N1R 8J8
519-896-3163 cbowness@ptsl.com

Count Name: Mount Hope Rd and Columbia Way
Site Code: 230561
Start Date: 10/24/2023



Turning Movement Data Plot

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Count Name: Mount Hope Rd and Columbia Way
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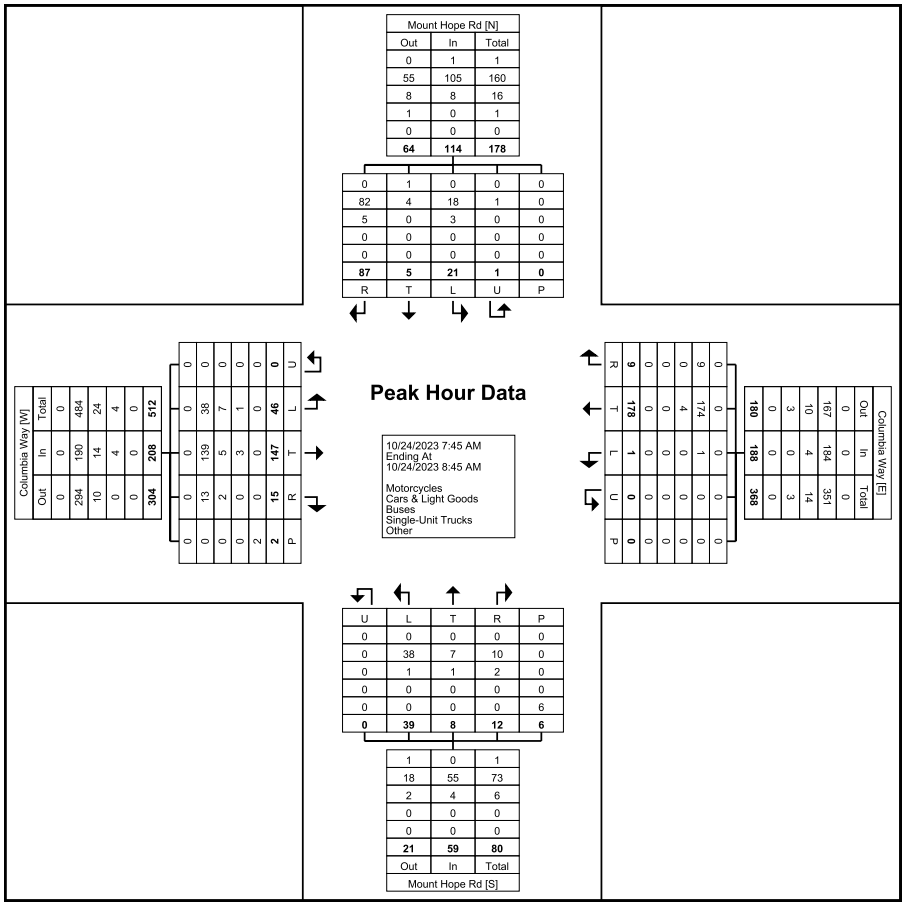
Turning Movement Peak Hour Data (7:45 AM)

Start Time	Mount Hope Rd Southbound						Columbia Way Westbound						Mount Hope Rd Northbound						Columbia Way Eastbound						Int. Total
	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	
7:45 AM	14	3	5	0	0	22	3	45	0	0	0	48	3	3	4	0	3	10	1	33	5	0	2	39	119
8:00 AM	36	0	6	1	0	43	1	74	1	0	0	76	2	0	19	0	2	21	6	42	17	0	0	65	205
8:15 AM	29	1	6	0	0	36	3	33	0	0	0	36	4	4	13	0	0	21	4	38	11	0	0	53	146
8:30 AM	8	1	4	0	0	13	2	26	0	0	0	28	3	1	3	0	1	7	4	34	13	0	0	51	99
Total	87	5	21	1	0	114	9	178	1	0	0	188	12	8	39	0	6	59	15	147	46	0	2	208	569
Approach %	76.3	4.4	18.4	0.9	-	-	4.8	94.7	0.5	0.0	-	-	20.3	13.6	66.1	0.0	-	-	7.2	70.7	22.1	0.0	-	-	-
Total %	15.3	0.9	3.7	0.2	-	20.0	1.6	31.3	0.2	0.0	-	33.0	2.1	1.4	6.9	0.0	-	10.4	2.6	25.8	8.1	0.0	-	36.6	-
PHF	0.604	0.417	0.875	0.250	-	0.663	0.750	0.601	0.250	0.000	-	0.618	0.750	0.500	0.513	0.000	-	0.702	0.625	0.875	0.676	0.000	-	0.800	0.694
Motorcycles	0	1	0	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	1
% Motorcycles	0.0	20.0	0.0	0.0	-	0.9	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.2
Cars & Light Goods	82	4	18	1	-	105	9	174	1	0	-	184	10	7	38	0	-	55	13	139	38	0	-	190	534
% Cars & Light Goods	94.3	80.0	85.7	100.0	-	92.1	100.0	97.8	100.0	-	-	97.9	83.3	87.5	97.4	-	-	93.2	86.7	94.6	82.6	-	-	91.3	93.8
Buses	5	0	3	0	-	8	0	4	0	0	-	4	2	1	1	0	-	4	2	5	7	0	-	14	30
% Buses	5.7	0.0	14.3	0.0	-	7.0	0.0	2.2	0.0	-	-	2.1	16.7	12.5	2.6	-	-	6.8	13.3	3.4	15.2	-	-	6.7	5.3
Single-Unit Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	3	1	0	-	4	4
% Single-Unit Trucks	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	2.0	2.2	-	-	1.9	0.7
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	6	-	-	-	-	-	2	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-

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Start Date: 10/24/2023



Turning Movement Peak Hour Data Plot (7:45 AM)

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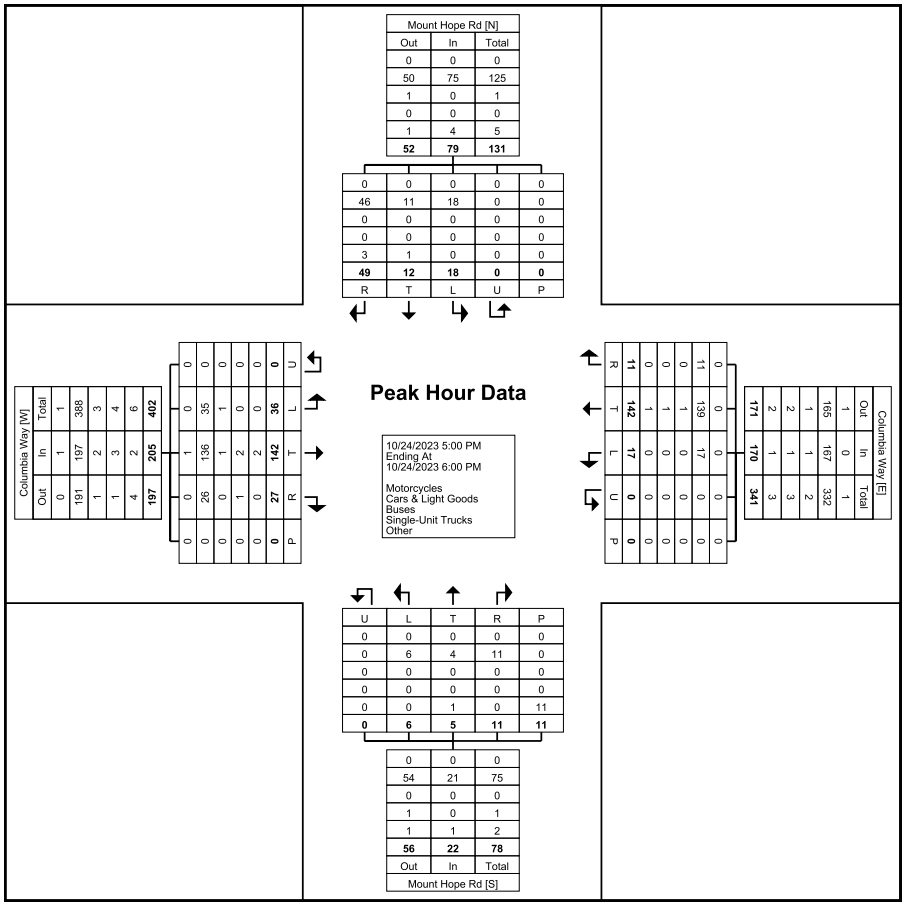
Turning Movement Peak Hour Data (5:00 PM)

Start Time	Mount Hope Rd Southbound						Columbia Way Westbound						Mount Hope Rd Northbound						Columbia Way Eastbound						Int. Total
	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	
5:00 PM	6	3	5	0	0	14	3	29	4	0	0	36	3	2	1	0	2	6	5	41	9	0	0	55	111
5:15 PM	7	2	1	0	0	10	1	39	4	0	0	44	4	0	1	0	4	5	7	27	12	0	0	46	105
5:30 PM	15	2	4	0	0	21	2	46	7	0	0	55	2	2	4	0	2	8	8	36	7	0	0	51	135
5:45 PM	21	5	8	0	0	34	5	28	2	0	0	35	2	1	0	0	3	3	7	38	8	0	0	53	125
Total	49	12	18	0	0	79	11	142	17	0	0	170	11	5	6	0	11	22	27	142	36	0	0	205	476
Approach %	62.0	15.2	22.8	0.0	-	-	6.5	83.5	10.0	0.0	-	-	50.0	22.7	27.3	0.0	-	-	13.2	69.3	17.6	0.0	-	-	-
Total %	10.3	2.5	3.8	0.0	-	16.6	2.3	29.8	3.6	0.0	-	35.7	2.3	1.1	1.3	0.0	-	4.6	5.7	29.8	7.6	0.0	-	43.1	-
PHF	0.583	0.600	0.563	0.000	-	0.581	0.550	0.772	0.607	0.000	-	0.773	0.688	0.625	0.375	0.000	-	0.688	0.844	0.866	0.750	0.000	-	0.932	0.881
Motorcycles	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	1	1
% Motorcycles	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.7	0.0	-	-	0.5	0.2
Cars & Light Goods	46	11	18	0	-	75	11	139	17	0	-	167	11	4	6	0	-	21	26	136	35	0	-	197	460
% Cars & Light Goods	93.9	91.7	100.0	-	-	94.9	100.0	97.9	100.0	-	-	98.2	100.0	80.0	100.0	-	-	95.5	96.3	95.8	97.2	-	-	96.1	96.6
Buses	0	0	0	0	-	0	0	1	0	0	-	1	0	0	0	0	-	0	0	1	1	0	-	2	3
% Buses	0.0	0.0	0.0	-	-	0.0	0.0	0.7	0.0	-	-	0.6	0.0	0.0	0.0	-	-	0.0	0.0	0.7	2.8	-	-	1.0	0.6
Single-Unit Trucks	0	0	0	0	-	0	0	1	0	0	-	1	0	0	0	0	-	0	1	2	0	0	-	3	4
% Single-Unit Trucks	0.0	0.0	0.0	-	-	0.0	0.0	0.7	0.0	-	-	0.6	0.0	0.0	0.0	-	-	0.0	3.7	1.4	0.0	-	-	1.5	0.8
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Road	3	1	0	0	-	4	0	1	0	0	-	1	0	1	0	0	-	1	0	2	0	0	-	2	8
% Bicycles on Road	6.1	8.3	0.0	-	-	5.1	0.0	0.7	0.0	-	-	0.6	0.0	20.0	0.0	-	-	4.5	0.0	1.4	0.0	-	-	1.0	1.7
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1	-	-	-	-	-	-	-	-
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	10	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.9	-	-	-	-	-	-	-	-

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Count Name: Mount Hope Rd and Columbia Way
Site Code: 230561
Start Date: 10/24/2023



Turning Movement Peak Hour Data Plot (5:00 PM)

Turning Movement Count (244 . EMIL KOLB PARKWAY & DUFFYS LANE) CustID: 15011137 MioID:

Start Time	Southbound EMIL KOLB PARKWAY					Northbound EMIL KOLB PARKWAY					Eastbound DUFFYS LANE N					Int. Total (15 min)
	Thru	Right	UTurn	Peds	Approach Total	Left	Thru	UTurn	Peds	Approach Total	Left	Right	UTurn	Peds	Approach Total	
07:00:00	77	0	0	0	77	2	42	0	0	44	0	8	0	0	8	129
07:15:00	79	0	0	0	79	6	52	0	0	58	1	6	0	0	7	144
07:30:00	110	2	0	0	112	2	41	0	0	43	1	9	0	0	10	165
07:45:00	109	0	0	0	109	1	48	0	0	49	1	10	0	0	11	169
Hourly	375	2	0	0	377	11	183	0	0	194	3	33	0	0	36	607
08:00:00	82	1	0	0	83	2	41	0	0	43	0	7	0	0	7	133
08:15:00	85	2	0	0	87	4	41	0	0	45	1	7	0	0	8	140
08:30:00	74	0	0	0	74	2	46	0	0	48	0	4	0	0	4	126
08:45:00	76	0	0	0	76	6	31	0	0	37	1	5	0	0	6	119
Hourly	317	3	0	0	320	14	159	0	0	173	2	23	0	0	25	518
BREAK																
11:00:00	36	0	0	0	36	3	37	0	0	40	0	6	0	0	6	82
11:15:00	19	2	0	0	21	2	35	0	0	37	2	3	0	0	5	63
11:30:00	37	1	0	0	38	4	30	0	0	34	0	6	0	0	6	78
11:45:00	51	0	0	0	51	5	30	0	0	35	0	2	0	0	2	88
Hourly	143	3	0	0	146	14	132	0	0	146	2	17	0	0	19	311
12:00:00	32	4	0	0	36	8	36	0	0	44	2	7	0	0	9	89
12:15:00	44	2	0	0	46	8	48	0	0	56	2	7	0	0	9	111
12:30:00	28	2	0	0	30	8	44	0	0	52	1	5	0	0	6	88
12:45:00	42	1	0	0	43	0	51	0	0	51	1	5	0	0	6	100
Hourly	146	9	0	0	155	24	179	0	0	203	6	24	0	0	30	388
13:00:00	42	1	0	0	43	9	37	0	0	46	0	6	0	0	6	95
13:15:00	31	0	0	0	31	6	33	0	0	39	0	5	0	0	5	75
13:30:00	53	1	0	0	54	4	34	0	0	38	0	5	0	0	5	97
13:45:00	41	0	0	0	41	8	47	0	0	55	1	8	0	0	9	105
Hourly	167	2	0	0	169	27	151	0	0	178	1	24	0	0	25	372
BREAK																
15:00:00	32	1	0	0	33	6	78	0	0	84	3	5	0	0	8	125
15:15:00	45	0	0	0	45	7	70	0	0	77	0	7	0	0	7	129
15:30:00	47	2	0	0	49	12	62	0	0	74	0	3	0	0	3	126
15:45:00	39	2	0	0	41	9	116	0	0	125	0	4	0	0	4	170
Hourly	163	5	0	0	168	34	326	0	0	360	3	19	0	0	22	550
16:00:00	31	1	0	0	32	8	113	0	0	121	1	5	1	0	7	160
16:15:00	41	1	0	0	42	15	83	0	0	98	3	4	0	0	7	147

16:30:00	38	0	0	0	38	10	103	0	0	113	1	1	0	0	2	153
16:45:00	39	0	0	0	39	12	117	0	0	129	1	3	0	0	4	172
Hourly	149	2	0	0	151	45	416	0	0	461	6	13	1	0	20	632
17:00:00	51	0	0	0	51	11	128	0	0	139	0	7	0	0	7	197
17:15:00	56	1	0	0	57	10	98	0	0	108	1	6	0	0	7	172
17:30:00	32	2	0	0	34	7	85	0	0	92	1	1	0	0	2	128
17:45:00	41	1	0	0	42	4	81	0	0	85	2	4	0	0	6	133
Hourly	180	4	0	0	184	32	392	0	0	424	4	18	0	0	22	630
Grand Total	1640	30	0	0	1670	201	1938	0	0	2139	27	171	1	0	199	**4008**
Approach%	98.2%	1.8%	0%		-	9.4%	90.6%	0%		-	13.6%	85.9%	0.5%		-	**-**
Totals %	40.9%	0.7%	0%		41.7%	5%	48.4%	0%		53.4%	0.7%	4.3%	0%		5%	**-**
Heavy	462	3	0		-	7	488	0		-	2	9	0		-	**-**
Heavy %	28.2%	10%	0%		-	3.5%	25.2%	0%		-	7.4%	5.3%	0%		-	**-**
Bicycles	0	1	0		-	0	1	0		-	1	0	0		-	**-**
Bicycle %	0%	3.3%	0%		-	0%	0.1%	0%		-	3.7%	0%	0%		-	**-**

Peak Hour: 07:00 AM - 08:00 AM Weather: Light Rain (13.54 °C)

Start Time	Southbound EMIL KOLB PARKWAY					Northbound EMIL KOLB PARKWAY					Eastbound DUFFYS LANE N					Int. Total (15 min)
	Thru	Right	UTurn	Peds	Approach Total	Left	Thru	UTurn	Peds	Approach Total	Left	Right	UTurn	Peds	Approach Total	
07:00:00	77	0	0	0	77	2	42	0	0	44	0	8	0	0	8	129
07:15:00	79	0	0	0	79	6	52	0	0	58	1	6	0	0	7	144
07:30:00	110	2	0	0	112	2	41	0	0	43	1	9	0	0	10	165
07:45:00	109	0	0	0	109	1	48	0	0	49	1	10	0	0	11	169
Grand Total	375	2	0	0	377	11	183	0	0	194	3	33	0	0	36	**607**
Approach%	99.5%	0.5%	0%		-	5.7%	94.3%	0%		-	8.3%	91.7%	0%		-	**-**
Totals %	61.8%	0.3%	0%		62.1%	1.8%	30.1%	0%		32%	0.5%	5.4%	0%		5.9%	**-**
PHF	0.85	0.25	0		0.84	0.46	0.88	0		0.84	0.75	0.83	0		0.82	**-**
Heavy	51	0	0		51	1	82	0		83	1	1	0		2	**-**
Heavy %	13.6%	0%	0%		13.5%	9.1%	44.8%	0%		42.8%	33.3%	3%	0%		5.6%	**-**
Lights	324	2	0		326	10	101	0		111	2	32	0		34	**-**
Lights %	86.4%	100%	0%		86.5%	90.9%	55.2%	0%		57.2%	66.7%	97%	0%		94.4%	**-**
Single-Unit Trucks	34	0	0		34	0	58	0		58	0	1	0		1	**-**
Single-Unit Trucks %	9.1%	0%	0%		9%	0%	31.7%	0%		29.9%	0%	3%	0%		2.8%	**-**
Buses	1	0	0		1	1	3	0		4	1	0	0		1	**-**
Buses %	0.3%	0%	0%		0.3%	9.1%	1.6%	0%		2.1%	33.3%	0%	0%		2.8%	**-**
Articulated Trucks	16	0	0		16	0	21	0		21	0	0	0		0	**-**
Articulated Trucks %	4.3%	0%	0%		4.2%	0%	11.5%	0%		10.8%	0%	0%	0%		0%	**-**
Bicycles on Road	0	0	0	0	-	0	0	0	0	-	0	0	0	0	-	**-**
Bicycles on Road%	-	-	-	%		-	-	-	%		-	-	-	%		**-**

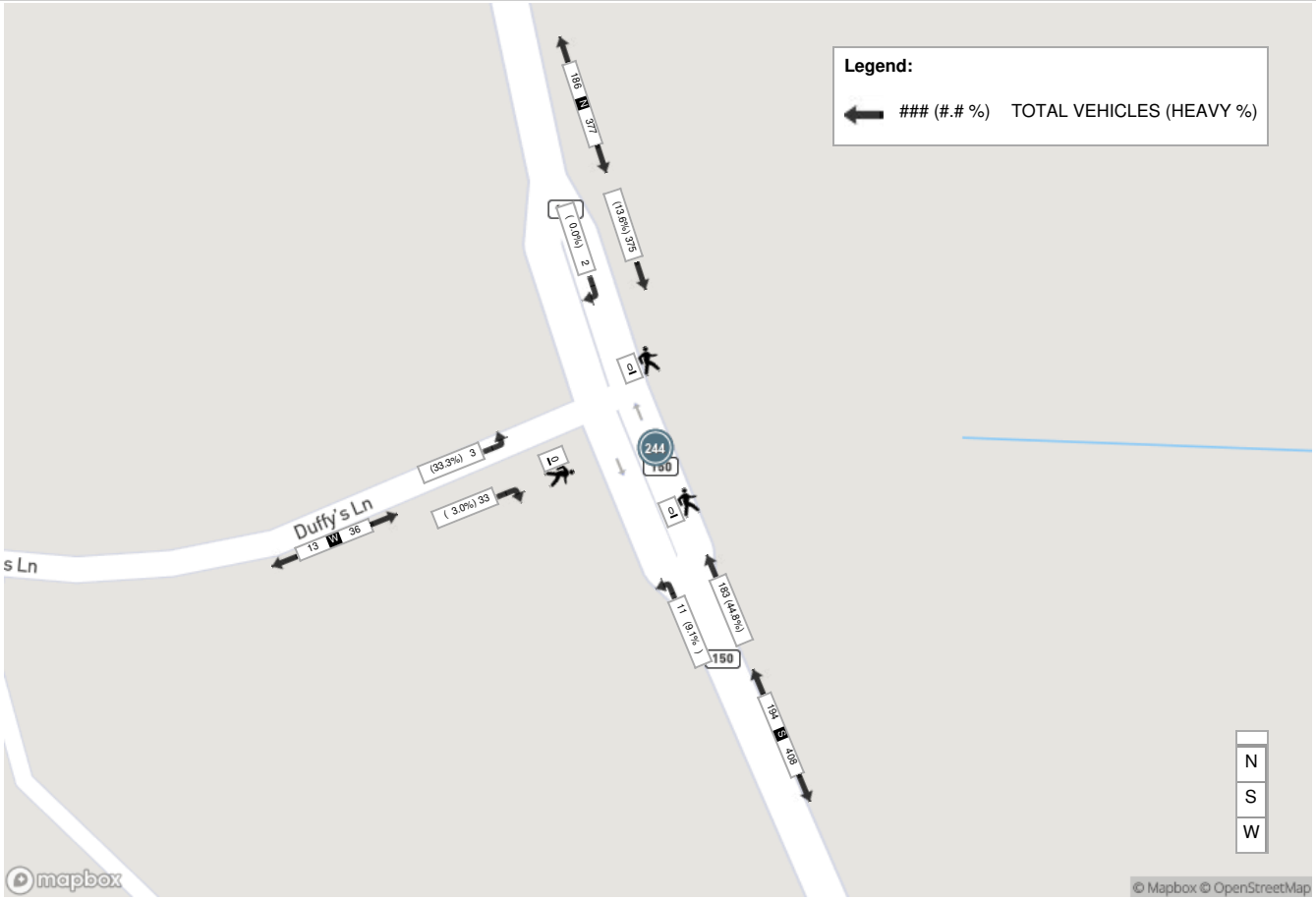
Peak Hour: 12:00 PM - 01:00 PM Weather: Light Rain (15.1 °C)

Start Time	Southbound EMIL KOLB PARKWAY					Northbound EMIL KOLB PARKWAY					Eastbound DUFFYS LANE N					Int. Total (15 min)
	Thru	Right	UTurn	Peds	Approach Total	Left	Thru	UTurn	Peds	Approach Total	Left	Right	UTurn	Peds	Approach Total	
12:00:00	32	4	0	0	36	8	36	0	0	44	2	7	0	0	9	89
12:15:00	44	2	0	0	46	8	48	0	0	56	2	7	0	0	9	111
12:30:00	28	2	0	0	30	8	44	0	0	52	1	5	0	0	6	88
12:45:00	42	1	0	0	43	0	51	0	0	51	1	5	0	0	6	100
Grand Total	146	9	0	0	155	24	179	0	0	203	6	24	0	0	30	**388**
Approach%	94.2%	5.8%	0%		-	11.8%	88.2%	0%		-	20%	80%	0%		-	**-**
Totals %	37.6%	2.3%	0%		39.9%	6.2%	46.1%	0%		52.3%	1.5%	6.2%	0%		7.7%	**-**
PHF	0.83	0.56	0		0.84	0.75	0.88	0		0.91	0.75	0.86	0		0.83	**-**
Heavy	62	2	0		64	1	87	0		88	0	2	0		2	**-**
Heavy %	42.5%	22.2%	0%		41.3%	4.2%	48.6%	0%		43.3%	0%	8.3%	0%		6.7%	**-**
Lights	84	7	0		91	23	92	0		115	6	22	0		28	**-**
Lights %	57.5%	77.8%	0%		58.7%	95.8%	51.4%	0%		56.7%	100%	91.7%	0%		93.3%	**-**
Single-Unit Trucks	41	2	0		43	1	68	0		69	0	2	0		2	**-**
Single-Unit Trucks %	28.1%	22.2%	0%		27.7%	4.2%	38%	0%		34%	0%	8.3%	0%		6.7%	**-**
Buses	0	0	0		0	0	1	0		1	0	0	0		0	**-**
Buses %	0%	0%	0%		0%	0%	0.6%	0%		0.5%	0%	0%	0%		0%	**-**
Articulated Trucks	21	0	0		21	0	18	0		18	0	0	0		0	**-**
Articulated Trucks %	14.4%	0%	0%		13.5%	0%	10.1%	0%		8.9%	0%	0%	0%		0%	**-**
Bicycles on Road	0	0	0	0	-	0	0	0	0	-	0	0	0	0	-	**-**
Bicycles on Road%	-	-	-	%		-	-	-	%		-	-	-	%		**-**

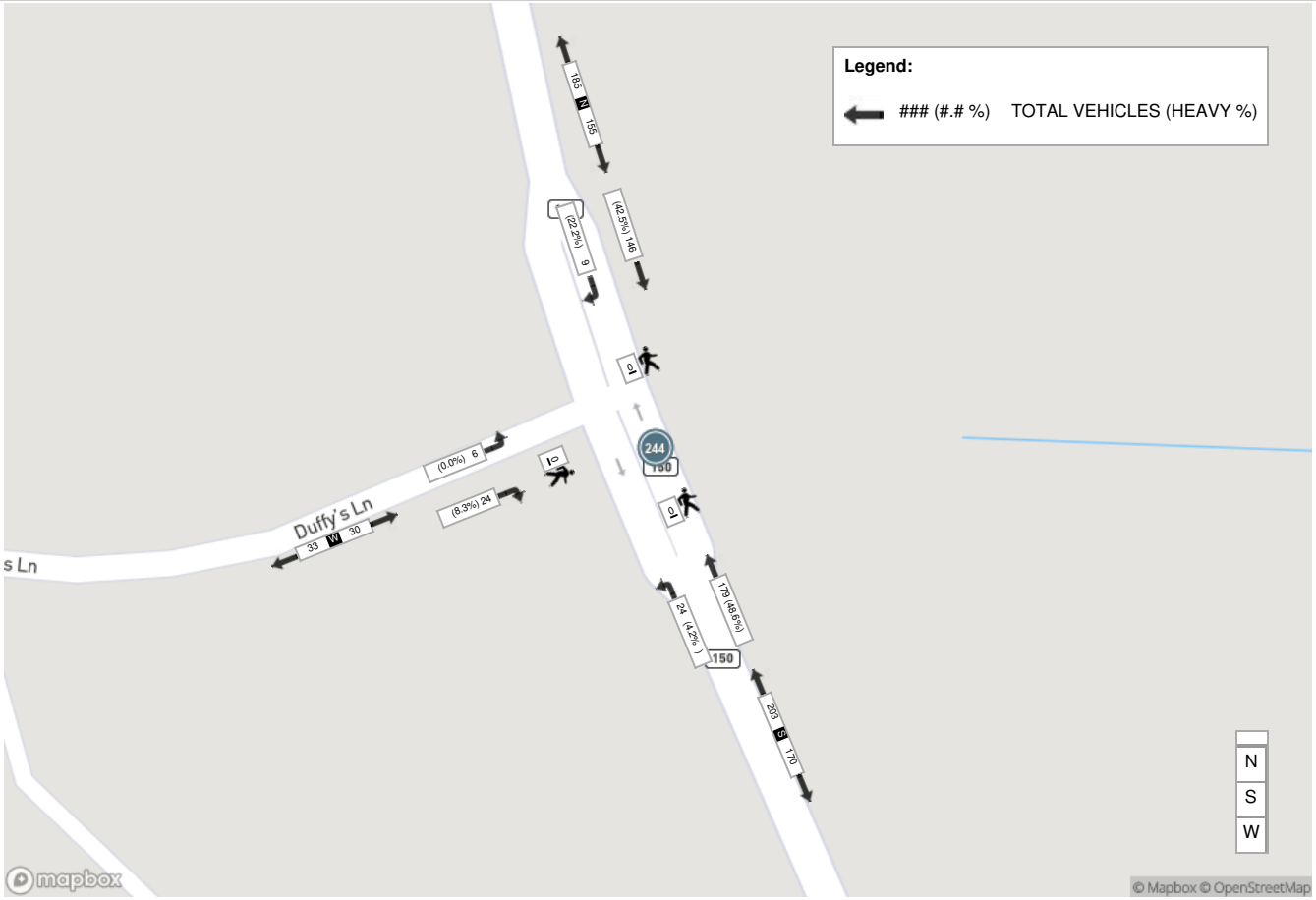
Peak Hour: 04:00 PM - 05:00 PM Weather: Light Rain (21.06 °C)

Start Time	Southbound EMIL KOLB PARKWAY					Northbound EMIL KOLB PARKWAY					Eastbound DUFFYS LANE N					Int. Total (15 min)
	Thru	Right	UTurn	Peds	Approach Total	Left	Thru	UTurn	Peds	Approach Total	Left	Right	UTurn	Peds	Approach Total	
16:00:00	31	1	0	0	32	8	113	0	0	121	1	5	1	0	7	160
16:15:00	41	1	0	0	42	15	83	0	0	98	3	4	0	0	7	147
16:30:00	38	0	0	0	38	10	103	0	0	113	1	1	0	0	2	153
16:45:00	39	0	0	0	39	12	117	0	0	129	1	3	0	0	4	172
Grand Total	149	2	0	0	151	45	416	0	0	461	6	13	1	0	20	**632**
Approach%	98.7%	1.3%	0%		-	9.8%	90.2%	0%		-	30%	65%	5%		-	**-**
Totals %	23.6%	0.3%	0%		23.9%	7.1%	65.8%	0%		72.9%	0.9%	2.1%	0.2%		3.2%	**-**
PHF	0.91	0.5	0		0.9	0.75	0.89	0		0.89	0.5	0.65	0.25		0.71	**-**
Heavy	40	0	0		40	3	33	0		36	1	1	0		2	**-**
Heavy %	26.8%	0%	0%		26.5%	6.7%	7.9%	0%		7.8%	16.7%	7.7%	0%		10%	**-**
Lights	109	2	0		111	42	383	0		425	5	12	1		18	**-**
Lights %	73.2%	100%	0%		73.5%	93.3%	92.1%	0%		92.2%	83.3%	92.3%	100%		90%	**-**
Single-Unit Trucks	21	0	0		21	1	22	0		23	1	0	0		1	**-**
Single-Unit Trucks %	14.1%	0%	0%		13.9%	2.2%	5.3%	0%		5%	16.7%	0%	0%		5%	**-**
Buses	0	0	0		0	2	1	0		3	0	1	0		1	**-**
Buses %	0%	0%	0%		0%	4.4%	0.2%	0%		0.7%	0%	7.7%	0%		5%	**-**
Articulated Trucks	19	0	0		19	0	10	0		10	0	0	0		0	**-**
Articulated Trucks %	12.8%	0%	0%		12.6%	0%	2.4%	0%		2.2%	0%	0%	0%		0%	**-**
Bicycles on Road	0	0	0	0	-	0	0	0	0	-	0	0	0	0	-	**-**
Bicycles on Road%	-	-	-	%		-	-	-	%		-	-	-	%		**-**

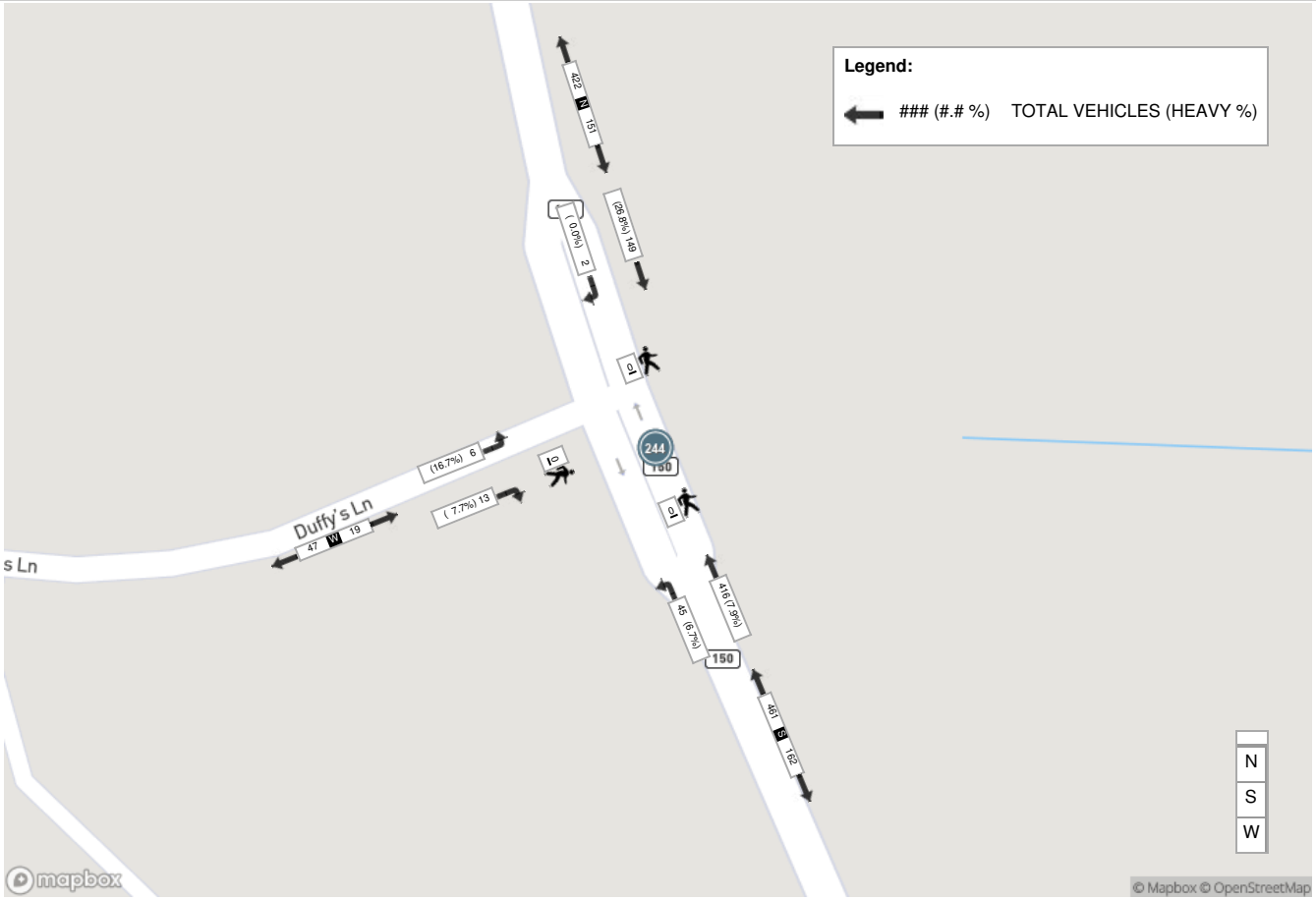
Peak Hour: 07:00 AM - 08:00 AM Weather: Light Rain (13.54 °C)



Peak Hour: 12:00 PM - 01:00 PM Weather: Light Rain (15.1 °C)



Peak Hour: 04:00 PM - 05:00 PM Weather: Light Rain (21.06 °C)



Appendix C

Collision Details Report

Collision Details Report

From: January 1, 2021 **To:** December 31, 2023

Location ..... 50 HY @ COLUMBIA WAY/CAL WORKS YARD **Municipality.....** CALEDON

Traffic Control.... Traffic signal **Total Collisions....** 4

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
210279661	2021-Jun-27, Sun,18:44	Clear	Rear end	P.D. only	West	Dry	Going ahead	Pick-up truck	Other motor vehicle	Driving properly	
					West	Dry	Slowing or stopping	Automobile, station wagon	Other motor vehicle	Driving properly	
220409602	2022-Apr-21, Thu,08:00	Rain	Turning movement	Non-fatal injury	South	Wet	Turning left	Automobile, station wagon	Other motor vehicle	Improper turn	
					North	Wet	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
221366978	2022-Nov-16, Wed,12:22	Clear	Sideswipe	P.D. only	North	Wet	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
					North	Wet	Going ahead	Pick-up truck	Other motor vehicle	Driving properly	
231141107	2023-Aug-22, Tue,16:30	Clear	Rear end	P.D. only	North	Dry	Going ahead	Pick-up truck	Other motor vehicle	Following too close	
					North	Dry	Stopped	Pick-up truck	Other motor vehicle	Driving properly	

Location ..... 50 HY @ EMIL KOLB PY **Municipality.....** CALEDON

Traffic Control.... No control **Total Collisions....** 14

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
210039097	2021-Apr-23, Fri,12:00	Clear	Sideswipe	P.D. only	South	Dry	Going ahead	Truck - dump	Other motor vehicle	Improper lane change	
					South	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
21031260	2021-Jan-26, Tue,08:24	Clear	Rear end	P.D. only	South	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Following too close	
					South	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
21075110	2021-Feb-28, Sun,13:48	Rain	Angle	P.D. only	North	Wet	Going ahead	Automobile, station wagon	Other motor vehicle	Failed to yield right-of-way	
					East	Wet	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
220235486	2022-Mar-08, Tue,17:00	Clear	Sideswipe	P.D. only	North	Dry			Other motor vehicle		
					North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	

Location ..... 50 HY @ EMIL KOLB PY **Municipality.....** CALEDON

Traffic Control.... Yield sign **Total Collisions....** 14

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
220631180	2022-Jun-09, Thu,07:30	Clear	Sideswipe	P.D. only	West	Dry	Changing lanes	Truck - tractor	Other motor vehicle	Improper lane change	
					West	Dry	Merging	Automobile, station wagon	Other motor vehicle	Driving properly	
220703049	2022-Jun-24, Fri,18:26	Clear	Angle	P.D. only	East	Dry	Merging	Automobile, station wagon	Other motor vehicle	Failed to yield right-of-way	
					South	Dry	Going ahead	Pick-up truck	Other motor vehicle	Driving properly	
221090266	2022-Sep-12, Mon,07:20	Rain	Rear end	P.D. only	South	Wet	Going ahead	Automobile, station wagon	Other motor vehicle	Failed to yield right-of-way	
					South	Wet	Turning right	Automobile, station wagon	Other motor vehicle	Driving properly	
221180415	2022-Oct-03, Mon,12:35	Clear	Sideswipe	P.D. only	South	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
					South	Dry	Going ahead	Truck - tractor	Other motor vehicle	Driving properly	
221459336	2022-Dec-09, Fri,16:30	Clear	Sideswipe	P.D. only	North	Dry	Going ahead	Truck - tractor	Other motor vehicle	Driving properly	
					North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
221467019	2022-Dec-09, Fri,16:00	Clear	Sideswipe	P.D. only	East	Dry	Going ahead		Other motor vehicle	Other	
					East	Dry	Stopped	Automobile, station wagon	Other motor vehicle	Driving properly	
230918985	2023-Jul-10, Mon,16:02	Clear	Sideswipe	P.D. only	East	Dry	Changing lanes	Automobile, station wagon	Other motor vehicle	Improper lane change	
					East	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
231030496	2023-Aug-01, Tue,13:52	Clear	Sideswipe	P.D. only	North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Other	
					North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Other	
231271262	2023-Sep-18, Mon,16:41	Clear	SMV other	P.D. only	South	Dry	Other	Truck-other	Rollover/Overturn	Driving properly	
						Dry					
231703987	2023-Dec-30, Sat,03:54	Clear	SMV other	P.D. only	South	Dry	Going ahead	Automobile, station wagon	Skidding/sliding	Speed too fast for condition	
						Dry					

Location ..... 50 HY btwn COLUMBIA WAY/CAL WORKS YARD & EMIL KOLB PY **Municipality.....** CALEDON

Traffic Control.... No control **Total Collisions....** 1

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
21052522	2021-Jan-29, Fri,16:00	Clear	Sideswipe	P.D. only	North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
					North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	

Location ..... DUFFY'S LN N @ EMIL KOLB PY **Municipality.....** CALEDON

Traffic Control.... Stop sign **Total Collisions....** 1

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
220989792	2022-Aug-22, Mon,13:34	Clear	SMV other	Non-fatal injury	West	Dry	Turning right	Automobile, station wagon	Ditch	Lost control	
						Dry					

Location ..... EMIL KOLB PY @ KING ST **Municipality.....** CALEDON

Traffic Control.... Traffic signal **Total Collisions....** 19

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
210009574	2021-Apr-03, Sat,16:34	Clear	Rear end	P.D. only	North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Following too close	
					North	Dry	Stopped	Automobile, station wagon	Other motor vehicle	Driving properly	
210281610	2021-Jun-28, Mon,07:25	Clear	Sideswipe	P.D. only	East	Dry	Changing lanes	Automobile, station wagon	Other motor vehicle	Disobeyed traffic control	
					East	Dry	Merging	Automobile, station wagon	Other motor vehicle	Driving properly	
210399384	2021-Jul-21, Wed,14:15	Clear	Angle	P.D. only	East	Dry	Merging	Automobile, station wagon	Other motor vehicle	Failed to yield right-of-way	
					South	Dry	Going ahead	Pick-up truck	Other motor vehicle	Driving properly	
210874105	2021-Nov-01, Mon,18:47	Clear	Sideswipe	P.D. only	East	Dry	Changing lanes	Automobile, station wagon	Other motor vehicle	Improper lane change	
					East	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
211069248	2021-Dec-20, Mon,16:55	Clear	Turning movement	P.D. only	East	Dry	Turning right	Automobile, station wagon	Other motor vehicle	Improper turn	
					East	Dry	Turning right	Pick-up truck	Other motor vehicle	Driving properly	
22048194	2022-Mar-27, Sun,16:30	Clear	Sideswipe	P.D. only	West	Dry	Slowing or stopping	Pick-up truck	Other motor vehicle	Improper lane change	
					West	Dry	Going ahead	Pick-up truck	Other motor vehicle	Driving properly	

Location ..... EMIL KOLB PY @ KING ST **Municipality.....** CALEDON

Traffic Control.... Other **Total Collisions....** 19

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
220685846	2022-Jun-21, Tue,09:34	Clear	Approaching head-on	P.D. only	North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
					South	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
221190332	2022-Oct-05, Wed,04:30	Clear	Sideswipe	P.D. only	North	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Failed to yield right-of-way	
					North	Dry	Going ahead	Truck - tractor	Other motor vehicle	Driving properly	
221335354	2022-Nov-08, Tue,14:41	Clear	Sideswipe	P.D. only	East	Dry	Turning right	Automobile, station wagon	Other motor vehicle	Improper turn	
					East	Dry	Turning right	Automobile, station wagon	Other motor vehicle	Driving properly	
221377744	2022-Nov-19, Sat,04:13	Clear	SMV other	P.D. only	East	Dry	Going ahead	Automobile, station wagon	Curb	Speed too fast for condition	
						Dry					
221475668	2022-Dec-13, Tue,15:43	Clear	Sideswipe	P.D. only	East	Dry	Changing lanes	Pick-up truck	Other motor vehicle	Improper lane change	
					East	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
230180991	2023-Feb-08, Wed,17:24	Clear	Sideswipe	P.D. only	East	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Improper turn	
					East	Dry	Turning right	Automobile, station wagon	Other motor vehicle	Driving properly	
230361574	2023-Mar-27, Mon,11:40	Rain	Sideswipe	P.D. only	North	Wet	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
					North	Wet	Going ahead		Other motor vehicle		
230577082	2023-May-10, Wed,16:52	Clear	Sideswipe	P.D. only	South	Dry	Going ahead	Truck - tractor	Other motor vehicle	Improper turn	
					South	Dry	Stopped	Automobile, station wagon	Other motor vehicle	Driving properly	
231114930	2023-Aug-17, Thu,17:30	Clear	Sideswipe	P.D. only	East	Dry	Turning left	Automobile, station wagon	Other motor vehicle	Improper turn	
					East	Dry	Going ahead	Delivery van	Other motor vehicle	Driving properly	
231186986	2023-Sep-01, Fri,16:10	Clear	Sideswipe	P.D. only	South	Dry	Changing lanes	Automobile, station wagon	Other motor vehicle	Improper lane change	
					South	Dry	Going ahead	Truck-other	Other motor vehicle	Driving properly	

Location ..... EMIL KOLB PY @ KING ST **Municipality.....** CALEDON

Traffic Control.... No control **Total Collisions....** 19

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
231219537	2023-Sep-07, Thu,05:15	Rain	SMV other	P.D. only	North	Wet	Going ahead	Truck - dump	Cable guide rail	Speed too fast for condition	
						Wet					
231340978	2023-Oct-04, Wed,07:10	Clear	Rear end	P.D. only	East	Dry	Turning right	Automobile, station wagon	Other motor vehicle	Improper turn	
					East	Dry	Turning right	Automobile, station wagon	Other motor vehicle	Driving properly	
231479084	2023-Nov-04, Sat,18:13	Clear	Sideswipe	P.D. only	East	Dry	Merging	Automobile, station wagon	Other motor vehicle	Improper lane change	
					East	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	

Location ..... EMIL KOLB PY btwn 50 HY & DUFFY'S LN N **Municipality.....** CALEDON

Traffic Control.... No control **Total Collisions....** 5

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
220399297	2022-Apr-18, Mon,14:20	Clear	Sideswipe	P.D. only	West	Dry	Changing lanes	Automobile, station wagon	Other motor vehicle	Improper lane change	
					West		Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	
220529797	2022-May-19, Thu,03:35	Clear	SMV other	P.D. only	South	Dry	Going ahead	Automobile, station wagon	Animal - wild	Driving properly	
231271413	2023-Sep-18, Mon,17:16	Clear	Rear end	Non-fatal injury	North	Dry	Going ahead	Pick-up truck	Other motor vehicle	Other	
					North		Slowing or stopping	Automobile, station wagon	Other motor vehicle	Driving properly	
231331690	2023-Oct-02, Mon,07:59	Clear	SMV other	P.D. only	South	Dry	Going ahead	Automobile, station wagon	Steel guide rail	Lost control	
231657991	2023-Dec-18, Mon,06:25	Clear	Sideswipe	P.D. only	West	Dry	Going ahead	Automobile, station wagon	Other motor vehicle	Improper passing	
					West		Changing lanes	Pick-up truck	Other motor vehicle	Driving properly	

Location ..... EMIL KOLB PY btwn DUFFY'S LN N & HUMBER TRAIL **Municipality.....** CALEDON

Traffic Control.... No control **Total Collisions....** 2

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped

Location ..... EMIL KOLB PY btwn DUFFY'S LN N & HUMBER TRAIL **Municipality.....** CALEDON

Traffic Control.... No control **Total Collisions....** 2

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
220287921	2022-Mar-22, Tue,14:59	Clear	SMV other	P.D. only	North	Dry	Going ahead	Truck - tractor	Concrete guide rail	Speed too fast for condition	
220794947	2022-Jul-12, Tue,16:00	Clear	SMV other	P.D. only	North	Dry	Turning right	Pick-up truck	Ditch	Lost control	

Location ..... EMIL KOLB PY btwn DUFFYS LN S & KING ST **Municipality.....** CALEDON

Traffic Control.... No control **Total Collisions....** 4

Collision ID	Date/Day/Time	Environment	Impact Type	Classification	Direction	Surface Cond'n	Vehicle Manoeuver	Vehicle type	First Event	Driver Action	No. Ped
210904017	2021-Nov-09, Tue,05:00	Clear	SMV other	P.D. only	South	Dry	Going ahead	Pick-up truck	Animal - wild	Driving properly	
211099780	2021-Dec-29, Wed,23:29	Clear	SMV other	P.D. only	South	Wet	Going ahead	Pick-up truck	Animal - wild	Driving properly	
220270372	2022-Mar-18, Fri,04:31	Clear	SMV other	P.D. only	South	Dry	Going ahead	Automobile, station wagon	Animal - wild	Driving properly	
231463998	2023-Nov-01, Wed,08:27	Clear	Turning movement	P.D. only	North	Dry	Turning left	Automobile, station wagon	Other motor vehicle	Improper turn	
					South		Going ahead	Automobile, station wagon	Other motor vehicle	Driving properly	

Appendix 2G

Environmental Site Assessments (ESAs)

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Assessment of Past Uses Report

Bolton Water and Wastewater Capacity Improvements
Schedule C Class Environmental Site Assessment
Bolton, Ontario

Client Name: GEI Consultants Canada Ltd.
Date: May 8, 2025
File: 48561

Suite 11, 1815 Ironstone Manor, Pickering, Ontario L1W 3W9 | Phone: (905) 829-8666

EXECUTIVE SUMMARY

This report presents the findings of an Assessment of Past Uses (APU) in support of the Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment (EA) in Bolton, Ontario.

The Project Area consists of a series of connected linear alignments for proposed watermain and sanitary sewer installations, which includes the current road Rights-of-Way (ROWs) of Emil Kolb Parkway from King Street to Highway 50, Highway 50 from Emil Kolb Parkway to Columbia Way, Columbia Way to 300 m west of Westchester Boulevard, and Mount Hope Road from Columbia Way northerly for a distance of approximately 1.6 km. The Project Area also includes portions of two private agricultural properties between Highway 50 and Mount Hope Road, and a portion of a property adjacent to the southeast of Emil Kolb Parkway where a proposed sewage pumping station (SPS) is planned. The total length of the water and sewer alignments is approximately 8.4 km, the limits of the Project Area are shown on Drawing 48561-1.

The proposed infrastructure improvements include new watermain and sanitary sewer installations, a sewage pumping station, and various construction and access shafts along the linear alignments.

A detailed records review, Site Reconnaissance, interviews, and evaluation of the findings were conducted as per the requirements of Ontario Regulation (O. Reg.) 406/19, as amended (herein referred to as O. Reg. 406/19). Based on an evaluation of the information obtained during this investigation, the key findings of the APU identified 21 potentially contaminating activities (PCAs) at eight locations that resulted in two Areas of Potential Environmental Concern (APECs). The locations where PCAs were identified and the locations of the respective APECs are shown on Drawing 48561-4. APEC 1 includes the entire Project Area and APEC 2 includes an area (referred to as Project Zone 4) where there is a potential of impact to the soil conditions within the excavation depths, as follows:

- APEC 1 includes the entire Project Area. The PCA contributors involve the importation of fill materials of unknown quality used for the construction of current and historical roadways within the Project Area, as well as potential impacts from on-site (current and historical), or adjacent agricultural properties where pesticides may have been applied. Based on observations made during the Site Reconnaissance, interview responses, and select records from the ERIS Database Report, heating for residential and/or agricultural buildings within the APU Study Area includes fuel oil burning furnaces. Several fuel oil tanks were observed at residential properties located adjacent to the Project Area and the ERIS Database Report included spill reports related to leaking fuel oil tanks.

- APEC 2 includes Project Zone 4. The PCA contributors involve a public works yard, multiple fuel storage tanks, fuel oil storage tanks, multiple reported spills of fuel and oil products, several automotive repair garages, a gas station, waste generators, an aggregate pit / storage yard, contractor yard, and importation of fill materials of unknown quality to the contractor yard.

In addition to the identified PCAs, impacts (i.e., electrical conductivity and sodium adsorption ratio) related to the application of salts on the roads for vehicular and pedestrian safety should be considered for the portions of the Project Area within existing road ROWs.

The contaminants of potential concern (COPCs) associated with the PCAs includes metals and inorganics (M&I), including metals, hydride-forming metals, electrical conductivity (EC), sodium adsorption ratio (SAR), and other regulated parameters, petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylenes (BTEX), organochlorine pesticides (OCPs), volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs).

Based on an evaluation of the information obtained during this APU, a subsurface investigation involving the completion of a Sampling and Analysis Plan (SAP) and Soil Characterization Report (SCR) in accordance with O. Reg. 406/19, as amended, would be required to confirm, or refute the presence of the COPCs in the soil within proposed excavation depths that are planned within the identified APECs.

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1. INTRODUCTION

This report presents the findings of an Assessment of Past Uses (APU) in support of the Bolton Water and Wastewater Capacity Improvements Schedule C Class Environmental Assessment (EA) in the Bolton, Ontario.

The APU Report was completed by Thurber Engineering Ltd. (Thurber) to assist in the preliminary and detailed design of the proposed water and wastewater infrastructure, and sewage pumping station (SPS) undertaken by GEI Consultants Canada Ltd. (the Client) on behalf of Peel Region (the Region). The APU Report was completed as a supporting planning document for the management of excess soil to be generated during construction of the project.

The APU was prepared in general accordance with subsection B (1.) of Part I of the Rules for Soil Management and Excess Soil Quality Standards ("the Rules", including amendments), published by the Ministry of Environment, Conservation and Parks (MECP) under Ontario Regulation (O. Reg.) 406/19, as amended (herein referred to as O. Reg. 406/19).

The objectives of the APU Report were as follows:

- To determine the likelihood for the presence or absence of areas of potential environmental concern (APECs) where one or more contaminants of concern may have impacted the land, in or under the Project Area through an evaluation of the contributions of potentially contaminating activities (PCAs) in the APU Study Area; and

- To provide guidance for the preparation and implementation of a sampling and analysis plan for the management of excess soil within the Project Area by evaluating the contaminants of potential concern (COPCs) associated with the APECs.

It is a condition of this report that Thurber's performance of its professional services is subject to the attached Statement of Limitations and Conditions.

This Report uses the International System of Units (SI Units).

1.1 Project Personnel

We understand that the Project Leader is Italia Ponce, P.Eng., of Peel Region, and the Qualified Person (QP) is Mr. John Zoldy, P.Eng., $QP_{(ESA)}$ of Thurber, with the following contact information:

Project Leader	Italia Ponce, P.Eng. Project Manager The Regional Municipality of Peel 10 Peel Centre Drive, Brampton, ON L6T 4B9 Phone: 905-791-7800, ext. 4583 Email: italia.ponce@peelregion.ca
Qualified Person	John Zoldy, P. Eng., QP_{ESA} Associate | Environmental Engineer Thurber Engineering Ltd. Unit 1 – 1795 Ironstone Manor, Pickering, Ontario L1W 3W9 T. 647-292-9150 Email: jzoldy@thurber.ca

1.2 Project Area Description

The Project Area consists of a series of connected linear alignments for proposed watermain and sanitary sewer installations, which includes the current road Rights-of-Way (ROWs) of Emil Kolb Parkway from King Street to Highway 50, Highway 50 from Emil Kolb Parkway to Columbia Way, Columbia Way to 300 m west of Westchester Boulevard, and Mount Hope Road from Columbia Way northerly for a distance of approximately 1.6 km. The Project Area also includes portions of two private agricultural properties between Highway 50 and Mount Hope Road, and a portion of a property adjacent to the southeast of Emil Kolb Parkway where a proposed sewage pumping station (SPS) is planned. The total length of the water and sewer alignments is approximately 8.4 km. For description purposes, the orientation of Highway 50, and Mount Hope Road will be described as north-south (i.e., Project North). The orientation of Columbia Way, and the linear alignments through the agricultural properties will be described as east-west.

It is understood that the municipal road ROWs are owned by the Region and or local municipality, the portions of the agricultural properties are owned by Oakbank Estates Ltd. (western agricultural property) and United Holdings Inc. (eastern agricultural property), and the proposed SPS Site is owned by the Toronto and Region Conservation Authority (TRCA). The boundaries of the Project Area are presented on Drawing 48561-1.

The proposed infrastructure improvements include new watermain and sanitary sewer installations, a sewage pumping station (SPS), and various construction and access shafts along the linear alignments.

Due to the irregular configuration and expanse of the Project Area, a zoning system was established to assist in the description and location of project-related features. The Project Area includes five contiguous excavation areas (Zones 1 to 5). The following provides a general description of the “zones” that comprise the Project Area, as depicted on Figure 1 below and presented on Drawing 48561-2.

- **Zone 1 (Green):** Includes the portion of the Project Area along Emil Kolb Parkway (including the property for the proposed SPS), which is oriented in a general north-south direction from King Street at the southern limits of the Project Area, and turns to an approximate east-west orientated roadway that intersects Highway 50.

- **Zone 2 (Yellow):** Includes the portion of the Project Area that extends through existing agricultural lands between Highway 50 and Mount Hope Road (oriented in a general east-west direction).

- **Zone 3 (Red):** Includes the portion of the Project Area within the Mount Hope Road ROW, oriented in a general north-south direction from the intersection of Zone 2, southerly to Columbia Way.

- **Zone 4 (Blue):** Includes the portion of the Project Area within the Highway 50 ROW, oriented in a north-south direction from Emil Kolb Parkway, southerly to Columbia Way.

- **Zone 5 (Orange):** Includes the portion of the Project Area within the Columbia Way ROW, oriented in an east-west direction from Highway 50, easterly for a distance of approximately 800 m (approximately 300 m west of Westchester Boulevard).

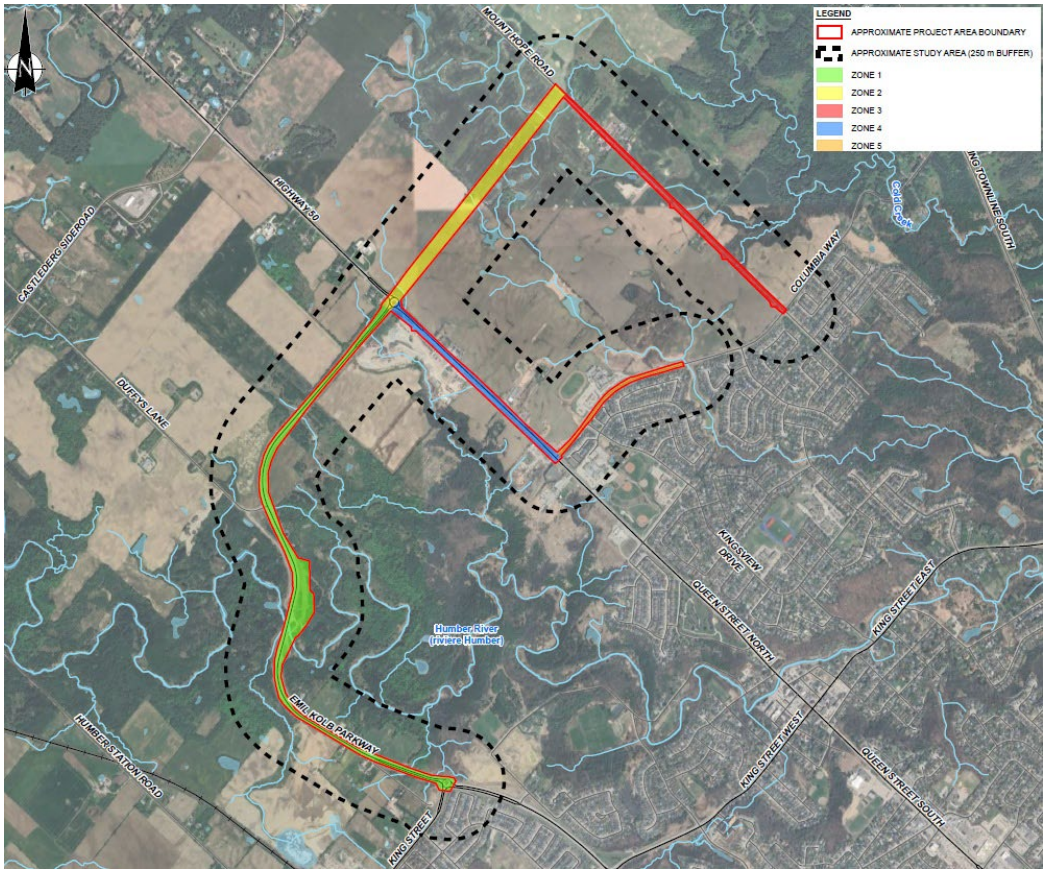


Figure 1: Project Zones

A 250 m buffer surrounding the Project Area was considered as the APU Study Area to identify PCA contributors to APECs within the Project Area.

The APU Report was prepared for a linear corridor for the purposes of assessing the potential of encountering contamination within proposed excavation depths for the project. In this regard, there is no intention to submit a Record of Site Condition (RSC) for the subject corridor on the basis of the APU Report, and therefore, a summary of municipal addresses, property identification numbers and individual property owners are not considered necessary by the Qualified Person to meet the objectives of this Planning Document to support the infrastructure improvements.

A search of the Ministry Database identified no RSC has been filed within the Project Area, however one RSC has been filed for a property within the APU Study Area and is summarized in the ERIS database review (Section 3.1.6). A Risk Assessment (RA) is beyond the current scope and will not be completed as part of the APU. To Thurber's knowledge, no Risk Assessment Report has been completed for the Project Area.

Adjacent properties within the APU Study Area primarily consisted of agricultural and residential uses and to a lesser extent, community uses (i.e., adjacent roads), industrial uses, institutional uses, and commercial uses. Surrounding land uses to the Project Area are shown on Drawing 48561-3. Available mapping published by the Toronto and Region Conservation Authority (TRCA), updated as of 2023 indicates that TRCA regulated areas are included within portions of each of the Project Zones (Zone 1 to Zone 5), and portions of the surrounding APU Study Area.

The approximate geographic coordinates of the project centre are shown as follows:

Geographic Coordinates of the Approximate Project Centre (NAD 83)	4861055 m N, 599531 m E UTM Zone 17 T

2. SCOPE OF INVESTIGATION

The APU included the following components:

- Review of Environmental Risk Information Services Ltd. (ERIS) Database Report for the APU Study Area, which included searches of various federal, provincial and private source databases for records of potential environmental concern such as spills, former waste disposal sites, registration of underground/aboveground fuel storage tanks and environmental infractions;
- Obtain and review of city directories for the Project Area and selected properties in the APU Study Area;
- An MECP Well Records Search in the APU Study Area;

- Review of relevant aerial photographs at an approximate ten-year interval, where available;
- Review of local topographic and geologic maps for the APU Study Area;
- A Site Reconnaissance of the Project Area and the surrounding APU Study Area was conducted on November 28, 2024, by John Zoldy P.Eng., QP_{ESA} of Thurber;
- Response to an interview questionnaire was provided by Ms. Stella Ku, Property Agent of the TRCA on February 24, 2025, for the SPS Site within Zone 1 of the Project Area;
- Response to an interview questionnaire was provided by Mr. Marco Marcante, Land Development Manager of Royal Pine Homes on February 12, 2025, for the western portion of Zone 2 of the Project Area;
- Response to an interview questionnaire was provided by Mr. Giuseppe Paolicelli, EVP Construction & Development of Solmar Development Corporation on February 12, 2025, for the eastern portion of Zone 2 of the Project Area; and
- Compilation, review, interpretation, and evaluation of the data collected from the records review and Site Reconnaissance to identify the locations of PCAs in the APU Study Area and assess the presence of APECs within the Project Area.

The following were not included in the APU:

- A search of the available fire insurance plans (FIPs) was not considered warranted with a rationale provided in Section 3.1.3 of the report;
- A request of a Freedom of Information (FOI) search from MECP was not considered warranted with a rationale provided in Section 3.1.7 of the report; and
- Title searches for the Project Area were not considered warranted with a rationale provided in Section 3.1.4.1 of the report.

3. RECORDS REVIEW

3.1 General

3.1.1 Determination of Assessment of Past Uses Study Area

For the purposes of this report, the APU Study Area was determined to be an area with a 250 m radius from the boundaries of the Project Area, including adjacent properties that bisect the 250 m limits. The boundary of the Project Area and the APU Study Area is shown on Drawings 48561-1 to 48561-4.

3.1.2 First Developed Use Determination of the Project Area

Based on the earliest information obtained through available records (i.e., aerial photos from 1946) and the Site Reconnaissance, the first developed use within the Project Area consisted of community use (roadways) in Zones 3 and 4, agricultural use in Zones 2 and 5, and mixed agricultural and residential uses in Zone 1.

3.1.3 Fire Insurance Plans

Fire Insurance Plans (FIPs) for select properties within the Project Area were ordered through ERIS and completed by Verisk. The search returned no FIPs within the Project Area or adjacent properties within the APU Study Area. A copy of the Verisk Enviroscan Report is included in Appendix A.

3.1.4 Chain of Title

3.1.4.1 Historical Land Title Search

Based on the historical information obtained from other record sources, and the current land uses (i.e., including roadways, agricultural fields, wooded/undeveloped lands), title searches for each property within the Project Area were not considered by the Qualified Person to be necessary to meet the objectives of this Planning Document to support the infrastructure improvements. However, land registry searches were completed for three properties within the Project Area where Phase I Environmental Site Assessments were requested to support future property acquisition. Based on a review of the available land registry information, the two agricultural properties within Zone 2 of the Project Area have been owned by various holding companies since the first land registry documents were created. The SPS Site within Zone 1 of the Project Area has been owned by the TRCA since at least the 1960's. A summary table of the current owners is included in Section 6.1. The Land Registry documents for the three properties are included in Appendix B.

3.1.4.2 City Directories

A search of city directories for the Project Area and APU Study Area was conducted by ERIS at the request of Thurber. The City Directory search results are presented in Appendix C. A summary of the relevant findings and associated PCAs is provided in the following table.

Table 3-1: City Directories Report Findings

Municipal Address	Commercial Listing	Directory Years	PCA Contributor to APEC		
			Y	N	Comments
14289 Highway 50	Albion Auto Centre / Sales, 22 Dollars a Day Car Rentals	2000 - 2017	✓		Multiple automotive repair garages, car dealerships, and rental facilities located adjacent to the Project Area.
14442 Highway 50	Caledon Transport, James Dick Construction Ltd, James Dick Concrete-Aggregates	2000 - 2023	✓		A reported aggregate pit, construction contractor and commercial trucking facility located adjacent to the Project Area.
14444 Highway 50	James Dick Construction	2012 - 2017	✓		A reported construction contractor located adjacent to the Project Area.
14445 Highway 50	ESSO, Mike the Mechanic, S F SVC (S & F Service), Autopro Dealer, Steve Morellos Service	2000 - 2023	✓		Multiple automotive repair garages, car dealerships, and a gas station located adjacent to the Project Area.

3.1.5 Environmental Reports

The following reports were provided by property owners that provided interview responses as part of this APU Report. The Reports included information related to portions of the Project Area and surrounding properties within the APU Study Area.

1. *Limited Phase I ESA, Bolton North Hill Landowners Group*, Prepared by Dillon Consulting Ltd., dated November 5, 2021. Pertinent information from the report is summarized as follows:

- The Phase I ESA included assessments of eight properties, one of which included the overall property identified with the municipal address of 14475 Highway 50. A portion of the 14475 Highway 50 property is located within the Project Area for this APU (western portion of Zone 2 of the Project Area). The Phase I ESA included a review of select aerial photographs, an ERIS Database Report, available fire insurance plans (none were available for properties within the Project Area or APU Study Area for this APU), and a Site Reconnaissance.

- The Site was reported to have been historically used for agricultural uses. No building structures were reported or observed within the Project Area. However, three building structures including a residential dwelling, shed, and barn, were observed on the overall Phase I Property (located to the south and downgradient of Zone 2 of the Project Area, and adjacent to the east of Zone 4 of the Project Area).

- One potentially contaminating activity involving the potential application of pesticides to the agricultural fields was identified in the Phase I ESA for the portion of the Site located within the APU Project Area.

- Additional PCAs that were reported in the Phase I ESA (located within the APU Study Area) included observed debris and rubble, abandoned vehicles, drums, and totes adjacent to the building structures located on the overall property.

- A recommendation to complete a Phase Two ESA was provided in the Report. The Phase Two ESA (if completed) was not provided to Thurber for review.

2. *Phase One Environmental Site Assessment, Proposed Residential Development, 14350 Mount Hope Road, Town of Caledon, Reference No. 2309-E138-1*, Prepared by Soil Engineers Ltd., dated November 27, 2023. Pertinent information from the report is summarized as follows:

- The Phase One ESA was prepared for the overall property identified with the municipal address of 14530 Mount Hope Road. A portion of the property is located within the Project Area for this APU (eastern portion of Zone 2 of the Project Area).

- The Site was reported to have been historically used for agricultural uses. Three building structures were identified in the historical aerial photos within the eastern portion of Site (located within the Project Area for this APU). No building structures were identified during the Phase One Site Reconnaissance.

- One potentially contaminating activity involving the potential application of pesticides to the agricultural fields was identified in the Phase One ESA.

- A recommendation to complete a Phase Two ESA was provided in the Report. The Phase Two ESA (if completed) was not provided to Thurber for review.

3.1.6 ERIS Database Report

A Database Report was obtained from ERIS to collect environmental source information for the Project Area and within the APU Study Area. The ERIS Database Report, which is presented in Appendix D, includes information collected from a search of available databases maintained by federal, provincial institutions and the private sector, including the Technical Standards and Safety Authority (TSSA). A summary of the significant findings of the ERIS Database Report is provided in the following table:

Table 3-2: Relevant Findings from ERIS Database Report

Relevant Findings from ERIS Database Report						
Municipal Address	**Database**	**ERIS Map Key**	**Findings**	**PCA Contributor to APEC**		
				Y	**N**	**Comments**
14220 Highway 50	GEN PES	2, 16	The Region of Peel & The Town of Bolton (Public Works Yard) were registered as waste generators from 1993 to 2022. The wastes generated include acid wastes (heavy metals), paint pigment, coating residues, inorganic and organic laboratory chemicals, aliphatic solvents, petroleum distillates, light fuels, inorganic wastes, oil skimmings and sludges, halogenated solvents, waste oils and lubricants, waste crankcase oils and lubricants, pathological wastes, waste compressed gases. Automotive repairs and maintenance were reported at the facility. The Town of Caledon was listed as a pesticides operator.	✓		A public works yard and automotive repair garage located adjacent to the west of the Project Area. Observations made during the Site Visit identified that the yard is currently operated by the Town of Caledon.
14289 Highway 50	DTNK EXP	3	Several listings for expired underground gasoline and diesel fuel storage tanks were reported. A historical gas station operated at the property (YG Gas Bar).	✓		A historical gas station located adjacent to the east of the Project Area.
14442 Highway 50	SPL SCT	5	A spill of 20 L of non-PCB containing transformer oil to the ground was reported in 1999. Caledon Sand & Gravel Inc., James Dick Construction Ltd., Hamilton Ready Mix Ltd. were listed in the manufacturers database as a sand and gravel quarry, and ready-mix concrete plant. The facility was established in 1964. A spill of 500 L of diesel and hydraulic oil to the ground (as a result of a truck fire) was reported in 2011.	✓		A sand and gravel quarry, and concrete manufacturing facility with reported spills of petroleum products and transformer oil located adjacent to the west of the Project Area.
14445 Highway 50	RST DTNK FST	6	A retail gas station with multiple reported underground fuel storage tanks was reported at the location. A spill report was filed at the property due to the observation of oily black water encountered in a bell manhole. An incident and spill report were filed for the gas station as the result	✓		A gas station and several reported spills located adjacent to the east of the Project Area.

Relevant Findings from ERIS Database Report						
Municipal Address	Database	ERIS Map Key	Findings	PCA Contributor to APEC		
				Y	N	Comments
			of damage to an underground fuel line. An unspecified volume of fuel was released as a result of the line strike. Petro V Plus was listed as a waste generator in 2016. The wastes generated include light fuels.			
14475 Highway 50	SPL INC	7	An incident and spill report were filed at the property in 2014. The spill/incident was related to oil/fuel oil encountered in an excavation for an underground cable installation. The source and quantity of the fuel was not confirmed in the listings.	✓		A reported spill of fuel oil from a residential property located adjacent to the east of the Project Area.
Properties to the southwest of Emil Kolb Parkway and King Street	RSC	8	An RSC was filed for a group of lots located to the southwest of Emil Kolb Parkway and King Street. The RSC was filed to support the development of residential dwellings on a former community use property. A Phase Two ESA was conducted and the reported soil and groundwater analytical data met the MECP Table 2 Standards.		✓	The findings of the reviewed RSC did not identify potential soil or groundwater risks to the Project Area.
14182 Highway 50	GEN	9	North Hill Animal Hospital (veterinary clinic) was listed as a waste generator from 2003 to 2009.		✓	The operation of a veterinary clinic is considered low risk to soil impacts within the Project Area.
9130 Columbia Way	GEN	11	Dufferin Peel Catholic District School Board (St. Michael Secondary School) was listed as a waste generator from 2011 to 2022. The wastes generated include inorganic and organic laboratory chemicals, and aliphatic solvents.		✓	The listing is considered low risk to soil impacts within the Project Area.
14124 Highway 50	PES GEN	14	Woody's Building Products was listed as a pesticide vendor. Grant Thornton was listed as a waste generator in 2009. The wastes generated include light fuels.		✓	A reported pesticide vendor and waste generator located approximately 100 m to the southwest and downgradient of the Project Area. Considered low risk to soil impacts within the Project Area.
14328 Highway 50	GEN	17	Progreen Demolition Ltd. was listed as a waste generator in 2009. The wastes generated include light fuels.	✓		A reported waste generator of light fuels located adjacent to the west of the Project Area. It is likely that the listing was related to the removal of a fuel oil tank at the residential property.
14118 Highway 50	PES	18	Caledon Garden Gallery Inc. was listed as a pesticide vendor.		✓	A reported pesticide vendor located approximately 120 m to the southwest and

Relevant Findings from ERIS Database Report						
Municipal Address	Database	ERIS Map Key	Findings	PCA Contributor to APEC		
				Y	N	Comments
						downgradient of the Project Area. Considered low risk to soil impacts within the Project Area.
22-80 Goodfellow Crescent	SPL	20	A spill report was filed for a “small quantity” of oil that was discharged into a storm sewer in 2005.		✓	The spill was reported approximately 200 m to the south and downgradient of the Project Area and is considered low risk to soil impacts within the Project Area.

A total of 71 unplottable listings were reported in the ERIS Database Report. Further review of the unplottable listings identified that the majority of the listings were reported to properties or operations that are summarized in Table 3-2 above, or were associated with properties that were located beyond the APU Study Area. The unplottable listings did not result in the identification of additional PCA locations that contributed to an APEC.

3.1.7 Freedom of Information Search

A Freedom of Information (FOI) request to the Ministry of Environment, Conservation and Parks (MECP) was not considered by the Qualified Person to be necessary to meet the objectives of this planning document to support the infrastructure improvements, particularly with the database of spills, former waste disposal sites, registration of underground/aboveground fuel storage tanks and environmental infractions provided by ERIS for the Project Area and APU Study Area.

3.2 Physical Setting Sources

3.2.1 Aerial Photographs

Aerial photographs were reviewed from an ERIS search which referenced several databases, and were supplemented with aerial imagery from Google Earth Pro. The available aerial photographs were reviewed on an approximate 10 to 15-year interval from the earliest available year, 1946. The reviewed photographs are presented in Appendix E.

The scale of the photographs did not permit a detailed study of the Project Area and APU Study Area; however, the following observations were made with respect to the presence of buildings and structures, and general land uses and activities within the Project Area and APU Study Area, as presented in the following table:

Table 3-3 Relevant Findings from Aerial Photographs

Year	Project Area	Assessment of Past Uses Study Area
1946	Zone 1 of the Project Area appeared to primarily consist of agricultural, vacant, or undeveloped lands (Humber River Valley). The Humber River intersected the central portion of Zone 1, and meandered in a southeasterly direction. Various rural roadways were observed to intersect Zone 1 of the Project Area, including a historical roadway alignment (prior to the construction of Emil Kolb Parkway) that appeared to be generally consistent with the orientation of Duffy's Lane that currently connects with Zone 1. Several possible residential type-buildings were noted within the SPS portion of the Project Area. Zone 2 of the Project Area appeared to consist of agricultural properties between Highway 50 and Mount Hope Road. A possible residential or agricultural building was located near the eastern limits of Zone 2, adjacent to the west of Mount Hope Road. A small creek appeared to flow in a general southerly direction through the central portion of Zone 2. Zone 3 of the Project Area appeared to consist of an existing rural road oriented in a general north-south direction, that appeared to match the present-day orientation of Mount Hope Road. Zone 4 of the Project Area appeared to consist of an existing rural road oriented in a general north-south direction, that appeared to match the present-day orientation of Highway 50. Zone 5 of the Project Area appeared to consist of agricultural properties between Highway 50 and Mount Hope Road.	Properties within the APU Study Area appeared to comprise of agricultural lands, and vacant or undeveloped lands (Humber River), with occasional residential and/or agricultural type-buildings, that were generally observed adjacent to Zones 1, 3, and 4. Possible residential buildings were observed within the APU Study Area surrounding the proposed SPS Site within Zone 1 of the Project Area. The historical roadway alignment (prior to the construction of Emil Kolb Parkway) appeared to be generally consistent with the orientation of Duffy's Lane within the central and southern portions of the Study Area surrounding Zone 1.
1951	No significant changes to the Project Area were observed since the 1946 aerial photograph.	Ground disturbance and a possible commercial-type building were observed adjacent to the east of northern portion of Zone 4 of the Project Area (consistent with the present day location of the Esso Gas Station / automotive garage at 14445 Highway 50).
1960	No significant changes to the Project Area were observed since the 1946 aerial photograph.	No significant changes to the APU Study Area were observed since the 1951 aerial photograph.
1974	Several residential type buildings that were observed within the proposed SPS site of Zone 1 of the Project Area appeared to have been demolished and the properties appeared to have been graded and cleared of trees.	Several residential type buildings that were observed within APU Study Area near the proposed SPS site appeared to have been demolished and the properties appeared to have been graded and cleared of trees. Ground disturbance and a possible commercial-type building were observed adjacent to the east of southern portion of Zone 4 of the Project Area (consistent with the present day location of the automotive garage at 14289 Highway 50).

Year	Project Area	Assessment of Past Uses Study Area
		Several structures were also observed adjacent to the west of southern portion of Zone 4 of the Project Area (consistent with the present day location of the public works yard at 14220 Highway 50).
1985	No significant changes to the Project Area were observed since the 1974 aerial photograph.	An industrial-type property appeared to have been developed to the west of Highway 50 and south of the future Emil Kolb Parkway intersection (which had not been constructed as of 1985). The facility appeared to be consistent with the present-day location of the James Dick Construction Yard at 14444 Highway 50.
1995	The Columbia Way roadway appeared to have been constructed (Zone 5 of the Project Area) since 1985. The roadway appeared to be generally consistent with the present-day orientation of the roadway.	Further development of the industrial facility (James Dick Construction) facility was observed since 1985. The facility appeared to have expanded further to the north. Residential subdivisions were observed to the south of Columbia Way (Zone 5 of the Project Area).
2005	The Residential / Agricultural building located within the eastern portion of Zone 2 of the Project Area appeared to have been demolished.	Additional residential buildings appeared to have been constructed to the east and west of Mount Hope Road (Zone 3 of the Project Area).
2015	The Emil Kolb Parkway appeared to have been constructed since 2005. Portions of the historical Duffy's Lane roadway were observed within the Project Area near the proposed SPS Site.	An institutional property appeared to have been constructed to the north of Zone 5 of the Project Area. The building and property configuration appeared to be consistent with the present-day St. Michael Catholic Secondary School (9130 Columbia Way).
2022	No significant changes to the Project Area were observed since the 2015 aerial photograph.	No significant changes to the APU Study Area were observed since the 2015 aerial photograph.

3.2.2 Topography, Hydrology, Geology

A topographic map was obtained and reviewed from The Atlas of Canada – Toporama, presented by Natural Resources Canada and supplemented with elevations presented in Google Earth Pro. A copy of the map is presented in Appendix F which indicates that the ground surface within Project Area was undulating, but generally sloped down to the south from a maximum Elevation 270 m above sea level (asl) to the north of Zone 2, to Elevation 218 masl along the Humber River to the south of the proposed SPS Site within the APU Study Area.

The regional physiography, geology and bedrock characteristics were reviewed from the maps provided by OGS Earth that were compiled by the Mines and Minerals Division of the Ministry of Energy, Northern Development and Mines. The maps are available to download from the Ministry's website and to view in Google Earth.

The Project Area is located within the Physiographic Region described as the South Slope which is generally comprised of drumlinized till plains. The surficial geology within the Project Area was described as clay to silt textured till derived from glaciolacustrine deposits or shale. Modern alluvial deposits comprised of clay, silt, sand, gravel and possible organics were reported along the Humber River.

The underlying bedrock is mainly comprised of shale and limestone of the Georgian Bay Formation.

3.2.3 Fill Materials

Based on the review of the historical aerial photographs, and observations made during the Site Reconnaissance, fill materials have likely been imported to portions of the Project Area and APU Study Area during construction of the roadways.

During the Site Reconnaissance (see Section 5 for further detail), stockpiles of soil and construction materials (including potential recycled asphalt) were observed at 14442-14444 Highway 50 (James Dick Construction and Aggregates) in the central portion of the APU Study Area (Adjacent to the south of Zone 1 and adjacent to the west of Zone 4). Based on the available aerial photographs, these fill materials may have been placed as early as 1985.

3.2.4 Water Bodies and Areas of Natural Significance and Groundwater Information

The closest surface water bodies included the Humber River that intersected Zone 1 of the Project Area along Emil Kolb Parkway, and a tributary of Cold Creek that intersected Zone 2 of the Project Area.

The presence of areas of natural significance is determined from a review of the following areas:

- An area reserved or set apart as a provincial park or conservation reserve under the *Provincial Parks and Conservation Reserves Act, 2006;*
- An area of natural and scientific interest (ANSI) (life science or earth science) identified by the Ministry of Natural Resources and Forestry (MNRF) as having provincial significance;
- A wetland or a coastal wetland identified by MNRF as having provincial significance, or a wetland or coastal wetland that is not yet evaluated to determine whether it is provincially significant;
- A significant woodland identified by a municipality in accordance with the Provincial Policy Statement under the Planning Act;
- An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant;
- An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the *Niagara Escarpment Planning and Development Act*;

- An area identified by MECP as significant habitat of a threatened or endangered species;
- An area which is habitat of a species that is classified under Section 7 of the *Endangered Species Act*, 2007 as a threatened or endangered species;
- Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the *Oak Ridges Moraines Conservation Act, 2001 applies*;
- An area set apart as a wilderness area under the *Wilderness Areas Act*.

A review of the above-listed records indicated that the Town of Caledon Official Plan identifies several segments of the Project Area and the APU Study Area as environmentally significant areas including portions that intersect Greenbelt Plan Protected Countryside, and Natural Heritage System lands (See Town of Caledon Official Plan Figure 1, and Schedule B-5). Multiple environmentally significant wetlands were also identified within the Project Area as shown on the Town of Caledon Schedule A-1, and presented on Drawing 48561-2. Therefore, portions of the Project Area will be characterized as environmentally sensitive.

A review of the Ontario Interactive Source Protection Map indicated that the Project Area and APU Study Area were located within the Toronto Source Protection Area, however no well head or intake protection zone 1 or zone 2 protection areas were located within the APU Study Area.

In addition, it is noted that portions of the Project Area and the APU Study Area are located within a TRCA regulated area. The Project Leader should review the limits of this area and confirm if a permit with TRCA is required for construction.

3.2.5 Well Records

Well records were obtained from the ERIS Database Report and the MECP well database. A total of 72 well records were identified in the APU Study Area, including 35 domestic water supply wells, 12 monitoring / test / observation wells, nine abandoned wells and 16 wells with unspecified well use. The locations, well IDs, and well uses of the identified wells are shown on Drawing 48561-2. The well record details are provided in the ERIS Database Report in Appendix D.

The available reported well depths ranged from 3 m to 93 m below ground surface (mbgs). The available static water levels ranged from 1.8 mbgs to 40.5 mbgs. The depth to bedrock was reported in three of the available well records and ranged from 32.9 mbgs to 86 mbgs.

3.3 Site Operating Records

No site operating records were made available to Thurber for properties within the Project Area. It is the opinion of the Qualified Person that given the linear nature and understanding of the Project Area (community uses [roadways], and agricultural uses), a review of site operating

records is not considered necessary to meet the objectives of this planning document, and therefore, will not change the findings of the APU.

4. INTERVIEWS

The APU did not include detailed site inspections or site interviews for each property along the linear corridor for the Project Area. The past and current land uses for the Project Area have primarily involved community use (roadways) in Zones 1, 3, 4 and 5 of the project alignment, and agricultural land uses or undeveloped/wooded lands within Zone 2. On this basis, interviews for the Project Area are not considered by the Qualified Person to be necessary to meet the objectives of this planning document for the purposes of assessing the potential of encountering soil contamination within proposed excavation areas for the project.

Notwithstanding the above, interviews were conducted for three properties that are to be acquired, or where easements will be located to facilitate construction and access to the proposed water and sewer infrastructure. The properties include the SPS Site, and the two agricultural properties located within Zone 2 of the Project Area.

4.1 SPS Site

An interview questionnaire was provided to the TRCA by the Client. Ms. Stella Ku, Property Agent of the TRCA provided a response as the Site Representative for the SPS Site.

Based on the interview questionnaire responses, no pertinent findings were identified with associated PCAs within the SPS Site of Zone 1 of the Project Area.

The Site Representative was not aware of previous environmental investigations, site assessments, asbestos containing material (ACM) surveys, the historical timeline of the uses of the site. The Site Representative was not aware of any existing buildings (and therefore no heating or cooling systems were present), below grade structures, current or historical tanks, wells, septic systems, or municipal services (watermains, sewers, gas lines etc.), easements, spills, discharges that were located within the SPS Site. The Site Representative was not aware of past soil removals, soil treatments or remedial activities at the Site.

4.2 14475 Highway 50 (Agricultural Property within the Western Portion of Zone 2)

An interview questionnaire was provided to Royal Pine Homes (the current developer of the Site) on behalf of the Property Owners (Oakbank Estates Ltd.) by the Client. Mr. Marco Marcante, Land Development Manager of Royal Pine Homes provided a response as the Site Representative for the 14475 Highway 50 property (West Half of Lot 13, Agricultural Property within the Western portion of Zone 2 of the Project Area).

Based on the interview questionnaire responses, no pertinent findings were identified with associated PCAs within the SPS Site of Zone 2 of the Project Area.

The Site Representative provided a previous “Limited Phase I ESA” that was conducted on the overall property (Completed by Dillion Consultants and summarized in Section 3.1.5 of this Report). The site was reportedly used for past and present agricultural uses. The Site Representative was not aware of asbestos containing material (ACM) surveys. No existing buildings were located within the Site, and therefore no heating or cooling systems were present. The Site Representative was not aware of any below grade structures, current or historical tanks, wells, septic systems, or municipal services (watermains, sewers, gas lines etc.), easements, spills, discharges within the Site. The Site Representative was not aware of past soil removals, soil treatments or remedial activities at the Site, and was not able to provide any other environmental site assessments for the property.

The Site Representative identified that a residential-type dwelling was located on the overall property, but was located to the south and downgradient of the agricultural property (the Site). The residential dwelling was however located adjacent to the east of Zone 4 of the Project Area (14475 Highway 50). According to the Site Representative, the building may have been historically heated with a fuel oil furnace and a fuel oil storage tank may have been present. No known spills or incidents associated with the residential dwelling were identified by the Site Representative.

4.3 14530 Mount Hope Road (Agricultural Property within the Eastern Portion of Zone 2)

An interview questionnaire was provided to Solmar Development Corporation (the current developer of the Site) on behalf of the Property Owners (United Holdings Inc.) by the Client. Mr. Giuseppe Paolicelli, EVP Construction & Development of Solmar Development Corporation provided a response as the Site Representative for the 14530 Mount Hope Road Property (East Half of Lot 13, Agricultural Property within the Eastern portion of Zone 2 of the Project Area).

The Site Representative provided a previous Phase One ESA that was conducted on the overall property (Completed by Soil Engineers Ltd., and summarized in Section 3.1.5 of this Report). The site was reportedly used for past and present agricultural uses. The Site Representative was not aware of asbestos containing material (ACM) surveys. No existing buildings were located within the Site, and therefore no heating or cooling systems were present. The Site Representative was not aware of any below grade structures, current or historical tanks, wells, septic systems, or municipal services (watermains, sewers, gas lines etc.), easements, spills, discharges within the Site. The Site Representative was not aware of past soil removals, soil treatments or remedial activities at the Site, and was not able to provide any other environmental site assessments for the property.

The Site Representative identified that pesticides have been applied to the agricultural fields during the crop growing season. Details regarding the specific pesticides used were not provided.

5. SITE RECONNAISSANCE

5.1 General Requirements

A Site Reconnaissance of the Project Area and surrounding properties within the APU Study Area was conducted on November 28, 2024, by a Thurber Representative, Mr. John Zoldy P.Eng., QP_{ESA}. The Site Visit was conducted after a general review of the historical records and targeted locations within the Project Area and the surrounding properties within the APU Study Area that may contribute to APECs within the Project Area.

The Reconnaissance was documented with a field checklist, field notes and photographs, as required. Select photographs (Photos 1 to 36) are included in Appendix G. The Site visit was completed between 8:00 am and 1:00 pm, the ground conditions were dry, and the weather was sunny to overcast and 6°C.

5.2 Specific Observations Within the Project Area

The portions of the Project Area located in Zones 1, 3, 4, and 5 were observed to be used in connection within existing roadways (i.e., Emil Kolb Parkway, Mount Hope Road, Highway 50, and Columbia Way, respectively). The portion of the Project Area in Zone 2 was observed to be agricultural land, used for the production of crops.

The road ROWs within the Project Area comprised asphalt paved, two-lane roadways that generally included gravel shoulders, and adjacent vegetated ditches. The paved portions of the existing road alignments appeared to be in fair condition with no significant staining observed. The roadways appeared to be constructed on fill material based on changes in elevation between the roadway and adjacent properties. The environmental quality of the fill is unknown.

No building structures were observed within the Project Area during the Site Reconnaissance. However, evidence of a former building structure (i.e., a large pile of concrete debris) was observed within the eastern portion of Zone 2 of the Project Area, near the intersection of Mount Hope Road.

Remaining observations from within the Project and APU Study Areas are summarized in the table presented in Section 5.4 of the report.

5.3 Enhanced Investigation Property

The Project Area has historically consisted of agricultural uses, and community uses (i.e., existing roadways), and possible historical residential uses, and therefore, is not considered an enhanced investigation property.

5.4 Written Description of Investigation

The Site Reconnaissance involved a “walk-through” assessment for an approximate 8.4 km linear sewer and watermain alignment, and included observations of existing property uses and conditions within the APU Study Area from publicly accessible areas and select Properties where permission to enter (PTE) was granted. The Site Reconnaissance was conducted after a preliminary review of available records so that PCAs within the Project Area and adjacent properties within the APU Study Area could be further assessed to determine if the activities may be contributors to APECs. The purpose of the Site Reconnaissance was to observe property uses, physical settings and topographic features of the Project Area and the APU Study Area in accordance with Sections 13 and 14 of Schedule D of O. Reg. 153/04, as amended. The information was evaluated to identify PCAs, contaminant pathways, contaminants of potential concern, sensitive receptors, and visual indications of actual or potential contamination that may impact the environmental conditions of the Project Area.

In general, adjacent properties to the Project Area generally consisted of residential dwellings, agricultural, undeveloped/vacant land and community uses (i.e., adjacent roads), and to lesser extent, commercial uses (i.e., gas station and automotive garages), industrial uses (James Dick Construction, Town of Caledon Public Works Yard), and institutional uses (St. Michael Catholic Secondary School).

A summary of the assessment on the remaining portions of the Project Area, as well as in the APU Study Area, that are relevant to the existence of an APEC, including observations of physical features, are provided in the following table:

Topic	Observations within the Project Area	Pertinent Observations within the Surrounding APU Study Area
Above-ground Storage Tanks (ASTs)	None observed.	Above ground fuel storage tanks were observed at the following properties within the APU Study Area: • 14220 Highway 50 (Public Works Yard) • 14442 Highway 50 (James Dick Construction) Evidence of fuel oil storage tanks (fill and vent pipes) were observed at the following locations: • 14685 Highway 50 • 14383 Mount Hope Road (It could not be confirmed if the Tank was a UST or AST).
Underground Storage Tanks (USTs) or	None observed.	Evidence of USTs was observed at the Esso Gas Station (14445 Highway 50).

Topic	Observations within the Project Area	Pertinent Observations within the Surrounding APU Study Area
Evidence of USTs		Fuel Oil fill and vent pipes were observed on the exterior of a residential dwelling located adjacent to the east of Zone 3 of the Project Area (i.e., 14383 Mount Hope Road). It could not be confirmed if the Tank was a UST or AST.
Product Piping	None observed.	Product piping likely existed between the USTs and the pump island at the Esso gas station (14445 Highway 50).
Drums or Totes	None observed.	Several totes were observed at 14442 Highway 50 (James Dick Construction). The contents of the totes could not be confirmed from publicly accessible areas. Several large plastic totes were observed at an agricultural property (14685 Highway 50) located to the north of Zone 2 of the Project Area. The totes appeared to be consistent with pesticide mixing, storage, and bulk applications.
Water Supply	Evidence of underground water mains was observed within Zone 5 of the Project Area (Columbia Way ROW), as indicated by the presence of fire hydrants, and blue paint markings indicating the presence of the underground water utilities.	Residential and commercial properties within the APU Study Area appeared to be serviced by a combination of private drinking water wells and municipal water supply. Domestic water supply wells were observed at several residential properties adjacent to Zones 1, 3, and 4 of the Project Area. Potable water for the southern portion of the APU Study Area along Columbia Way, and King Street was assumed to be provided by municipal water mains, as indicated by the presence of fire hydrants, water valves, and blue utility locating paint within the APU Study Area.
Transformers	Several pole-mounted transformers were observed within Zones 3, 4, and 5 of the Project Area. No evidence of spills or leaks was observed on or around the transformers.	Overhead hydro and telecommunication lines with occasional pole-mounted transformers were observed along the majority of the roadways within the APU Study Area (excluding the residential subdivisions). Several pad-mounted transformers were observed within the residential subdivisions located within the southern portions of the APU Study Area (south of Zone 1 and Zone 5). No evidence of staining was noted around the observed transformers.
Commercial / Industrial Properties of Environmental Significance	None observed.	The following commercial and industrial properties of environmental significance were observed. Industrial Properties: ▪ 14220 Highway 50 – Public Works Yard ▪ 14442 Highway 50 – James Dick Construction Commercial Properties: ▪ 14289 Highway 50 – Automotive service garage and former gas station ▪ 14445 Highway 50 – Esso Gas Station
Watercourses (Lakes, Ponds, Streams, Rivers), and Wetlands	The Humber River was observed to flow through the Project Area along Emil Kolb Parkway (Zone 1). A tributary of Cold Creek was observed to flow through the agricultural property within Zone 2 of the Project Area. The creek appeared	The Humber River was observed to flow in a general southeasterly direction through the Project Area and surrounding APU Study Area. The Creek and wetland complex observed in Zone 2 extended to additional wetland / marsh areas to the south of the Project Area.

Topic	Observations within the Project Area	Pertinent Observations within the Surrounding APU Study Area
	to feed a pond / wetland area that was identified by the MNRF as a provincially significant wetland (Castlederg Wetland Complex).	
Cross Property Easements	None observed.	None observed.
Railway Lines or Spurs	None observed.	None observed.
Mechanical Hoists	None observed.	None observed, however, mechanical hoists are likely present within the automotive repair garages located within the APU Study Area.
Slope Relief	A ravine was observed where the Humber River intersected Zone 1 of the Project Area.	The ground surface was undulating within APU Study Area, but in general sloped down to the south from the northern limits of the APU Study Area to the south of the APU Study Area towards Lake Ontario.
Surface Drainage	Surface water drainage is directed towards “on-Site” roadside vegetated ditches. Surface water drainage in the agricultural areas (Zone 2), and within the proposed SPS Site (Zone 1) is anticipated to dissipate through infiltration, or by runoff towards topographic low areas and the Humber River or the Cold Creek and Castlederg Wetland Complex.	Surface water drainage is typically directed towards roadside vegetated ditches in the rural areas of the APU Study Area and towards storm sewer catch basins in areas where residential subdivisions have been constructed (i.e., south of Columbia Way and King Street).
Ground Cover	The portions of the Project Area within Zones 1, 3, 4, and 5 were generally covered with asphalt pavement, with gravel shoulders, concrete curbing and/or vegetated ditches. The portion of the Project Area within Zone 2 was generally covered with topsoil and vegetated agricultural fields. A vacant area existed around the Humber River ravine where the ground cover is expected to primarily consist of natural vegetation and or river deposit materials. Historical fill materials from the previous roadway (Duffy’s Lane) and former agricultural/residential properties may be present.	Variable ground cover including asphalt paved roads, gravel surfaces, buildings, grassed / vegetated areas were observed within the APU Study Area.
Surface Staining	No significant staining of ground cover was observed within the majority of the Project Area. However, a natural groundwater spring was observed within Zone 2 of the Project Area (agricultural lands on the 14530 Mount Hope Road property), and orange staining of the soils and surface sheen of the water was observed in the area of the spring. The orange soil staining and surface sheen may be consistent with the presence of iron-oxidizing bacteria and anaerobic groundwater	None observed.

Topic	Observations within the Project Area	Pertinent Observations within the Surrounding APU Study Area
	conditions, which could also be associated with the historical agricultural uses of the Site.	
Stressed Vegetation	None observed.	None observed.
Evidence of Fill Material	It is anticipated that fill materials were used to establish the existing road grades within the Project Area. A fill embankment was observed within the proposed SPS Site property located within Zone 1 of the Project Area that appeared to be related to the historical alignment of Duffy's Lane.	It is anticipated that fill materials were used to establish the existing road grades in the APU Study Area. Several stockpiles of fill materials were observed at 14442 Highway 50 (James Dick Construction) located adjacent to the south of Zone 1 and adjacent to the west of Zone 4 of the Project Area. The materials appeared to consist of various gravel / aggregate materials, and earth fill. Possible recycled asphalt was observed on the property.
Debris	Concrete debris was observed within the eastern portion of Zone 2 of the Project Area, adjacent to the west of Mount Hope Road, where a historical building was observed in the aerial photographs. The concrete debris appeared to be consistent with possible historical building foundation materials.	None observed.
Pits	None observed.	None observed, however James Dick Construction was reported as a concrete, cement, and bulk soil and aggregate storage and manufacturing facility and was observed adjacent to the south of Zone 1, and adjacent to the west of Zone 4.
Lagoons / Retention Ponds	None observed.	None observed.
Standing Water	Standing water was observed in roadside ditches along the Project Area.	Standing water was observed in roadside ditches within the APU Study Area.
Ditches	Roadside ditches were observed within Zones 1, 3, 4, and 5 of the Project Area.	Roadside ditches were observed adjacent to select rural roads within the APU Study Area (Duffy's Lane, King Street, Highway 50, Mount Hope Road, Columbia Way). Within the residential subdivisions located in the APU Study Area, concrete curbs and storm sewers were generally observed within the road ROWs.
Ecologically Sensitive Areas (wetland, floodplain)	Multiple wetland type areas were observed within Zone 2 of the Project Area.	Wetland type areas were identified within the APU Study Area adjacent to the north and south of Zone 1 of the Project Area (approximately 265 m north of the SPS Site, and 730 m west of the Emil Kolb Parkway and Highway 50 intersection), and Zone 2 of the Project Area.
Utility and Sewage Works	Overhead hydro and telecommunication cables were observed within Zones 3, 4, and 5 of the Project Area. Evidence of underground utilities including gas lines, sanitary sewers, storm sewers, telecommunication cables, and watermains were observed within Zones 4, and 5 of the Project Area. Occasional streetlights that appeared to be serviced by underground power	Overhead hydro and telecommunication lines with occasional pole-mounted transformers were observed along the majority of the roadways within the APU Study Area (excluding the residential subdivisions). Several pad-mounted transformers were observed within the residential subdivisions located within the southern portions of the APU Study Area (south of Zone 1 and Zone 5). Evidence of underground water mains, storm sewers, sanitary sewers, gas mains, telecommunication

Topic	Observations within the Project Area	Pertinent Observations within the Surrounding APU Study Area
	cables were observed within the eastern portion of Zone 1 near the intersection of Highway 50, and locally near the intersection of Emil Kolb Parkway and Highway 50. Evidence of buried utility infrastructure was not observed within the remaining portions of Zone 1, or Zones 2, and 3 of the Project Area.	cables, and hydro cables was observed within the majority of the road ROWs in the southern portions of the APU Study Area, as indicated by the presence of fire hydrants, water valves, storm sewer catch basins, sanitary sewer manholes, telecommunication splice boxes, streetlights/pad-mounted transformers, and by paint markings indicating the presence of the underground utilities [blue (watermain), green (sewer), yellow (gas), red (hydro), and orange (telecommunication)].
On-Road Parking	None observed.	Dedicated on-road parking locations were not observed, however, various vehicles were observed to be parked on the roads within the residential subdivisions.
Non-Domestic Waste	None observed.	Non-domestic wastes are likely produced at the commercial and industrial properties located within the APU Study Area.
Chemicals and Hazardous Substances	None observed.	None observed.
Limitations	None identified.	None identified.

6. REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses

Based on the historical records review and Site Reconnaissance, the Project Area consists of a series of connected linear alignments for proposed watermain and sanitary sewer installations that includes the current road Rights-of-Way (ROWs) of Emil Kolb Parkway from King Street to Highway 50, Highway 50 from Emil Kolb Parkway to Columbia Way, Columbia Way to 300 m west of Westchester Boulevard, and Mount Hope Road from Columbia Way northerly for a distance of approximately 1.6 km. The Project Area also includes portions of two private agricultural properties between Highway 50 and Mount Hope Road, and a portion of a property adjacent to the east of Emil Kolb Parkway where the proposed SPS is planned. As previously indicated, title searches for each property within the Project Area was not completed, however, land registry information was obtained for the three private properties where easements, land acquisition are proposed (SPS Site within Zone 1 of the Project Area, and agricultural properties within Zone 2 of the Project Area). The current and past uses of the Project Area are understood to include the following:

Table 6-1 Table of Current and Past Uses of the APU Property (Refer to clause 16(2)(b), Schedule D, O.Reg. 153/04)

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
Emil Kolb Parkway – Zone 1				
Circa 2014 - Present	The Town of Caledon	Roadway	Community Use	During the Site Visit, the bridge Structure along Emil Kolb Parkway over the Humber River was observed to have a construction date of 2014 stamped in the concrete. The roadway was observed in the 2015 Aerial Photograph.
SPS Site – Zone 1				
Circa 1960s -Present	TRCA	Currently vacant with occasional walking trails.	Agricultural / Other Use	Former Duffy's Lane roadway alignment was observed in the aerial photographs from 1946 to 1960. Several possible residential or agricultural buildings were observed in the aerial photos from 1946 to 1974.
Agricultural Property (14475 Highway 50) – Zone 2				
Circa 1989 - Present	Oakbank Estates Ltd.	Agricultural Property	Agricultural Use	The portion of the overall property located within the Project Area appeared to be used for agricultural purposes since the first Aerial Photograph (1946).
Agricultural Property (14350 Mount Hope Road) – Zone 2				
Circa 2021 - Present	United Holdings Inc.	Agricultural Property	Agricultural Use	The portion of the overall property located within the Project Area previously contained a residential / agricultural building.
Mount Hope Road – Zone 3				
At least 1946 -Present	The Town of Caledon	Roadway	Community Use	A rural roadway that appeared to be consistent with the present-day Mount Hope Road alignment was observed in the 1946 Aerial Photograph.
Highway 50 – Zone 4				
At least 1946 -Present	The Regional Municipality of Peel	Roadway	Community Use	A rural roadway that appeared to be consistent with the present-day Highway 50 road alignment was observed in the 1946 Aerial Photograph.
Columbia Way – Zone 5				
Circa 1995 - Present	The Town of Caledon	Roadway	Community Use	A roadway that appeared to be consistent with the present-day Columbia Way road alignment was observed in the 1995 Aerial Photograph.

The land registry documents obtained for the three private properties are included in Appendix B.

6.2 Potentially Contamination Activities

PCAs that were identified within or proximal to the Project Area were considered to directly result in corresponding Areas of Potential Environmental Concern (APECs), while PCAs identified in the APU Study Area were evaluated as possible APECs contributors on the basis of various criteria that included:

- Observations noted during the Site Reconnaissance;
- The proximity of the activity to the Project Area;
- The quantity and nature of substances associated with the PCA;
- The soil stratigraphy and groundwater conditions underlying the APU Study Area;
- The migration potential and preferential transport pathways that may exist between the PCA location and the Project Area;
- The diffusion and dispersion of the contaminants in groundwater and ponding of contaminants at the interface of low permeable soil; and
- The duration of operations (i.e., since at least circa the 2000's when more strict environmental legislation and controls have been recognized).

Regionally, the ground surface in the APU Study Area generally slopes down to the south, and the inferred groundwater flow direction is southerly towards Lake Ontario, and locally towards the Humber River. In general, the PCAs that were identified in the hydrogeological and topographical upgradient (to the north) and proximal cross gradient (to the east and west) locations in relation to the Project Area were considered to have the potential to impact the soil and groundwater within the Project Area since the migration and transport of contaminants in the subsurface surroundings are mainly governed by gravitational flow in the unsaturated zone, and the groundwater flow direction in the saturated zone.

The PCAs identified within the Project Area and APU Study Area that are considered as PCA contributors to APECs within the Project Area are presented in the following table and on Drawing 48561-4. The Index Number column in the table is an identifier for the location of the respective PCAs as shown on Drawing 48561-4.

Table 6-2 Potentially Contaminating Activities

No.	Location	Approximate Distance (m)/ Direction	PCA Item # (Table 2, Schedule D of Ontario Reg. 153/04, as amended)	Description	Source
1	Entirety of the Project Area	Within Project Area	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks PCA #30 – Importation of Fill Material of Unknown Quality PCA #40 Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Fill materials used to establish the present-day ground surface within the Project Area. Current and historical applicable of pesticides to agricultural properties within the Project Area. Potential impacts from fuel oil tanks at residential / agricultural properties that were currently or historically located within or adjacent to the Project Area.	Aerial Photos, Site Visit, Interviews, ERIS
2	14220 Highway 50	Adjacent to the west of Zone 4	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks PCA #48 – Salt Manufacturing, Processing and Bulk Storage PCA #52 – Storage, maintenance, fueling and repair of equipment, vehicles, and material used to maintain transportation systems	A public works yard and automotive repair garage located adjacent to the west of the Project Area.	Aerial Photos, Site Visit, ERIS
3	14289 Highway 50	Adjacent to the east of Zone 4	PCA #10 – Commercial Autobody Shops PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	An automotive repair garage and historical gas station located adjacent to the east of the Project Area.	Aerial Photos, Site Visit, ERIS, City Directory
4	14328 Highway 50	Adjacent to the west of Zone 4	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks PCA #Other – Waste Generator	A reported waste generator of light fuels located adjacent to the west of the Project Area. It is likely that the listing was related to the removal of a fuel oil tank at the residential property.	ERIS
5	14445 Highway 50	Adjacent to the east of Zone 4	PCA #10 – Commercial Autobody Shops PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks PCA #Other – Spills	A gas station, automotive repair garage, and several reported spills located adjacent to the east of the Project Area.	ERIS, City Directory, Site Visit
6	14475 Highway 50	Adjacent to the east of Zone 4	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks PCA #Other – Spill	A reported spill of fuel oil from a residential property located adjacent to the east of the Project Area. A previously completed Phase I ESA that was provided by the Site Representative with the interview response indicated that the property may have been heated with a fuel oil furnace.	ERIS, Interviews
7	14442 Highway 50	Adjacent to the west of Zone 4, and adjacent to the south of Zone 1	PCA #10 – Commercial Autobody Shops PCA #12 – Concrete, Cement and Lime Manufacturing PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks PCA #30 – Importation of Fill Material of Unknown Quality	A sand and gravel quarry, and concrete manufacturing facility with reported spills of petroleum products and transformer oil (non-PCB) located adjacent to the west of the Project Area. Large stockpiles of fill materials, fuel ASTs, and many pieces of heavy machinery and trucks were observed on the	ERIS, City Directory, Site Visit

No.	Location	Approximate Distance (m)/ Direction	PCA Item # (Table 2, Schedule D of Ontario Reg. 153/04, as amended)	Description	Source
			PCA #Other – Spills	property. A building that appeared to be a service garage for the heavy equipment was observed on the property.	
8	14383 Mount Hope Road	Adjacent to the east of Zone 3 of the Project Area	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks	Evidence of a fuel oil tank (vent and fill pipes) was observed at the residential dwelling during the site visit.	Site Visit

In addition to the identified PCAs, impacts (i.e., electrical conductivity and sodium adsorption ratio) related to the application of salts on the roads for vehicular and pedestrian safety should be considered for the portions of the Project Area within existing road ROWs.

6.3 Areas of Potential Environmental Concern

Based on an evaluation of the above-referenced criteria, the PCAs identified in the table in Section 6.2 were expected to result in two APECs. APEC 1 includes the entire Project Area and APEC 2 includes Project Zone 4. The identified APECs are presented in the following table and on Drawing 48561-4.

Table 6-3 Areas of Potential Environmental Concern

APEC #	Location of APEC within the Project Area	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[1]
APEC 1	Entire Project Area	PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks PCA #30 – Importation of Fill Material of Unknown Quality PCA #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site (Nos. 1)	M&I PHCs BTEX OCPs
APEC 2	Project Zone 4	PCA #10 – Commercial Autobody Shops PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks PCA #30 – Importation of Fill Material of Unknown Quality PCA #48 – Salt Manufacturing, Processing and Bulk Storage PCA #52 – Storage, maintenance, fueling and repair of equipment, vehicles, and material used to maintain transportation systems PCA #Other – Spills (fuel oil, transformer oil [non-PCB], diesel, hydraulic oil) PCA #Other – Waste Generators	Off-Site (Nos. 2 - 8)	M&I PHCs BTEX VOCs PAHs

1. *BTEX: Benzene, Toluene, Ethylbenzene, Xylenes*
PHCs: Petroleum Hydrocarbons
VOCs: Volatile Organic Compounds
M&I: Metals and Inorganics
PAHs: Polycyclic Aromatic Hydrocarbons
OCPs: Organochlorine Pesticides

6.4 APU Conceptual Site Model

The Project Area Conceptual Site Model (CSM) is based on the results of this Assessment of Past Uses study and consists of the following drawings:

- Drawing 48561-1 – Site Location Plan
- Drawing 48561-2 – Project Area Zones
- Drawing 48561-3 – Site and Surrounding Land Uses
- Drawing 48561-4 – Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs)

The drawings show the following key features of the Project Area and APU Study Area:

- The approximate boundaries of the Project Area and the APU Study Area as shown on Drawing 48561-1;
- Roads, including names, within the APU Study Area are shown on Drawings 48561-1 to 48561-4;
- Water Bodies located in the APU Study Area are shown on Drawings 48561-1 to 48561-4;
- The predominant land uses adjacent to the Project Area are shown on Drawing 48561-3;
- The locations of the water wells are shown on Drawing 48561-3;
- Areas where PCA contributors have occurred are shown on Drawing 48561-4;
- APECs resulting from the PCA contributors are shown on Drawing 48561-4.

The results of the document search, Site Reconnaissance and interview questionnaire responses that were completed and reviewed for this APU were used to provide the following details for the CSM.

- The Project Area consists of a series of connected linear alignments for proposed watermain and sanitary sewer installations that includes the current Rights-of-Way (ROWs) of Emil Kolb Parkway from King Street to Highway 50, Highway 50 from Emil Kolb Parkway to Columbia Way, Columbia Way to 300 m west of Westchester Boulevard, and Mount Hope Road from Columbia Way northerly for a distance of approximately 1.6 km. The Project Area also includes portions of two private agricultural properties between Highway 50 and Mount Hope Road, and a portion of a property adjacent to the east of Emil Kolb Parkway where a proposed sewage pumping station is planned. The total length of the water and sewer alignments is approximately 8.4 km.

- The proposed infrastructure improvements include new watermain and sanitary sewer installations, a sewage pumping station, and various construction and access shafts along the linear alignments.
- In general, the topography within the Project Area was highly variable, but generally sloped down to the south from a maximum Elevation 270 masl to the north of Zone 2, to Elevation 218 masl along the Humber River to the south of the proposed SPS Site within the APU Study Area.
- Water bodies within the Project Area and surrounding APU Study Area included the Humber River that intersected Zone 1 of the Project Area along Emil Kolb Parkway, and a tributary of Cold Creek that intersected Zone 2 of the Project Area.
- Several Areas of Natural Significance were identified within the Project Area including areas identified in the Town of Caledon (and previous Region of Peel) Official Plan including portions that intersect Greenbelt Plan Protected Countryside, and Natural Heritage System lands. Multiple environmentally significant wetlands were also identified within the Project Area.
- The surficial geology within the Project Area was described as clay to silt textured till derived from glaciolacustrine deposits or shale. Modern alluvial deposits comprised of clay, silt, sand, gravel and possible organics were reported along the Humber River. The underlying bedrock is mainly comprised of shale and limestone of the Georgian Bay Formation.
- Based on the topographical features and proximity of the lake, the general groundwater flow direction is expected to be southerly towards Lake Ontario.
- A total of 35 water supply wells were identified in the APU Study Area. Water supply within the majority of the APU Study Area was assumed to be sourced from groundwater (i.e., domestic water supply wells), however, portions of the Study Area to the South of Zone 1, and Zone 5 appeared to be serviced by municipal water supply.
- Underground utilities within the Project Area included including gas lines, hydro power cables, and telecommunication cables which were generally observed within Zones 4, and 5 of the Project Area. Occasional evidence of sanitary sewers, storm sewers, and watermains were observed within localized areas of Zones 4 and 5 of the Project Area. Occasional streetlights that appeared to be serviced by underground power cables were observed within the eastern portion of Zone 1 near the intersection of Highway 50, and locally near the intersection of Emil Kolb Parkway and Highway 50. The underground utilities / corridors could provide preferential pathways that may affect the horizontal migration and distribution of potential contaminants from releases up/cross gradient of the Project Area.

A total of 21 PCAs at eight locations were identified within the Project and APU Study Area that were considered to have a potential to contribute to contaminants within the proposed excavation depths in two APECs. APEC 1 includes the entire Project Area and APEC 2 includes Project Zone 4. A description of the PCAs is presented in Section 6.2 of this report. The resulting APECs and COPCs are summarized in the table presented in Section 6.3 of this report, presented on Drawing 48561-4, and are summarized as follows.

- APEC 1 includes the entire Project Area. The PCA contributors involve the importation of fill materials of unknown quality used for the construction of current and historical roadways within the Project Area, as well as potential impacts from on-site (current and historical), or adjacent agricultural properties where pesticides may have been applied. Based on observations made during the Site Reconnaissance, interview responses, and select records from the ERIS Database Report, heating for residential and/or agricultural buildings within the APU Study Area includes fuel oil burning furnaces. Several fuel oil tanks were observed at residential properties located adjacent to the Project Area and the ERIS Database Report included spill reports related to leaking fuel oil tanks.

- APEC 2 includes Project Zone 4. The PCA contributors involve a public works yard, multiple fuel storage tanks, fuel oil storage tanks, multiple reported spills of fuel and oil products, several automotive repair garages, a gas station, waste generators, an aggregate pit and contractor yard, and importation of fill materials of unknown quality to the contractor yard.

The evaluation of the APECs considered the nature and location of the PCAs (i.e., on-site and upgradient/proximal off-site locations, duration of activities, magnitude of releases and contaminant mobility) as well as the subsurface conditions and preferential pathways that may provide the potential for surface releases of substances from these activities to impact the subsurface soil and groundwater conditions beneath the Project Area.

The conditions of the Project Area described in the CSM are based exclusively on observations at the time of the Site Reconnaissance between 8:00 am and 1:00 pm on November 28, 2024. Thurber has assumed that the provided information from the obtained records and interviews are accurate and reliable. The uncertainties of this CSM included the absence of the Freedom of Information (FOI) search, and Chain of Title search. However, the Qualified Person considers that the available records reviewed as part of this APU provided the necessary information to meet the objectives of this planning document to support the Bolton Water and Wastewater Capacity Improvements Project. In this regard, the Qualified Person is of the opinion that the omission of the FOI and Chain of Title searches do not pose any information data gaps or impediments to the results of this APU Report.

7. CONCLUSIONS

A review and evaluation of various records and environmental databases, Site Reconnaissance and interviews identified a total of 21 PCAs at eight locations that were considered to contribute to two APECs within the Project Area where APEC 1 includes the Entire Project Area and APEC 2 includes Project Zone 4.

The PCAs in the identified APECs have the potential to impact the soil conditions within the excavation depths for the proposed infrastructure improvements. In addition to the identified PCAs, impacts (i.e., electrical conductivity and sodium adsorption ratio) related to the application of salts on the roads for vehicular and pedestrian safety should be considered for the portions of the Project Area within existing road ROWs.

The contaminants of potential concern (COPCs) associated with the PCAs includes metals and inorganics (M&I), including metals, hydride-forming metals, electrical conductivity (EC), sodium adsorption ratio (SAR), and other regulated parameters, petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylenes (BTEX), organochlorine pesticides (OCPs), volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs).

Based on an evaluation of the information obtained during this APU, a subsurface investigation involving the completion of a Sampling and Analysis Plan (SAP) and Soil Characterization Report (SCR) in accordance with O. Reg. 406/19 would be required to confirm or refute the presence of the COPCs in the soil within proposed excavation depths that are planned within the identified APECs.

8. DECLARATION AND SIGNATURES

The findings and conclusions of this report have been reviewed by Mr. John Zoldy, P. Eng., the undersigned qualified person who declares:

1. That the project leader or operator of the project area have provided the qualified person, or an individual supervised by the qualified person with all necessary information and access to the project area and authorized the qualified person or an individual supervised by the qualified person to make any inquiries of the project leader and operator's employees and agents, for the purpose of assisting the qualified person in preparing or overseeing the preparation of the documents.

2. That the qualified person has prepared or overseen the preparation of the documents.

3. That the documents are complete and accurate and meet the requirements of the regulation and the Soil Rules to the best of the qualified person's knowledge.

THURBER ENGINEERING LTD.



John Zoldy, P. Eng., QP_{ESA}
Associate | Environmental Engineer



Renato Pasqualoni, P. Eng., QP_{ESA}
Review Engineer

Date: ***May 8, 2025***
File: ***48561***

THURBER

STATEMENT OF LIMITATIONS AND CONDITIONS

1. STANDARD OF CARE

This Report has been prepared in accordance with generally accepted engineering or environmental consulting practices in the applicable jurisdiction. No other warranty, expressed or implied, is intended or made.

2. COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report, which is of a summary nature and is not intended to stand alone without reference to the instructions given to Thurber by the Client, communications between Thurber and the Client, and any other reports, proposals or documents prepared by Thurber for the Client relative to the specific site described herein, all of which together constitute the Report.

IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. THURBER IS NOT RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT.

3. BASIS OF REPORT

The Report has been prepared for the specific site, development, design objectives and purposes that were described to Thurber by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the Report, subject to the limitations provided herein, are only valid to the extent that the Report expressly addresses proposed development, design objectives and purposes, and then only to the extent that there has been no material alteration to or variation from any of the said descriptions provided to Thurber, unless Thurber is specifically requested by the Client to review and revise the Report in light of such alteration or variation.

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The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT THURBER'S WRITTEN CONSENT AND SUCH USE SHALL BE ON SUCH TERMS AND CONDITIONS AS THURBER MAY EXPRESSLY APPROVE. Ownership in and copyright for the contents of the Report belong to Thurber. Any use which a third party makes of the Report, is the sole responsibility of such third party. Thurber accepts no responsibility whatsoever for damages suffered by any third party resulting from use of the Report without Thurber's express written permission.

5. INTERPRETATION OF THE REPORT

a) Nature and Exactness of Soil and Contaminant Description: Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature. Comprehensive sampling and testing programs implemented with the appropriate equipment by experienced personnel may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and the Client and all other persons making use of such documents or records with our express written consent should be aware of this risk and the Report is delivered subject to the express condition that such risk is accepted by the Client and such other persons. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. If special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

b) Reliance on Provided Information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to Thurber. Thurber has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, Thurber does not accept responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of the Client or other persons providing information relied on by Thurber. Thurber is entitled to rely on such representations, information and instructions and is not required to carry out investigations to determine the truth or accuracy of such representations, information and instructions.

c) Design Services: The Report may form part of design and construction documents for information purposes even though it may have been issued prior to final design being completed. Thurber should be retained to review final design, project plans and related documents prior to construction to confirm that they are consistent with the intent of the Report. Any differences that may exist between the Report's recommendations and the final design detailed in the contract documents should be reported to Thurber immediately so that Thurber can address potential conflicts.

d) Construction Services: During construction Thurber should be retained to provide field reviews. Field reviews consist of performing sufficient and timely observations of encountered conditions in order to confirm and document that the site conditions do not materially differ from those interpreted conditions considered in the preparation of the report. Adequate field reviews are necessary for Thurber to provide letters of assurance, in accordance with the requirements of many regulatory authorities.

6. RELEASE OF POLLUTANTS OR HAZARDOUS SUBSTANCES

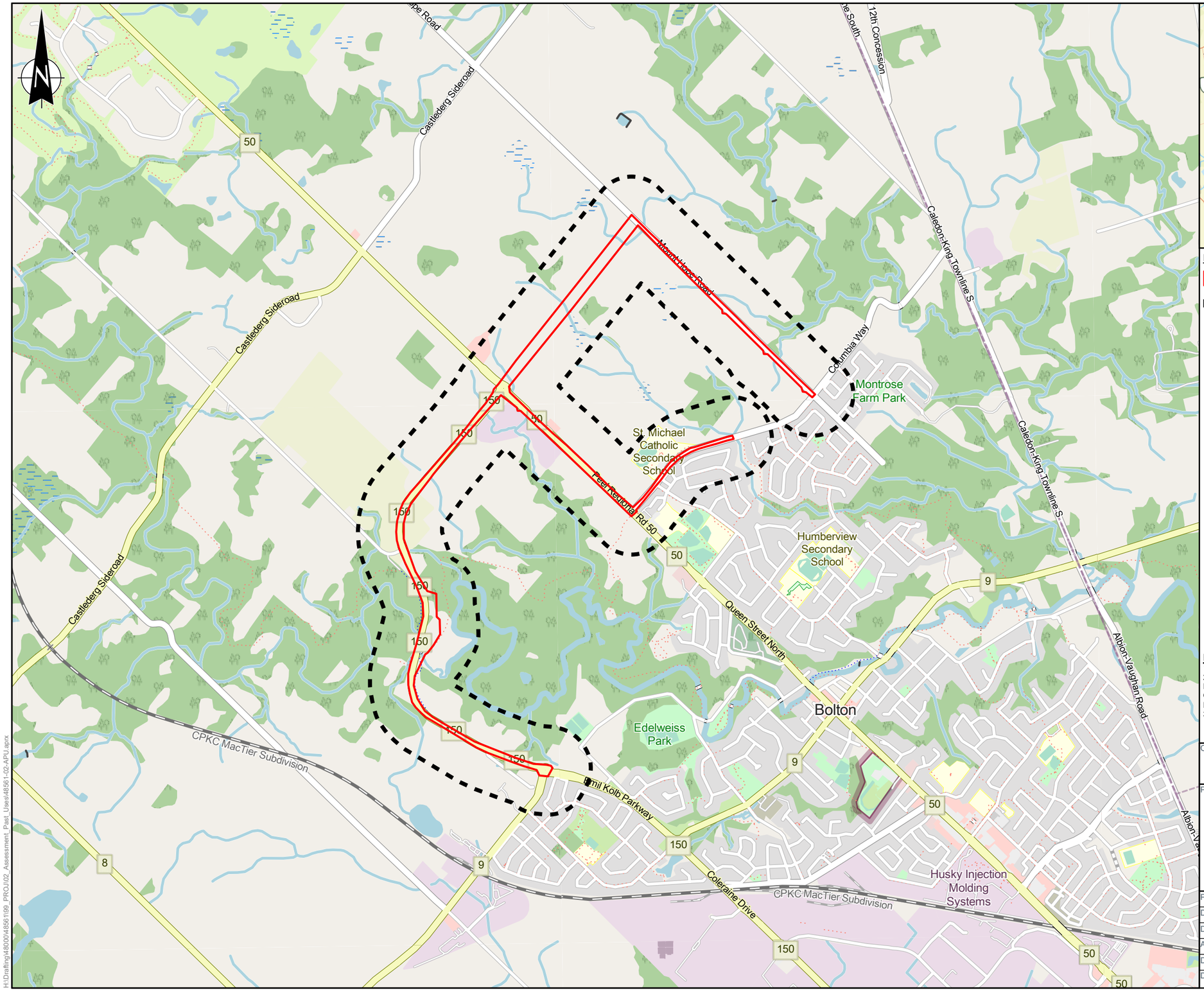
Geotechnical engineering and environmental consulting projects often have the potential to encounter pollutants or hazardous substances and the potential to cause the escape, release or dispersal of those substances. Thurber shall have no liability to the Client under any circumstances, for the escape, release or dispersal of pollutants or hazardous substances, unless such pollutants or hazardous substances have been specifically and accurately identified to Thurber by the Client prior to the commencement of Thurber's professional services.

7. INDEPENDENT JUDGEMENTS OF CLIENT

The information, interpretations and conclusions in the Report are based on Thurber's interpretation of conditions revealed through limited investigation conducted within a defined scope of services. Thurber does not accept responsibility for independent conclusions, interpretations, interpolations and/or decisions of the Client, or others who may come into possession of the Report, or any part thereof, which may be based on information contained in the Report. This restriction of liability includes but is not limited to decisions made to develop, purchase or sell land.

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DRAWINGS





LEGEND

- APPROXIMATE PROJECT AREA BOUNDARY
- APPROXIMATE STUDY AREA (250 m BUFFER)

0 312.5 625 1,250

1:25,000 METRES

REFERENCES

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ON
2. SERVICE LAYER CREDITS: WORLD STREET MAP: SOURCES: ESRI, TOMTOM, GARMIN, FAO, NOAA, USGS, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY OPENSTREETMAP: MAP DATA © OPENSTREETMAP CONTRIBUTORS, MICROSOFT, FACEBOOK, GOOGLE, ESRI COMMUNITY MAPS CONTRIBUTORS, MAP LAYER BY ESRI
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT

GEI CONSULTANTS CANADA LTD.
ON BEHALF OF PEEL REGION

PROJECT

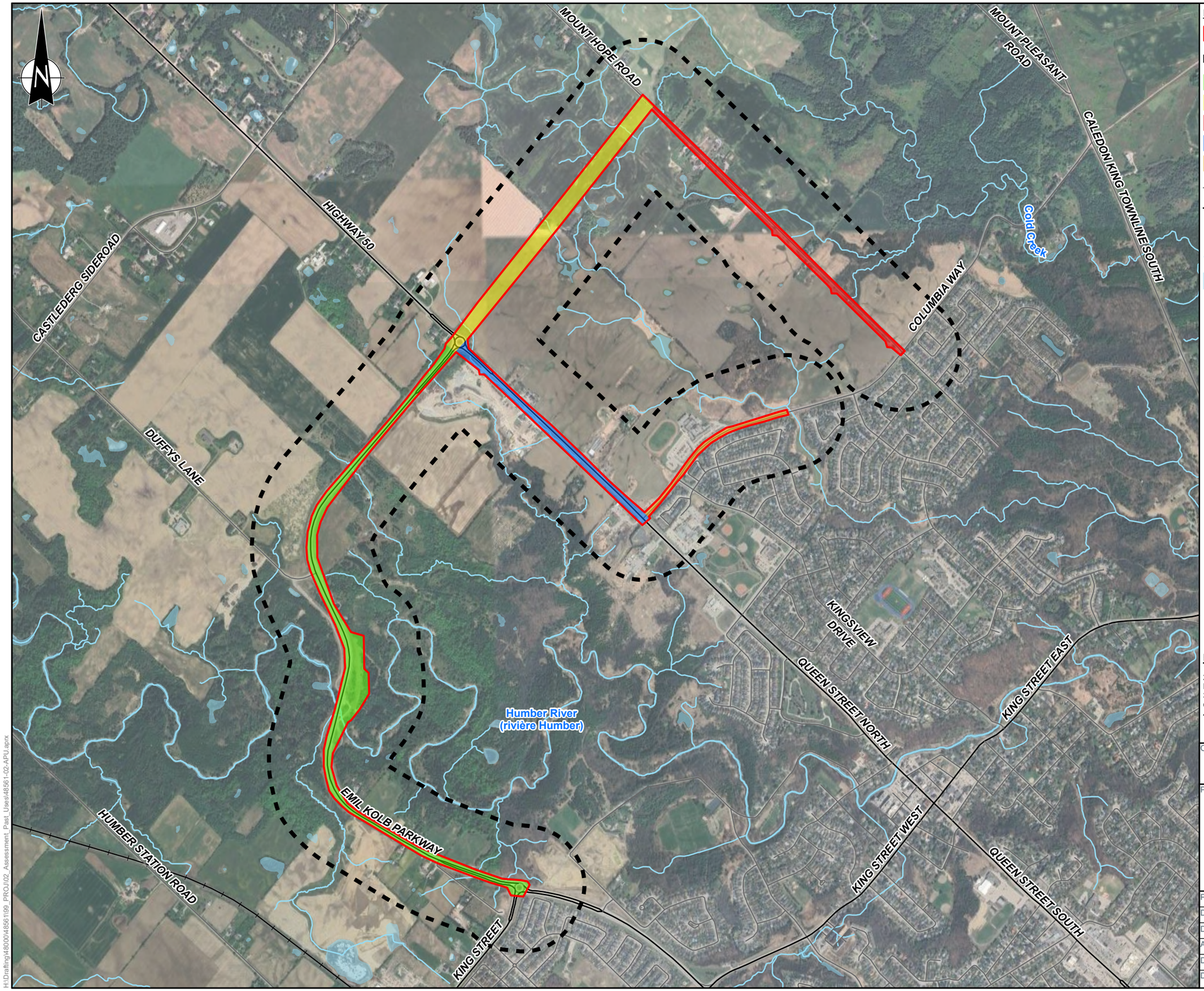
ASSESSMENT OF PAST USES
BOLTON WATER AND WATSEWATER CAPACITY IMPROVEMENTS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
BOLTON, ONTARIO

SITE LOCATION PLAN

PROJECT No.	48561
DESIGNED	JZ
DRAWN	JEM
APPROVED	RP
DATE	2025-03-14
DRAWING No.	48561-1

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LEGEND

- APPROXIMATE PROJECT AREA BOUNDARY
- APPROXIMATE STUDY AREA (250 m BUFFER)
- ZONE 1
- ZONE 2
- ZONE 3
- ZONE 4
- ZONE 5
- LOCAL ROAD
- ARTERIAL ROAD
- RAILWAY
- WATERCOURSE
- WATERBODY

0 250 500 1,000

1:17,500 METRES

REFERENCES

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ON
2. MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS. 2024. WATER WELL RECORD DATABASE
3. SERVICE LAYER CREDITS: GOOGLE MAP: © OPENSTREETMAP (AND) CONTRIBUTORS, CC-BY-SA
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

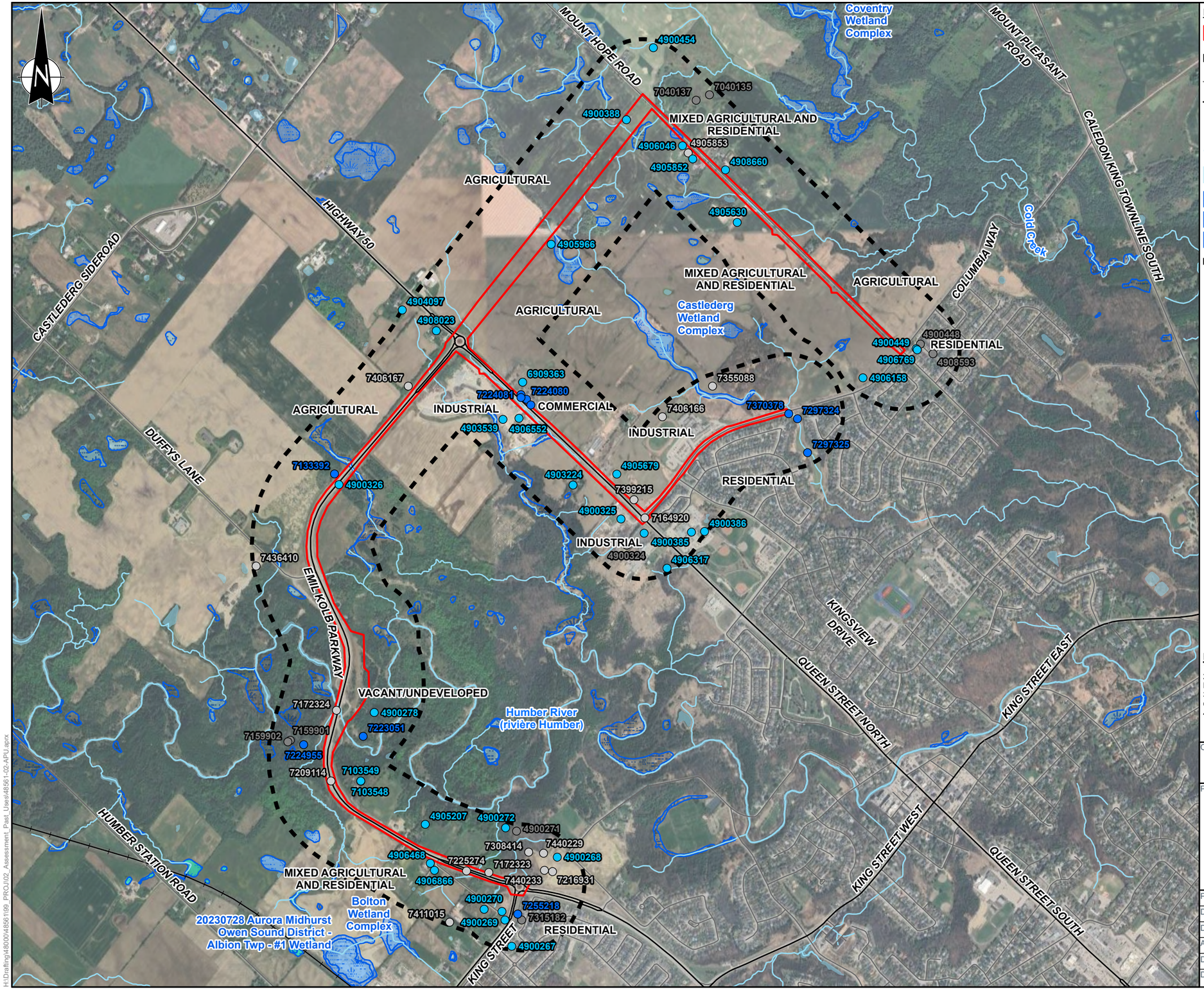
ASSESSMENT OF PAST USES
BOLTON WATER AND WATSEWATER CAPACITY IMPROVEMENTS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
BOLTON, ONTARIO

PROJECT ZONES

PROJECT No.	48561
DESIGNED	JZ
DRAWN	JEM
APPROVED	RP
DATE	2025-03-14
DRAWING No.	48561-2

THURBER

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LEGEND

- APPROXIMATE PROJECT AREA BOUNDARY
- APPROXIMATE STUDY AREA (250 m BUFFER)
- LOCAL ROAD
- ARTERIAL ROAD
- RAILWAY
- WATERCOURSE
- WATERBODY
- UNEVALUATED WETLAND
- PROVINCIALLY SIGNIFICANT WETLAND (PSW)
- NON-PROVINCIALLY SIGNIFICANT WETLAND

MECP WELL RECORD

- WATER SUPPLY
- MONITORING/TEST HOLE/OBSERVATION WELL
- UNKNOWN
- ABANDONED/OTHER

0 250 500 1,000

1:17,500 METRES

REFERENCES

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ON
2. MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS. 2024. WATER WELL RECORD DATABASE
3. SERVICE LAYER CREDITS: GOOGLE MAP: © OPENSTREETMAP (AND) CONTRIBUTORS, CC-BY-SA
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT

GEI CONSULTANTS CANADA LTD.
ON BEHALF OF PEEL REGION

PROJECT

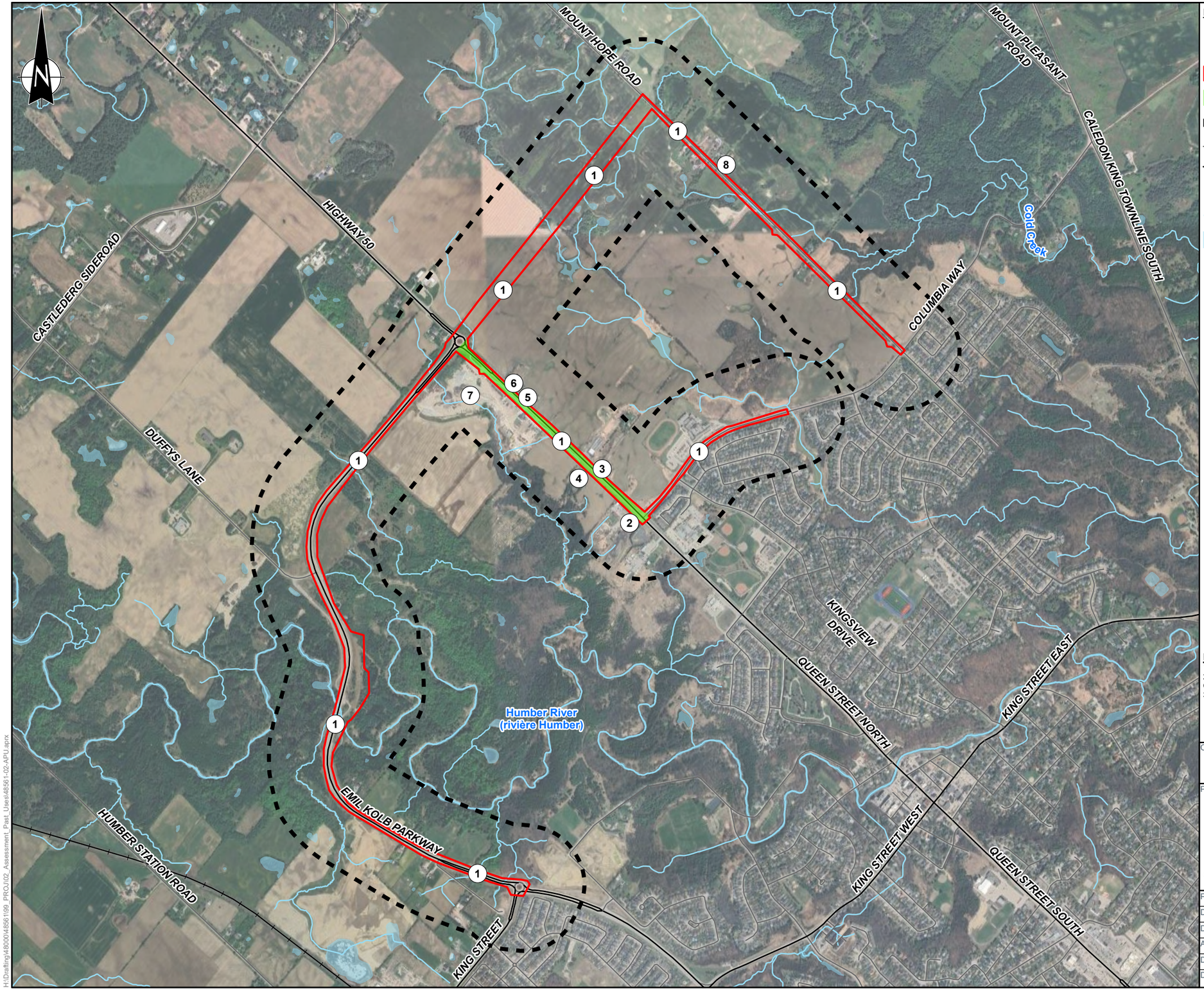
ASSESSMENT OF PAST USES
BOLTON WATER AND WATSEWATER CAPACITY IMPROVEMENTS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
BOLTON, ONTARIO

PROJECT AREA AND SURROUNDING LAND USES, AND WATER WELL INFORMATION

PROJECT No.	48561
DESIGNED	JZ
DRAWN	JEM
APPROVED	RP
DATE	2025-03-14
DRAWING No.	48561-3

THURBER

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LEGEND

- (1) POTENTIALLY CONTAMINATING ACTIVITY (PCA) Index Number - Reference Table in Section 6.2 of the report for a description of the PCA#
- APPROXIMATE PROJECT AREA BOUNDARY / APEC 1
- APEC 2
- APPROXIMATE STUDY AREA (250 m BUFFER)
- LOCAL ROAD
- ARTERIAL ROAD
- RAILWAY
- WATERCOURSE
- WATERBODY

0 250 500 1,000

1:17,500 METRES

REFERENCES

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ON
2. SERVICE LAYER CREDITS: GOOGLE MAP: © OPENSTREETMAP (AND) CONTRIBUTORS, CC-BY-SA
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT

GEI CONSULTANTS CANADA LTD.
ON BEHALF OF PEEL REGION

PROJECT

ASSESSMENT OF PAST USES
BOLTON WATER AND WATSEWATER CAPACITY IMPROVEMENTS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
BOLTON, ONTARIO

POTENTIALLY CONTAMINATING ACTIVITIES (PCAs) AND AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APECs)

PROJECT No.	48561
DESIGNED	JZ
DRAWN	JEM
APPROVED	RP
DATE	2025-03-14
DRAWING No.	48561-4

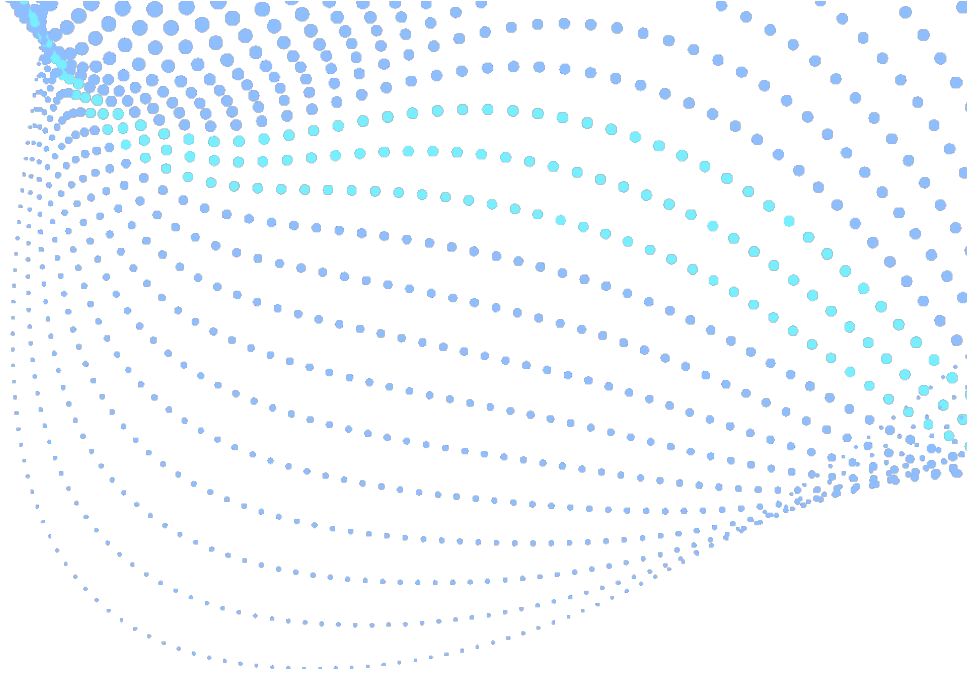
THURBER

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THURBER

APPENDIX A

Fire Insurance Plans



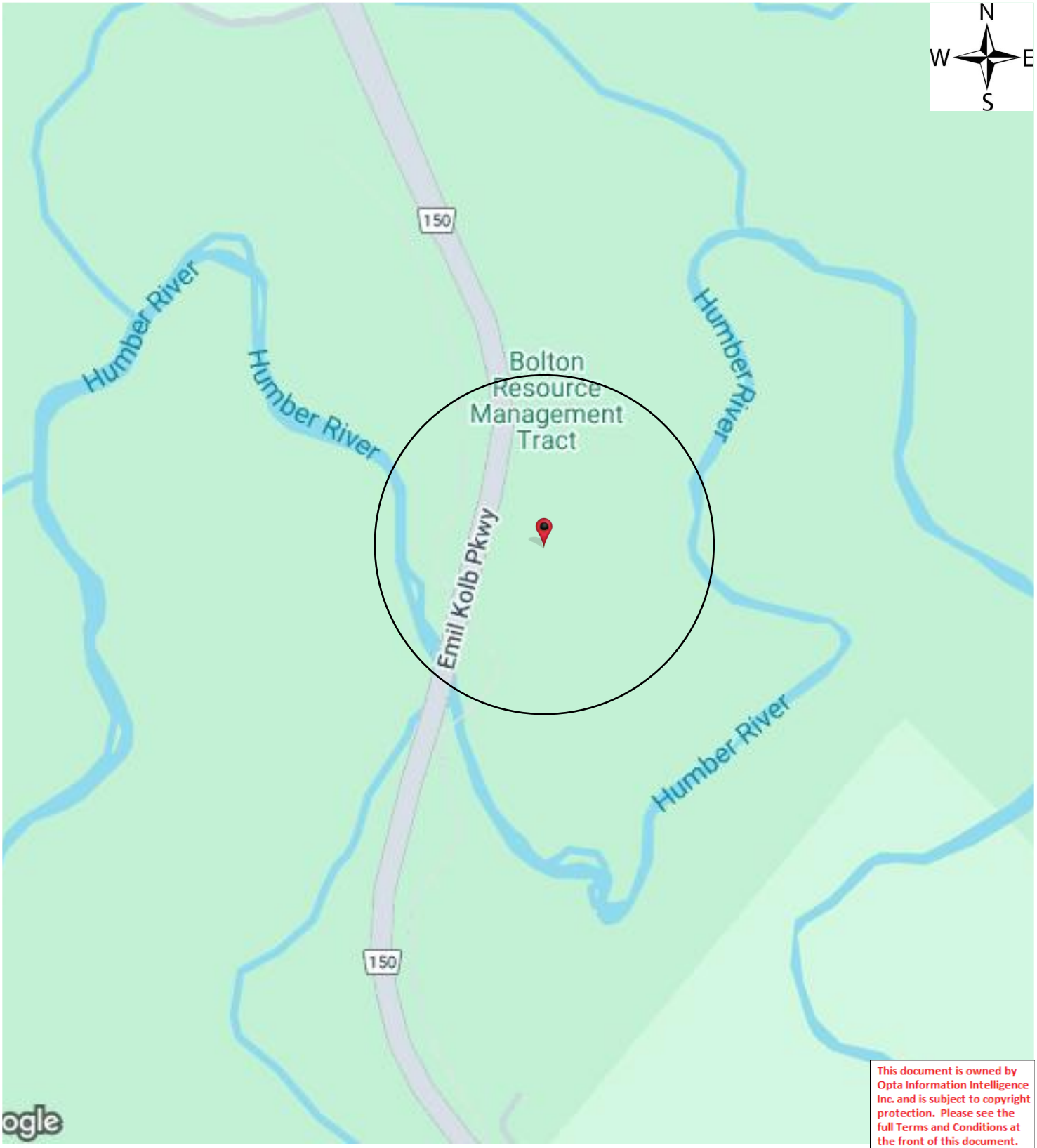
Enviroscan Report

Site address:	Kleinburg Station, ON
Project #:	25031400047
P.O. #:	156980
Requested by:	Eleanor Goolab
Date Completed:	3/20/2025 1:37:34 PM

CONFIDENTIAL

Project #: 25031400047 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:37:34

Search Area: Kleinburg Station, ON



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Project #: 25031400047 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:37:34

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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.

Project #: 25031400047 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:37:34

No Records Found

Office

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

1.877.244.9437

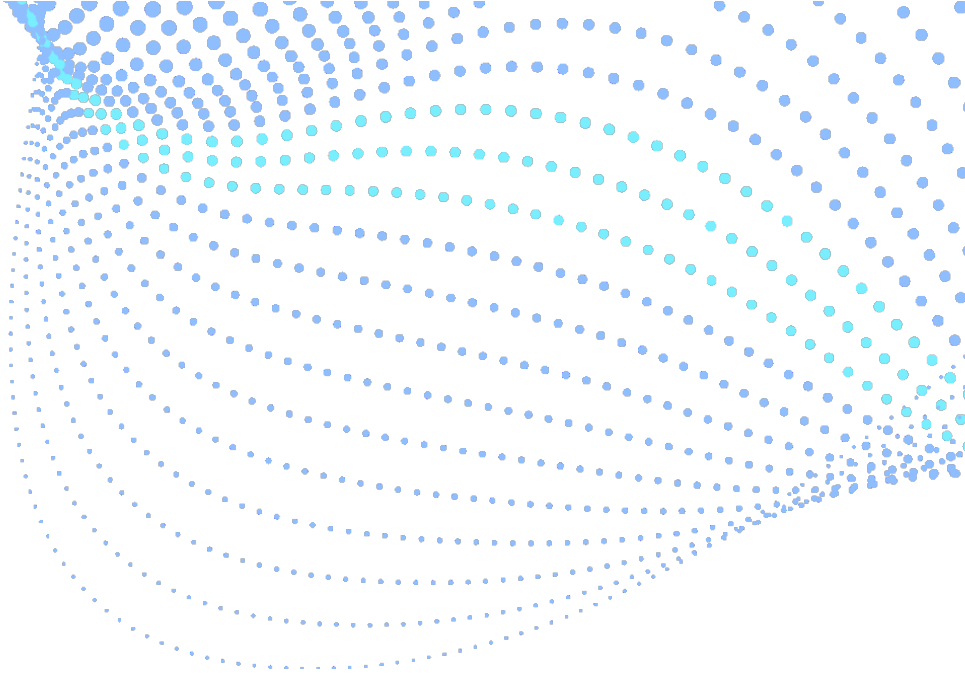
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Enviroscan Report

Site address:	Caledon ON
Project #:	25031400211
P.O. #:	157003
Requested by:	Eleanor Goolab
Date Completed:	3/20/2025 1:36:08 PM

CONFIDENTIAL

Project #: 25031400211 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:08

Search Area: Caledon ON



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Project #: 25031400211 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:08

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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.

Project #: 25031400211 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:08

No Records Found

Office

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Markham, Ontario L3T 7Z3

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Enviroscan Report

Site address:	N/A, Kleinburg, ON
Project #:	25031400212
P.O. #:	157004
Requested by:	Eleanor Goolab
Date Completed:	3/20/2025 1:36:31 PM

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Project #: 25031400212 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:31

Search Area: N/A, Kleinburg, ON



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Project #: 25031400212 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:31

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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.

Project #: 25031400212 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:31

No Records Found

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THURBER

APPENDIX B

Land Registry Information

PROPERTY DESCRIPTION: PT LT 12 CON 5 (ALB); TOWN OF CALEDON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
DIVISION FROM 14329-0119

PIN CREATION DATE:
2013/04/30

OWNERS' NAMES
TORONTO AND REGION CONSERVATION AUTHORITY

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2013/04/30 **						
**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: 1999/06/22 **						
AL20331	1962/11/12	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
REMARKS: SKETCH ATTACHED CORRECTIONS: 'TRANSFEREE' CHANGED FROM 'THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHROITY' TO 'THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY' ON 1999/06/10 BY LAND REGISTRAR # 6.						
AL20463	1963/01/25	TRANSFER	$30,000		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
REMARKS: SKETCH ATTACHED						
AL20491	1963/02/15	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
REMARKS: SKETCH ATTACHED						
AL20528	1963/03/13	TRANSFER	$2,750		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
REMARKS: SKETCH ATTACHED						
AL20530	1963/03/14	TRANSFER	$7,150		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
REMARKS: SKETCH ATTACHED						
AL20613	1963/05/03	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	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.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
	REMARKS: SKETCH ATTACHED					
AL20806	1963/08/06	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL20913	1963/10/16	TRANSFER	$6,200		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL20956	1963/10/31	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL20990	1963/11/15	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL21014	1963/11/28	TRANSFER	$1		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL21170	1964/03/24	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL21229	1964/04/28	TRANSFER	$7,500		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
AL21367	1964/07/24	TRANSFER	$9,700		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL21403	1964/08/14	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL21478	1964/10/08	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
	CORRECTIONS: 'TRANSFEREE' CHANGED FROM 'THE METROPLITAN TORONTO AND REGION CONSERVATION AUTHORITY' TO 'THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY' ON 1999/06/10 BY LAND REGISTRAR # 6.					
AL21507	1964/10/28	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL21549	1964/11/09	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL21919	1965/05/20	TRANSFER	$7,200		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
AL22089	1965/08/04	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
AL22090	1965/08/04	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED.					
VS507	1966/01/10	TRANSFER	$3,500		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
VS29931	1967/01/12	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
VS40123	1967/05/25	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
VS64623	1968/02/02	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
VS65235	1968/02/09	TRANSFER	$1		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
VS65237	1968/02/09	TRANSFER	$1		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
VS85242	1968/09/26	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED.					
VS152224	1970/10/09	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
VS234627	1972/10/20	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
VS240297	1972/11/30	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	CORRECTIONS: 'TRANSFEREE' CHANGED FROM 'THE METROPOLITAN TORONTO AND REGION CONVERATION AUTHORITY' TO 'THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY' ON 1999/06/10 BY LAND REGISTRAR # 6.					
VS244508	1973/01/04	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
	REMARKS: SKETCH ATTACHED					
VS293645	1973/12/10	QUIT CLAIM TRNSFR	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
RO441361	1977/08/03	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
RO702994	1985/01/11	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	C
43R20096	1993/10/25	PLAN REFERENCE				C
PR2359273	2013/04/23	APL CH NAME OWNER		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	TORONTO AND REGION CONSERVATION AUTHORITY	C

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

PROPERTY DESCRIPTION: PT LT 13 CON 7 ALBION; PT LT 14 CON 7 ALBION PT 1 43R18117 ; CALEDON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
RE-ENTRY FROM 14331-0161

PIN CREATION DATE:
1999/06/21

OWNERS' NAMES
UNITED HOLDINGS (2) INC.

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 1997/09/23 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1999/06/21						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1999/06/21 ***						
***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: 1999/06/22 ***						
VS105747	1969/04/28	TRANSFER		*** COMPLETELY DELETED ***	PAULDOR DEVELOPMENTS LIMITED ALBOL DEVELOPMENTS LIMITED	
VS109585	1969/06/03	TRANSFER		*** DELETED AGAINST THIS PROPERTY ***	ALBOL DEVELOPMENTS LIMITED	
VS133706	1970/02/19	DECLARATION		*** DELETED AGAINST THIS PROPERTY ***		
	REMARKS: DELETED 2006/09/25 K CATION-BEECROFT					
43R18117	1990/09/28	PLAN REFERENCE				C
PR1148170	2006/10/04	TRANSFER		*** COMPLETELY DELETED *** ALBOL DEVELOPMENTS LIMITED	CALEDON COMMONWEALTH LTD.	
	REMARKS: PLANNING ACT STATEMENTS					

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
PR2922724	2016/06/01	TRANSFER		*** COMPLETELY DELETED *** CALEDON COMMONWEALTH LTD.	2518643 ONTARIO INC.	
PR2922725	2016/06/01	CHARGE		*** COMPLETELY DELETED *** 2518643 ONTARIO INC.	CALEDON COMMONWEALTH LTD.	
PR3354705	2018/07/25	NOTICE		*** COMPLETELY DELETED *** 2640370 ONTARIO LIMITED		
	REMARKS: PR2922725; EXPIRES 2028/06/16					
PR3519929	2019/08/07	TRANSFER OF CHARGE		*** COMPLETELY DELETED *** CALEDON COMMONWEALTH LTD.	2640370 ONTARIO LIMITED	
	REMARKS: PR2922725. PARTIAL					
PR3576785	2019/11/26	DISCHARGE INTEREST		*** COMPLETELY DELETED *** 2640370 ONTARIO LIMITED		
	REMARKS: PR3354705.					
PR3772585	2021/01/28	TRANSFER	$10,500,000	2518643 ONTARIO INC.	UNITED HOLDINGS (2) INC.	C
	REMARKS: PLANNING ACT STATEMENTS.					
PR3772586	2021/01/28	CHARGE		*** COMPLETELY DELETED *** UNITED HOLDINGS (2) INC.	2518643 ONTARIO INC.	
PR3772653	2021/01/28	DISCH OF CHARGE		*** COMPLETELY DELETED *** CALEDON COMMONWEALTH LTD. 2640370 ONTARIO LIMITED		
	REMARKS: PR2922725.					
PR4229596	2023/07/27	DISCH OF CHARGE		*** COMPLETELY DELETED *** 2518643 ONTARIO INC.		
	REMARKS: PR3772586.					

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

PROPERTY DESCRIPTION: PT LT 13, CONC 7 ALBION DES PT 1, 43R16003, EXCEPT PT 1, 43R34593; TOWN OF CALEDON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
DIVISION FROM 14331-0022

PIN CREATION DATE:
2012/05/15

OWNERS' NAMES
OAKBANK ESTATES INC.

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2012/05/15 **						
**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: 1999/06/22 **						
43R16003	1988/08/24	PLAN REFERENCE				C
RO904177	1989/07/28	TRANSFER	$7,190,300		OAKBANK ESTATES INC.	C
43R34593	2012/05/01	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.

THURBER

APPENDIX C

City Directory Report

ERIS

CITY DIRECTORY

Project Property:	*48561 Bolton EA* *n/a* *Caledon,ON*
Project No:	*48561*
Requested By:	*Thurber Engineering Ltd*
Order No:	*24112100344*
Date Completed:	*November 29, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

November 29, 2024
RE: CITY DIRECTORY RESEARCH
n/a
Caledon,ON

Thank you for contacting ERIS regarding our City Directory Search services. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. When searching a range of addresses, all civic addresses within that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on highly developed areas, while newly developed areas may be covered in the more recent years, older directories tend to cover only "central" parts of the city. To complete the search, we have either utilized the Toronto Reference Library, Library & Archives Canada and multiple digitized directories. While these do not claim to be a complete collection of all reverse listing city directories produced, ERIS has made every effort to provide accurate and complete information. ERIS shall not be held liable for missing, incomplete, or inaccurate information. If you believe there are additional addresses or streets that require searching, please contact us.

Search Criteria:

9100-9730 of Columbia Way

14000-14575 of Duffys Lane

14000-14300 of Emil Kolb Parkway

14000-14820 of Highway 50

13900-14560 of Mt Hope Road

Search Notes:

Emil Kolb Parkway is also known as Peel Regional Road 150 in Bolton. Highway 50 is also known as Queen Street N in Bolton.

Search Results Summary

Data from 2012 to 2017 does not include residential information

Date	Source	Comment
2023	DIGITAL BUSINESS DIRECTORY	
2021	DIGITAL BUSINESS DIRECTORY	
2017	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	COLE	
2000-01	POLKS	
1995-96	MIGHTS	
1991	MIGHTS	
1985	MIGHTS	
1981	MIGHTS	
1975	MIGHTS	
1970-71	MIGHTS	
1966	MIGHTS	
1958	MIGHTS	

2023 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **JUST CATERING**...*CATERERS*
9130 **ST MICHAEL**...*SCHOOLS*
9706 **J CHABLUK**...*RESIDENTIAL*
9726 **A DISCENZA**...*RESIDENTIAL*

2023 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*CONSTRUCTION COMPANIES*
14068 **CALEDON CONTRACTING LTD**...*FEDERAL GOVERNMENT CONTRACTORS*
14068 **K CARLYON**...*RESIDENTIAL*

2023 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

14096 **A KARALASINGAM**...*RESIDENTIAL*
14105 **RICHARD ABEL**...*RESIDENTIAL*
14114 **A DEVITA**...*RESIDENTIAL*
14114 **C GONCALVES**...*RESIDENTIAL*

2023 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **MR SUB**...*FOODS-CARRY OUT*
14111 **MR SUB**...*RESTAURANTS*
14118 **A ZIMMER**...*RESIDENTIAL*
14118 **J GILLESPIE**...*RESIDENTIAL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*RECREATIONAL VEHICLES-RENTING & LEASING*
14124 **MOTOR HOME TRAVEL CANADA INC**...*RECREATIONAL VEHICLES*
14291 **CHRISTINA PILON**...*RESIDENTIAL*
14291 **LEO PILON**...*RESIDENTIAL*
14328 **C BOWLES**...*RESIDENTIAL*
14442 **CALEDON TRANSPORT**...*LOCAL TRUCKING, WITHOUT STORAGE*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE-READY MIXED*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE AGGREGATES (WHOLESALE)*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **BOLTON ESSO**...*SERVICE STATIONS-GASOLINE & OIL*
14445 **ESSO**...*SERVICE STATIONS-GASOLINE & OIL*
14445 **J WILSON**...*RESIDENTIAL*
14445 **MIKE THE MECHANIC**...*AUTOMOBILE REPAIRING & SERVICE*
14445 **S F SVC**...*VEHICLE INSPECTION SERVICE*
14445 **S F SVC**...*AUTOMOBILE INSPECTION STATIONS*
14445 **S AGNEW**...*RESIDENTIAL*
14600 **J SARKISIAN**...*RESIDENTIAL*
14600 **R SUMMERS**...*RESIDENTIAL*
14616 **K CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GARDEN EQUIP & SUPPLIES-RETAIL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN MOWERS*
14684 **J STAMOS**...*RESIDENTIAL*
14684 **K POLSINELLI**...*RESIDENTIAL*
14684 **P SHELL**...*RESIDENTIAL*
14684 **W TWEDDLE**...*RESIDENTIAL*
14685 **M MACKENZIE**...*RESIDENTIAL*
14685 **R FRENCH**...*RESIDENTIAL*
14766 **E FIALA**...*RESIDENTIAL*
14766 **KEN MCKAY**...*RESIDENTIAL*
14776 **JOE GUARAGNA**...*RESIDENTIAL*
14791 **H AUER**...*RESIDENTIAL*
14800 **A CIARALLO**...*RESIDENTIAL*
14815 **J SCHWEIGHOFER**...*RESIDENTIAL*
14816 **CHESSLAWN FARM**...*INDUSTRIAL EQUIPMENT & SUPPLIES (WHOL)*
14818 **DWIGHT MATSON**...*RESIDENTIAL*
14818 **HILLIARD MATSON**...*RESIDENTIAL*
14818 **S MATSON**...*RESIDENTIAL*

2023 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14190 **SMITH LAURA**...*RESIDENTIAL*
14195 **V CAVALIERI**...*RESIDENTIAL*
14320 **A WILLIAMS**...*RESIDENTIAL*
14320 **J BENOIT**...*RESIDENTIAL*
14383 **M BARTUCCI**...*RESIDENTIAL*
14395 **J PARETE**...*RESIDENTIAL*
14400 **JEFF BELISOWSKI**...*RESIDENTIAL*
14409 **C ACETO**...*RESIDENTIAL*
14414 **A BASSDNBEN**...*RESIDENTIAL*
14421 **J BUTLER**...*RESIDENTIAL*
14432 **DOMENIC IERULLO**...*RESIDENTIAL*
14461 **MURRAY MATSON**...*RESIDENTIAL*
14559 **P DEROSA**...*RESIDENTIAL*

2021 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **JUST CATERING**...*CATERERS*
9130 **ST MICHAEL**...*SCHOOLS*
9706 **J CHABLUK**...*RESIDENTIAL*
9726 **A DISCENZA**...*RESIDENTIAL*

2021 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*CONSTRUCTION COMPANIES*
14068 **CALEDON CONTRACTING LTD**...*FEDERAL GOVERNMENT CONTRACTORS*
14068 **K CARLYON**...*RESIDENTIAL*

2021 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

14096 **A KARALASINGAM**...*RESIDENTIAL*
14105 **RICHARD ABEL**...*RESIDENTIAL*
14114 **A DEVITA**...*RESIDENTIAL*
14114 **C GONCALVES**...*RESIDENTIAL*

2021 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **MR SUB**...*FOODS-CARRY OUT*
14118 **J GILLESPIE**...*RESIDENTIAL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*MOTOR HOMES-RETAIL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*MOTOR HOMES-RENTING & LEASING*
14291 **CHRISTINA A PILON**...*RESIDENTIAL*
14291 **CHRISTINA PILON**...*RESIDENTIAL*
14291 **LEO PILON**...*RESIDENTIAL*
14328 **C BOWLES**...*RESIDENTIAL*
14442 **CALEDON TRANSPORT**...*GENERAL FREIGHT TRUCKING,LOCAL*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE MIXERS (WHLS)*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE AGGREGATES (WHLS)*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **BOLTON ESSO**...*ALTERNATIVE FUELS*
14445 **J WILSON**...*RESIDENTIAL*
14445 **MIKE THE MECHANIC**...*AUTOMOBILE REPAIRING & SERVICE*
14445 **S F SVC**...*VEHICLE INSPECTION SERVICE*
14445 **S F SVC**...*AUTOMOBILE INSPECTION STATIONS-NEW/USED*
14600 **J SARKISIAN**...*RESIDENTIAL*
14616 **K CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GROUNDS MAINTENANCE*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GARDEN EQUIP & SUPPLIES-RETAIL*
14684 **J STAMOS**...*RESIDENTIAL*
14684 **K POLSINELLI**...*RESIDENTIAL*
14684 **P SHELL**...*RESIDENTIAL*
14685 **M MACKENZIE**...*RESIDENTIAL*
14685 **R FRENCH**...*RESIDENTIAL*
14766 **E FIALA**...*RESIDENTIAL*
14766 **KEN MCKAY**...*RESIDENTIAL*
14776 **JOE GUARAGNA**...*RESIDENTIAL*
14791 **H J AUER**...*RESIDENTIAL*
14800 **A CIARALLO**...*RESIDENTIAL*
14815 **J SCHWEIGHOFER**...*RESIDENTIAL*
14818 **DWIGHT MATSON**...*RESIDENTIAL*
14818 **HILLIARD MATSON**...*RESIDENTIAL*
14818 **S MATSON**...*RESIDENTIAL*

2021 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14190 **SMITH LAURA**...*RESIDENTIAL*
14195 **V CAVALIERI**...*RESIDENTIAL*
14320 **A WILLIAMS**...*RESIDENTIAL*
14320 **J BENOIT**...*RESIDENTIAL*
14383 **M BARTUCCI**...*RESIDENTIAL*
14395 **J PARETE**...*RESIDENTIAL*
14400 **JEFF BELISOWSKI**...*RESIDENTIAL*
14409 **C ACETO**...*RESIDENTIAL*
14414 **A BASSDNBEN**...*RESIDENTIAL*
14421 **J BUTLER**...*RESIDENTIAL*
14432 **DOMENIC IERULLO**...*RESIDENTIAL*
14461 **MURRAY W MATSON**...*RESIDENTIAL*
14559 **P DEROSA**...*RESIDENTIAL*

2017 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **ST MICHAEL**...*ELEMENTARY & SECONDARY SCHOOLS*

2017 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*POURED CONCRETE STRUCTURE CONTRS*
14068 **MAJESTIC MEMORIALS**...*ALL OTHER SUPPORT SVCS*
14068 **MAJESTIC MEMORIALS**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2017 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2017 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14007 **BARRHAVEN RESTAURANTS**...*RESTAURANTS*
14111 **CALEDON CENTRE FOR RECREATION**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14111 **CALEDON CENTRE SWIMMING POOL**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14111 **MR SUB**...*FULLSERVICE RESTAURANTS*
14111 **MR SUB**...*LIMITEDSERVICE RESTAURANTS*
14118 **WOODY'S BUILDING PRODUCTS**...*HOME CENTERS*
14182 **NORTH HILL ANIMAL HOSPITAL**...*VETERINARIANS*
14218 **COLD CREEK LANDSCAPING & MNTNC**...*LAWN & GROUNDS MAINTENANCE*
14289 **ALBION AUTO CTR**...*GENERAL AUTOMOTIVE REPAIR*
14289 **ALBION AUTO SALES**...*USED CAR DEALERS*
14442 **CALEDON TRANSPORT**...*TRUCKING AND WAREHOUSING*
14442 **JAMES DICK AGGREGATES**...*MASONRY MATERIAL MERCHANT WHOLS*
14442 **JAMES DICK CONCRETE-AGGREGATES**...*POURED CONCRETE STRUCTURE CONTRS*
14442 **JAMES DICK CONSTRUCTION LTD**...*OTHER BUILDING MATERIAL DEALERS*
14442 **JAMES DICK CONSTRUCTION LTD**...*MASONRY MATERIAL MERCHANT WHOLS*
14444 **JAMES DICK CONSTRUCTION**...*OTHER BUILDING MATERIAL DEALERS*
14445 **BOLTON ESSO**...*OTHER GASOLINE STATIONS*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **MIKE THE MECHANIC**...*GENERAL AUTOMOTIVE REPAIR*
14445 **S F SVC**...*OTHER GASOLINE STATIONS*
14445 **S F SVC**...*GENERAL AUTOMOTIVE REPAIR*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*OUTDOOR POWER EQUIP STORES*

2017 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14559 **JMD WOOD PRODUCTS LTD**...*LUMBER & WOOD MERCHANT WHOLS*
14559 **JMD WOOD PRODUCTS LTD**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2012 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2012 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*POURED CONCRETE STRUCTURE CONTRS*
14068 **MAJESTIC MEMORIALS**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2012 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2012 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **CALEDON CENTRE FOR RECREATION**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14118 **VIA DIRECT**...*SUPPORT ACTIVITIES FOR RAIL TRANSPORTATION*
14118 **WOODY'S BUILDING PRODUCTS**...*HOME CENTERS*
14124 **WOODY'S BUILDING PRODUCTS**...*OTHER BUILDING MATERIAL DEALERS*
14124 **WOODYS HOME IMPROVEMENT CTR**...*RESIDENTIAL REMODELERS*
14182 **NORTH HILL ANIMAL HOSPITAL**...*VETERINARIANS*
14182 **ROTENBERG, ARTHUR DVM**...*VETERINARIANS*
14218 **COLD CREEK LANDSCAPING & MNTNC**...*LAWN & GROUNDS MAINTENANCE*
14220 **BEL AIR WOOD COMPONENTS**...*UNCLASSIFIED*
14289 **ALBION AUTO CTR**...*GENERAL AUTOMOTIVE REPAIR*
14289 **ALBION AUTO SALES**...*USED CAR DEALERS*
14289 **ALBION AUTO SALES & SVC INC**...*AUTOMOTIVE EXHAUST SYSTEM REPAIR*
14291 **HERITAGE GROUP LTD**...*OFFICES OF REAL ESTATE AGENTS & BROKERS*
14337 **BH FLOWERS WHOLESALE LTD**...*NURSERY & FLORIST MERCHANT WHOLS*
14442 **CALEDON TRANSPORT**...*TRUCKING AND WAREHOUSING*
14442 **JAMES DICK CONCRETE-AGGREGATES**...*POURED CONCRETE STRUCTURE CONTRS*
14442 **JAMES DICK CONSTRUCTION LTD**...*MASONRY MATERIAL MERCHANT WHOLS*
14444 **JAMES DICK CONSTRUCTION**...*OTHER BUILDING MATERIAL DEALERS*
14445 **AUTOPRO DEALER**...*GENERAL AUTOMOTIVE REPAIR*
14445 **BOLTON ESSO**...*OTHER GASOLINE STATIONS*
14445 **MIKE THE MECHANIC**...*GENERAL AUTOMOTIVE REPAIR*
14445 **S & F SVC**...*GENERAL AUTOMOTIVE REPAIR*
14600 **JAY-R'S AUTO GLASS**...*OTHER BUILDING MATERIAL DEALERS*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*OUTDOOR POWER EQUIP STORES*

2012 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2008 COLUMBIA WAY

SOURCE: COLE

9726 **RESIDENTIAL (1 TENANT)**

2008 DUFFYS LANE

SOURCE: COLE

14068 **CALEDON CEMETERY CONSTRUCTION**
14068 **CALEDON CONTRACTING LTD**
14068 **CALEDON MAUSOLEUM CORPORATION**
14068 **MAJESTIC MEMORIALS**
ALL RESIDENTIAL

2008 EMIL KOLB PARKWAY

SOURCE: COLE

STREET NOT LISTED

2008 HIGHWAY 50

SOURCE: COLE

STREET NOT LISTED

2008 MT HOPE ROAD

SOURCE: COLE

ALL RESIDENTIAL

2000-01 COLUMBIA WAY

SOURCE: POLKS

9726 **TARMAC CANADA INC**
ALL RESIDENTIAL

2000-01 DUFFYS LANE

SOURCE: POLKS

14068 **CALEDON CEMETERY CONSTRUCTION**
14068 **CALEDON CONTRACTING LTD**
14068 **CALEDON MAUSOLEUM CORPORATION**

2000-01 EMIL KOLB PARKWAY

SOURCE: POLKS

STREET NOT LISTED

2000-01 HIGHWAY 50

SOURCE: POLKS

14218	COLD CREEK LANDSCAPING & MAINTENANCE
14245	RAVINE OF TAYLOR WOODS THE
14289	22 DOLLARS A DAY CAR RENTALS
14289	ALBION AUTO SALES
14442	CALEDON TRANSPORT
14442	JAMES DICK CONCRETE-AGGREGATES
14445	AUTOPRO
14445	MIKE THE MECHANIC
14445	S & F SERVICE
14445	STEVE MORELLOS SERVICE
14600	JAY-R'S AUTO GLASS
14616	KEN'S LAWNMOWER REPAIRS LTD
	ALL RESIDENTIAL

2000-01 MT HOPE ROAD

SOURCE: POLKS

ALL RESIDENTIAL

1995-96 COLUMBIA WAY

SOURCE: MIGHTS

9589 **RESIDENTIAL (1 TENANT)**
9683 **RESIDENTIAL (1 TENANT)**

1995-96 DUFFYS LANE

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1995-96 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1995-96 HIGHWAY 50

SOURCE: MIGHTS

ALL RESIDENTIAL

1995-96 MT HOPE ROAD

SOURCE: MIGHTS

ALL RESIDENTIAL

1991 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1991 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1991 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1991 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1991 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1985 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1985 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1985 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1985 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1985 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1981 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1981 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1981 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1981 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1981 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1975 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1975 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1975 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1975 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1975 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1970-71 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1966 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1966 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1966 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1966 HIGHWAY 50

SOURCE: MIGHTS

STREET NOT LISTED

1966 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1958 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1958 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1958 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1958 HIGHWAY 50

SOURCE: MIGHTS

STREET NOT LISTED

1958 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

THURBER

APPENDIX D

ERIS Database Report

DATABASE REPORT

Project Property:	*48561 Bolton EA* *n/a* *Caledon ON*
Project No:	*48561*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*24112100344*
Requested by:	*Thurber Engineering Ltd*
Date Completed:	*November 21, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:	*48561 Bolton EA* *n/a Caledon ON*
Project No:	*48561*

Order Information:

Order No:	*24112100344*
Date Requested:	*November 21, 2024*
Requested by:	*Thurber Engineering Ltd*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*Smart CD Search*
ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	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	N	-	-	-
CA	Certificates of Approval	Y	0	2	2
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	N	-	-	-
DTNK	Delisted Fuel Tanks	Y	0	9	9
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	N	-	-	-
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	5	5
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	5	5
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	32	32
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	4	4
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
NPR2	National Pollutant Release Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory - Historic	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	9	9
PFAS	Ontario PFAS Spills	Y	0	0	0
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	1	3	4
PPHA	Potential PFAS Handlers from EASR	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	N	-	-	-
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	1	1
RST	Retail Fuel Storage Tanks	Y	0	1	1
SCT	Scott's Manufacturing Directory	Y	0	6	6
SPL	Ontario Spills	Y	1	9	10
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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
WDSH	***Waste Disposal Sites - MOE 1991 Historical Approval Inventory***	*Y*	*0*	*0*	*0*
WWIS	***Water Well Information System***	*N*	*-*	*-*	*-*
		Total:	*2*	*87*	*89*

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	SPL	Enbridge Gas Distribution Inc.	Emil Colb Parkway @ King Street Caledon ON	S/0.0	-11.36	28
1	PINC	PIPELINE HIT 4"	EMIL KOLB PKWY & KING ST,,BOLTON, ON,,CA ON	S/0.0	-11.36	29

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	GEN	PEEL, REGION OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	ESE/14.1	4.58	29
2	GEN	PEEL, REGIONAL MUNICIPALITY OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	ESE/14.1	4.58	30
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	33
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	33
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	34

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	34
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	35
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	35
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	36
2	PES		14220 Hwy 50 HWY CALEDON ON L7E 3E2	ESE/14.1	4.58	36
2	PES	CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	ESE/14.1	4.58	37
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON L7E 5R8	ESE/20.1	4.61	37
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	38
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	38
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	39
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	39
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	40
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	42
4	SPL		60 Alderbrook Place, Bolton Caledon ON	ESE/21.3	1.52	42
5	SPL	CALEDON HYDRO	14442 HWY 50 (JAMES DICK CONSTRUCTION) TRANSFORMER/CAPACITOR CALEDON TOWN ON	NNE/26.9	-0.64	43
5	SCT	Caledon Sand & Gravel Inc.	14442 Regional Road 50 Bolton ON L7E 3E2	NNE/26.9	-0.64	44
5	SCT	James Dick Construction Ltd.	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	James Dick Concrete Aggregates	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	Hamilton Ready Mix Ltd.	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	James Dick Construction Ltd.	14442 Regional Road 50 Bolton ON L7E 3E2	NNE/26.9	-0.64	45
5	SPL	James Dick Construction Limited	14442 Hwy 50 Caledon ON	NNE/26.9	-0.64	45

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
6	RST	S & F SERVICE	14445 HWY 50 BOLTON ON L7E3H6	NNE/32.0	3.89	46
6	DTNK	YASHRAJ INC	14445 HWY 50 BOLTON ON L7E 3H6	NNE/32.0	3.89	46
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	SPL		by 14445 Regional Rd 50, Bolton Caledon ON	NNE/32.0	3.89	48
6	INC	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	48
6	SPL	Facility Maintenance & Construction Inc.	14445 Regional Rd. 50 Caledon ON NA	NNE/32.0	3.89	49
6	GEN	Petro V Plus	14445 Regional Rd 50 Bolton ON L7E3H6	NNE/32.0	3.89	50
6	INC	PETRO V PLUS LTD O/A ESSO	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA ON	NNE/32.0	3.89	50
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	51
7	SPL		14475 Highway 50 Caledon ON	N/35.6	5.61	51

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	INC		14475 HIGHWAY 50, CALEDON ON	N/35.6	5.61	52
8	RSC	PAPERTIOUS INVESTMENTS INC.	No Municipal Address Caledon ON	S/35.7	1.22	53
9	GEN	North Hill Animal Hospital	14182 Hwy 50 N. Bolton ON	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Hwy 50 N. Bolton ON L7E 5R8	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	ESE/39.0	2.61	55
10	SPL	Enbridge Energy Distribution Inc.	151 Taylorwood Ave, Bolton Halton Hills ON	E/49.1	4.58	55
10	PINC	PIPELINE HIT 1/2"	151 TAYLORWOOD AVE,,BOLTON,ON, L7E 1S8,CA ON	E/49.1	4.58	56
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	56
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	58

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	58
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	59
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	59
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	60
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	61
12	CA	WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	ESE/81.3	4.34	61
12	CA	WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	ESE/81.3	4.34	62
13	PINC		13 Foxbury Place, Caledon ON	E/89.3	-2.37	62
13	PINC	PIPELINE HIT 0.5"	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	E/89.3	-2.37	62
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	63
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	63
14	GEN	Grant Thornton	14124 Regional Road #50 Bolton ON	ESE/117.8	2.61	64
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	64

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	INC		7 Rotarian Way, Caledon ON	ESE/129.6	2.56	64
16	PES	CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	SE/137.9	2.44	65
17	GEN	Progreen Demolition Ltd.	14328 Hwy 50 Bolton ON	SE/161.0	0.55	65
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	66
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	66
18	HINC		14118 Hwy 50 BOLTON ON	SE/182.2	1.28	67
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	67
19	SCT	THE NEEDLEWORKS	8 TAYLORWOOD AVE BOLTON ON L7E 1J2	E/188.7	0.83	67
20	SPL		22-80 Goodfellow Cres., Bolton Caledon ON	E/199.5	0.61	68
21	DTNK	RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	E/209.0	-0.39	68
21	DTNK	RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	E/209.0	-0.39	69
22	SPL	The Regional Municipality of Peel	16 Ewart St Caledon ON L7E 2T3	E/218.6	-0.39	70

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	81.3	12
WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	81.3	12

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Oct 2023 has found that there are 9 DTNK site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON L7E 5R8	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3

Site	Address	Distance (m)	Map Key
YASHRAJ INC	14445 HWY 50 BOLTON ON L7E 3H6	32.0	6
RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	209.0	21
RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	209.0	21

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Oct 2023 has found that there are 5 EXP site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3

FST - Fuel Storage Tank

A search of the FST database, dated Oct 2023 has found that there are 5 FST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 32 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PEEL, REGION OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2

Site	Address	Distance (m)	Map Key
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
PEEL, REGIONAL MUNICIPALITY OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	14.1	2
Petro V Plus	14445 Regional Rd 50 Bolton ON L7E3H6	32.0	6

Site	Address	Distance (m)	Map Key
North Hill Animal Hospital	14182 Hwy 50 N. Bolton ON	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Hwy 50 N. Bolton ON L7E 5R8	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	39.0	9
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11

Site	Address	Distance (m)	Map Key
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
Grant Thornton	14124 Regional Road #50 Bolton ON	117.8	14
Progreen Demolition Ltd.	14328 Hwy 50 Bolton ON	161.0	17

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	14118 Hwy 50 BOLTON ON	182.2	18

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated 31 Oct, 2023 has found that there are 4 INC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA ON	32.0	6
	14475 HIGHWAY 50, CALEDON ON	35.6	7

Site	Address	Distance (m)	Map Key
	7 Rotarian Way, Caledon ON	129.6	15

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Sep 30, 2024 has found that there are 9 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	14220 Hwy 50 HWY CALEDON ON L7E 3E2	14.1	2
CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	14.1	2
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	137.9	16
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18

Site	Address	Distance (m)	Map Key
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 4 PINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PIPELINE HIT 4"	EMIL KOLB PKWY & KING ST,,BOLTON, ON,,CA ON	0.0	1
PIPELINE HIT 1/2"	151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8,CA ON	49.1	10
PIPELINE HIT 0.5"	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	89.3	13
	13 Foxbury Place, Caledon ON	89.3	13

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Oct 2024 has found that there are 1 RSC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PAPERTIOUS INVESTMENTS INC.	No Municipal Address Caledon ON	35.7	8

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Apr 30, 2024 has found that there are 1 RST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
S & F SERVICE	14445 HWY 50 BOLTON ON L7E3H6	32.0	6

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 6 SCT site(s) within approximately 0.25 kilometers of the project property.

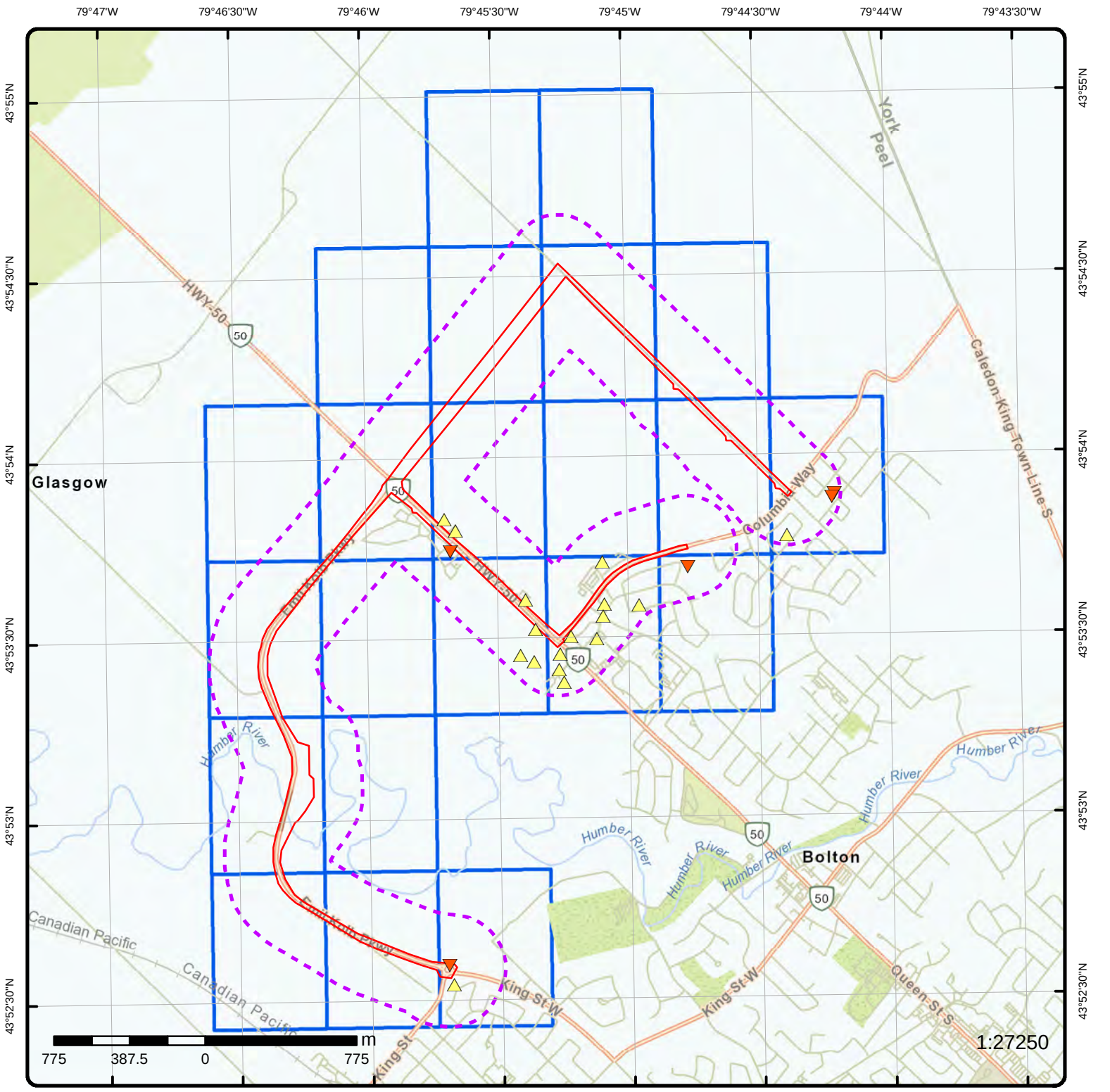
Site	Address	Distance (m)	Map Key
Caledon Sand & Gravel Inc.	14442 Regional Road 50 Bolton ON L7E 3E2	26.9	5
James Dick Construction Ltd.	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
Hamilton Ready Mix Ltd.	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
James Dick Construction Ltd.	14442 Regional Road 50 Bolton ON L7E 3E2	26.9	5
James Dick Concrete Aggregates	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
THE NEEDLEWORKS	8 TAYLORWOOD AVE BOLTON ON L7E 1J2	188.7	19

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2024 has found that there are 10 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Enbridge Gas Distribution Inc.	Emil Colb Parkway @ King Street Caledon ON	0.0	1

Site	Address	Distance (m)	Map Key
	60 Alderbrook Place, Bolton Caledon ON	21.3	4
CALEDON HYDRO	14442 HWY 50 (JAMES DICK CONSTRUCTION) TRANSFORMER/CAPACITOR CALEDON TOWN ON	26.9	5
James Dick Construction Limited	14442 Hwy 50 Caledon ON	26.9	5
	by 14445 Regional Rd 50, Bolton Caledon ON	32.0	6
Facility Maintenance & Construction Inc.	14445 Regional Rd. 50 Caledon ON NA	32.0	6
	14475 Highway 50 Caledon ON	35.6	7
Enbridge Energy Distribution Inc.	151 Taylorwood Ave, Bolton Halton Hills ON	49.1	10
	22-80 Goodfellow Cres., Bolton Caledon ON	199.5	20
The Regional Municipality of Peel	16 Ewart St Caledon ON L7E 2T3	218.6	22



Map: 0.25 Kilometer Radius

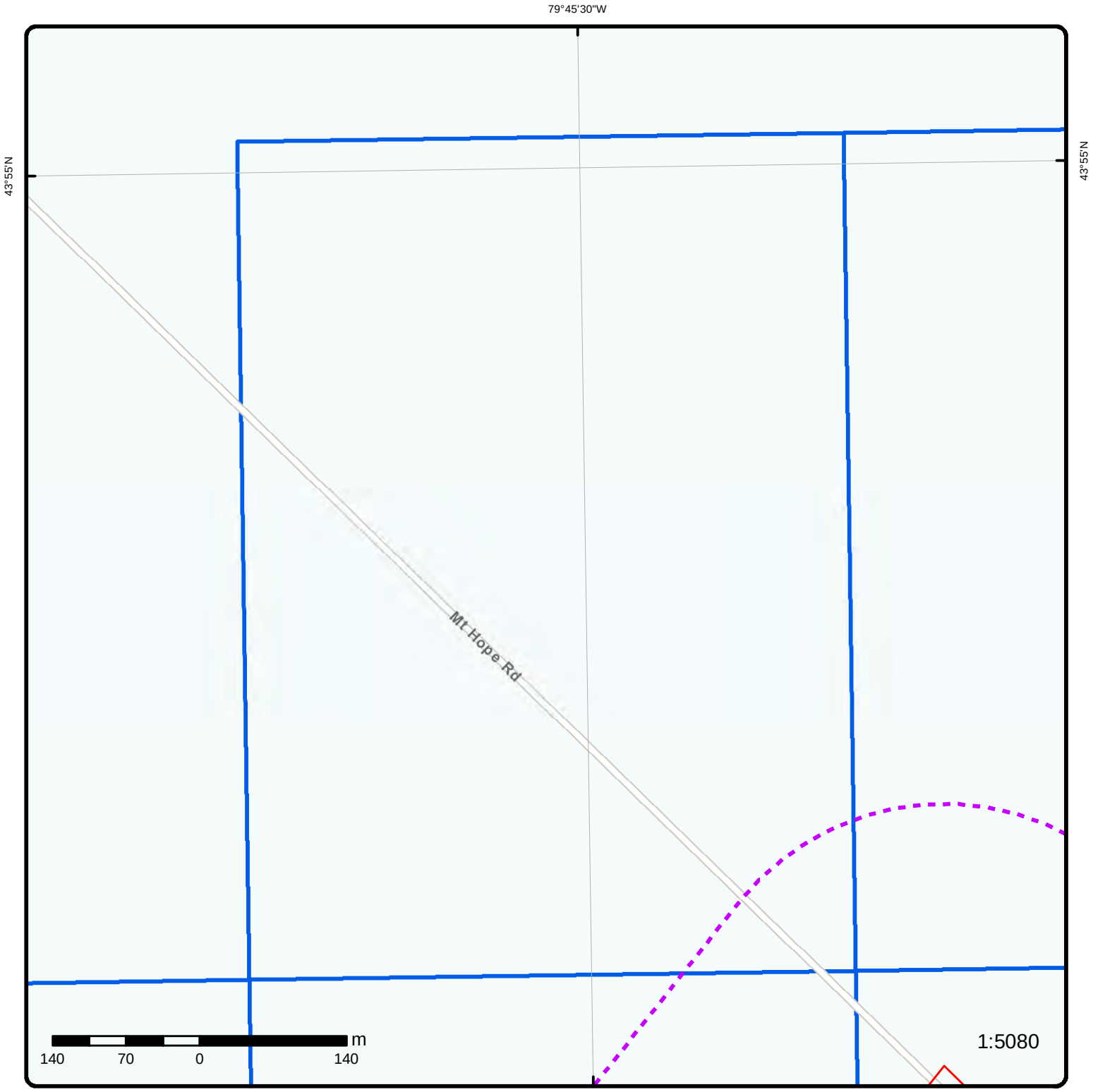
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 1

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

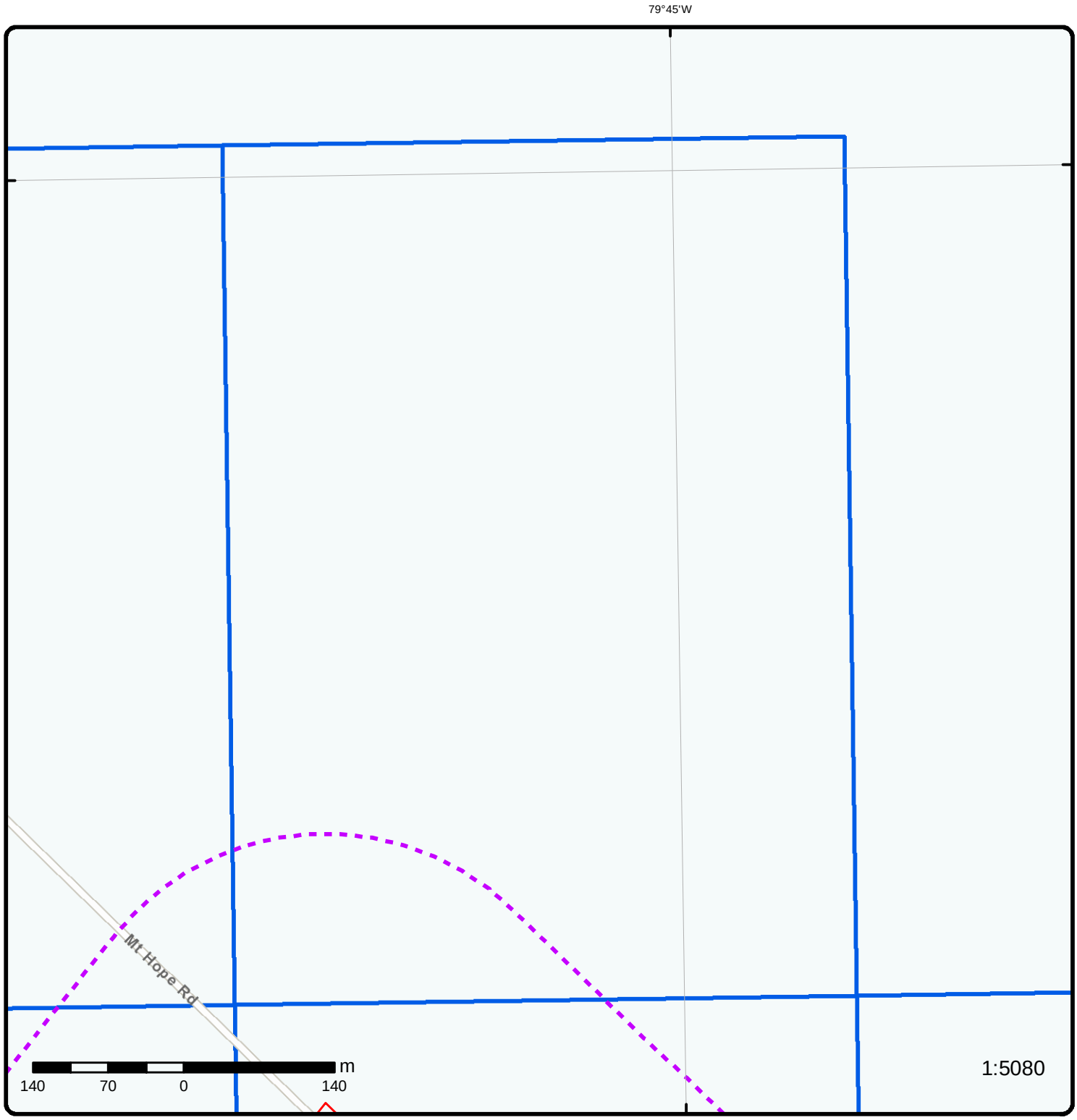
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Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 2

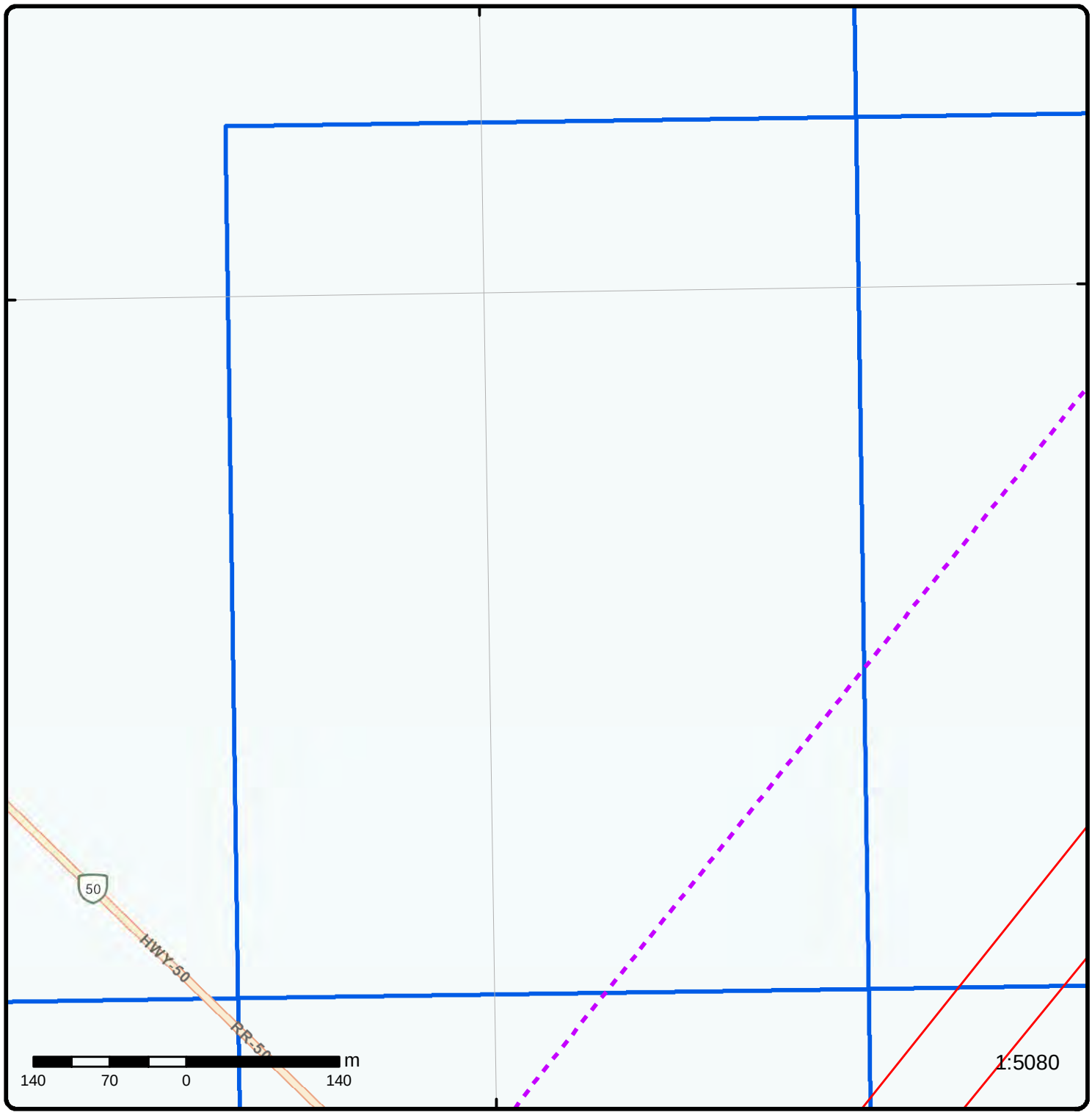
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 3

Order Number: 24112100344

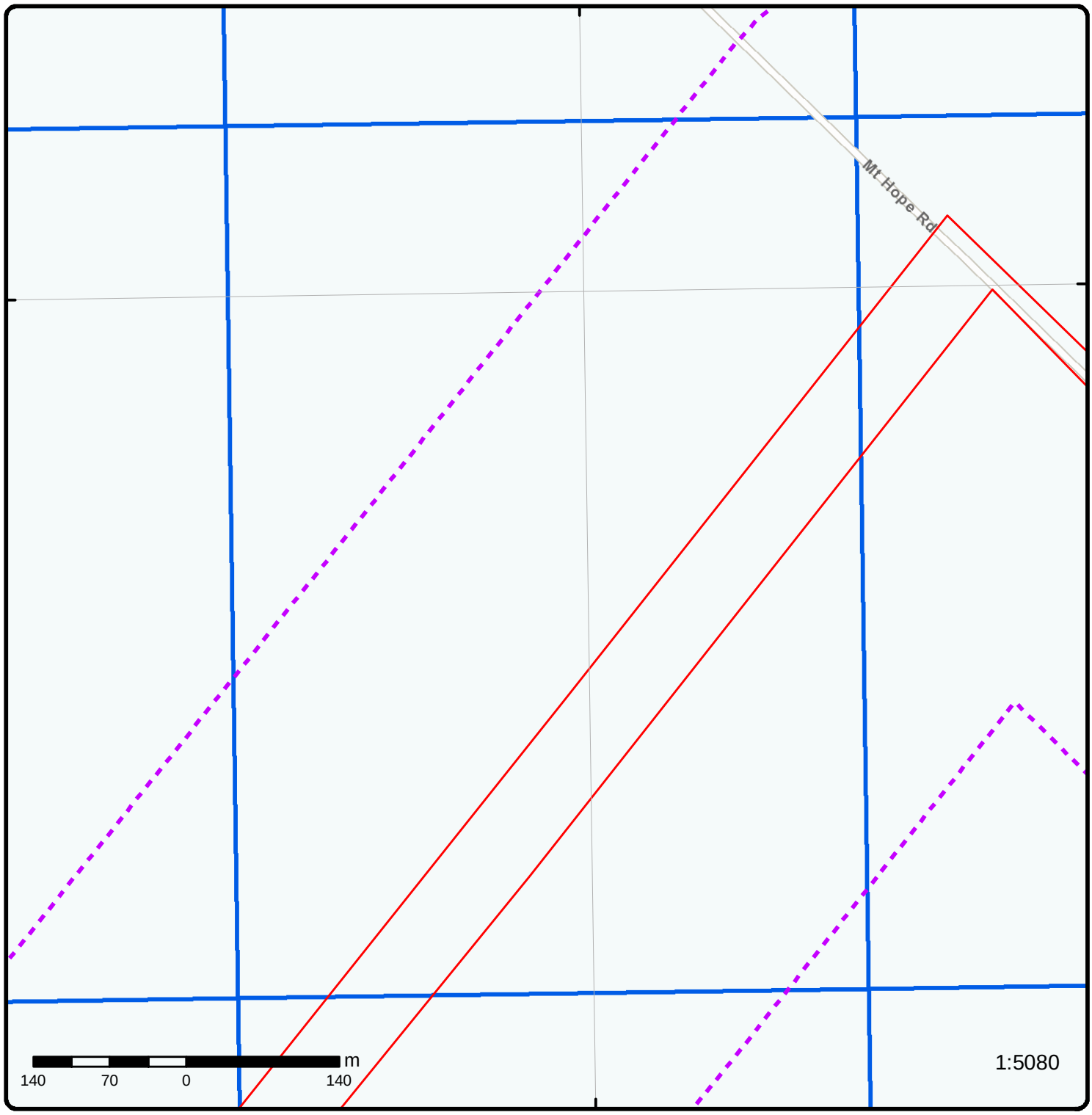
Address: n/a, Caledon, ON

ERIS

- Project Property
- Buffer Outline
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- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
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- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 4

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

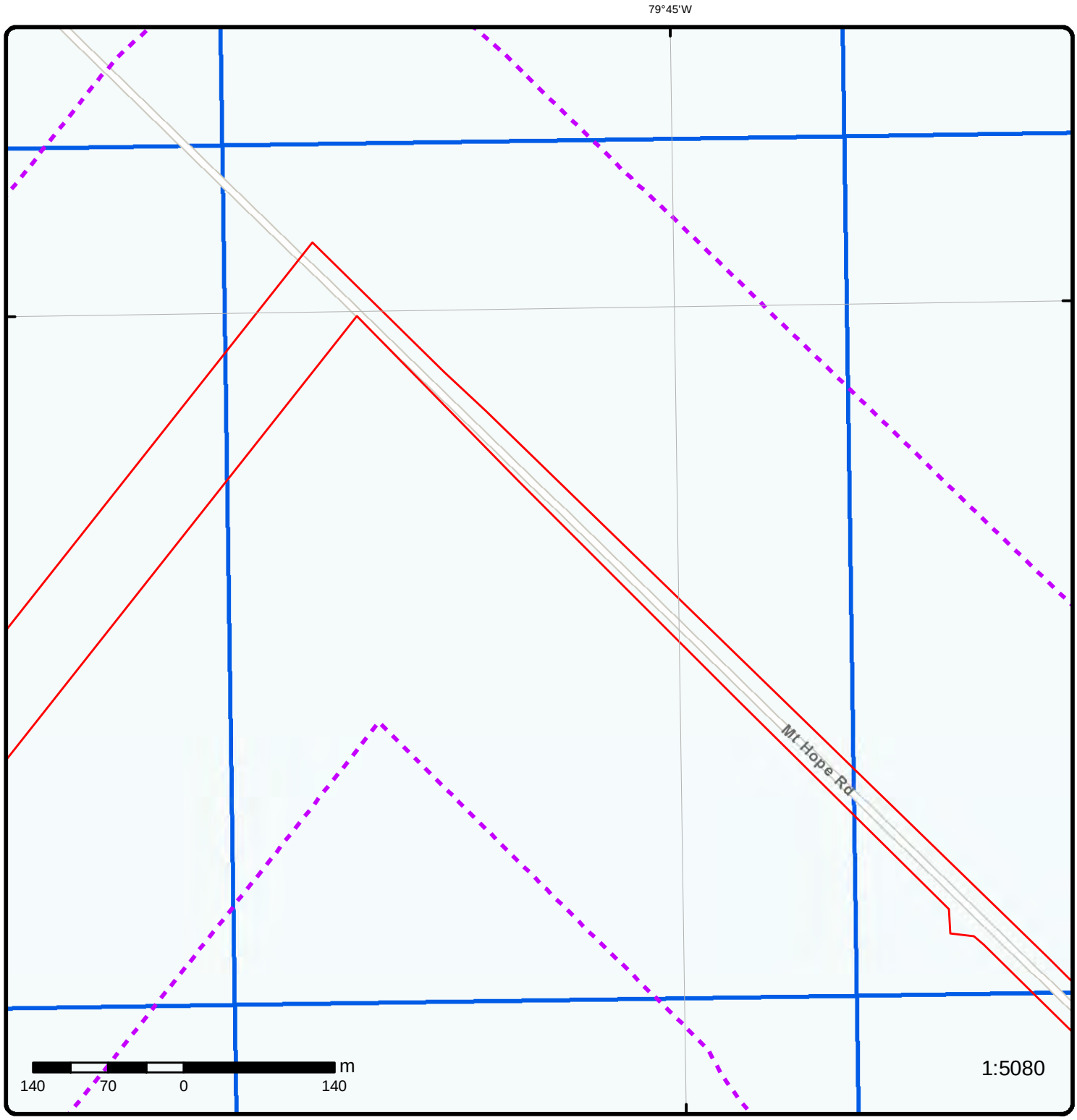
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Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 5

Order Number: 24112100344

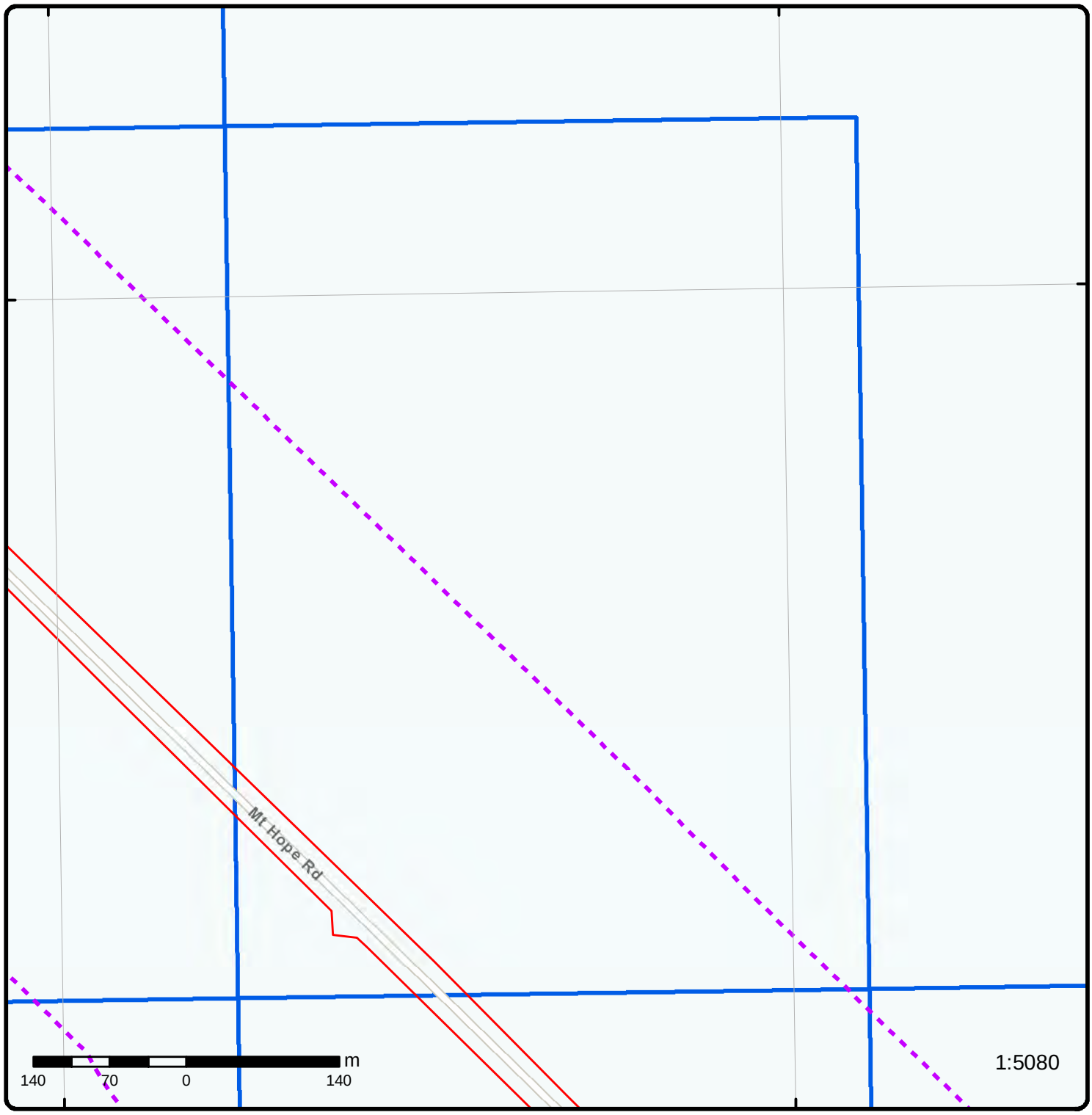
Address: n/a, Caledon, ON

ERIS

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

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Grid: 6

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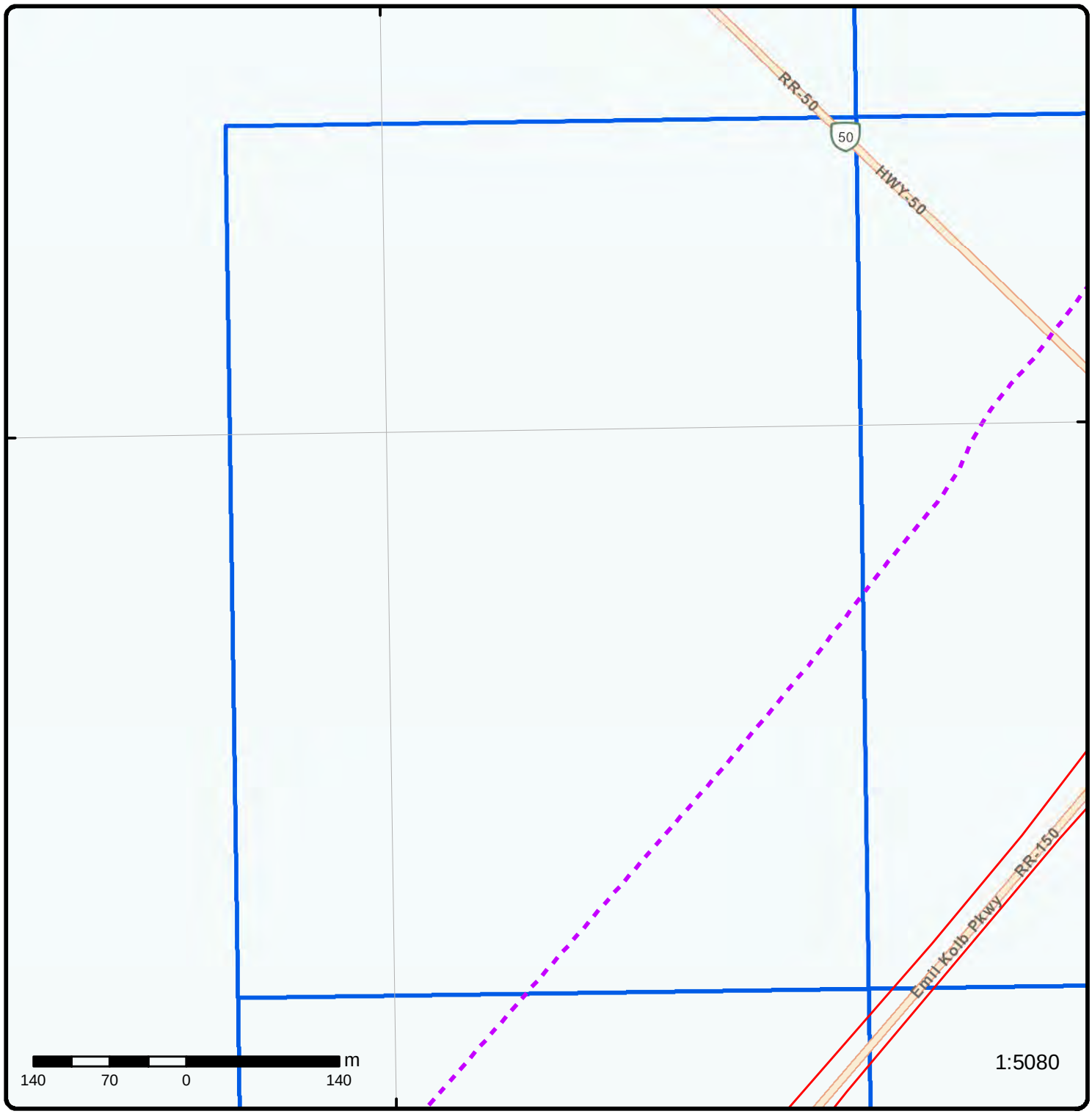
Address: n/a, Caledon, ON

ERIS

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

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Grid: 7

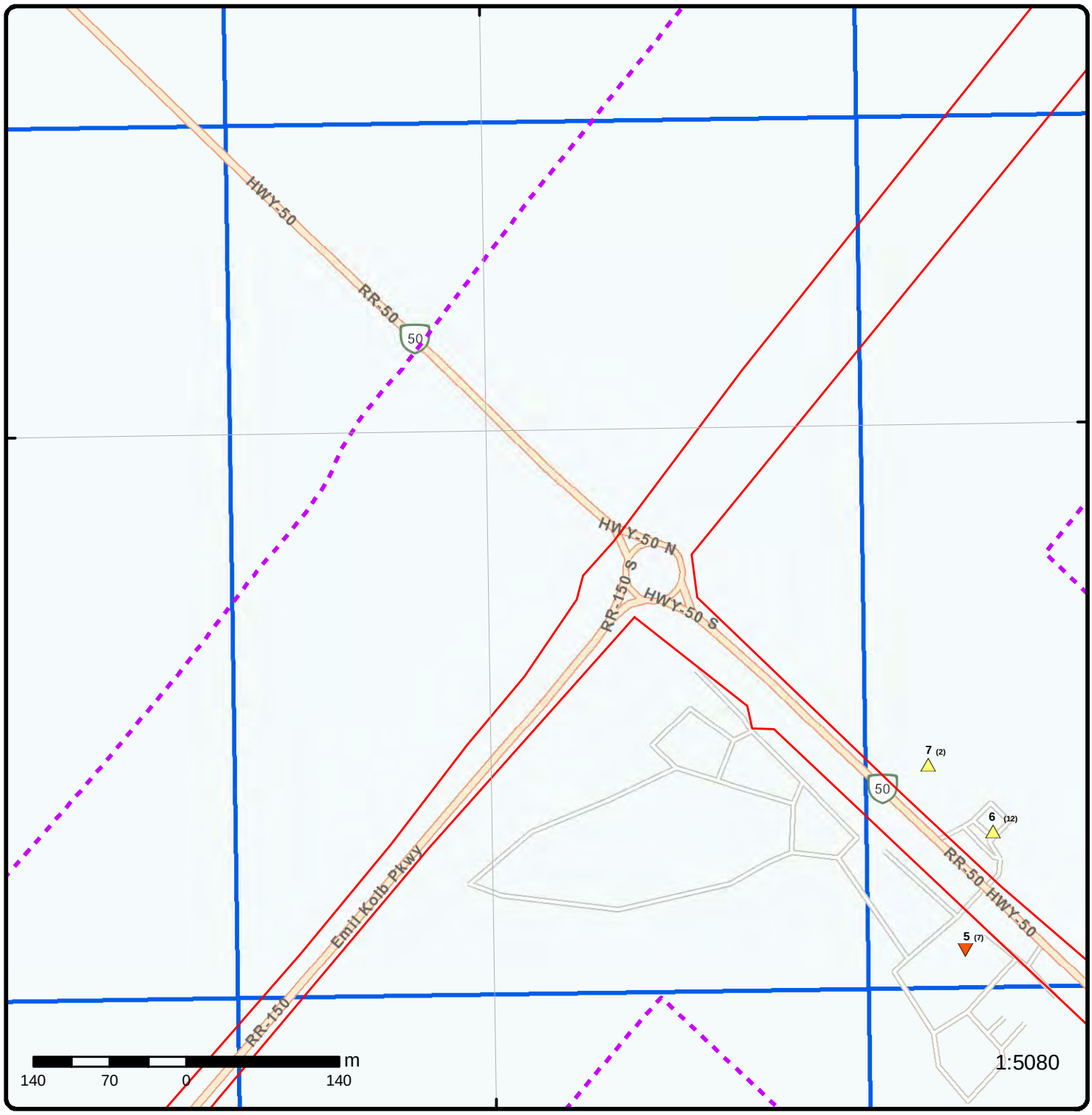
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Address: n/a, Caledon, ON

- Project Property
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- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
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- Local Road
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- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 8

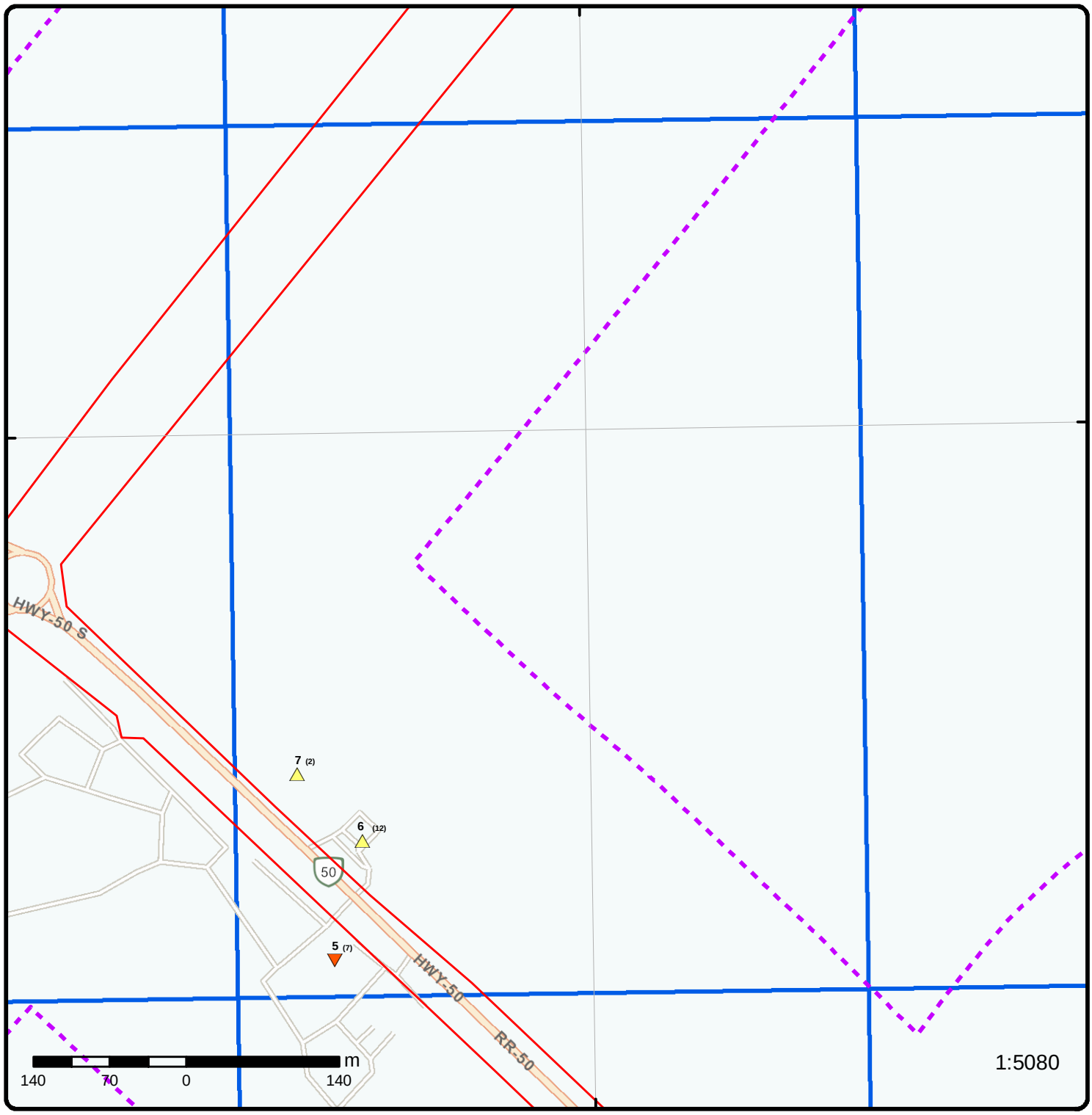
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- Project Property
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- Eris Sites with Same Elevation
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- Freeways; Highways
- Traffic Circle; Ramp
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- Hospital
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- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 9

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

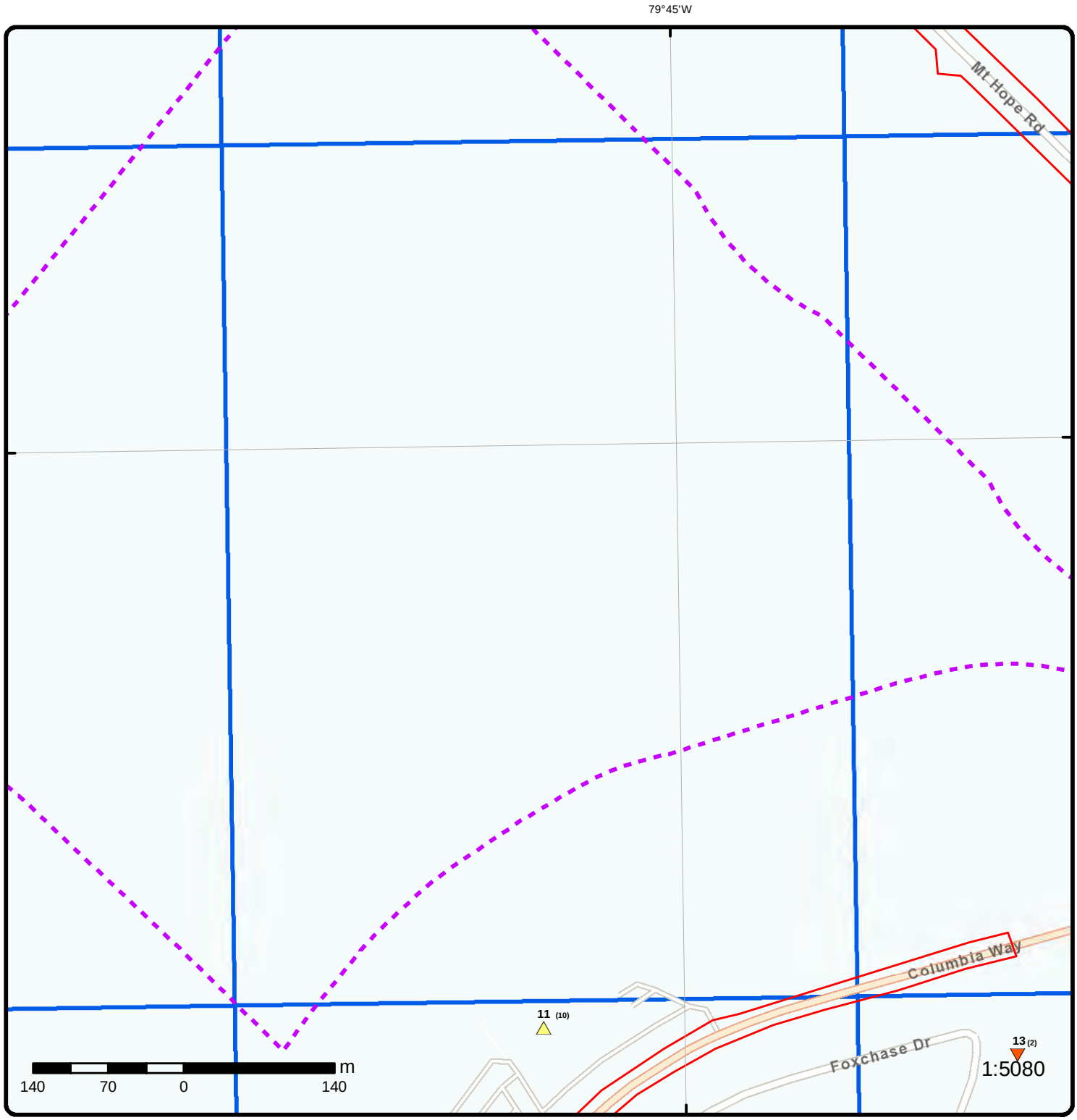
Freeways; Highways
Traffic Circle; Ramp
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Local Road
Service Road; Traffic Circle; Ramp
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Beach
Airport
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Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 10

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

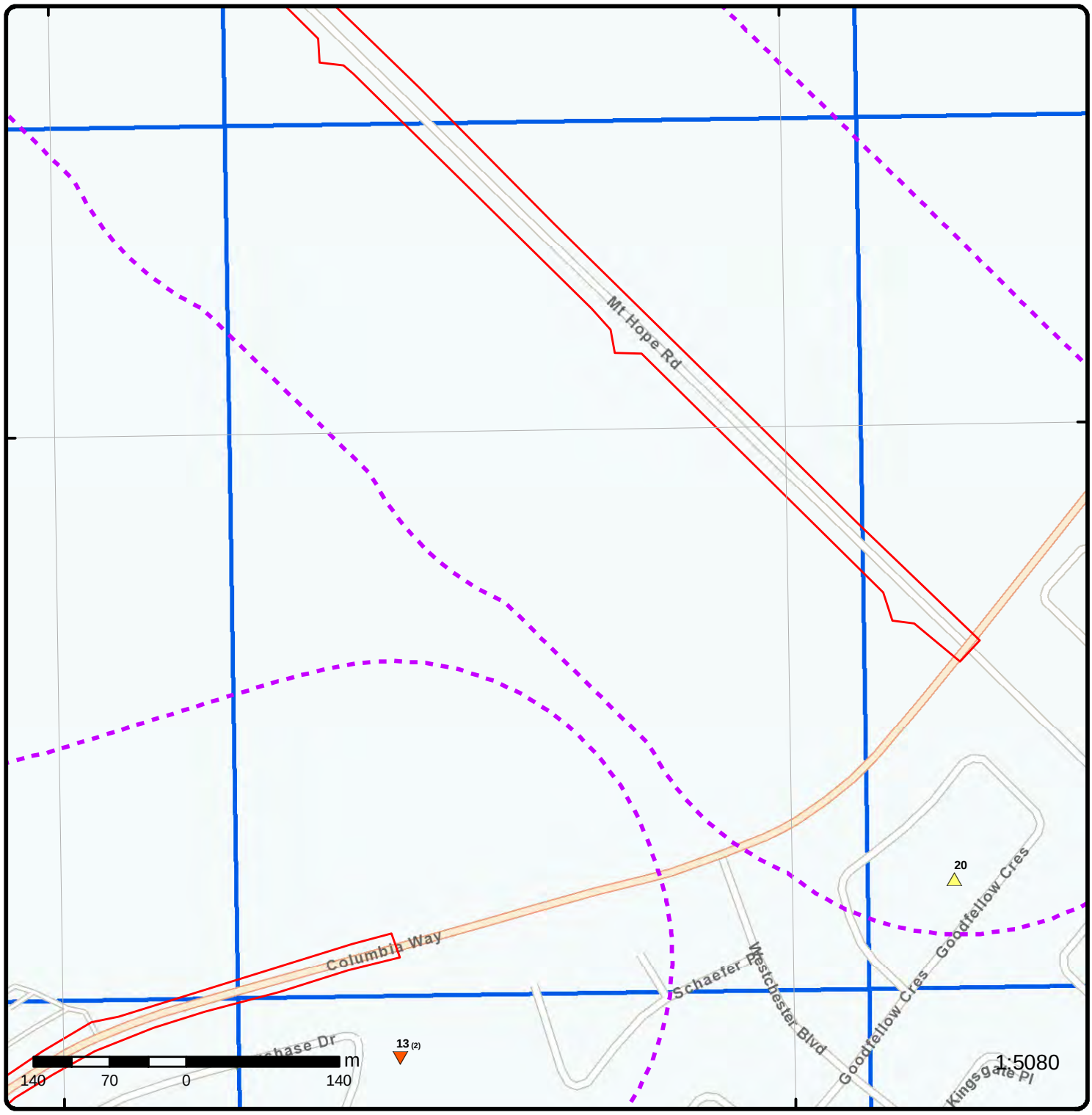
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Service Road; Traffic Circle; Ramp
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Beach
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Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 11

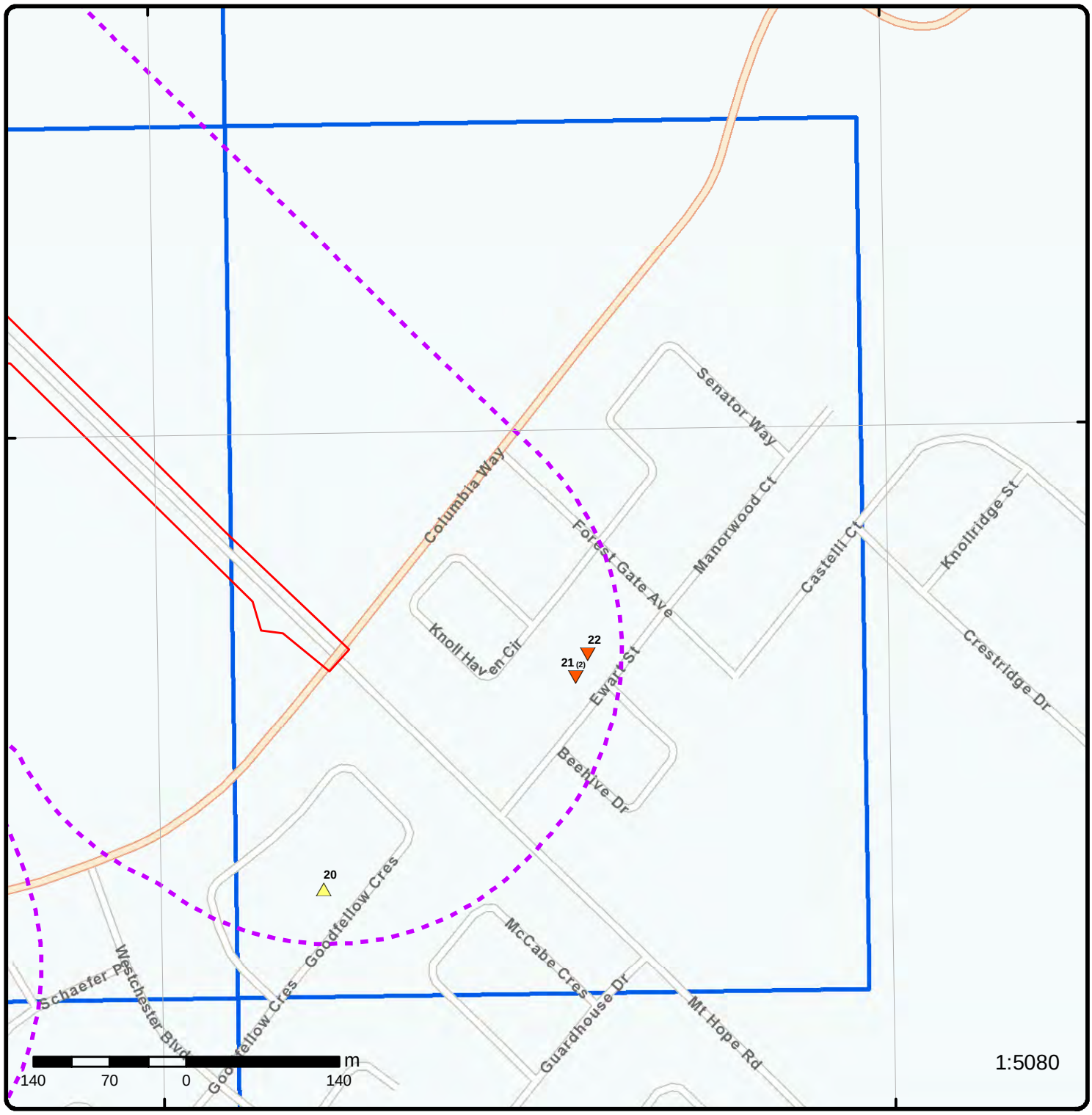
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Address: n/a, Caledon, ON

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
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- Park (City/County)

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Grid: 12

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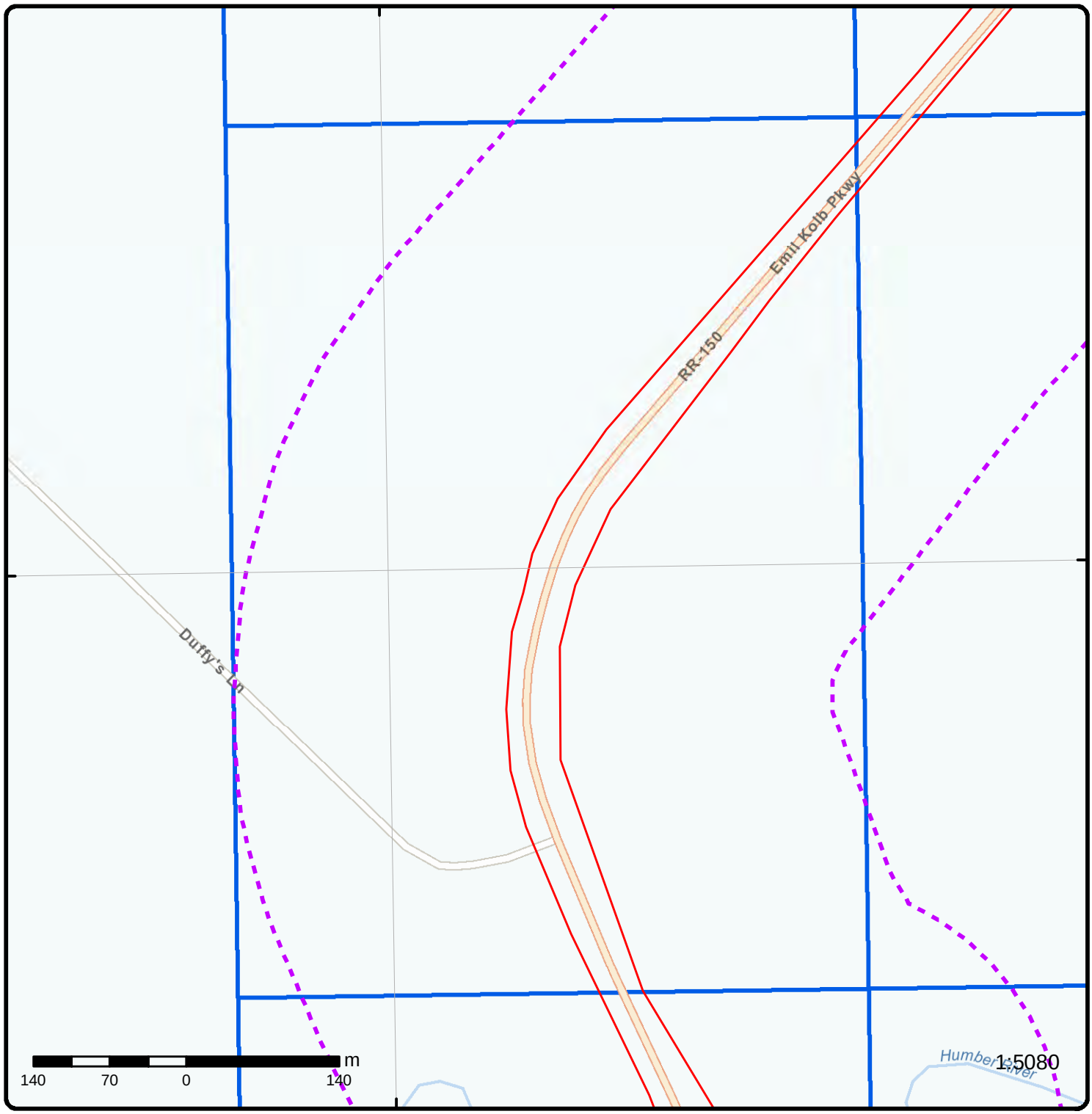
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ERIS

- Project Property
- Buffer Outline
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- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
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- University/College
- Cemetery; Golf Course
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- Park (City/County)

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Grid: 13

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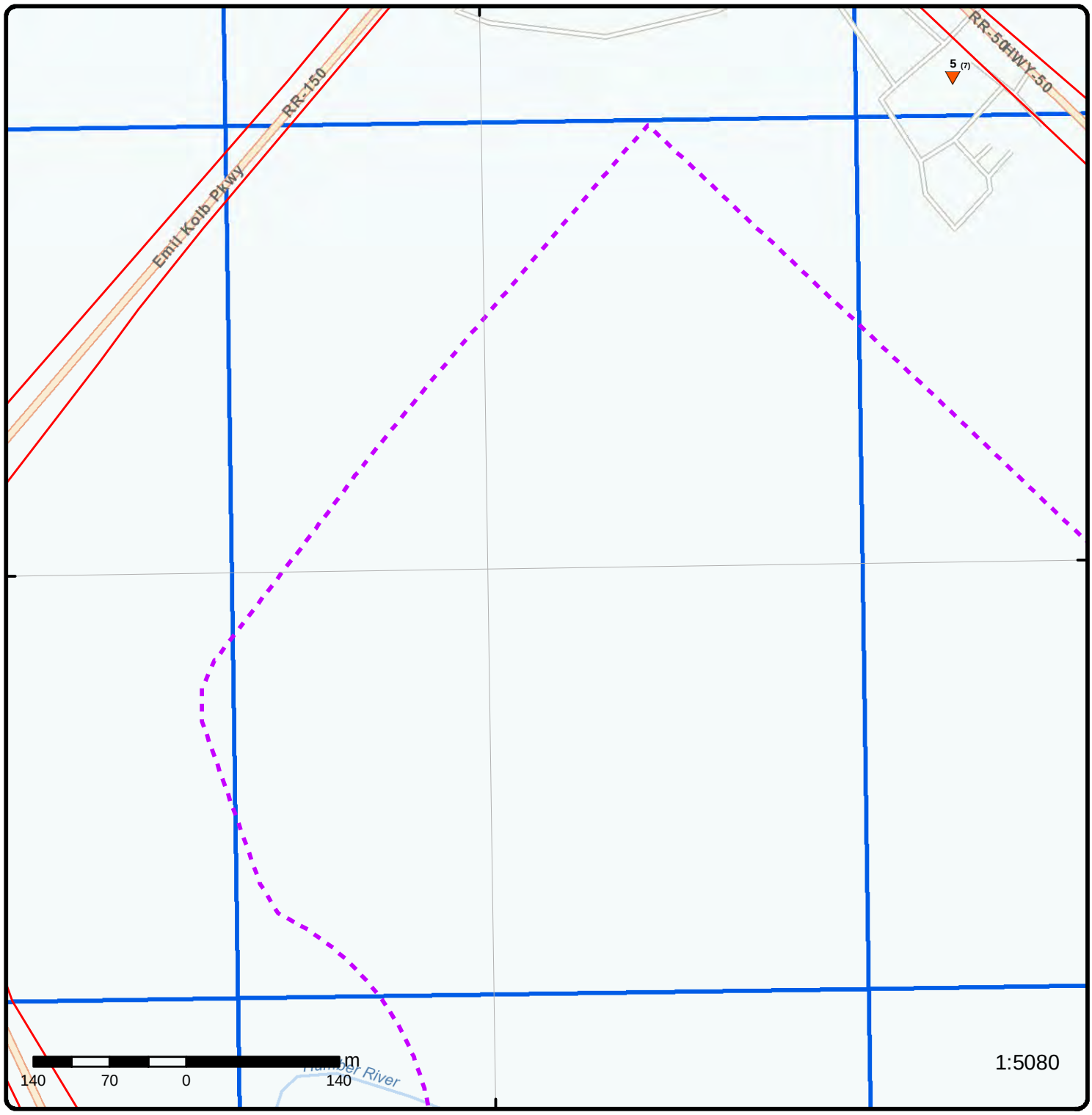
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ERIS

- Project Property
- Buffer Outline
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- Eris Sites with Lower Elevation
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- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
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- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 14

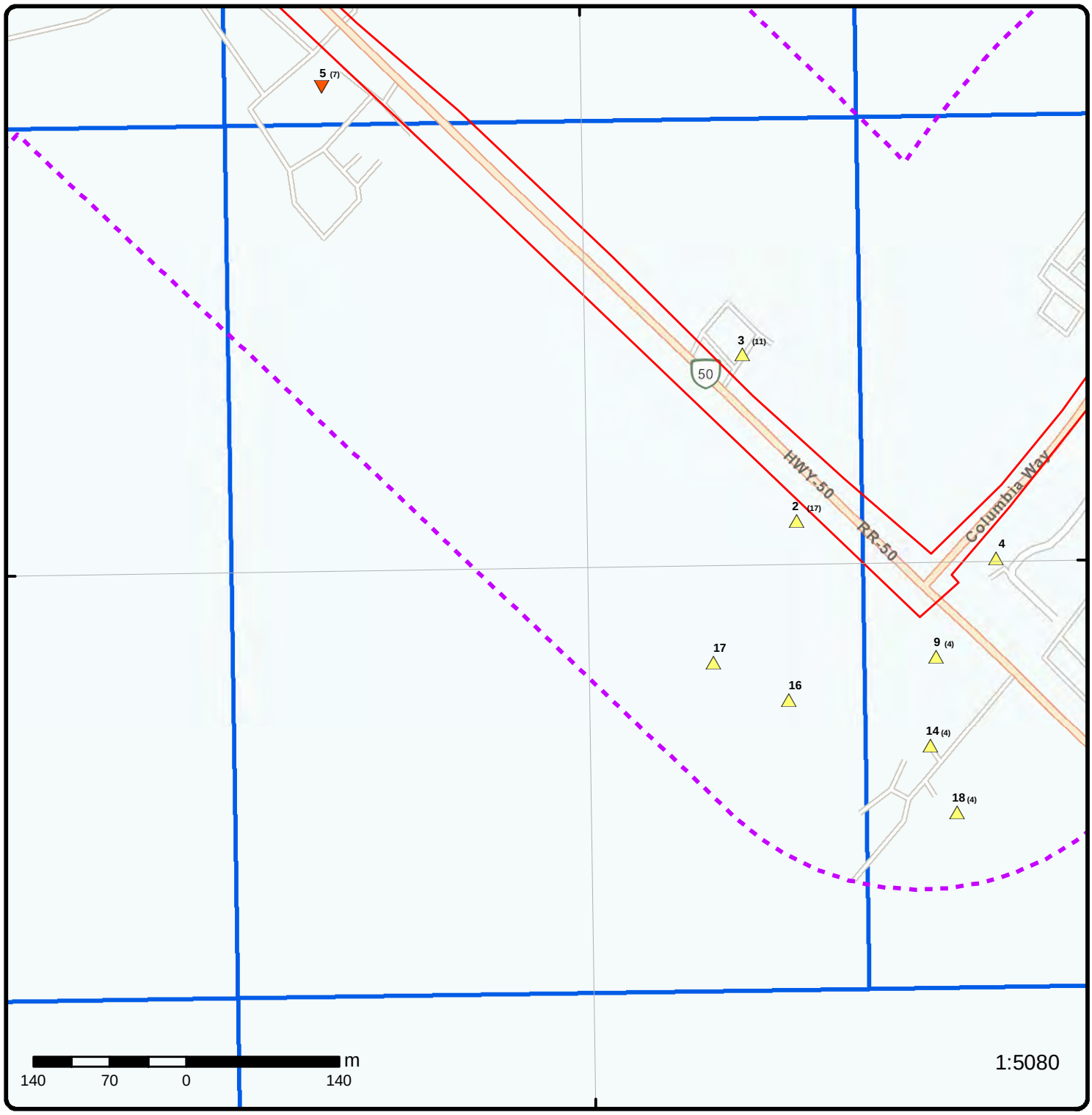
Order Number: 24112100344

Address: n/a, Caledon, ON

- Project Property
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- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
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- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 15

Order Number: 24112100344

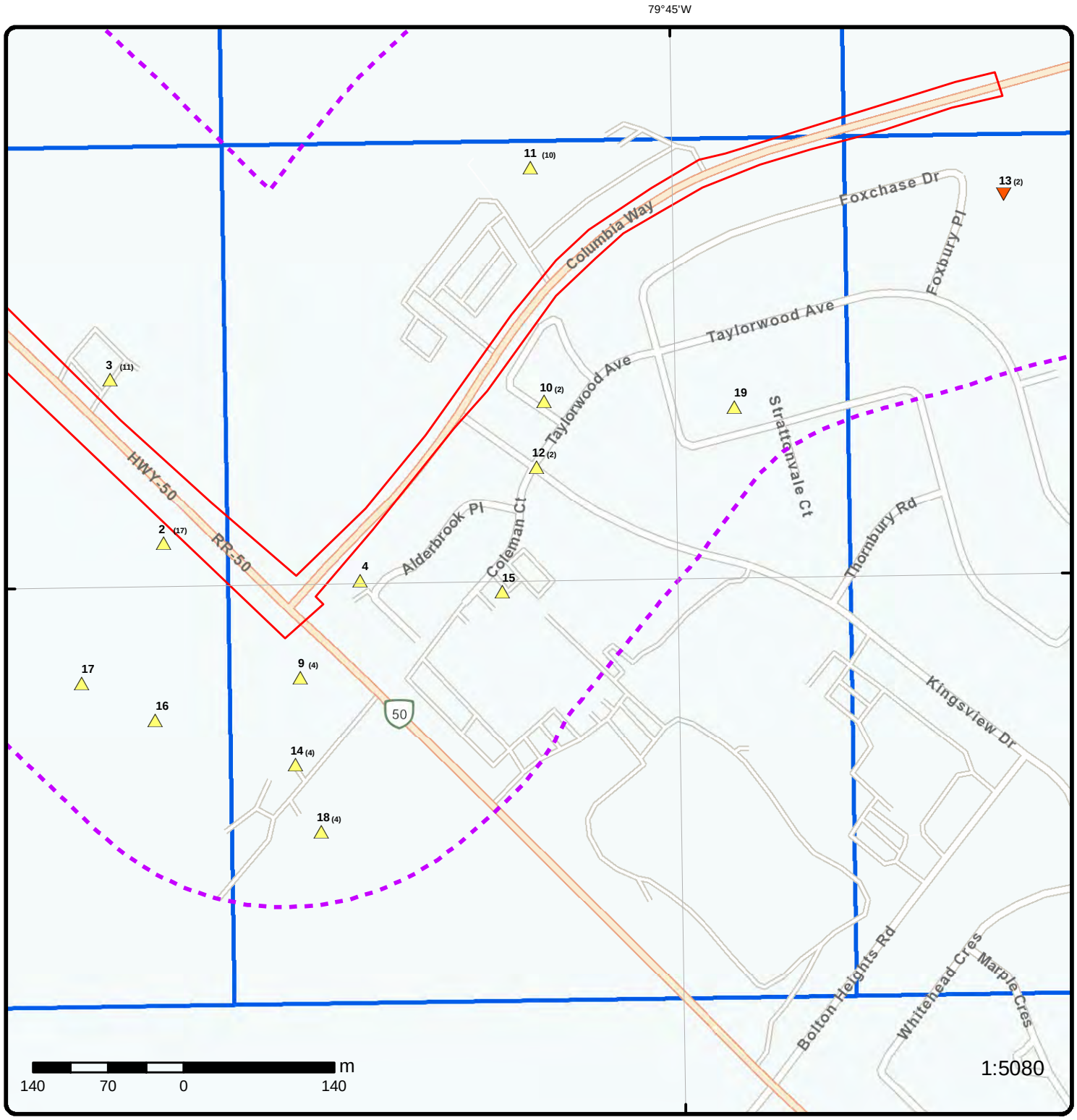
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ERIS

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- Eris Sites with Lower Elevation
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- Freeways; Highways
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- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 16

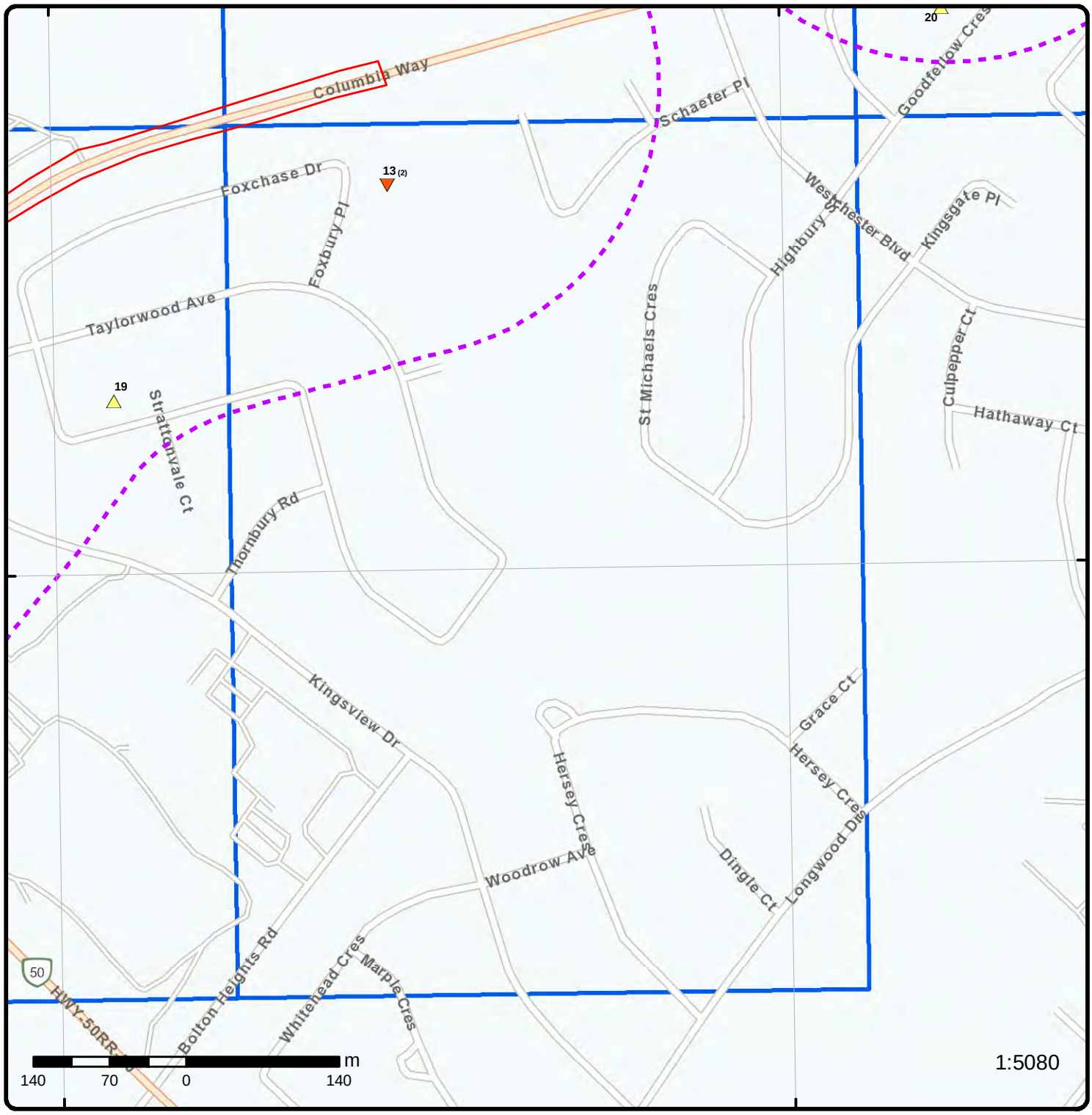
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 17

Order Number: 24112100344

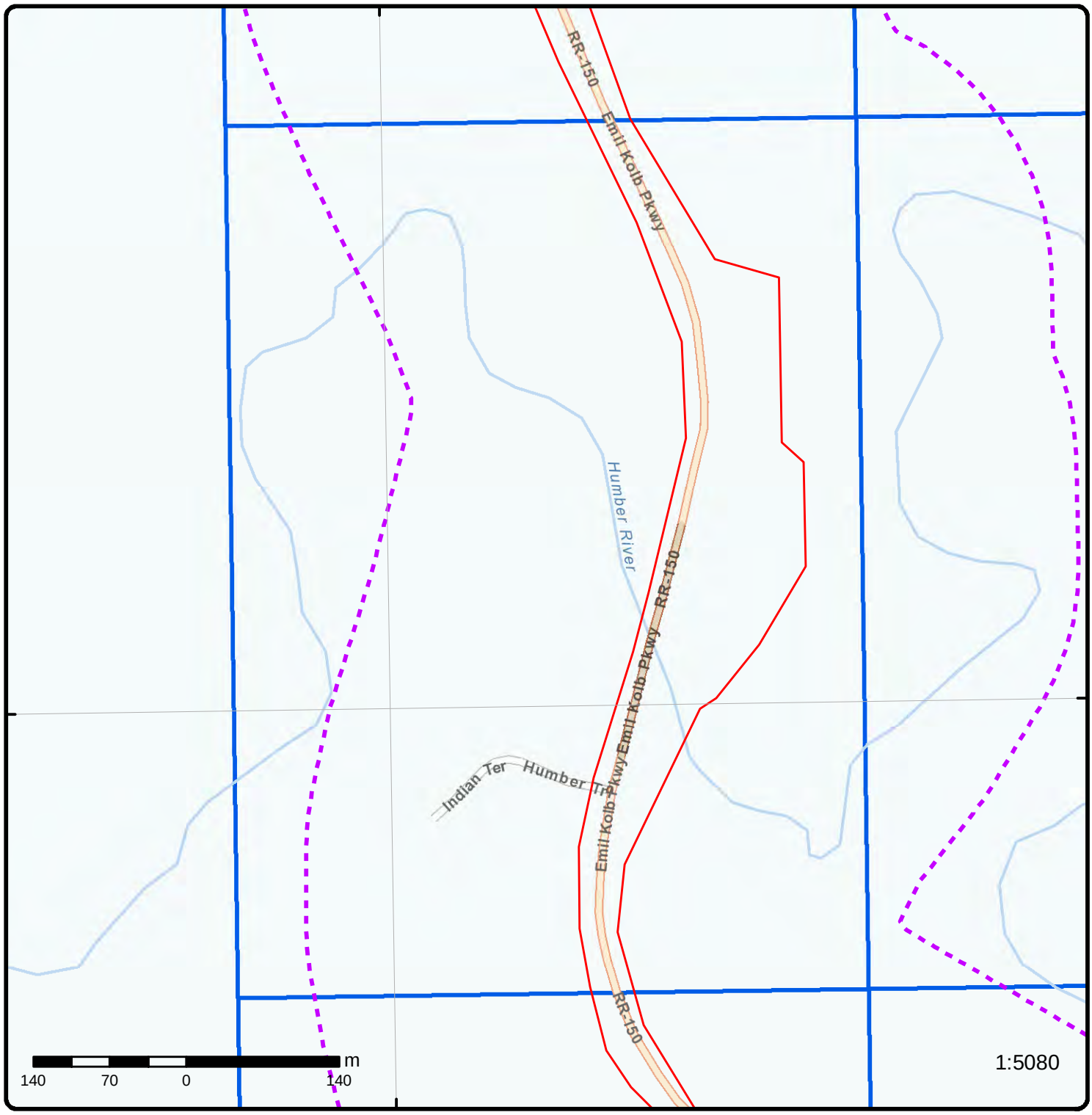
Address: n/a, Caledon, ON

ERIS

- Project Property
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- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
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- Freeways; Highways
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- Native Reservation
- Hospital
- Shopping & Sports Area
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- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 18

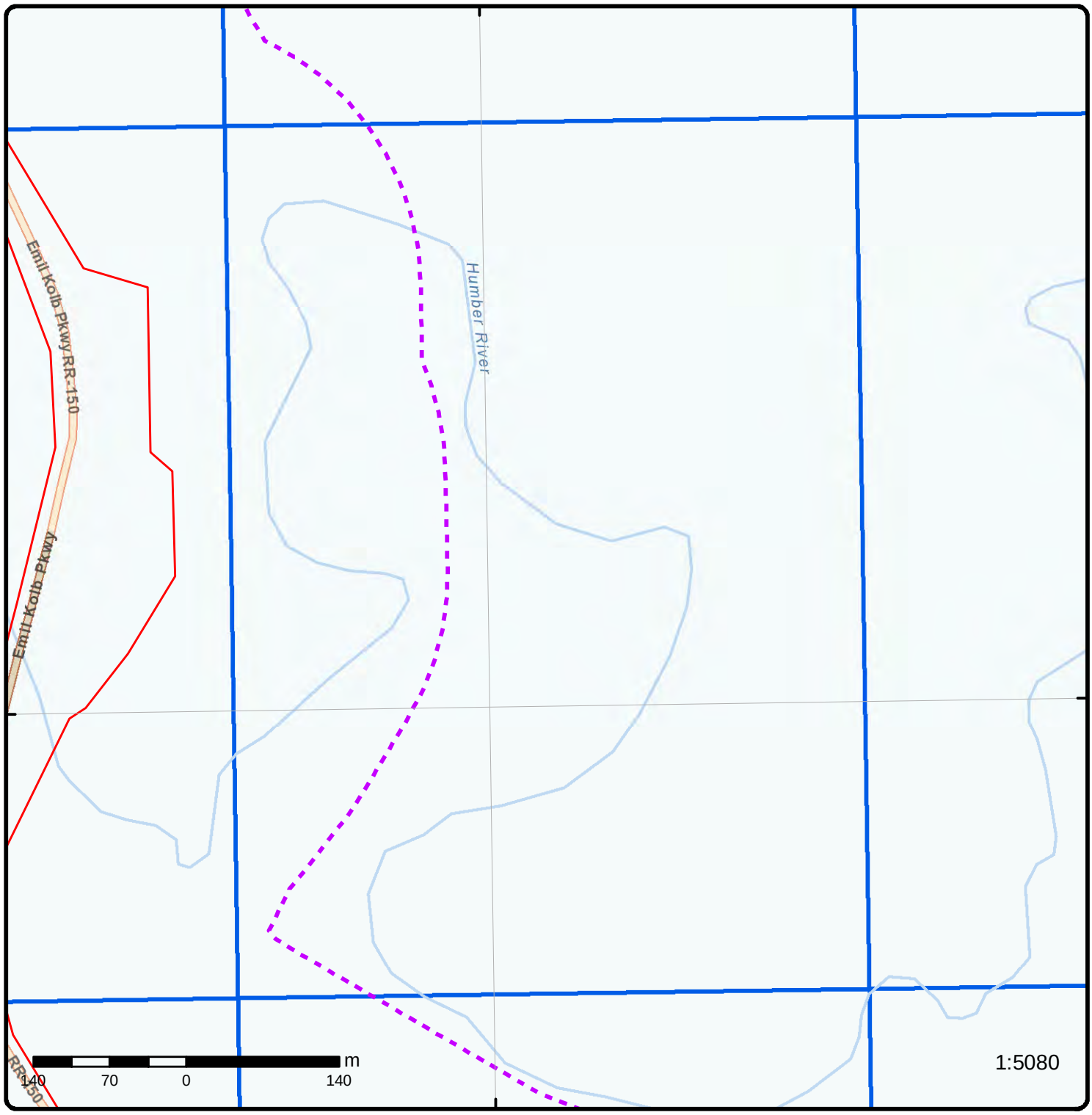
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Address: n/a, Caledon, ON

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 19

Order Number: 24112100344

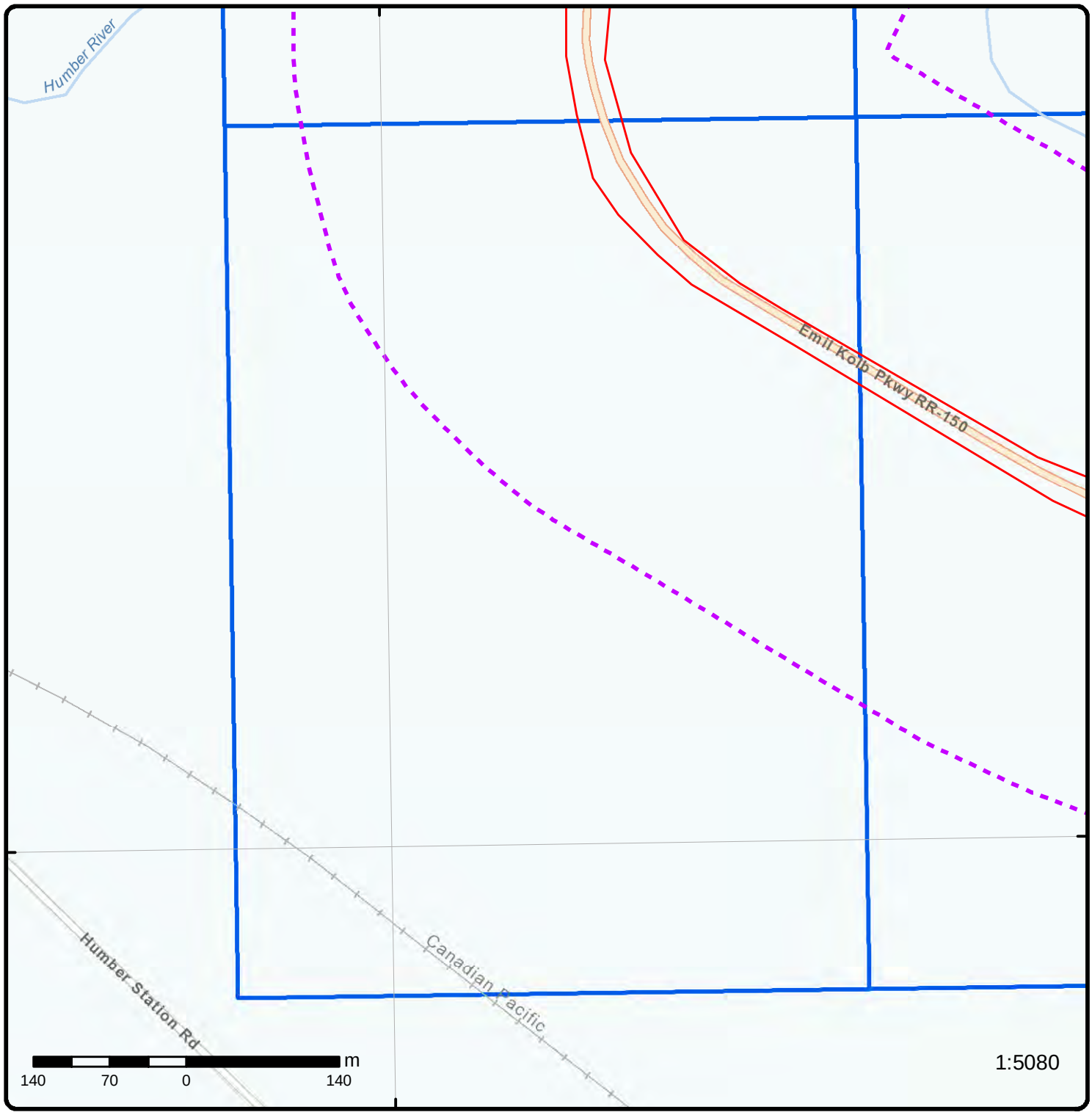
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 20

Order Number: 24112100344

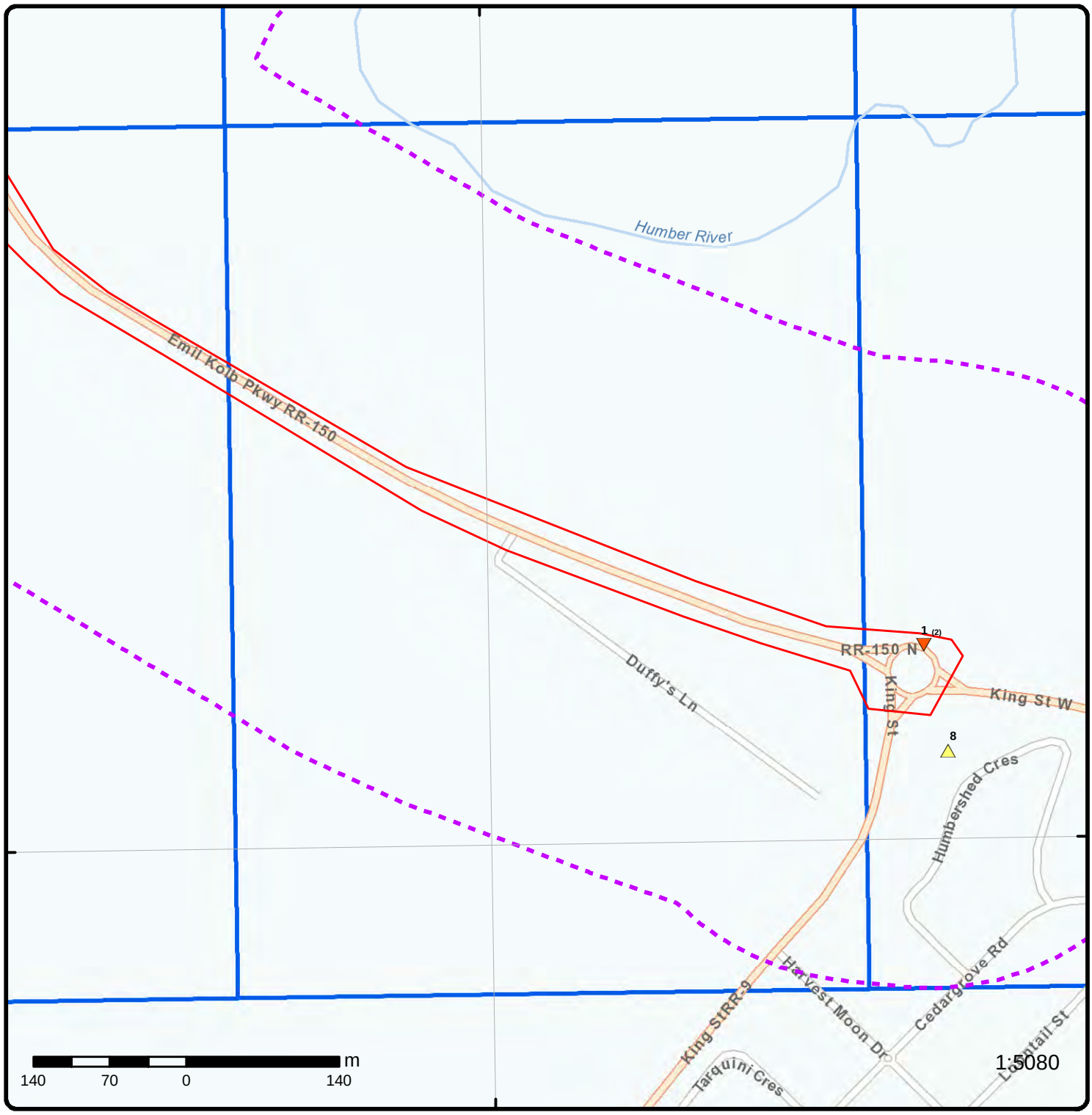
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 21

Order Number: 24112100344

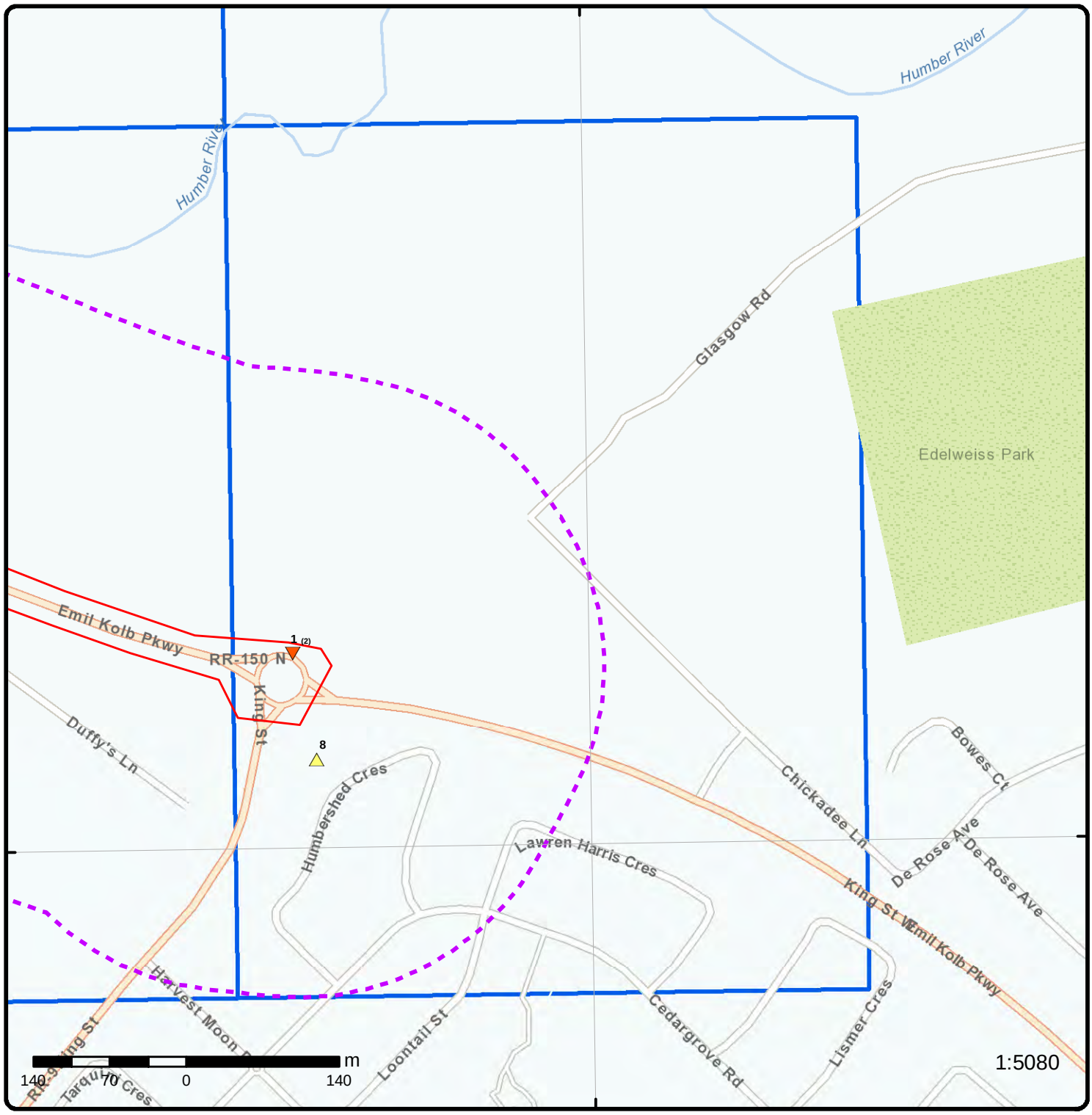
Address: n/a, Caledon, ON

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

Source: © 2021 ESRI StreetMap Premium.

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79°45'30"W



43°52'30"N

43°52'30"N

Grid: 22

Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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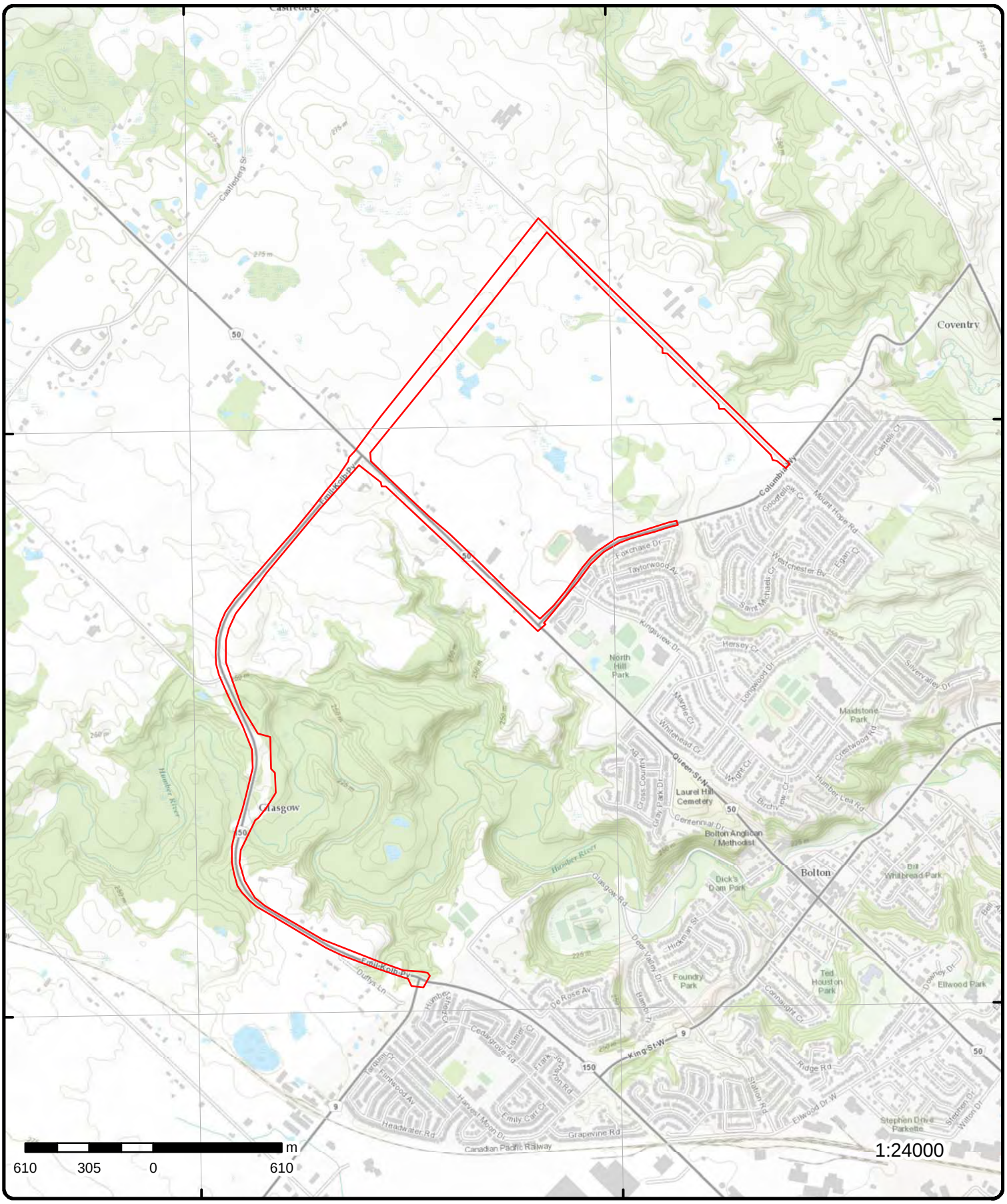
Aerial **Year: 2022**

Address: n/a, Caledon, ON

Source: ESRI World Imagery

Order Number: 24112100344

© ERIS Information Limited Partnership



Topographic Map

Address: n/a, ON

Source: ESRI World Topographic Map

Order Number: 24112100344

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 2	S/0.0	248.9 / -11.36	Enbridge Gas Distribution Inc. Emil Colb Parkway @ King Street Caledon ON	SPL

Ref No: 4331-AR4W27
Year:
Incident Dt: 9/11/2017
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/11/2017
Dt Document Closed:
Site No: NA
MOE Response: No
Site County/District: Regional Municipality of Peel
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: New debelopment site <UNOFFICIAL>
Site Address: Emil Colb Parkway @ King Street
Site Region: Central
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill: Leak/Break
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 1 other - see incident description
Contaminant Qty 1: 1
Contaminant Unit: other - see incident description
Client Type: Corporation
Source Type: Valve/Fitting/Piping
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1: 1075
Receiving Medium: Air
Incident Reason: Operator/Human Error
Incident Summary: TSSA FSB: 4" PL Strike, made safe
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Miscellaneous Communal
SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: Enbridge Gas Distribution Inc.
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 2	S/0.0	248.9 / -11.36	PIPELINE HIT 4" EMIL KOLB PKWY & KING ST,,BOLTON,ON,,CA ON	PINC

Incident Id:
Incident No: 2152590
Incident Reported Dt: 9/12/2017
Type: FS-Pipeline Incident
Status Code:
Tank Status: Closed by Program
Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt:
Depth:
Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:
Attribute Category:
Regulator Location:
Method Details:
Customer Acct Name: PIPELINE HIT 4"
Incident Address: EMIL KOLB PKWY & KING ST,,BOLTON,ON,,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 17	ESE/14.1	264.8 / 4.58	PEEL, REGION OF BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	GEN

Generator No: ON0148320
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.
Approval Years: 93,94,95,96,97
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 17	ESE/14.1	264.8 / 4.58	PEEL, REGIONAL MUNICIPALITY OF BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	GEN

Generator No: ON0148320
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.
Approval Years: 98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	3 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	4 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	5 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2010
PO Box No:
Country:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	6 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	7 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	8 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

2	9 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT
Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.21
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Name: LIGHT FUELS

2	10 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT

Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.21
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

---

2 | ***11 of 17*** | ***ESE/14.1*** | ***264.8 / 4.58*** | ***TOWN OF CALEDON***
PUBLIC WORKS YARD 3 14220 HIGHWAY 50
BOLTON ON L7E 3E2 | ***GEN***

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT
Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

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2 | ***12 of 17*** | ***ESE/14.1*** | ***264.8 / 4.58*** | ***TOWN OF CALEDON***
14220 HIGHWAY 50
Caledon ON L7E 3E2 | ***GEN***

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	13 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON 14220 HIGHWAY 50 Caledon ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	14 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON 14220 HIGHWAY 50 Caledon ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

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2 ***15 of 17*** ***ESE/14.1*** ***264.8 / 4.58*** ***TOWN OF CALEDON***
14220 HIGHWAY 50
Caledon ON L7E 3E2 ***GEN***

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221 L
Waste Class Name: LIGHT FUELS

---

2 ***16 of 17*** ***ESE/14.1*** ***264.8 / 4.58*** ***14220 Hwy 50 HWY***
CALEDON ON L7E 3E2 ***PES***

Detail Licence No:
Licence No: L-240-5174126238
Status: Active
Approval Date: April 20, 2022
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 43.89055556
Longitude: -79.75611111
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Halton-Peel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

County:			**SWP Area Name:**	Toronto
Trade Name:				
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2626338			

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2 | **17 of 17** | **ESE/14.1** | **264.8 / 4.58** | **CORPORATION OF THE TOWN OF CALEDON**
14220 Hwy 50 HWY
CALEDON ON L7E 3E2 | **PES**

Detail Licence No:		**Operator Box:**	
Licence No:	L-240-8263435917	**Operator Class:**	
Status:	Active	**Operator No:**	
Approval Date:	July 3, 2024	**Operator Type:**	
Report Source:	PEST-Operator	**Oper Area Code:**	
Licence Type:	Operator	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:	43.89055556	**Operator Region:**	
Longitude:	-79.75611111	**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	Halton-Peel
County:		**SWP Area Name:**	Toronto
Trade Name:			
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3561182		

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3 | **1 of 11** | **ESE/20.1** | **264.9 / 4.61** | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON L7E 5R8 | **DTNK**

Delisted Expired Fuel Safety Facilities

Instance No:	9707693	**Expired Date:**	4/24/1996
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:		**Facility Location:**	
Instance Type:	FS Facility	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description:
Original Source: EXP
Record Date: Up to May 2013

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	2 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 10582663
Status: EXPIRED
Instance ID: 28365
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	3 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 10582713
Status: EXPIRED
Instance ID: 28614
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Overfill Prot Type: ***Piping Underground:***
Creation Date: ***Tank Underground:***
Next Periodic Str DT: ***Source:***
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

3	*4 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10582634
Status: EXPIRED
Instance ID: 29342
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

3	*5 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance No:	10582582	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	29680	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

3	6 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10582760	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	29980	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

---

3 | **7 of 11** | **ESE/20.1** | **264.9 / 4.61** | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON | **EXP**

Inventory No: 10582610
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 27200
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Diesel

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | **8 of 11** | **ESE/20.1** | **264.9 / 4.61** | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON | **EXP**

Inventory No: 10582690
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | **9 of 11** | **ESE/20.1** | **264.9 / 4.61** | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON | **EXP**

Inventory No: 10582555
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline

Tank Material: Steel
Corrosion Protect: Sacrificial anode
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | **10 of 11** | **ESE/20.1** | **264.9 / 4.61** | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON | **EXP**

Inventory No: 10582650
Inventory Status: EXPIRED
Installation Year: 1988
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline

---

3 | ***11 of 11*** | ***ESE/20.1*** | ***264.9 / 4.61*** | ***YG GAS BAR***
14289 HWY 50 N LOT 12 C-7
BOLTON ON | ***EXP***

Inventory No: 10582737
Inventory Status: EXPIRED
Installation Year: 1988
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Steel
Corrosion Protect: Sacrificial anode
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

4 | ***1 of 1*** | ***ESE/21.3*** | ***261.8 / 1.52*** | ***60 Alderbrook Place, Bolton***
Caledon ON | ***SPL***

Ref No: 8371-8U5PPY
Year:
Incident Dt: 09-MAY-12
Dt MOE Arvl on Scn:
MOE Reported Dt: 09-MAY-12
Dt Document Closed: 25-JUL-12
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Enbridge Gasline - 1/2 " plastic <UNOFFICIAL>
Site Address: 60 Alderbrook Place, Bolton
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Air Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: TSSA: 1/2 " gasline damage. made safe.
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Other
SAC Action Class: TSSA - Fuel Safety Branch
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

---

5 | ***1 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***CALEDON HYDRO***
14442 HWY 50 (JAMES DICK CONSTRUCTION)
TRANSFORMER/CAPACITOR
CALEDON TOWN ON | ***SPL***

Ref No: 168745 ***Municipality No:*** 21401
Year: ***Nature of Damage:***
Incident Dt: 6/10/1999 ***Discharger Report:***
Dt MOE Arvl on Scn: ***Material Group:***
MOE Reported Dt: 6/10/1999 ***Impact to Health:***
Dt Document Closed: ***Agency Involved:***
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: CALEDON TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: COOLING SYSTEM LEAK
Incident Preceding Spill:
Environment Impact: CONFIRMED
Health Env Consequence:
Nature of Impact: Multi Media Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: EQUIPMENT FAILURE
Incident Summary: CALEDON HYDRO-20 L NON- PCB X-FORMER OIL TO GND, OLD CAR. CLEANED.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	2 of 7	NNE/26.9	259.6 / -0.64	Caledon Sand & Gravel Inc. 14442 Regional Road 50 Bolton ON L7E 3E2	SCT

Established: 01-JUL-66
Plant Size (ft²):
Employment:

--Details--
Description: Sand and Gravel Mining and Quarrying
SIC/NAICS Code: 212323

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	3 of 7	NNE/26.9	259.6 / -0.64	James Dick Construction Ltd. 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	4 of 7	NNE/26.9	259.6 / -0.64	James Dick Concrete Aggregates 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	5 of 7	NNE/26.9	259.6 / -0.64	Hamilton Ready Mix Ltd. 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1967
Plant Size (ft²):
Employment: 15

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

---

5 | ***6 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***James Dick Construction Ltd.***
14442 Regional Road 50
Bolton ON L7E 3E2 | ***SCT***

Established: 01-JUL-64
Plant Size (ft²): 10000
Employment:

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

---

5 | ***7 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***James Dick Construction Limited***
14442 Hwy 50
Caledon ON | ***SPL***

Ref No: 2568-8P4D39
Year:
Incident Dt: 11/30/2011
Dt MOE Arvl on Scn: 11/30/2011
MOE Reported Dt: 11/30/2011
Dt Document Closed:
Site No:
MOE Response: Planned Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: James Dick Truck Storage Yard
Site Address: 14442 Hwy 50
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: NA
Easting: NA
Incident Cause:
Incident Preceding Spill:
Environment Impact: Possible
Health Env Consequence:
Nature of Impact: Soil Contamination; Surface Water Pollution
Contaminant Qty: 500 L
Contaminant Qty 1: 500
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: MVA: truck fire causing diesel and hyd.oil spill to road.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: James Dick Construction Limited

6	1 of 12	NNE/32.0	264.1 / 3.89	S & F SERVICE 14445 HWY 50 BOLTON ON L7E3H6	RST

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

6	2 of 12	NNE/32.0	264.1 / 3.89	YASHRAJ INC 14445 HWY 50 BOLTON ON L7E 3H6	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9771810
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description:

Expired Date: 12/7/2009 10:39
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Original Source: EXP
Record Date: Up to May 2013

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6 **3 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No: 64470999
Inventory Status: active
Installation Year: 1989
Capacity: 25000
Capacity Unit: L
Tank Type: Single Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Steel
Corrosion Protect: Sacrificial Anode
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

---

6 **4 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No: 64471000
Inventory Status: active
Installation Year: 1989
Capacity: 25000
Capacity Unit: L
Tank Type: Single Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Steel
Corrosion Protect: Sacrificial Anode
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

---

6 **5 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No: 64471001
Inventory Status: active
Installation Year: 1989
Capacity: 25000
Capacity Unit: L
Tank Type: Single Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Steel
Corrosion Protect: Sacrificial Anode
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

---

6 **6 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No: 64470998
Inventory Status: active
Installation Year: 1989
Capacity: 50000
Capacity Unit: L
Tank Type: Single Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Steel
Corrosion Protect: Sacrificial Anode
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	7 of 12	NNE/32.0	264.1 / 3.89	by 14445 Regional Rd 50, Bolton Caledon ON	SPL

Ref No:	0241-9HTLC9	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	2014/03/20	**Discharger Report:**	
Dt MOE Arvl on Scn:	2014/04/28	**Material Group:**	
MOE Reported Dt:	2014/04/03	**Impact to Health:**	
Dt Document Closed:	2014/07/03	**Agency Involved:**	
Site No:	NA		
MOE Response:	Deferred Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	Bell manhole<UNOFFICIAL>		
Site Address:	by 14445 Regional Rd 50, Bolton		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Unknown / N/A		
Incident Preceding Spill:			
Environment Impact:	Confirmed		
Health Env Consequence:			
Nature of Impact:	Soil Contamination		
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:			
Source Type:			
Contaminant Code:	15		
Contaminant Name:	PETROLEUM OIL (N.O.S.)		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Oily black water in Bell manhole		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Unknown / N/A		
SAC Action Class:	Land Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	8 of 12	NNE/32.0	264.1 / 3.89	PETRO V PLUS LTD O/A ESSO 14445 HWY 50 BOLTON ON	INC

Incident No:	1776110	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:	49134275	**Service Intrp:**	
Status Code:		**Was Prop Damaged:**	
Incident Status:	Causal Analysis Complete	**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Task No:		**Indus App. Type:**	
Attribute Category:	FS-Incident	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	12/22/2015	**Operation Pressure:**	
Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:	12/22/2015	**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Leak	**Contam. Migrated:**	
Occur Type Rpt:	Leak	**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Gasoline	**Sub Surface Contam:**	
Fuel Type Reported:	Transportation Fuel	**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14445 HWY 50		
Invent Postal Code:	L7E 3H6		
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	Underground piping damaged while ashphalt being cut		
Operation Type Involved:	Retail Fuel Station (FS, SS, Multifunctional)		

6	9 of 12	NNE/32.0	264.1 / 3.89	**Facility Maintenance & Construction Inc.** **14445 Regional Rd. 50** **Caledon ON NA**	SPL

Ref No:	7830-A5FS4W	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	12/22/2015	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	12/22/2015	**Impact to Health:**	
Dt Document Closed:		**Agency Involved:**	
Site No:	5614-A5GNC8		
MOE Response:	No		
Site County/District:			
Site Geo Ref Meth:	NA		
Site District Office:			
Nearest Watercourse:			
Site Name:	Esso Gas Station		
Site Address:	14445 Regional Rd. 50		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:	NA		

Site Map Datum:	NA
Northing:	NA
Easting:	NA
Incident Cause:	
Incident Preceding Spill:	
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 L
Contaminant Qty 1:	0
Contaminant Unit:	L
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA FSB Esso: Product line cut by contractor
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Other
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Facility Maintenance & Construction Inc.

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6 | ***10 of 12*** | ***NNE/32.0*** | ***264.1 / 3.89*** | ***Petro V Plus***
14445 Regional Rd 50
Bolton ON L7E3H6 | ***GEN***

Generator No:	ON5794264
SIC Code:	447110
SIC Description:	447110
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Giulio Dinuzzo
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	416-2006268 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

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6 | ***11 of 12*** | ***NNE/32.0*** | ***264.1 / 3.89*** | ***PETRO V PLUS LTD O/A ESSO***
14445 HWY 50,,BOLTON,ON,L7E 3H6,CA
ON | ***INC***

Incident No:	1776104	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:		**Service Intrp:**	
Status Code:		**Was Prop Damaged:**	
Incident Status:		**Reside App. Type:**	

Incident Severity:		**Commer App. Type:**	
Task No:		**Indus App. Type:**	
Attribute Category:	FS-Incident	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	12/22/2015	**Operation Pressure:**	
Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:		**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:		**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:	FS GASOLINE STATION - SELF SERVE		
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:			
Operation Type Involved:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	12 of 12	NNE/32.0	264.1 / 3.89	**PETRO V PLUS LTD O/A ESSO** **14445 HWY 50** **BOLTON ON**	FST

Inventory No:	49134275	**Tank Material:**	
Inventory Status:	Active	**Corrosion Protect:**	
Installation Year:		**Overfill Protection:**	
Capacity:	125000	**Inventory Context:**	Liquid Fuels
Capacity Unit:	L	**Inventory Item:**	FS Gasoline Station - Self Serve
Tank Type:			
Manufacturer:			
Model:			
Description:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	1 of 2	N/35.6	265.9 / 5.61	**14475 Highway 50** **Caledon ON**	SPL

Ref No:	1388-9JHT3H	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	2014/04/25	**Discharger Report:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Dt MOE Arvl on Scn:	2014/04/29	**Material Group:**	
MOE Reported Dt:	2014/04/25	**Impact to Health:**	
Dt Document Closed:	2014/07/03	**Agency Involved:**	
Site No:	NA		
MOE Response:	Planned Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	diesel spill<UNOFFICIAL>		
Site Address:	14475 Highway 50		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Unknown / N/A		
Incident Preceding Spill:			
Environment Impact:	Confirmed		
Health Env Consequence:			
Nature of Impact:	Soil Contamination		
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:			
Source Type:			
Contaminant Code:	15		
Contaminant Name:	OIL (PETROLEUM BASED, NOT SPECIFIED)		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Unknown source: oil coming up in excavation for cables		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Unknown / N/A		
SAC Action Class:	Primary Assessment of Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

7	2 of 2	N/35.6	265.9 / 5.61	14475 HIGHWAY 50, CALEDON ON	INC

Incident No:	1381602	**Any Health Impact:**	Unknown
Incident ID:		**Any Enviro Impact:**	Unknown
Instance No:		**Service Intrp:**	Unknown
Status Code:		**Was Prop Damaged:**	Unknown
Incident Status:		**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	
Task No:	4895060	**Indus App. Type:**	
Attribute Category:	FS-Perform L1 Incident Insp	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	2014/04/28 00:00:00	**Operation Pressure:**	
Time of Occurrence:	12:00:00	**Equipment Type:**	
Occr Insp Start Dt:	2014/04/28 00:00:00	**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	

Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Leak	**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Fuel Oil	**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:	NULL	**Tank Storage Type:**	
Prc Escalation Req:	NULL	**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14475 HIGHWAY 50, CALEDON - LEAK		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	spill not confirmed of the origin		
Operation Type Involved:	Commercial (e.g. restaurant, business unit, etc)		

8 | **1 of 1** | **S/35.7** | **261.5 / 1.22** | **PAPERTIOUS INVESTMENTS INC.**
No Municipal Address
Caledon ON | **RSC**

RSC No:	223186	**X:**	-79.7614996397065
RA No:		**Y:**	43.875729743163824
Status:	FILED	**Latitude:**	43.87572974
Filing Date:		**Longitude:**	-79.76149964
Date Ack:		**UTM Coordinates:**	
Date Returned:		**Latitude Longitude:**	
Approval Date:	April 26, 2017	**Accuracy Estimate:**	
Cert Date:		**Measurement Method:**	
Cert Prop Use No:		**Mailing Address:**	
Curr Property Use:		**Telephone:**	
Intended Prop Use:		**Fax:**	
Restoration Type:		**Email:**	
Soil Type:		**Postal Code:**	
Criteria:		**Ministry District:**	
Stratified (Y/N):		**MOE District:**	Halton-Peel
Audit (Y/N):		**SWP Area Name:**	Toronto
Entire Leg Prop. (Y/N):		**Qual Person Name:**	SIMON LAN
CPU Issu Sect 1686:		**Consultant:**	
Business Name:	PAPERTIOUS INVESTMENTS INC.		
Address:	No Municipal Address		
Legal Desc:			
Site Pin:	14326-1098 (LT), 14326-1099 (LT), 14326-1134 (LT), 14326-1331 (LT), 14326-1332 (LT), 14326-1333 (LT), 14326-1334 (LT), 14326-1335 (LT), 14326-1371 (LT), 14326-1372 (LT), 14326-1373 (LT), 14326-1374 (LT), 14326-1377 (LT), 14326-1378 (LT), 14330-0545 (LT)		
Asmt Roll No:			
Project Type:	POST2011		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type:	RSC based on Phase One and Two ESAs
Applicable Standards:	
PDF Link:	https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=223186

9 **1 of 4** **ESE/39.0** **262.9 / 2.61** **North Hill Animal Hospital** **GEN**
14182 Hwy 50 N.
Bolton ON

Generator No:	ON6173942
SIC Code:	
SIC Description:	
Approval Years:	03
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

9 **2 of 4** **ESE/39.0** **262.9 / 2.61** **North Hill Animal Hospital Professional Corp.** **GEN**
14182 Hwy 50 N.
Bolton ON L7E 5R8

Generator No:	ON6173942
SIC Code:	541940
SIC Description:	Veterinary Services
Approval Years:	04
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

9 **3 of 4** **ESE/39.0** **262.9 / 2.61** **North Hill Animal Hospital Professional Corp.** **GEN**
14182 Regional Road 50
Bolton ON

Generator No:	ON6173942
SIC Code:	541940
SIC Description:	Veterinary Services
Approval Years:	06,07,08
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	261
Waste Class Name:	PHARMACEUTICALS
Waste Class:	261
Waste Class Name:	PHARMACEUTICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 321
Waste Class Name: EXPLOSIVE MANUFACTURING WASTES

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9 | **4 of 4** | **ESE/39.0** | **262.9 / 2.61** | **North Hill Animal Hospital Professional Corp.**
14182 Regional Road 50
Bolton ON | **GEN**

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

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10 | **1 of 2** | **E/49.1** | **264.8 / 4.58** | **Enbridge Energy Distribution Inc.**
151 Taylorwood Ave, Bolton
Halton Hills ON | **SPL**

Ref No: 2548-AXR42E
Year:
Incident Dt: 2018/04/11
Dt MOE Arvl on Scn:
MOE Reported Dt: 2018/04/11
Dt Document Closed: 2018/05/18
Site No: NA
MOE Response: No
Site County/District: Regional Municipality of Halton
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: 1/2 inch plastic IP<UNOFFICIAL>
Site Address: 151 Taylorwood Ave, Bolton
Site Region: Central
Site Municipality: Halton Hills
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 other - see incident description
Contaminant Qty 1:	0
Contaminant Unit:	other - see incident description
Client Type:	Corporation
Source Type:	Pipeline/Components
Contaminant Code:	35
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Limit 1:	
Contam Limit Freq 1:	n/a
Contaminant UN No 1:	1075
Receiving Medium:	Air
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA 1/2 inch plastic IP damage, made safe
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Enbridge Energy Distribution Inc.

10	2 of 2	E/49.1	264.8 / 4.58	**PIPELINE HIT 1/2"** **151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8, CA** **ON**	PINC

Incident Id:		**Pipe Material:**	
Incident No:	2281852	**Fuel Category:**	
Incident Reported Dt:	4/12/2018	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT 1/2"		
Incident Address:	151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

11	1 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON L7E 4G6**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON6379064
SIC Code: 611110
SIC Description:
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

11	*2 of 10*	*E/79.4*	*261.0 / 0.79*	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD*** ***St. Michael S.S., 9130 Columbia Way*** ***Bolton ON L7E 4G6***	*GEN*

Generator No: ON6379064
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

11	*3 of 10*	*E/79.4*	*261.0 / 0.79*	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD*** ***St. Michael S.S., 9130 Columbia Way*** ***Bolton ON***	*GEN*

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

11	*4 of 10*	*E/79.4*	*261.0 / 0.79*	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD***	*GEN*

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

11	***5 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

11	***6 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code: 611110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

11	7 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON L7E 4G6**	GEN

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

11	8 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

11	***9 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

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11 | **10 of 10** | **E/79.4** | **261.0 / 0.79** | **DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD**
St. Michael S.S., 9130 Columbia Way
Bolton ON L7E 4G6 | **GEN**

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 L
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 B
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

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12 | **1 of 2** | **ESE/81.3** | **264.6 / 4.34** | **WYNDCLIFFE DEVELOPMENTS INC.**
COLEMAN CT./KINGSVIEW DR.
CALEDON TOWN ON | **CA**

Certificate #: 3-1348-93-
Application Year: 93
Issue Date: 12/9/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Project Description:
Contaminants:
Emission Control:

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12 | **2 of 2** | **ESE/81.3** | **264.6 / 4.34** | **WYNDCLIFFE DEVELOPMENTS INC. COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON** | **CA**

Certificate #: 7-1044-93-
Application Year: 93
Issue Date: 12/9/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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13 | **1 of 2** | **E/89.3** | **257.9 / -2.37** | **13 Foxbury Place, Caledon ON** | **PINC**

Incident Id:
Incident No: 874068
Incident Reported Dt:
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Tank Status: RC Established
Task No: 4025164
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt: 2012/09/19
Depth:
Customer Acct Name:
Incident Address:
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 13 Foxbury Place, Caledon - 1/2" Pipeline Hit
Reported By: jamie.amodeo@enbridge.com
Affiliation:
Occurrence Desc:
Damage Reason: Notification to one call center made but not sufficient
Notes:

Pipe Material:
Fuel Category: Natural Gas
Health Impact:
Environment Impact:
Property Damage: Yes
Service Interrupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
PSIG:
Attribute Category: FS-Perform P-line Inc Invest
Regulator Location:
Method Details: E-mail

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13 | **2 of 2** | **E/89.3** | **257.9 / -2.37** | **PIPELINE HIT 0.5" 13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON** | **PINC**

Incident Id:
Incident No: 979246
Incident Reported Dt: 12/17/2012
Type: FS-Pipeline Incident
Status Code:
Tank Status: Pipeline Damage Reason Est

Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt:
Depth:
Customer Acct Name: PIPELINE HIT 0.5"
Incident Address: 13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:
Attribute Category:
Regulator Location:
Method Details:

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14 | **1 of 4** | **ESE/117.8** | **262.9 / 2.61** | **WOODY'S BUILDING PRODUCTS**
14124 HIGHWAY # 50, RR 2
BOLTON ON L7E3E2 | **PES**

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:
Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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14 | **2 of 4** | **ESE/117.8** | **262.9 / 2.61** | **WOODY'S BUILDING PRODUCTS**
14124 HIGHWAY # 50, RR 2
BOLTON ON L7E3E2 | **PES**

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Trade Name:
PDF URL:

---

14 | **3 of 4** | **ESE/117.8** | **262.9 / 2.61** | **Grant Thornton**
14124 Regional Road #50
Bolton ON | **GEN**

Generator No: ON7434239
SIC Code: 523990
SIC Description: All Other Financial Investment Activities
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

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14 | **4 of 4** | **ESE/117.8** | **262.9 / 2.61** | **WOODY'S BUILDING PRODUCTS**
14124 HIGHWAY # 50, RR 2
BOLTON ON L7E3E2 | **PES**

Detail Licence No:
Licence No: 14279
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class: 01
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 9519944
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

15 | **1 of 1** | **ESE/129.6** | **262.8 / 2.56** | **7 Rotarian Way, Caledon ON** | **INC**

Incident No: 466328
Incident ID: 2618220
Instance No:
Status Code: Causal Analysis Complete
Incident Status:
Incident Severity:
Task No:
Attribute Category: FS-Incident
Context:
Date of Occurrence:

Any Health Impact:
Any Enviro Impact:
Service Intrp:
Was Prop Damaged:
Reside App. Type:
Commer App. Type:
Indus App. Type:
Institut App. Type:
Depth Ground Cover:
Operation Pressure: IP

Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:		**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:		**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:	Service / Riser Distribution Pipeline		
Pipeline Involved:			
Pipe Material:	Plastic		
Regulator Location:	Outside		
Regulator Type:	Service Regulator (up to 60 psi intake)		
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	7 Rotarian Way, Caledon - 1" Pipeline Hit		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	Contractor had exposed service with Vac Truck.Had valid locates.Operator error.		
Operation Type Involved:			

---

16 | ***1 of 1*** | ***SE/137.9*** | ***262.7 / 2.44*** | ***CORPORATION OF THE TOWN OF CALEDON*** | ***PES***

14220 Hwy 50 HWY
CALEDON ON L7E 3E2

Detail Licence No:		**Operator Box:**	
Licence No:	L-240-6207315806	**Operator Class:**	
Status:	Active	**Operator No:**	
Approval Date:	January 11, 2023	**Operator Type:**	
Report Source:	PEST-Operator	**Oper Area Code:**	
Licence Type:	Operator	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:	43.89055556	**Operator Region:**	
Longitude:	-79.75611111	**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	Halton-Peel
County:		**SWP Area Name:**	Toronto
Trade Name:			
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2830780		

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17 | ***1 of 1*** | ***SE/161.0*** | ***260.8 / 0.55*** | ***Progreen Demolition Ltd.*** | ***GEN***

14328 Hwy 50

Bolton ON

Generator No: ON6458484
SIC Code: 236110
SIC Description: Residential Building Construction
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

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18 ***1 of 4*** ***SE/182.2*** ***261.5 / 1.28*** ***CALEDON GARDEN GALLERY INC*** ***PES***
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: General Vendor
Licence Type Code: 22
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

18 ***2 of 4*** ***SE/182.2*** ***261.5 / 1.28*** ***CALEDON GARDEN GALLERY INC*** ***PES***
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

County: **SWP Area Name:**
Trade Name:
PDF URL:

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18 **3 of 4** **SE/182.2** **261.5 / 1.28** **14118 Hwy 50 BOLTON ON** **HINC**

External File Num: FS INC 0704-01940
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 4/19/2007
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Construction Site (pipeline strike)
Service Interruptions: Yes
Property Damage: Yes
Fuel Life Cycle Stage: Transmission, Distribution and Transportation
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:Yes
Reported Details:
Fuel Category: Gaseous Fuel
Occurrence Type: Incident
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name: Peel
Approx. Quant. Rel:
Nearby body of water:
Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

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18 **4 of 4** **SE/182.2** **261.5 / 1.28** **CALEDON GARDEN GALLERY INC**
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8 **PES**

Detail Licence No:
Licence No: 13482
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: General Vendor
Licence Type Code: 22
Licence Class: 01
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 8570416
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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19 **1 of 1** **E/188.7** **261.1 / 0.83** **THE NEEDLEWORKS**
8 TAYLORWOOD AVE
BOLTON ON L7E 1J2 **SCT**

Established: 1994
Plant Size (ft²): 0
Employment: 0

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

--Details--
Description: PLEATING, DECORATIVE AND NOVELTY STITCHING, AND TUCKING FOR THE TRADE
SIC/NAICS Code: 2395

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20 ***1 of 1*** ***E/199.5*** ***260.9 / 0.61*** ***22-80 Goodfellow Cres., Bolton Caledon ON*** ***SPL***

Ref No: 0163-6ATUN3
Year:
Incident Dt: 3/25/2005
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/25/2005
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: 16-20 Homes<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Unknown
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Surface Water Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason: Unknown - Reason not determined
Incident Summary: Small Qty oil in SS: Flushed to Humber
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Unknown
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Municipality No:
Nature of Damage:
Discharger Report: 0
Material Group: Oil
Impact to Health:
Agency Involved:

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21 ***1 of 2*** ***E/209.0*** ***259.9 / -0.39*** ***RANDY E NOBES 20 EWART ST NORTHAM IND PARK COBOURG ON*** ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10462049	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	19733	***Facility Location:***	
Instance Type:	FS Highway Tank - Gas/Diesel	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS HIGHWAY TANK - GASOLINE/DIESEL		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	2 of 2	E/209.0	259.9 / -0.39	***RANDY E NOBES*** ***20 EWART ST NORTHAM IND PARK*** ***COBOURG ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10462043	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	20724	***Facility Location:***	
Instance Type:	FS Highway Tank - Gas/Diesel	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			

TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS HIGHWAY TANK - GASOLINE/DIESEL
Original Source: EXP
Record Date: Up to Mar 2012

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22 | ***1 of 1*** | ***E/218.6*** | ***259.9 / -0.39*** | ***The Regional Municipality of Peel***
16 Ewart St
Caledon ON L7E 2T3 | ***SPL***

Ref No: 5552-AE9HWP
Year:
Incident Dt: 9/28/2016
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/29/2016
Dt Document Closed: 10/3/2016
Site No: 0875-AEAHJQ
MOE Response:
Site County/District:
Site Geo Ref Meth: NA
Site District Office:
Nearest Watercourse:
Site Name: Residence
Site Address: 16 Ewart St
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu: NA
Site Map Datum: NA
Northing: NA
Easting: NA
Incident Cause:
Incident Preceding Spill: Leak/Break
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 20 L
Contaminant Qty 1: 20
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason: Equipment Failure
Incident Summary: Region of Peel: swg to roadway and cb's; cleaned
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Municipal Sewage
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: The Regional Municipality of Peel
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Unplottable Summary

Total: 71 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 12 Con 5	Caledon ON	
CA	Vincos Corp.	Part of Lot 10, Concession 5	Caledon ON	
CA	James Dick Construction Limited	mobile facility	Caledon ON	
CA	Vincos Corp.	Part of Lot 10, Concession 5	Caledon ON	
CA	CALEDON SAND & GRAVEL INC.	R.R. #2	CALEDON TOWN ON	
CA	BETOMAT CONCRET PRODUCTS	PART LOT 10 CONC. V	CALEDON TOWN ON	
CA		Part of the West Half of Lot 10, Concession 8	Caledon ON	
CA		Part of the West Half of Lot 10, Concession 8	Caledon ON	
CA	Palgrave Well No. 3	Mount Hope Road	Caledon ON	
CA	Palgrave Well No. 3	Mount Hope Road	Caledon ON	
CA		Part of Lot 10, Concession 5	Caledon ON	
CA		Part of Lot 10, Concession 5	Caledon ON	
CA		Part of W.1/2 Lot 10, Conc. 8 (Albion)	Caledon ON	
CA		Part of W.1/2 Lot 10, Conc. 8 (Albion)	Caledon ON	
CA		Lots 9 and 10, Concession 5	Caledon ON	
CA		Lots 9 and 10, Concession 5	Caledon ON	
CA	CLINT DEVELOPMENTS INC.	PT.LOT 10/CONC. 8, ALBION TWP.	CALEDON TOWN ON	
CA	PAPERTIOUS INVESTMENTS	LOT 10,CON.5/STS.A/C&L	CALEDON ON	

	INC.			
CA	PAPERTIOUS INVESTMENTS INC.	PT.LOTS 9&10, CONC. 5, BOLTON	CALEDON ON	
CA	PAPERTIOUS INVESTMENTS INC.	LOT 10, CON.5/STS.A/C&L	CALEDON ON	
CA	WYNDCLIFFE ESTATES INC. PH. IV	KINGSVIEW DR. HUMBERVIEW HILLS	CALEDON TOWN ON	
CA	R.M. OF PEEL-BOLTON WELL PUMPING STATION	NO. 6 GLASGOW ROAD	CALEDON TOWN ON	
CA	SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS	GOODFELLOW CRES. PH.III ST. II	CALEDON TOWN ON	
CA	WYNDCLIFFE ESTATES INC. PH. IV	KINGSVIEW DR. HUMBERVIEW HILLS	CALEDON TOWN ON	
CA	R.M. OF PEEL ANN ST. /STATION ST.	KING STREET WEST	CALEDON TOWN ON	
CA	SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS	GOODFELLOW CRES.PH. III ST. II	CALEDON TOWN ON	
CA	R.M. OF PEEL	KING ST. WEST (BOLTON)	CALEDON TOWN ON	
CA	JAMES DICK CONSTRUCTION LIMITED	PT.LOT 13/CONC.6, BOLTON	CALEDON TOWN ON	
EBR	James Dick Construction Limited	Mobile facility Caledon, Regional Municipality of Peel TOWN OF CALEDON	ON	
ECA	The Corporation of the Town of Caledon	Columbia Way Lot 10-11 and Concession 7	Caledon ON	L7C 1J6
ECA	James Dick Construction Limited	mobile facility	Caledon ON	L7E 5R8
ECA	Papertious Investments Inc.		Caledon ON	L4K 4R1
FST	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FST	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FSTH	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FSTH	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	Monterra Lumber Mills Limited	Highway 50	Bolton ON	L7E 1M5
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4

GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	KEN'S LAWNMOWER REPAIRS LTD.	LOT 14, CONCESSION 6	CALEDON ON	
GEN	KEN'S LAWNMOWER REPAIRS LTD. 23-511	LOT 14, CONC6, TOWN OF CALEDON C/O R.R. #2	BOLTON ON	L7E 5R8
GEN	KEN'S LAWNMOWER REPAIRS LTD.	LOT 14, CONC6,	TOWN OF CALEDON ON	L7E 5R8
GEN	CALEDON, TOWN OF	PUBLIC WORKS YARD 3 LOT 11, CONCESSION 6	CALEDON EAST ON	L0N 1E0
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	LOT 13, CONCESSION 6	CALEDON ON	
GEN	JAMES DICK CONSTRUCTION LTD. 22-148	LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470	BOLTON ON	L0P 1A0
GEN	JAMES DICK CONSTRUCTION LTD.	LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470	BOLTON ON	L0P 1A0
PES	SAINT'S COLD CREEK NURSERY	R.R. #2, HWY. 50	BOLTON ON	L7E 5R8
PRT	S & F SERVICE DIV OF 490474 ONTARIO LTD	LOT 12 CON 7 HWY 50N	BOLTON ON	
PRT	MBH PETROLEUM SERVICES INC	LOT 13 CON 7	BOLTON ON	

PRT	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
SCT	James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.	Hwy 50	Bolton ON	L7E 5T4
SCT	JAMES DICK CONCRETE AGGREGATES	PO BOX 470 STN MAIN	ON	L7E 5T4
SCT	JAMES DICK CONCRETE AGGREGATES		BOLTON ON	L7E 5T4
SCT	James Dick Construction Ltd.		Bolton ON	
SCT	Caledon Sand & Gravel Inc.	Hwy 50	Bolton ON	L7E 5Z7
SCT	CALEDON SAND & GRAVEL INC.	HIGHWAY 50 RR 1	BOLTON ON	L7E 5Z7
SCT	JAMES DICK CONCRETE AGGREGATES	HWY 50	BOLTON ON	L7E 5T4
SPL	UNKNOWN	HWY 50,BOLTON	CALEDON TOWN ON	
SPL	James Dick Construction Limited	North West Corner	Caledon ON	
SPL	ROTHSAY	HWY 50, 1 KM NORTH OF KING ST IN BOLTON TRANSPORT TRUCK (CARGO)	CALEDON TOWN ON	

Unplottable Report

Site:
Lot 12 Con 5 Caledon ON

Database:
AAGR

Type:	Pit
Region/County:	Peel
Township:	Caledon
Concession:	5
Lot:	12
Size (ha):	0.1
Landuse:	
Comments:	

Site: ***Vincos Corp.***
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	5442-5NKPJW
Application Year:	2003
Issue Date:	6/17/2003
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: ***James Dick Construction Limited***
mobile facility Caledon ON

Database:
CA

Certificate #:	8517-7EDPJG
Application Year:	2008
Issue Date:	6/12/2008
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Vincos Corp.***
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	9272-5TLK7Y
Application Year:	2003
Issue Date:	12/9/2003
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: ***CALEDON SAND & GRAVEL INC.***
R.R. #2 CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3483-93-
Application Year: 93
Issue Date: 10/20/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: (2) WASTE OIL FURNACES MODEL GV-2000X
Contaminants:
Emission Control:

Site: ***BETOMAT CONCRET PRODUCTS***
PART LOT 10 CONC. V CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3038-87-
Application Year: 87
Issue Date: 6/25/1987
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: CONCRETE BRICK MFG.
Contaminants:
Emission Control:

Site:
Part of the West Half of Lot 10, Concession 8 Caledon ON

Database: ***CA***

Certificate #: 6203-4H7LEQ
Application Year: 00
Issue Date: 3/9/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Clint Developments Inc.
Client Address: 222 Lesmill Road
Client City: North York
Client Postal Code: M3B 2T5
Project Description: Watermains and all appurtenances to be constructed in conjunction with Project No. T-98002C.
Contaminants:
Emission Control:

Site:
Part of the West Half of Lot 10, Concession 8 Caledon ON

Database: ***CA***

Certificate #: 8654-4H7KTU
Application Year: 00
Issue Date: 3/9/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Clint Developments Inc.
Client Address: 222 Lesmill Road
Client City: North York
Client Postal Code: M3B 2T5
Project Description: Sanitary and storm sewers and all appurtenances to be constructed in conjunction with Project No.T-98002C.
Contaminants:
Emission Control:

Site: ***Palgrave Well No. 3***
Mount Hope Road Caledon ON

Database: ***CA***

Certificate #: 1565-5AUJGA
Application Year: 02
Issue Date: 6/13/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name: The Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive, Fourth Floor
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Amend CofA to extend GUDI deadline.
Contaminants:
Emission Control:

Site: ***Palgrave Well No. 3***
Mount Hope Road Caledon ON

Database: ***CA***

Certificate #: 4850-56XV22
Application Year: 02
Issue Date: 6/13/02
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: The system comprises of three (3) well pump houses, reservoir and booster station and distribution system
Contaminants:
Emission Control:

Site:
Part of Lot 10, Concession 5 Caledon ON

Database: ***CA***

Certificate #: 8804-4Q7LKE
Application Year: 00
Issue Date: 10/25/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Valleygrove Investments Inc.
Client Address: 2458 Dundas Street West
Client City: Mississauga
Client Postal Code: L5K 1R8
Project Description: Construction of watermains in the Town of Caledon (Bolton) under Project 21T-89037c.
Contaminants:
Emission Control:

Site:
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #: 1503-4Q6QFE
Application Year: 00
Issue Date: 10/25/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Valleygrove Investments Inc.
Client Address: 2458 Dundas Street West
Client City: Mississauga
Client Postal Code: L5K 1R8
Project Description: Construction of Sanitary sewers in the Town of Caledon (Bolton) under project 21T-89037c.
Contaminants:
Emission Control:

Site:
Part of W.1/2 Lot 10, Conc. 8 (Albion) Caledon ON

Database:
CA

Certificate #: 8324-4HNTLF
Application Year: 00
Issue Date: 3/30/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Worldcom Meadows Inc.
Client Address: 55 Blue Willow Drive
Client City: Woodbridge
Client Postal Code: L4L 9E8
Project Description: North Hill Villas, Town of Caledon
Contaminants:
Emission Control:

Site:
Part of W.1/2 Lot 10, Conc. 8 (Albion) Caledon ON

Database:
CA

Certificate #: 1255-4HNT8Q
Application Year: 00
Issue Date: 3/30/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Worldcom Meadows Inc.
Client Address: 55 Blue Willow Drive
Client City: Woodbridge
Client Postal Code: L4L 9E8
Project Description: North Hill Villas, Town of Caledon
Contaminants:
Emission Control:

Site:
Lots 9 and 10, Concession 5 Caledon ON

Database:
CA

Certificate #: 0036-4VVRH4
Application Year: 01
Issue Date: 5/3/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Papertious Investments Inc.

Client Address: 1700 Langstaff Road, Suite 2003
Client City: Vaughan
Client Postal Code: L4K 3S3
Project Description: Watermains to be constructed on Harvest Mood Drive, Cedar Grove Road, Streets: E, F, H, M, O, P, Lismer Crescent, Grapevine Road and King Street West
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Lots 9 and 10, Concession 5 Caledon ON

Certificate #: 6126-4VXLS2
Application Year: 01
Issue Date: 5/3/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Papertious Investments Inc.
Client Address: 1700 Langstaff Road, Suite 2003
Client City: Vaughan
Client Postal Code: L4K 3S3
Project Description: Storm sewers to be constructed on Harvest Moon Drive, Cedar Grove Road, Streets: E, F, H, M, O, P, Lismer Crescent and Grapevine Road
Contaminants:
Emission Control:

Site: ***CLINT DEVELOPMENTS INC.*** ***Database:*** ***CA***
PT.LOT 10/CONC. 8, ALBION TWP. CALEDON TOWN ON

Certificate #: 3-1213-99-
Application Year: 99
Issue Date: 10/21/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.*** ***Database:*** ***CA***
LOT 10,CON.5/STS.A/C&L CALEDON ON

Certificate #: 7-0382-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.*** ***Database:*** ***CA***
PT.LOTS 9&10, CONC. 5, BOLTON CALEDON ON

Certificate #: 3-0578-98-
Application Year: 98
Issue Date: 6/22/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.***
LOT 10, CON.5/STS.A/C&L CALEDON ON

Database: ***CA***

Certificate #: 3-0581-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WYNDCLIFFE ESTATES INC. PH. IV***
KINGSVIEW DR. HUMBERVIEW HILLS CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0613-89-
Application Year: 89
Issue Date: 5/2/1989
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 PEEL-BOLTON WELL PUMPING STATION***
NO. 6 GLASGOW ROAD CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0818-91-
Application Year: 91
Issue Date: 11/13/1992
Approval Type: Municipal water
Status: Approved in 1992
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS***
GOODFELLOW CRES. PH.III ST. II CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0465-86-
Application Year: 86
Issue Date: 5/27/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WYNDCLIFFE ESTATES INC. PH. IV***
KINGSVIEW DR. HUMBERVIEW HILLS CALEDON TOWN ON

Database: ***CA***

Certificate #: 3-0690-89-
Application Year: 89
Issue Date: 5/2/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF PEEL ANN ST./STATION ST.***
KING STREET WEST CALEDON TOWN ON

Database: ***CA***

Certificate #: 3-0469-89-
Application Year: 89
Issue Date: 3/29/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS***
GOODFELLOW CRES.PH. III ST. II CALEDON TOWN ON

Database: ***CA***

Certificate #: 3-0622-86-
Application Year: 86
Issue Date: 5/27/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:

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

Site: ***R.M. OF PEEL***
KING ST. WEST (BOLTON) CALEDON TOWN ON

Database: ***CA***

Certificate #: 3-2104-87-
Application Year: 87
Issue Date: 11/30/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***JAMES DICK CONSTRUCTION LIMITED***
PT.LOT 13/CONC.6, BOLTON CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3465-93-
Application Year: 93
Issue Date: 11/18/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: (2) WASTE OIL FURNACES, MODEL GV-2000X
Contaminants: Nitrogen Oxides
Emission Control: No Controls

Site: ***James Dick Construction Limited***
Mobile facility Caledon, Regional Municipality of Peel TOWN OF CALEDON ON

Database: ***EBR***

EBR Registry No: 010-2453
Ministry Ref No: 5347-79LQFX
Notice Type: Instrument Final Decision
Notice Stage:
Notice Date: December 15, 2008
Proposal Date: January 03, 2008
Year: 2008
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: James Dick Construction Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address:
Comment Period:
URL:
Summary:

Site Location Details:

Site: ***The Corporation of the Town of Caledon***
Columbia Way Lot 10-11 and Concession 7 Caledon ON L7C 1J6

Database: ***ECA***

Approval No:	6896-BRKPD4	***MOE District:***	
Approval Date:	2020-08-25	***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 Corporation of the Town of Caledon		
Address:	Columbia Way Lot 10-11 and Concession 7		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5043-BMBHXN-14.pdf		
PDF Site Location:			

Site: ***James Dick Construction Limited***
mobile facility Caledon ON L7E 5R8

Database: ***ECA***

Approval No:	8517-7EDPJG	***MOE District:***	
Approval Date:	2008-06-12	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	James Dick Construction Limited		
Address:	mobile facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5347-79LQFX-13.pdf		
PDF Site Location:			

Site: ***Papertious Investments Inc.***
Caledon ON L4K 4R1

Database: ***ECA***

Approval No:	1915-ABCNPV	***MOE District:***	
Approval Date:	2016-06-29	***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:	Papertious Investments Inc.		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6966-AB8KBM-14.pdf		
PDF Site Location:			

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FST***

Inventory No:	10637623	***Tank Material:***	Steel
Inventory Status:	Active	***Corrosion Protect:***	Impressed Current
Installation Year:		***Overfill Protection:***	
Capacity:		***Inventory Context:***	FS Liquid Fuel Tank

Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Inventory Item: FS LIQUID FUEL TANK

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FST***

Inventory No: 10637579
Inventory Status: Active
Installation Year:
Capacity:
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FSTH***

License Issue Date: 12/10/1990
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FSTH***

License Issue Date: 12/10/1990
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122 L
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221 I
Waste Class Name: LIGHT FUELS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

Site: ***Monterra Lumber Mills Limited***
Highway 50 Bolton ON L7E 1M5

Database: ***GEN***

Generator No: ON3263771
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 265 L
Waste Class Name: Graphic arts wastes

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 145 I

Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 212 L

Waste Class Name: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald
Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald
Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald

Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2012
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***KEN'S LAWNMOWER REPAIRS LTD.***
LOT 14, CONCESSION 6 CALEDON ON

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 99,00,01,02,03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***KEN'S LAWNMOWER REPAIRS LTD. 23-511***
LOT 14, CONC6, TOWN OF CALEDON C/O R.R.#2 BOLTON ON L7E 5R8

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 94,95,96
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***KEN'S LAWNMOWER REPAIRS LTD.***
LOT 14, CONC6, TOWN OF CALEDON ON L7E 5R8

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 92,93,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***CALEDON, TOWN OF***
PUBLIC WORKS YARD 3 LOT 11, CONCESSION 6 CALEDON EAST ON L0N 1E0

Database: ***GEN***

Generator No: ON0813202
SIC Code: 4999
SIC Description: OTHER UTILITY IND.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
LOT 13, CONCESSION 6 CALEDON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LTD. 22-148***
LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470 BOLTON ON L0P 1A0

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LTD.***
LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470 BOLTON ON L0P 1A0

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 86,87,88,89,90
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***SAINT'S COLD CREEK NURSERY***
R.R. #2, HWY. 50 BOLTON ON L7E 5R8

Database: ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Site: ***S & F SERVICE DIV OF 490474 ONTARIO LTD***
LOT 12 CON 7 HWY 50N BOLTON ON

Database: ***PRT***

Location ID: 1754
Type: retail
Expiry Date: 1995-06-30
Capacity (L): 118136
Licence #: 0051035001

Site: ***MBH PETROLEUM SERVICES INC***
LOT 13 CON 7 BOLTON ON

Database: ***PRT***

Location ID: 1748
Type: retail
Expiry Date: 1995-10-31
Capacity (L): 27497
Licence #: 0053809001

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***PRT***

Location ID: 2533
Type: private
Expiry Date:
Capacity (L): 48600.00
Licence #: 0001046082

Site: ***James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.***
Hwy 50 Bolton ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***JAMES DICK CONCRETE AGGREGATES***
PO BOX 470 STN MAIN ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 220

--Details--
Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Description: MINERALS & EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***JAMES DICK CONCRETE AGGREGATES***
BOLTON ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 500

--Details--
Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***James Dick Construction Ltd.***
Bolton ON

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***Caledon Sand & Gravel Inc.***
Hwy 50 Bolton ON L7E 5Z7

Database: ***SCT***

Established: 1966
Plant Size (ft²):

Employment: 47

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Site: ***CALEDON SAND & GRAVEL INC.***
HIGHWAY 50 RR 1 BOLTON ON L7E 5Z7

Database: ***SCT***

Established: 1966
Plant Size (ft²): 0
Employment: 47

--Details--
Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***JAMES DICK CONCRETE AGGREGATES***
HWY 50 BOLTON ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***UNKNOWN***
HWY 50,BOLTON CALEDON TOWN ON

Database: ***SPL***

Ref No: 106027
Year:
Incident Dt: 10/6/1994
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/6/1994
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: CALEDON TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: UNKNOWN
Incident Preceding Spill:

Municipality No: 21401
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved: FD

Environment Impact:	NOT ANTICIPATED
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	LAND
Incident Reason:	UNKNOWN
Incident Summary:	SOURCE UNKNOWN-UKN QTY DIESEL TO HWY 50,POOLED AT BTM OF HILL,CLEANED.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	
SAC Action Class:	
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	

Site: ***James Dick Construction Limited***
North West Corner Caledon ON

Database: ***SPL***

Ref No:	7788-8QKQQZ	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	16-JAN-12	***Discharger Report:***	
Dt MOE Arvl on Scn:	25-JAN-12	***Material Group:***	
MOE Reported Dt:	16-JAN-12	***Impact to Health:***	
Dt Document Closed:	25-MAY-12	***Agency Involved:***	

Site No:	
MOE Response:	Planned Field Response
Site County/District:	
Site Geo Ref Meth:	
Site District Office:	
Nearest Watercourse:	
Site Name:	Albion Vaughan rd and King St<UNOFFICIAL>
Site Address:	North West Corner
Site Region:	
Site Municipality:	Caledon
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	Other Transport Accident
Incident Preceding Spill:	
Environment Impact:	Confirmed
Health Env Consequence:	
Nature of Impact:	Soil Contamination
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	Sewage - Municipal/Private and Commercial

Incident Reason:	Spill
Incident Summary:	James Dick Construction:MVA, diesel to grass ~225L
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Motor Vehicle
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	James Dick Construction Limited

Site: ***ROTHSAY***
HWY 50, 1 KM NORTH OF KING ST IN BOLTON TRANSPORT TRUCK (CARGO) CALEDON TOWN ON

Database: ***SPL***

Ref No:	95576	***Municipality No:***	21401
Year:		***Nature of Damage:***	
Incident Dt:	1/22/1994	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	1/22/1994	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	REGION OF PEEL,CALEDON WORKS
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	CALEDON TOWN		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	CONTAINER OVERFLOW		
Incident Preceding Spill:			
Environment Impact:	CONFIRMED		
Health Env Consequence:			
Nature of Impact:	Multi Media Pollution		
Contaminant Qty:			
Contaminant Qty 1:			
Contaminant Unit:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	LAND		
Incident Reason:	ERROR		
Incident Summary:	ROTHSAY MEAT COMPANY- 5 M3 RENDERINGS TO HIGHWAY & SHOULDER.		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:			
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

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

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

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-Apr 2024

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-Apr 30, 2024

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 2022

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: Oct 2023

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-Apr 30, 2024

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 -May 2024

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-Oct 2024

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Sep 30, 2024

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database (ODHD) is offered by the Province of Ontario's Ministry of Mines. The dataset contains information for over 164,000 percussion, overburden, sonic and diamond-drill holes. The presence of assay results with cutoff values for gold, silver, copper, zinc, lead, nickel and platinum group elements is noted. Drill hole data are compiled from assessment files that have been submitted to the ministry in accordance with the Ontario Mining Act (OMA). Source assessment file numbers are captured for cross reference with the Ontario Assessment File Database (OAFD). 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. 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 - Aug 2024

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: Oct 2023

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-Sep 30, 2024

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 - Sep 30, 2024

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-Sep 30, 2024

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-Aug 31, 2024

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land 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, 2023

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: Oct 2023

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Sep 2024

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: Oct 31, 2021

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: Oct 2023

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-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2022

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 in 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: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Mar 31, 2022

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Feb 2024

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, 2022

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-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Feb 2024

National Pollutant Release Inventory - Historic: 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. This data holds historic records; current records are found in NPR2.

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-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the Ministry of Natural Resources (MNR) handed over to the Ontario Oil, Gas and Salt Resources (OGSR) 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 includes well owner/operator, location, permit issue date, and well cap date, license number, 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.

Government Publication Date: 1800-Aug 2024

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 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 - Sep 30, 2024

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-Sep 30, 2024

Ontario PFAS Spills: Provincial PFAS

This specific list of spills includes those incidents where one or more of the listed contaminants are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA), is originally sourced from the Ministry of the Environment, Conservation and Parks spills related data. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Mar 2024; May 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Feb 2024

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Feb 2024

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Feb 28, 2021

Potential PFAS Handlers from EASR: Provincial PPHA

The Ontario Environmental Activity and Sector Registry (EASR), described in Ontario Regulation 245/11, allows businesses with less complex operations - and hence not requiring an Environmental Compliance Approval - to register their activities with the Ontario Ministry of the Environment, Conservation and Parks (MECP). This list of potential PFAS handlers includes those EASR facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used.

Government Publication Date: Jun 30, 2024

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 PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Sep 30, 2024

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, 1992-2021

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). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Oct 2024

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-Apr 30, 2024

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

Government Publication Date: 1988-Jun 2024

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of 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.

Government Publication Date: 1990-Dec 31, 2021

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 - Apr 2024

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 - Sep 30, 2024

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: Dec 31 2023

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.

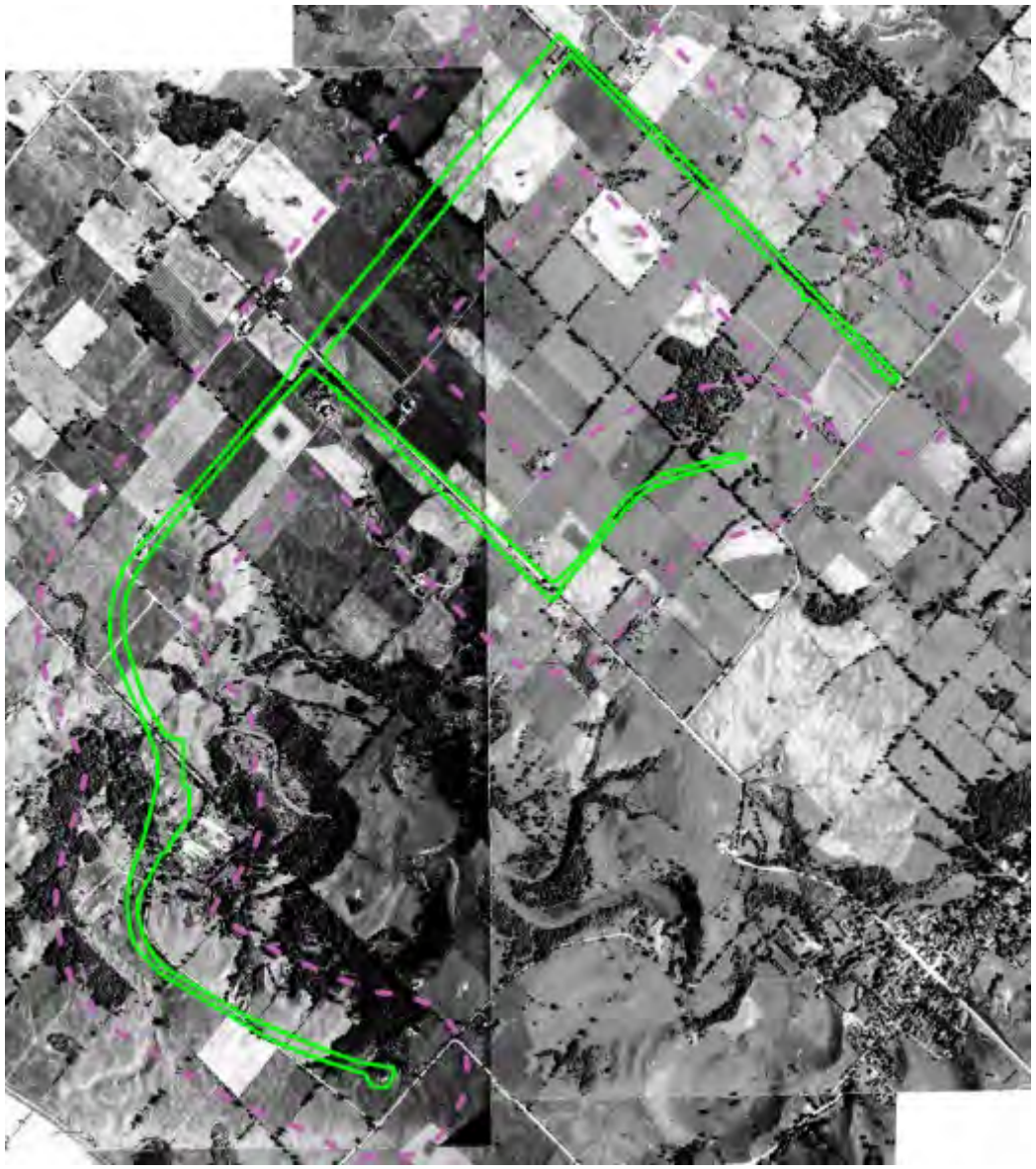
Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number 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.'

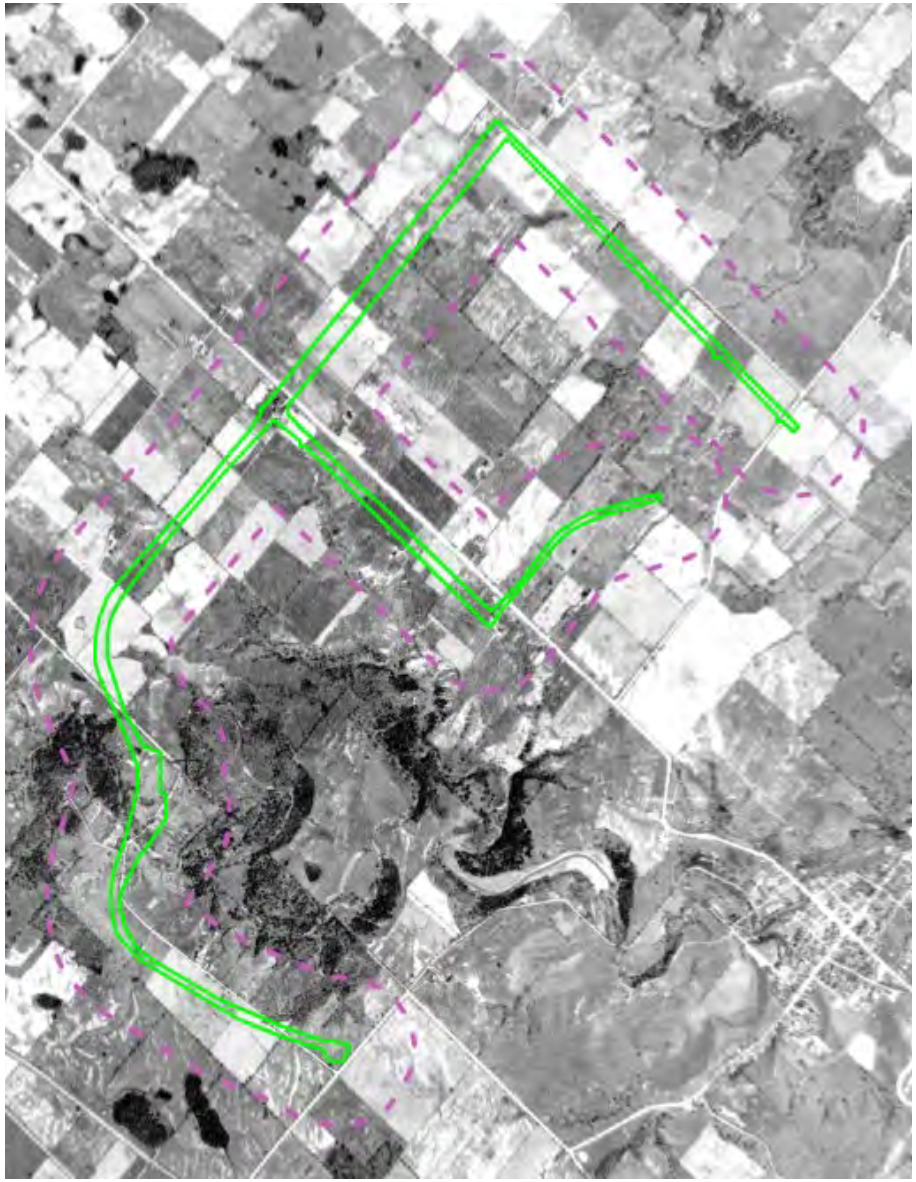
Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX E

Aerial Photographs



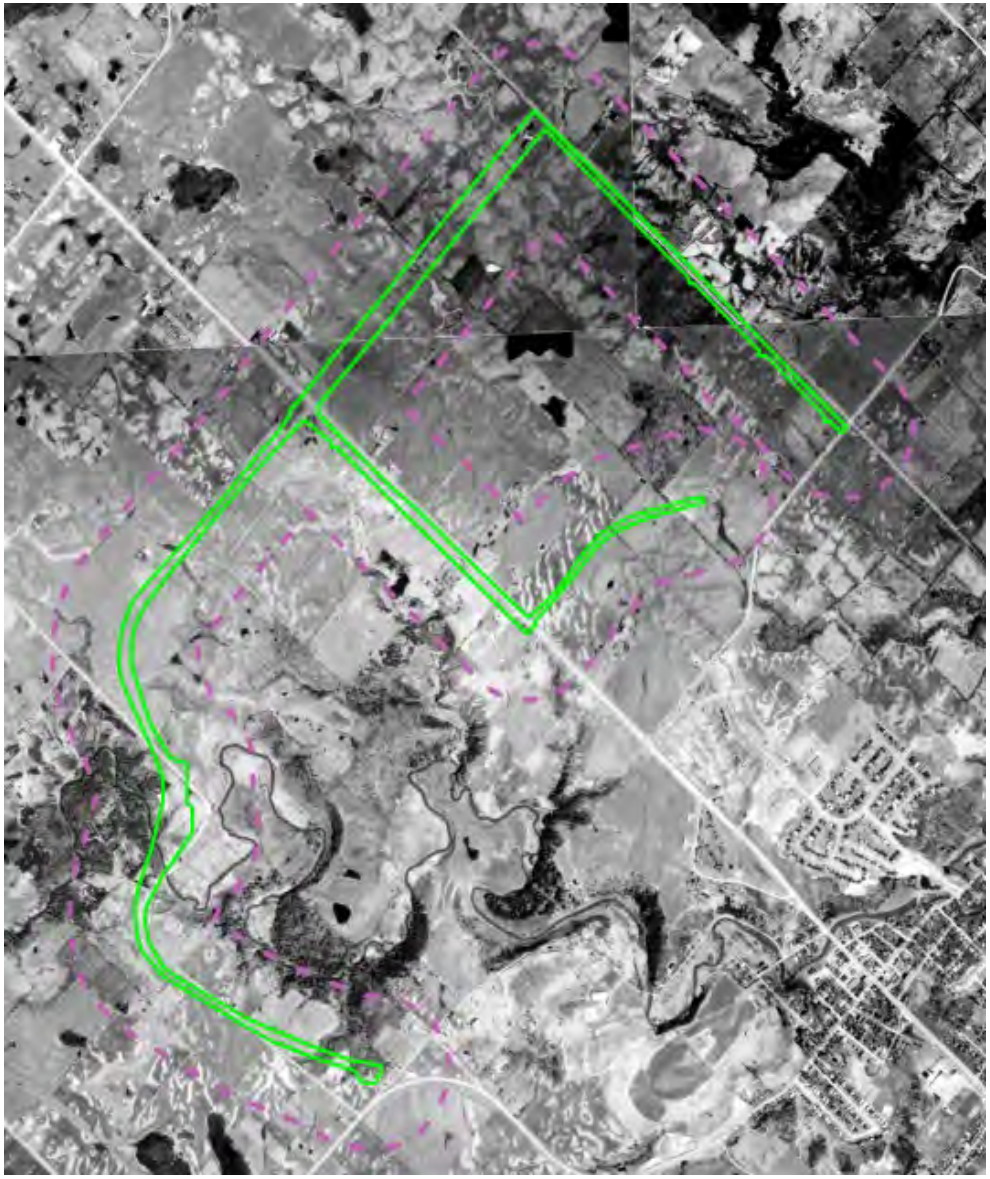
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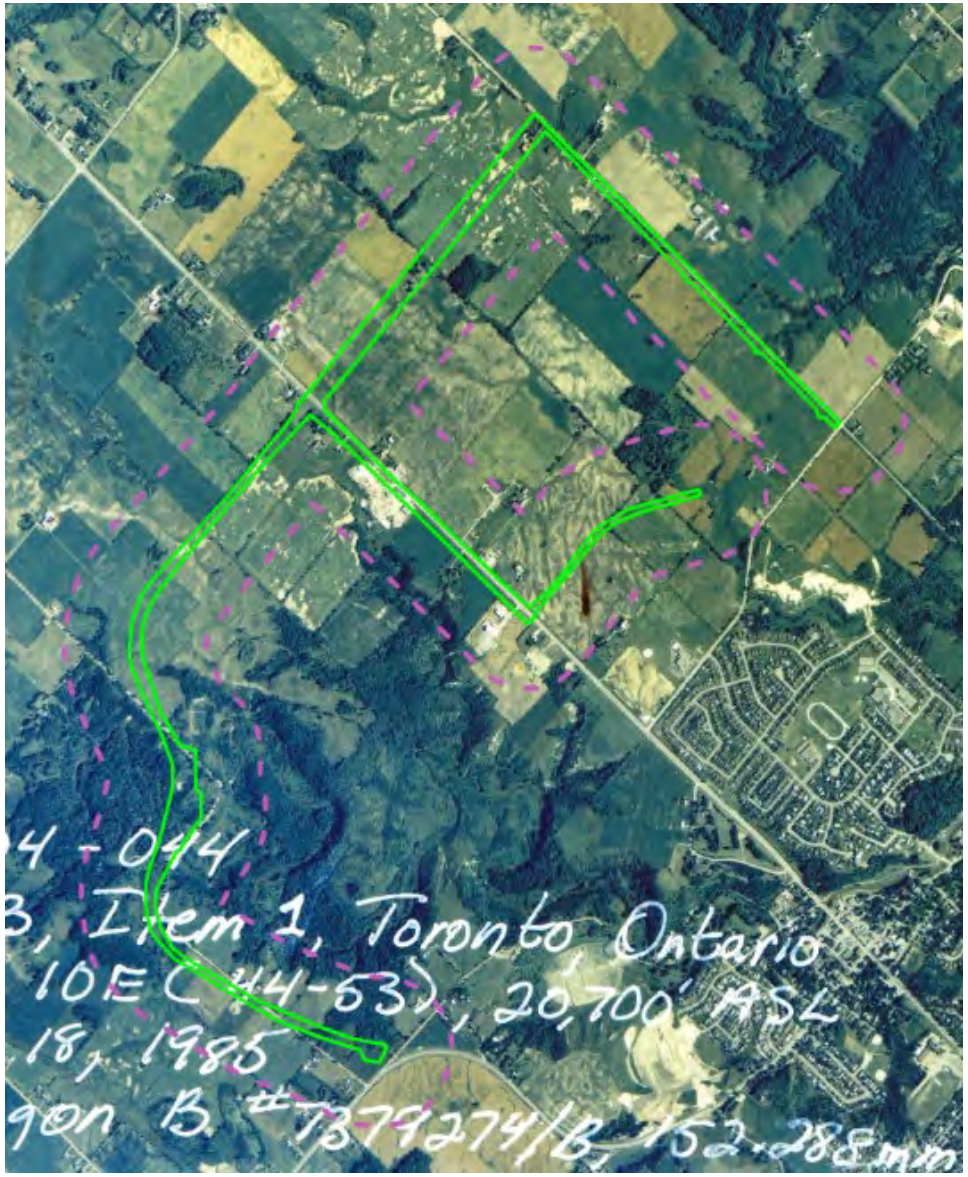
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Source: ERIS



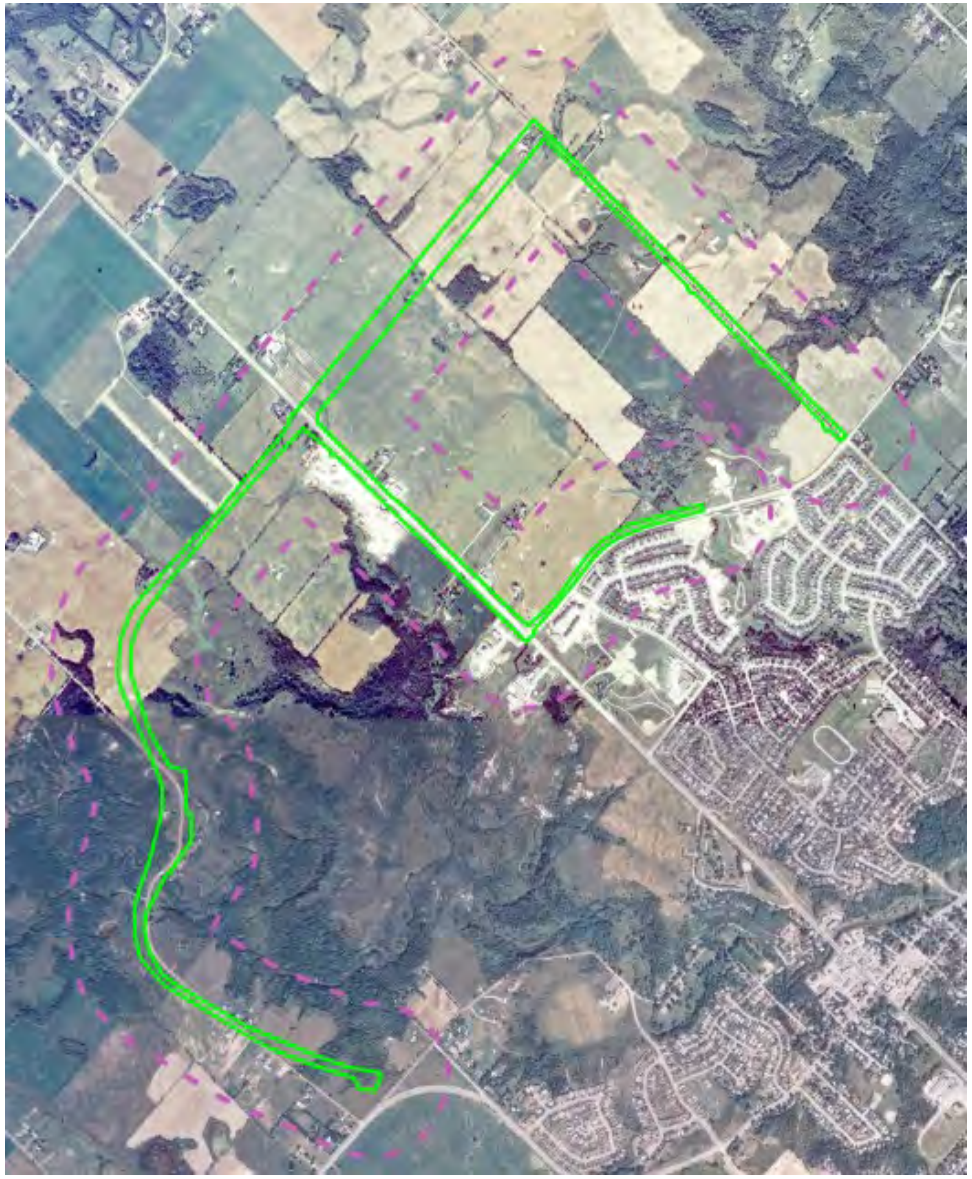
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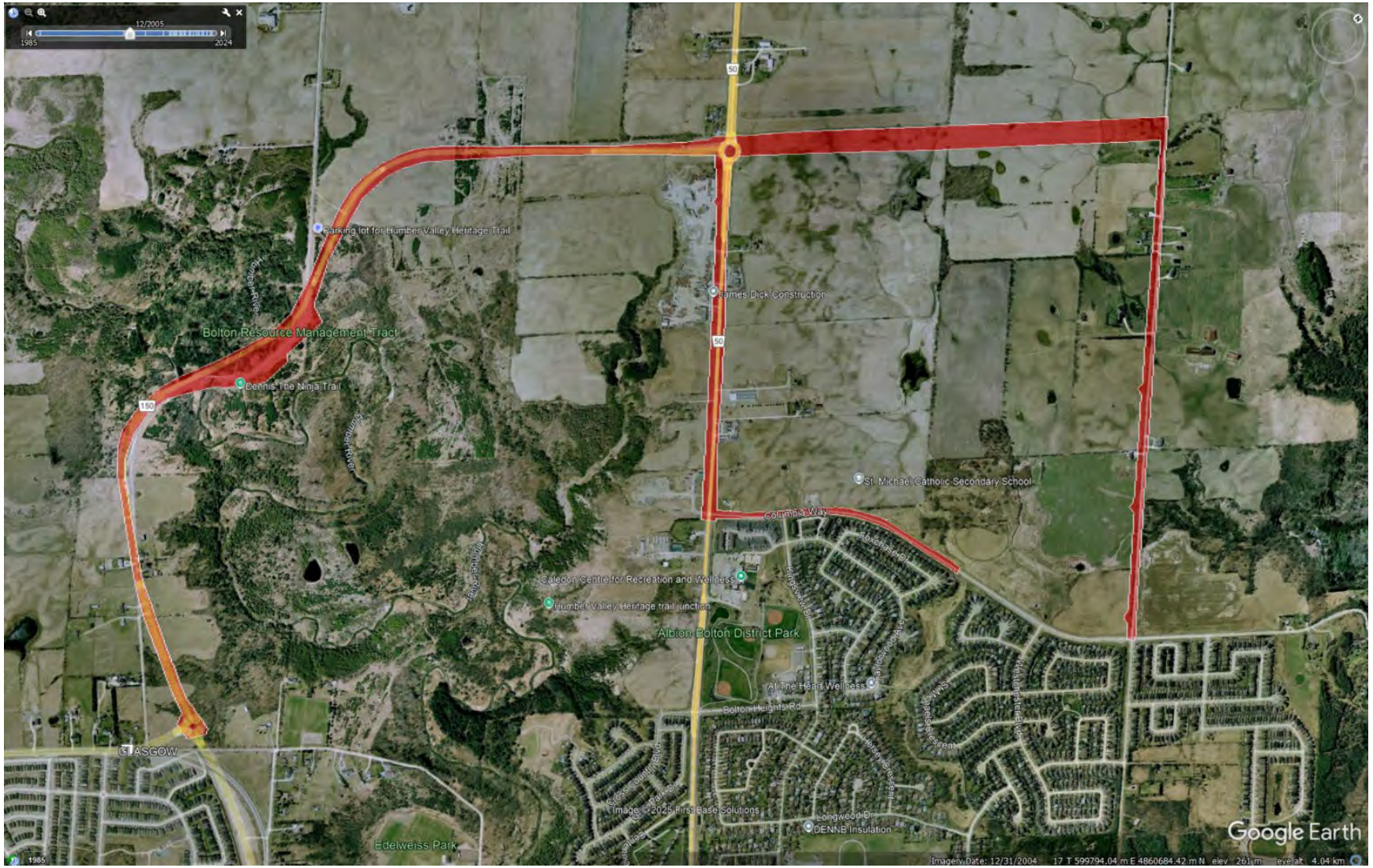
Year: 1974
Source: ERIS



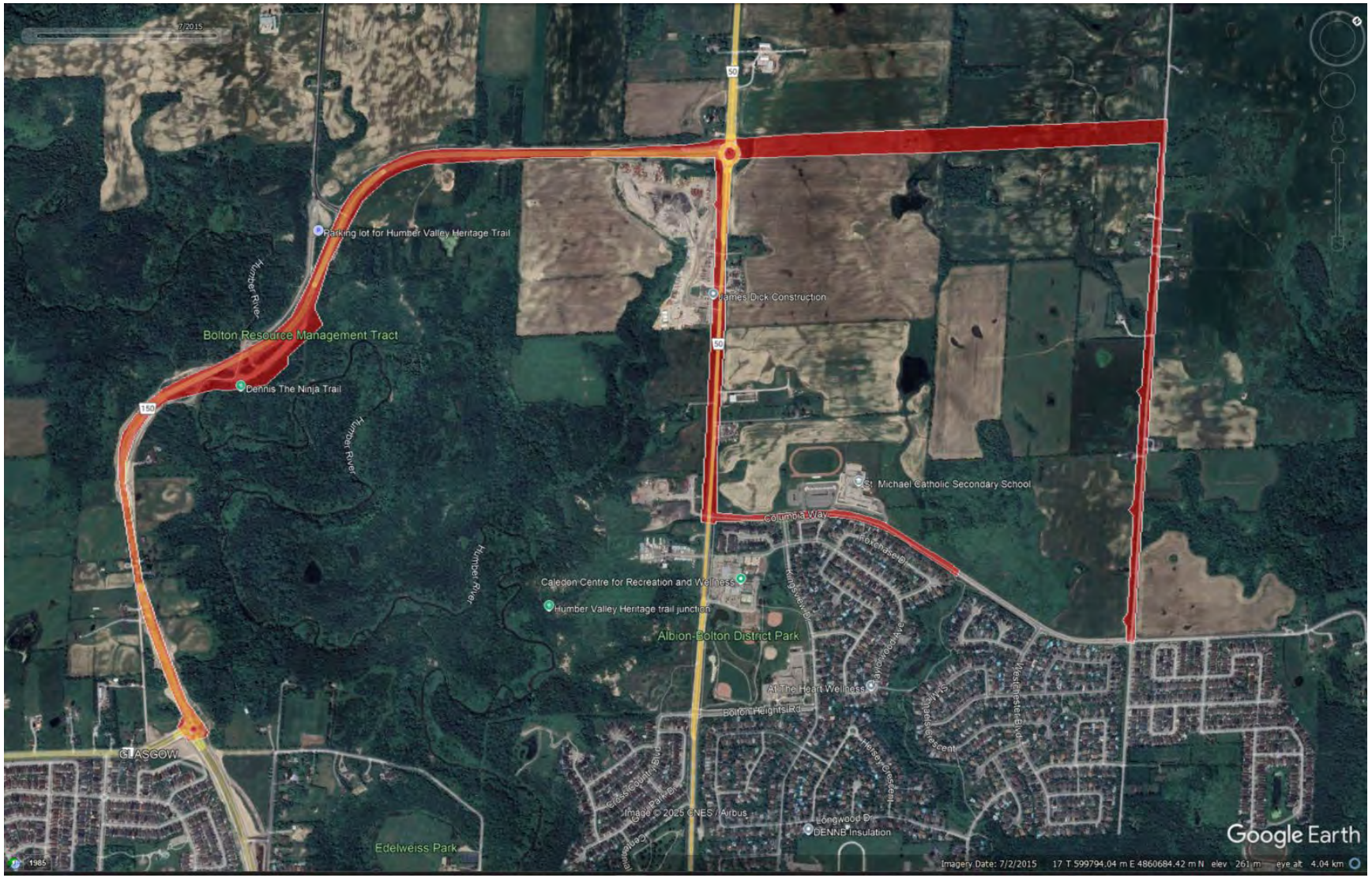
Year: 1985
Source: ERIS



Year: 1995
Source: ERIS



Year: 2005
Source: Google Earth Pro



Year: 2015
Source: Google Earth Pro

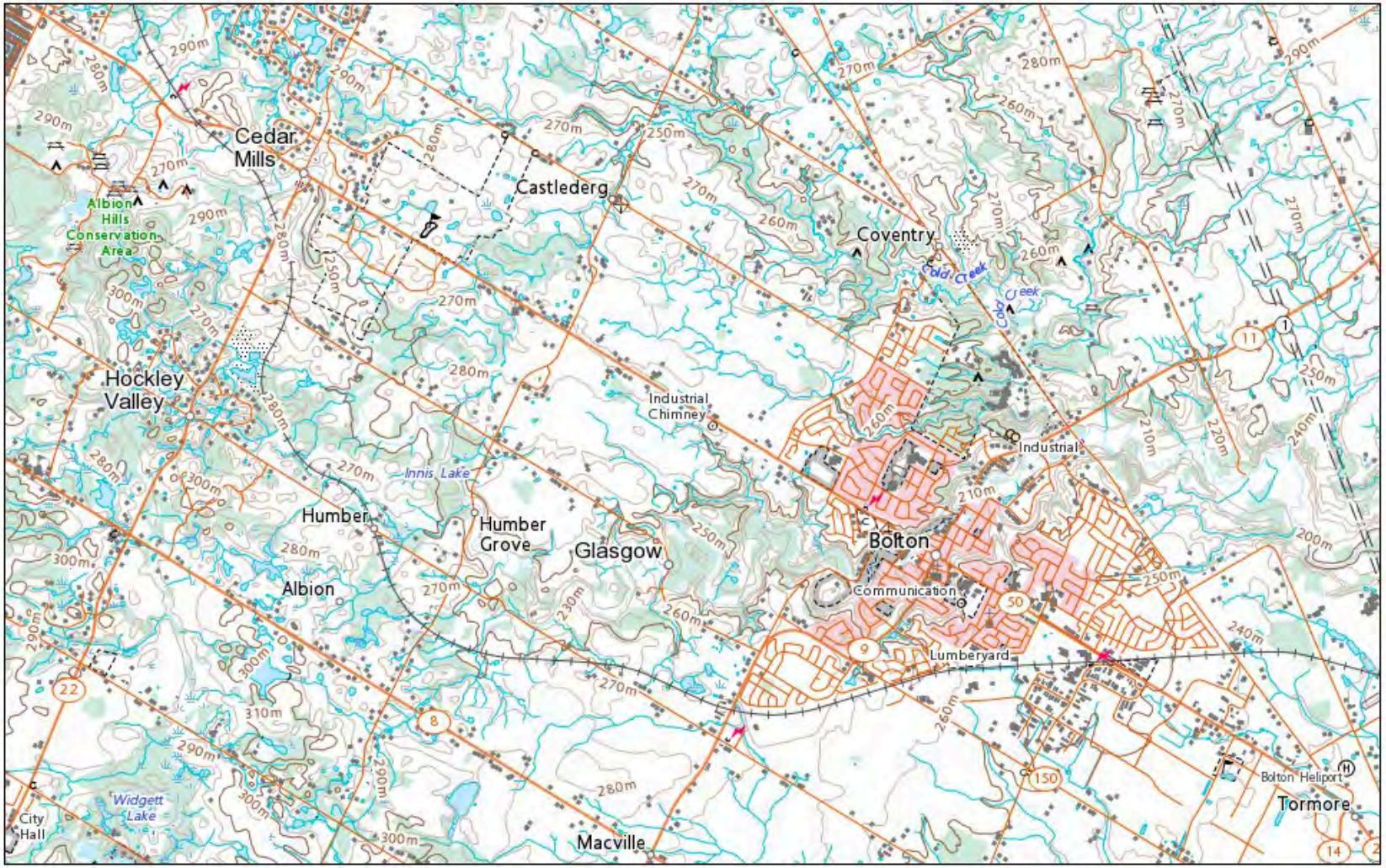


Year: 2022
Source: ERIS

APPENDIX F

Topographic Map

Toporama



November 27, 2024

1:55,563

0 0.475 0.95 1.9 mi

0 0.75 1.5 3 km

Natural Resources Canada Ressources naturelles Canada

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Canada

APPENDIX G

Site Photographs



Photo 1: View to the southwest along Emil Kolb Parkway, and the bridge structure that crosses over the Humber River within the central portion of Zone 1 of the Project Area. The proposed SPS Site was located to the south of the roadway.



Photo 2: View to the northeast along Emil Kolb Parkway within the central portion of Zone 1 of the Project Area. The proposed SPS Site was located to the south of the roadway. A possible berm of fill materials was observed near the historical location of the Duffy's Lane roadway (prior to the construction of Emil Kolb Parkway) to the south of the roadway.



Photo 3: View to the north of the Emil Kolb Parkway bridge structure that crossed the Humber River. Fill materials were likely imported for the construction of the bridge approach embankments. Asphalt paved walking trails were observed within the APU Study Area.



Photo 4: View to the southwest along Emil Kolb Parkway, and the bridge structure that crosses over the Humber River within the central portion of Zone 1 of the Project Area. A second bridge structure was observed to the south of the Emil Kolb Parkway bridge that appeared to have been constructed for the historical Duffy's Lane roadway.



Photo 5: View to the northeast of the berm and possible historical fill materials associated with the former Duffy's Lane alignment within the central portion of Zone 1 of the Project Area. The berm was observed within the proposed SPS Site footprint.



Photo 6: View to the west near the eastern portion of Zone 1 of the Project Area. Ditches were observed on both sides of Emil Kolb Parkway. Adjacent land uses appeared to primarily include agricultural uses.



Photo 7: View to the south from Emil Kolb Parkway in the eastern portion of Zone 1, where the James Dick Construction yard was observed adjacent to the south of the Project Area. Multiple large stockpiles of soil and granular materials, and storage of various construction equipment and trucks were observed on the property.



Photo 8: View to the west of the James Dick Construction Yard, from Zone 4 of the Project Area. Multiple large stockpiles of soil and granular materials, and storage of various construction equipment and trucks were observed on the property. A fuel AST was observed near the weigh scales at the property, located adjacent to the west of Zone 4 of the Project Area.



Photo 9: View to the west of a possible vehicle / heavy equipment repair garage observed on the James Dick Construction yard property, located adjacent to the west of Zone 4 of the Project Area.



Photo 10: View to the east of an Esso Gas Station, located adjacent to the east of Zone 4 of the Project Area. Multiple fuel USTs were reported at the gas station. An automotive repair garage was observed adjacent to the south of the gas station.

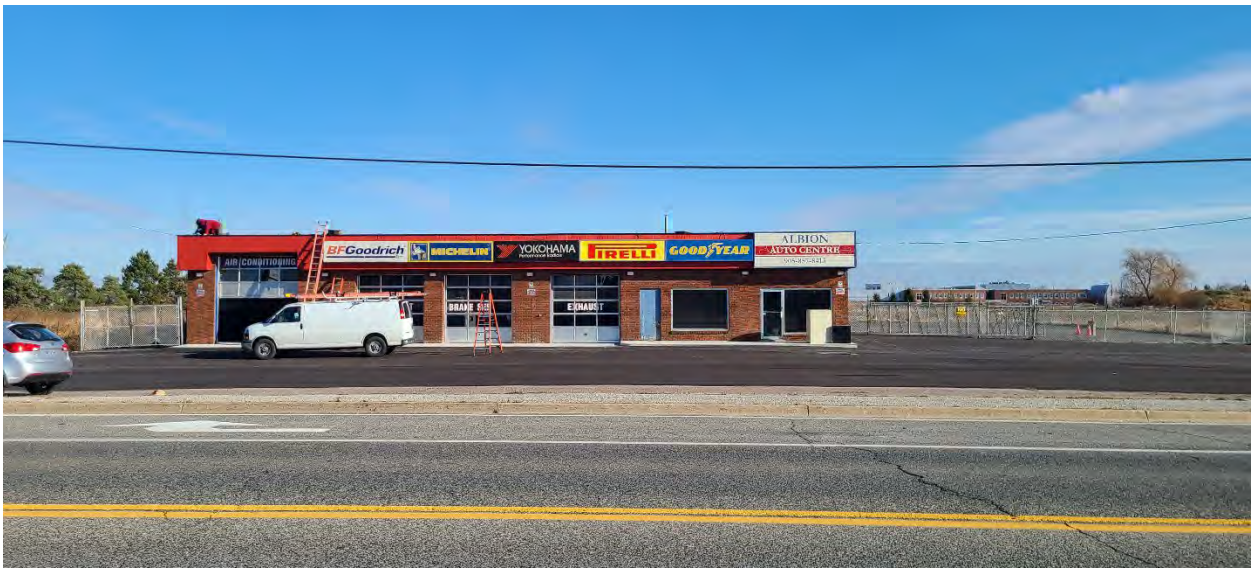


Photo 11: View to the east of an automotive repair garage located adjacent to the east of Zone 4 of the Project Area.



Photo 12: View to the west of a Town of Caledon Public Works Yard, observed adjacent to the west of the southern portion of Zone 4 of the Project Area. Several fuel ASTs, and possible maintenance garages for Town of Caledon trucks and construction equipment were observed. A possible salt storage quonset hut was observed on the property.

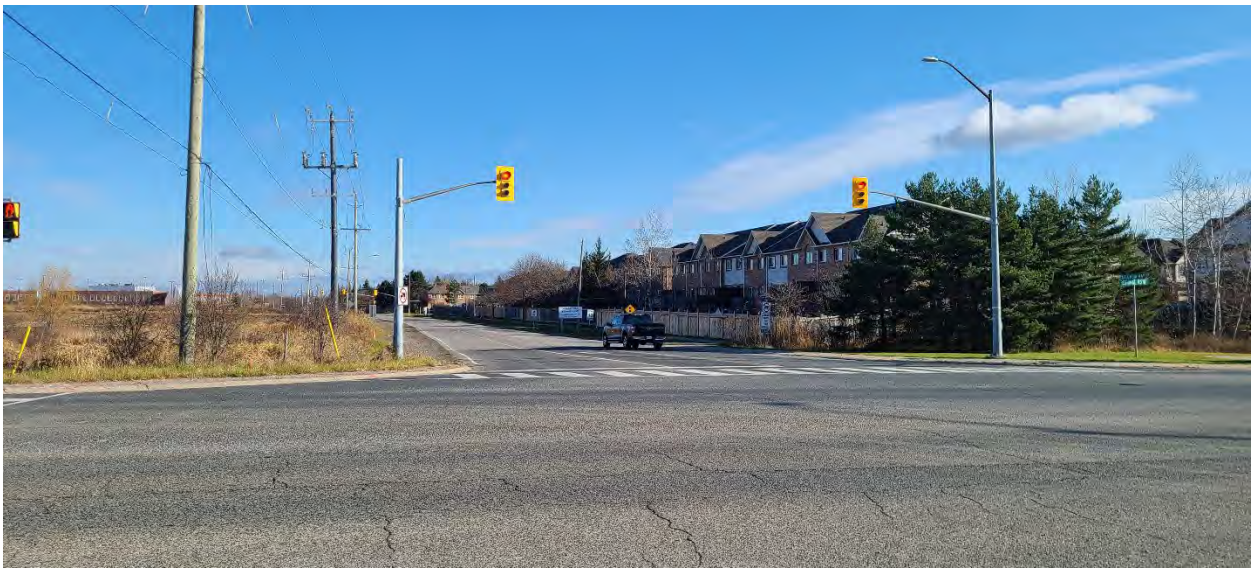


Photo 13: View to the east of the intersection of Highway 50 and Columbia Way (intersection of Zone 4 and Zone 5 of the Project Area). Various underground utilities were noted within the intersection, which appeared to continue to the east along Columbia Way. A residential subdivision was observed to the south of Columbia Way.



Photo 14: View to the east along Columbia Way (Zone 5 of the Project Area). St. Michael Catholic Secondary School (institutional land use) was observed to the north of the Project Area.



Photo 15: View to the north along Mount Hope Road near the southern limits of Zone 3 of the Project Area. Agricultural properties were observed adjacent to the east and west of the Project Area within the southern portion of Zone 3.



Photo 16: View to the east of a residential property located at 14383 Mount Hope Road, where evidence of a fuel oil storage tank was observed. Fuel fill and vent pipes were noted on the exterior of the building.



Photo 17: View to the east of the western limits of Zone 2 of the Project Area near the intersection of Emil Kolb Parkway and Highway 50. Zone 2 of the Project Area comprised portions of larger overall agricultural properties.



Photo 18: View to the west of the western limits of Zone 2 of the Project Area near the intersection of Emil Kolb Parkway and Highway 50. Zone 2 of the Project Area comprised portions of larger overall agricultural properties.



Photo 19: View to the south of the intersection of Emil Kolb Parkway and Highway 50. The intersection (roundabout) marks the intersection of project Zones 1, 2, and 4.



Photo 20: View to the east of the 14475 Highway 50 property within Zone 2 of the Project Area . A post and wire fence was observed along the northern portion of Project Area that separated two agricultural properties. A monitoring well was observed near the fence line.



Photo 21: View to the north of an agricultural property located to the north of the western portion of Zone 2 of the Project Area. Several agricultural buildings and a farmhouse were observed.



Photo 22: View to the east of the agricultural property located to the north of the western portion of Zone 2 of the Project Area. Several large plastic totes were observed near the agricultural buildings. It is possible that the totes are used for the mixing and application of pesticides and herbicides.



Photo 23: View of a creek that was observed near the eastern limits of the 14475 Highway 50 property in the central portion of Zone 2 of the Project Area. The Creek meandered in a general southerly direction through the Project Area and led into a wetland area that extended to the south of the Project Area.



Photo 24: View to the southwest of the creek and wetland area that was observed near the eastern limits of the 14475 Highway 50 property, in the central portion of Zone 2 of the Project Area.



Photo 25: View to the south of the wetland area that was observed within the eastern portion of the 14475 Highway 50 property (Zone 2 of the Project Area). A possible monitoring well /staff gauge was observed within the wetland.



Photo 26: View to the east of the eastern portion of the 14475 Highway 50 property. A wooded area was observed to separate the agricultural property from an adjacent agricultural field. A creek and wetland area were observed.



Photo 27: View to the east of the 14530 Mount Hope Road property (eastern portion of Zone 2 of the Proejct Area) from near the western limits of the property. Zone 2 of the Project Area comprised a portion of a larger agricultural field.



Photo 28: View to the southeast of the 14530 Mount Hope Road property (Zone 2 of the Project Area). A wetland area was observed near the western limits of the property.



Photo 29: View to the southwest of a wetland area located within the 14530 Mount Hope Road property (Zone 2 of the Project Area).



Photo 30: View of the wetland area located within the western portion of the 14530 Mount Hope Road property. Standing water was observed in the wetland area.



Photo 31: View to the east of the central portion of the 14530 Mount Hope Road property (Zone 2 of the Project Area). A drainage swale / wetland area meandered through the Phase I Property. Standing / flowing was not observed in all areas of the drainage swale, indicating that the swales were subject to ephemeral water flows likely during high rainfall events or springtime snowmelt runoff.



Photo 32: View to the west of the 14530 Mount Hope Road property (Zone 2 of the Project Area) from the central portion of the Site. A drainage swale meandered through the Project Area and appeared to lead to several wetland areas.



Photo 33: View of a natural spring that appeared to flow from the soil into the drainage swale and wetland area within the central portion of the 14530 Mount Hope Road property. Orange discoloration of the soils and a possible surface sheen on the water was observed. The discolouration and sheen are consistent with the presence of iron-oxidizing bacteria and anaerobic groundwater conditions, which could also be associated with the historical agricultural uses of the Site.



Photo 34: View of a wetland area within the central portion of the 14530 Mount Hope Road property (downgradient of the observed natural spring pictured above). Water appeared to meander to the southeast through the Project Area.



Photo 35: View to the southeast of the eastern limits of Zone 2 of the Project Area. Mount Hope Road was observed near the eastern limits of the 14530 Mount Hope Road property.



Photo 36: View of concrete / masonry stone debris that was observed within the northern portion of the Project Area (Zone 2) near the eastern limits of 14530 Mount Hope Road property. A former building structure was observed at this location in the historical aerial photographs.

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Phase I Environmental Site Assessment

Part of 14475 Highway 50
Bolton Water and Wastewater Capacity Improvements
Schedule C Class Environmental Site Assessment
Town of Caledon, Ontario

Client Name: GEI Consultants Canada Ltd.
Date: July 25, 2025
File: 48561

Suite 202 - 1908 Ironoak Way, Oakville, ON L6H 0N1 | Phone: (905) 829-8666

EXECUTIVE SUMMARY

Thurber Engineering Ltd. (Thurber) was retained by GEI Consultants Canada Ltd. (GEI) on behalf of Peel Region (the Region) to prepare a Phase I Environmental Site Assessment (ESA) for a portion of the overall property located at 14475 Highway 50, where a proposed easement to construct and service proposed water and sewer infrastructure is planned. The Phase I Property (Site) comprised an L-shaped portion of the property that was approximately 680 m long and 60 m wide, with the L-shaped portion extending an additional 100 m to the south, adjacent to Highway 50, in the Town of Caledon (Bolton), Ontario.

The purpose of the Phase I ESA was to identify evidence of actual and/or potential contamination at the Site which may impact the soil and groundwater conditions of the Phase I Property. The Phase I ESA was completed for due diligence purposes in accordance with the general components of CSA Standard Z768-01 *Phase I Environmental Site Assessment* (April 2003, reaffirmed in 2022). The Phase I ESA was requested by the Region as part of its due diligence in support of a potential easement acquisition for the Bolton Water and Wastewater Capacity Improvements Project.

The Phase I ESA comprised a desktop review of available historical records, responses to an interview questionnaire provided by the site representative, a reconnaissance of the Site, and a reconnaissance of the Phase I Study Area from publicly accessible locations. The collective information was used to assess and evaluate past and present uses, and conditions and activities within the Phase I Study Area to identify potential sources of contamination that may impact the Site or have the potential for contaminant migration onto the Site.

The Site has historically been used for agricultural uses since at least 1946 (first available aerial photograph for the Site). At the time of the Site Reconnaissance, the Site consisted of a portion of an agricultural property. With respect to the Phase I Study Area, the surrounding properties appeared to have generally consisted of mixed agricultural and residential property uses, and to a lesser extent industrial land uses (James Dick Construction) to the west of the Phase I Property.

Based on the review and evaluation of information obtained through the Phase I ESA, historical and current activities were identified on-Site and within the Phase I Study Area for the Site that are considered potential sources of contamination that may impact the subsurface conditions at the Site.

The identified potential sources of contamination include the presence of potential pesticides that were applied to the agricultural fields, importation of fill materials of unknown environmental quality used to construct the historical access road, the adjacent industrial facility (James Dick Construction), and the potential for fuel oil storage and use as a heating source at current and historical buildings in the Phase I Study Area. In addition, impacts associated with the historical

use of the adjacent roadway (i.e. potential fill materials of unknown environmental quality, application of de-icing salts, and minor vehicle fluid leakage) were considered.

A subsurface investigation (i.e. Phase II ESA) involving sampling and analysis of soil and groundwater will be required to confirm or refute the presence of contamination from the identified potential sources of contamination at the Site and on surrounding properties within the Phase I Study Area.

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Site Photographs

1. INTRODUCTION

Thurber Engineering Ltd. (Thurber) was retained by GEI Consultants Canada Ltd. (GEI) on behalf of the Peel Region (the Region) to prepare a Phase I Environmental Site Assessment (ESA) for a portion of an overall property with a municipal address of 14475 Highway 50, in the Town of Caledon (Bolton), Ontario. The Phase I ESA was requested in support of a potential easement acquisition for the Bolton Water and Wastewater Capacity Improvements Project.

The purpose of the Phase I ESA is to identify evidence of actual and/or potential contamination at the Site resulting from past and present potential sources of contamination on the Site and the surrounding properties that may impact the underlying soil and groundwater conditions and pose current or future environmental liability associated with acquiring the easement through the Site.

The Phase I ESA was completed for due diligence purposes and was not prepared for the filing of a Record of Site Condition (RSC) under Ontario Regulation (O. Reg.)153/04, as amended, for the Site. The findings of the Phase I ESA will be evaluated to determine if a Phase II ESA is necessary, and if so, to provide a basis for carrying out a Phase II ESA.

The Study Area for the Phase I ESA were considered to include surrounding properties within a 250 m buffer from the Site boundaries.

It is a condition of this report that Thurber's performance of its professional services is subject to the attached Statement of Limitations and Conditions.

This Report uses the International System of Units (SI Units).

1.1 Scope of Work

The Phase I ESA was conducted in accordance with the general components of CSA Standard Z768-01 *Phase I Environmental Site Assessment* (April 2003, reaffirmed in 2022), and involved the following tasks:

- Provide a general description of the Site;
- Conduct a desktop review of various historical records pertaining to the Site and surrounding properties to obtain an understanding of the Site, and past and present uses, conditions and activities within the Phase I Study Area;
- Conduct a Site reconnaissance to observe existing property uses and conditions at the Site, and a reconnaissance of the Phase I Study Area from publicly-accessible areas;

- Conduct an interview with the Site Representative for the Phase I Property to gain an understanding of the current and historical uses of the Site, and activities that may result in potential sources of contamination within the Site;
- Review and evaluate the findings of the records review, interview, and the Site reconnaissance to identify past and present activities on the Site and the surrounding properties that are considered to be potential sources of contamination that may impact the Site or have the potential for contaminant migration onto the Site; and,
- Prepare this report documenting the activities, findings and conclusions of the Phase I ESA.

2. SITE DESCRIPTION

The Phase I Site comprised an L-shaped portion of the overall 14475 Highway 50 property that was approximately 680 m long (east-west direction) and 60 m wide (north-south direction), with the L-shaped portion extending an additional 100 m to the south, adjacent to Highway 50, in the Town of Caledon (Bolton), Ontario. The Site consisted of agricultural lands.

3. RECORDS REVIEW

A records review was conducted by obtaining and reviewing the following information pertaining to the Site and surrounding properties located within the Phase I Study Area:

- Aerial photographs pertaining to the Site and surrounding properties;
- Fire Insurance Plans (FIPs) from Verisk;
- Title Searches and Land Registry information obtained from ERIS and the Ontario Land Registry Office;
- City Directory report from ERIS;
- An ERIS Database Report, which included searches of various federal, provincial and private source databases for records of potential environmental concern such as spills, former waste disposal sites, registration of underground/aboveground fuel storage tanks and environmental infractions;
- Previous Environmental Reports (*Limited Phase I ESA, Bolton North Hill Landowners Group, Prepared by Dillon Consulting Ltd., dated November 5, 2021);* and,
- Various topographic, geologic and hydrogeologic maps pertaining to the Site and the surrounding Phase I Study Area.

3.1 Aerial Photographs

Aerial photographs were reviewed from an ERIS search which referenced several databases, and were supplemented with aerial imagery from Google Earth Pro. The available aerial photographs were reviewed on an approximate 10 to 15-year interval from the earliest available year, 1946. The reviewed photographs are attached in Appendix B. A description of the observations made on the aerial photographs are provided in the following table.

The scale of the photographs typically did not permit a detailed study of the Site and surrounding properties; however, the following observations were made with respect to the general land use and activities on the Site and in the surrounding properties within the Study Area, as presented in the following table.

Table 3-1: Relevant Findings from Aerial Photographs

Aerial Photograph Observations		
Year	**Phase I Property**	**Surrounding Properties**
1946	The Site appeared to consist of agricultural lands. A driveway / access road was observed to intersect the western portion of the Site (oriented in a north-south direction across the Site), and appeared to extend from a building located to the south of the Site (appeared to be on the overall 14475 Highway 50 Property). A possible fence or property line between the Phase I Property and an adjacent agricultural field was observed along the northern limits of the Site. A creek was observed in the eastern portion of the Site. The creek meandered in a general southerly direction and appeared to flow into a wetland located to the south of the Phase I Property.	Properties within the Phase I Study Area generally appeared to comprise agricultural lands. A rural roadway was observed adjacent to the west of the Phase I Property and appeared to be generally consistent with the present-day Highway 50 alignment. Wetland-type areas, and possible drainage swales were observed within the Phase I Study Area. A possible residential or agricultural building was observed on a portion of the overall 14475 Highway 50 Property, located to the south and downgradient of the Phase I Property. Additional residential and/or agricultural buildings were observed to the west and to the north of the Site within the Phase I Study Area.
1951	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1946.
1960	No significant changes to the Site were observed since the 1946 photograph.	Two residential-type buildings appeared to have been constructed to the northwest of the Site since the 1951 photograph. Driveways to the residential buildings appeared to connect to Highway 50.
1974	No significant changes to the Site were observed since the 1946 photograph.	Earthworks to the west of Highway 50, in the southwestern portion of the Phase I Study Area

Aerial Photograph Observations		
Year	**Phase I Property**	**Surrounding Properties**
		were observed that appeared to be consistent with the location of the present-day James Dick Construction Yard. Modifications were also made to the agricultural buildings in the northern portion of the Phase I Study Area.
1985	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1974.
1995	No significant changes to the Site were observed since the 1946 photograph.	The construction yard within the southwestern portion of the Phase I Study appeared to have expanded further to the north.
2005	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1995.
2015	No significant changes to the Site were observed since the 1946 photograph.	Earthworks and construction related to a new roadway alignment (Emil Kolb Parkway) was observed to the west of the Site. A roundabout appeared to have been constructed at the intersection of Highway 50 and Emil Kolb Parkway. The construction yard within the southwestern portion of the Phase I Study appeared to have expanded further to the north towards Emil Kolb Parkway.
2022	No significant changes to the Site were observed since the 1946 photograph.	The construction of Emil Kolb Parkway appeared to have been completed within the western portion of the Phase I Study Area.

A review of the aerial photographs indicated that the Site has generally been surrounded by agricultural land use since the earliest available records (1946), and to a lesser extent included an industrial property (contractor yard / aggregate supplier) adjacent to the west of the Site since at least 1995. Review of the earliest available aerial photograph shows the Site and Phase I Study Area in a configuration that appears similar to the present-day Site and Phase I Study Area, aside from the removal of the observed access road in the western portion of the Site. The review of aerial photographs identified the following potential sources of contamination; potential application of pesticides to the agricultural lands, importation of fill materials of unknown quality for the construction of the driveway/access road through the Phase I Property, and the operation of a contractor / aggregate supplier located adjacent to the west of the Phase I Property.

3.2 Fire Insurance Plans

Fire Insurance Plans (FIPs) for the Site were ordered through ERIS and completed by Verisk. The search returned no FIPs within the Site or neighboring Properties. A copy of the Verisk EnviroScan Report is included in Appendix C.

3.3 Chain of Title and Land Registry Information

Based on a review of the available chain of title and land registry information, the overall property was transferred from Crown Land to a private owner in 1847. Various private land owners were reported between 1847 to 1968. A 20 year lease on the overall property was registered to Supertest Petroleum Corporation Limited in 1956. Based on a review of historical records from other sources, no gas stations, bulk fuel storage facilities, refining facilities, or exploratory/petroleum production wells were located on the Property. After 1968 the land was sold and transferred between several developers and holding companies. The land is currently owned by Oakbank Estates Inc. The Chain of Title and Land Registry documents for the Site are included in Appendix D.

3.4 City Directories

A search of City Directories for the Site and the Phase I Study Area was conducted by ERIS at the request of Thurber. In addition to the Site and Phase I Study Area, the City Directory Report includes information for a larger Study Area (beyond the limits of the Site and the Phase I Study Area) that included the proposed water and sewer infrastructure alignments for the overall Bolton Water and Wastewater Capacity Improvements Project. The City Directory search results are presented in Appendix E. A summary of the relevant findings and associated Potential Sources of Contamination (PSCs) is provided in the following table.

Table 3-2: City Directories Report Findings

Municipal Address	Commercial Listing	Directory Years	PSC		
			Y	N	Comments
14444 Highway 50	James Dick Construction	2012 - 2017	✓		A reported construction contractor located adjacent to the southwest of the Site (reported as 14442 Highway 50 in other historical records).

3.5 ERIS Database Report

A Database Report was obtained from ERIS to collect environmental source information for the Phase I Property, and surrounding properties within the Phase I Study Area. In addition to the Site and Phase I Study Area, the ERIS Database Report includes information for a larger Study Area (beyond the limits of the Site and the Phase I Study Area) that included the proposed water and sewer infrastructure alignments for the overall Bolton Water and Wastewater Capacity

Improvements Project. The ERIS Database Report, which is presented in Appendix F, includes information collected from a search of available databases maintained by federal, provincial institutions and the private sector, including the Technical Standards and Safety Authority (TSSA). A summary of the significant findings of the ERIS Database Report is provided in the following table:

Table 3-3: Relevant Findings from ERIS Database Report

Relevant Findings from ERIS Database Report						
Municipal Address	**Database**	**ERIS Map Key**	**Findings**	**PSC**		
				Y	**N**	**Comments**
14475 Highway 50	SPL INC	7	An incident and spill report were filed at the property in 2014. The spill/incident was related to oil/fuel oil encountered in an excavation for an underground cable installation. The source and quantity of the fuel was not confirmed in the listings.		✓	The spill was reported approximately 180 m to the south and downgradient of the Phase I Property and is considered low risk to soil impacts within the Site.
14442 Highway 50	SPL SCT	5	A spill of 20 L of non-PCB containing transformer oil to the ground was reported in 1999. Caledon Sand & Gravel Inc., James Dick Construction Ltd., Hamilton Ready Mix Ltd. were listed in the manufacturers database as a sand and gravel quarry, and ready-mix concrete plant. The facility was established in 1964. A spill of 500 L of diesel and hydraulic oil to the ground (as a result of a truck fire) was reported in 2011.	✓		A sand and gravel quarry, and concrete manufacturing facility with reported spills of petroleum products and transformer oil located adjacent to the west of the Phase I Property.

3.6 Previous Reports

A previously completed Phase I ESA was provided by the Site Representative that provided the interview response as part of this Phase I ESA. The report (*Limited Phase I ESA, Bolton North Hill Landowners Group, Reference No. 17-6406*, Prepared by Dillon Consulting Limited., dated November 2021.) included information related to the Site and surrounding properties within the Phase I Study Area.

Pertinent information from the report is summarized as follows:

- The Limited Phase I ESA was prepared for eight properties within the Town of Bolton, and included an assessment of the overall property identified with the municipal address of 14475 Highway 50. A portion of the overall 14475 Highway 50 property is located within the Phase I Property for this Phase I ESA.

- The Site was reported to have been historically used for agricultural uses. No building structures were reported or observed within the current Phase I Property. However, three building structures including a residential dwelling, shed, and barn, were reported on the overall 14475 Highway 50 property (located to the south and downgradient of the current Phase I ESA Property).

- One potentially contaminating activity involving the potential application of pesticides to the agricultural fields was identified for the portion of the Site located within the Phase I Property.

- Additional PCAs that were reported in the Phase I ESA (located within the Phase I Study Area) included observed debris and rubble, abandoned vehicles, drums, and totes adjacent to the building structures located on the overall property. These additional PCAs were identified at a location on the overall 14475 Highway 50 property, approximately 230 m south of the Phase I Property for this Phase I ESA and are not considered to be a potential source of contamination.

- A recommendation to complete a Phase Two ESA was provided in the Report. The Phase Two ESA (if completed) was not provided to Thurber for review.

Thurber also completed an Assessment of Past Uses (APU) Report in support of the overall Bolton Water and Wastewater Capacity Improvements Class EA Assessment. The APU is presented under separate cover. Pertinent information from the report is summarized as follows:

- Information obtained from ERIS, and observations made during the Site Reconnaissance identified that residential properties located to the south of the Phase I Property utilized fuel oil burning furnaces as a heating source. Several spills related to fuel oil storage tanks were reported at residential properties to the south of the Site. The tank details were not included in the ERIS Database Report, and it is likely that additional properties within the Study Area have historically used, or currently use, fuel oil as a heating source. In addition, several large plastic totes were observed at an agricultural property (14685 Highway 50) located to the north of the Phase I Property. The totes appeared to be consistent with pesticide mixing, storage, and bulk applications.

3.7 Topography, Hydrogeology, Geology

A topographic map was obtained and reviewed from The Atlas of Canada – Toporama, presented by Natural Resources Canada and supplemented with elevations presented in Google Earth Pro. A copy of the map is presented in Appendix G, which indicates that the ground surface within Phase I Property generally sloped down to the southeast from a maximum Elevation 267 m above

sea level (masl) near the northwest limits of the Site, to Elevation 260 masl near the southeastern limits of the Site near the intersection of Cold Creek.

The closest surface waterbody to the Site was a tributary of Cold Creek, which flowed through the Phase I Property approximately 40 m to the west of the eastern limits of the Site and was observed to flow in a general southerly direction. Cold Creek was connected to a wetland area to the south of the Site within the Phase I Study Area, where standing water was observed. The wetland was identified in the Ministry of Natural Resources and Forestry (MNRF) online mapping as part of the provincially significant Castlederg Wetland Complex. Surface water drainage swales were observed near the western limits of the Site. At the time of Site Reconnaissance, the drainage swales generally appeared dry with no visible standing water present, indicative of ephemeral water flow conditions during high rainfall events and spring snow-melt runoff. The inferred groundwater flow direction is southerly towards the Lake Ontario.

The regional physiography, geology and bedrock characteristics were reviewed from the maps provided by OGS Earth that were compiled by the Mines and Minerals Division of the Ministry of Energy, Northern Development and Mines. The maps are available to download from the Ministry's website and to view in Google Earth.

The Phase I Property is located within the Physiographic Region described as the South Slope which is generally comprised of drumlinized till plains. The surficial geology within the Site was described as clay to silt textured till derived from glaciolacustrine deposits or shale. The underlying bedrock is mainly comprised of shale and limestone of the Georgian Bay Formation.

4. INTERVIEWS

An interview questionnaire was provided to Royal Pine Homes (the current developer of the Site) on behalf of the Property Owners (Oakbank Estates Ltd.) by the Client. Mr. Marco Marcante, Land Development Manager of Royal Pine Homes provided a response as the Site Representative for the 14475 Highway 50 property.

The Site Representative provided a previous "Limited Phase I ESA" that was conducted on the overall property (Completed by Dillion Consultants and summarized in Section 3.6 of this Report). The site was reportedly used for past and present agricultural uses. The Site Representative was not aware of asbestos containing material (ACM) surveys. No existing buildings were located within the Site, and therefore no heating or cooling systems were present. The Site Representative was not aware of any below grade structures, current or historical tanks, wells, septic systems, or municipal services (watermains, sewers, gas lines etc.), easements, spills, discharges within the Site. The Site Representative was not aware of past soil removals, soil treatments or remedial activities at the Site, and was not able to provide any other environmental site assessments for the property.

The Site Representative identified that a residential-type dwelling was located on the overall property, but was located to the south and downgradient of the Site. According to the Site Representative, the building may have been historically heated with a fuel oil furnace and a fuel oil storage tank may have been present. No known spills or incidents associated with the residential dwelling were identified by the Site Representative.

5. SITE RECONNAISSANCE

5.1 General

A reconnaissance of the Site and Phase I Study Area was conducted on November 28, 2024 by a Thurber representative, Mr. John Zoldy P.Eng., QP_{ESA}. The Site visit was conducted after a general review of the historical records and was focused on the surrounding properties that may contain potential sources of contamination. At the time of the Site visit, the weather was sunny to overcast, 6°C and the ground surfaces were dry and clear. Select photographs of the Site and surrounding properties are included in Appendix H.

5.2 Timing

Preliminary information obtained from the historical records review was considered prior to conducting the Site reconnaissance which allowed specific areas of the Site and adjacent properties to be targeted as part of the assessment.

5.3 Methodology

The Site reconnaissance was conducted through observations at the Site, and of surrounding properties from publicly accessible sidewalks and roadways.

5.4 Limitations

The Site Reconnaissance was limited to exterior observations of the Site and surrounding properties, made from publicly accessible locations.

5.5 Site Reconnaissance Observations

Table 5-1: Site Reconnaissance Observations

Topic	Observations
Property Use and Structures	The Site was observed to be used for agricultural purposes and comprised an agricultural field for crop growth. No building structures existed on the Site at the time of reconnaissance.
Hazardous Materials	None identified.
Unidentified Substances	None identified.

Topic	Observations
Aboveground and Underground Storage Tanks	None identified. However, based on information obtained during the completion of the Assessment of Past Uses prepared for the overall Class EA Assessment of the Bolton Water and Wastewater Capacity Improvements (provided under separate cover), several spill reports related to the use and storage of fuel oil were filed at residential properties to the south of the Site. Properties to the north of the Site may have also historically or currently use fuel oil as a heating source.
Storage Containers	None identified.
Odours	None identified.
Potable Water Supply	None identified within the Site. Neighboring residential properties appeared to be serviced by domestic water supply wells.
Special Attention Items	None identified.
Interior Observations	No building structures were observed within the Site.
Exterior Observations	
General	The Site comprised an agricultural field that appeared to have been most recently used for crop growth. The crop appeared to have been harvested at the time of the Site Visit, and the surficial soils had been tilled. A tributary of Cold Creek was observed in the eastern portion of the Site. Drainage swales and several wetland areas were observed at various locations within the Site and on the surrounding overall property.
Observations of Neighboring Properties	North • To the north of the Site, an agricultural property with a municipal address of 14685 Highway 50 was observed. The majority of the property was observed to be an agricultural field. Several barn structures, grain silos, and a farmhouse were observed on the property near the northern limits of the Phase I Study Area. Several large plastic totes were observed near the barn structures and appeared to be consistent with pesticide mixing, storage, and bulk applications. East • An agricultural property with the municipal address of 14530 Mount Hope Road was observed. South • To the south of the Site, the overall 14475 Highway 50 property extended beyond the limits of Phase I Study Area. The property generally comprised of an agricultural field. A residential-type dwelling (that appeared to be vacant) was observed on the property near the southern limits of the Phase I Study Area. West • Highway 50 was observed adjacent to the west of the Site. Road salt is expected to be applied to the travelled portion of the road

Topic	Observations
	during the winter months for de-icing of the roadway for safety purposes. • Beyond the Highway 50 ROW, a construction yard (James Dick Construction) was observed at 14442 Highway 50. Multiple stockpiles of soil and granular materials, various construction equipment and dump trucks, fuel tanks, and a maintenance and repair garage were observed on the property.
Topographic, Geologic, and Hydrogeologic Conditions	The ground surface was observed to generally slope down to the southeast from a topographic high near the western limits of the Phase I Site, down to a topographic low near the eastern limits of the Site and Cold Creek. The ground surface appeared to consist of topsoil and vegetation.
General description of Structures	No building structures were observed within the Phase I Property. A residential dwelling was observed on the overall 14475 Highway 50 Property, located to the south and downgradient from the from Phase I Property.
Wells	No water supply wells were observed within the Site. Several monitoring wells were observed on the Phase I Property, and at additional locations on the overall 14475 Highway 50 property.
Utilities and Sewage Works	None identified.
Pits and Lagoons	None identified.
Stained Materials	None identified.
Stressed Vegetation	None identified. Crops within the Site appeared to have been harvested prior to the site reconnaissance. Remaining vegetation within the Site appeared to be dormant.
Fill	Fill materials may have been imported to the Site for construction of the former access road that was observed to cross the western portion of the Site in the historical aerial photos. The access road was not observed during the Site Visit. Fill materials were also likely used to develop the road grades of Highway 50, located adjacent to the west of the Site.
Waste Water	None identified.
Watercourses, Ditches, or Standing Water	A creek was observed in the eastern portion of the Site (Cold Creek). The creek appeared to meander in a general southerly direction and appeared to flow into a wetland located to the south of the Phase I Property. Near the western limits of the Site roadside ditches along Highway 50 were observed.
Roads, Parking Facilities, and Rights of Way	None identified within the Site. Highway 50 and Emil Kolb Parkway were observed adjacent to the west of the Site. No on-road parking was observed within the ROWs.

6. FINDINGS

The Phase I ESA involved a desktop review and summary of available historical records, and included aerial photographs, fire insurance plans and federal, provincial and private environmental databases, geologic maps, well records, and previous environmental reports provided by the Site Representative through the completion of an interview questionnaire. The Site Reconnaissance included a visual assessment of the Site, and of the Phase I Study Area from publicly accessible locations.

The collective information was used to assess and evaluate past and present property uses, conditions and activities at the Site and within the Phase I Study Area to identify potential sources of contamination that may have a potential risk to impact the subsurface conditions at the Site.

The findings of the Phase I ESA indicated that the Site has generally consisted of agricultural lands since first development. The Phase I Study Area has primarily consisted of mixed agricultural and residential property uses, and to a lesser extent industrial land uses (James Dick Construction) to the west of the Phase I Property.

Potential sources of contamination have been identified at the Site and within the Phase I Study Area. Potential sources of contamination that are applicable to the Site involve the presence of potential pesticides that were applied to the agricultural fields, importation of fill materials of unknown environmental quality used to construct the historical access road, the adjacent industrial facility (James Dick Construction), and the potential for fuel oil storage and use as a heating source at current and historical buildings in the Phase I Study Area.

6.1 Evaluation of Findings

The following factors were considered by Thurber to evaluate if historical and current activities at the Site and within the Phase I Study Area are identified as potential sources of contamination that may impact the soil and groundwater underlying the Site:

- Property use (i.e., agricultural/other, residential, parkland, institutional, industrial, commercial or community);
- Magnitude and nature of the activity (i.e., volume of spills, anticipated quantities of waste generation, presence of ASTs or USTs, quantities of PCB storage, anticipated housekeeping practices, age of facility / operation, etc.);
- Location (i.e., hydraulically upgradient or downgradient from the Site);
- Contaminant characteristics (i.e., toxicity, mobility in the subsurface, etc.);
- Contaminant migration potential (i.e., soil stratigraphy, depth to groundwater, vapour intrusion, etc.); and,
- Exposure (i.e., anticipated receptor and distance from potential sources of contamination,

transport pathways, residence time of contaminant in the subsurface, etc.).

Based on the above-referenced criteria, the past and present activities on the Site and the surrounding properties that are considered as potential sources of contamination that may impact the subsurface conditions at the Site, their interpreted level of risk and associated contaminants of potential concern (COPCs) are listed in the following table and are presented on Drawing 48561-3 in Appendix A.

Table 6-1: Potential Sources of Contamination

Summarized Potential Sources of Contamination						
PSC #	**PSC Location**	**Source**	**Potential Sources of Contamination**	**Contaminants of Potential Concern**	**Area on Site**	**Risk Rating**
1	Entire Site	Site visit, Aerial Photos, Interview	Possible application of pesticides to agricultural fields	M&I, OC Pesticides	Entire Site	Moderate
2	Western portion of the Site	Site visit, Aerial Photos	Importation of fill materials of unknown quality	M&I, PHCs/BTEX, PAHs	Western portion of the Site	Moderate
3	Western portion of the Site	ERIS, Site Visit, Previous Reports	Potential storage and use of fuel oil as a heating source for the former building on Site	M&I, PHCs/BTEX, VOCs, PAHs	Western portion of the Site	Moderate
4	14442 (14444) Highway 50	Site visit, Aerial Photos, City Directory, ERIS	James Dick Construction Yard. Multiple fuel storage tanks, equipment maintenance garages, heavy construction equipment storage, and stockpiles of fill materials were observed on the property. The facility was also reported as a sand and gravel quarry and concrete manufacturing facility, and various spills of petroleum products were reported at the location.	M&I, PHCs/BTEX, VOCs, PAHs	Western portion of the Site	Moderate

7. CONCLUSIONS

Based on the review and evaluation of information obtained through the Phase I ESA, historical activities were identified on-Site and within the Phase I Study Area for the Site that are considered potential sources of contamination that may impact the subsurface conditions at the Site.

The identified potential sources of contamination include the presence of potential pesticides that were applied to the agricultural fields, importation of fill materials of unknown environmental quality used to construct the historical access road, the adjacent industrial facility (James Dick Construction), and the potential for fuel oil storage and use as a heating source at current and historical buildings in the Phase I Study Area. In addition, impacts associated with the historical use of the adjacent roadway (i.e. potential fill materials of unknown environmental quality, application of de-icing salts, and minor vehicle fluid leakage) were considered.

A subsurface investigation (i.e., Phase II ESA) involving sampling and analysis of soil and groundwater across the Phase I Property will be required to confirm or refute the presence of contamination from the identified potential sources of contamination at the site, and potential sources of contamination on surrounding properties within the Phase I Study Area. The Phase II ESA will target the collection of soil and groundwater samples within the excavation depths for the proposed construction works.

8. CLOSURE AND SIGNATURES

We trust that this report provides the information you require at this time. If you have any questions, please contact the undersigned at your earliest convenience.

THURBER ENGINEERING LTD.

Liam Scalena,
Environmental E.I.T.



John Zoldy, P.Eng., QP_{ESA}
Associate, Environmental Engineer



Renato Pasqualoni, P.Eng., QP_{ESA}
Review Engineer

THURBER

STATEMENT OF LIMITATIONS AND CONDITIONS

1. STANDARD OF CARE

This Report has been prepared in accordance with generally accepted engineering or environmental consulting practices in the applicable jurisdiction. No other warranty, expressed or implied, is intended or made.

2. COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report, which is of a summary nature and is not intended to stand alone without reference to the instructions given to Thurber by the Client, communications between Thurber and the Client, and any other reports, proposals or documents prepared by Thurber for the Client relative to the specific site described herein, all of which together constitute the Report.

IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. THURBER IS NOT RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT.

3. BASIS OF REPORT

The Report has been prepared for the specific site, development, design objectives and purposes that were described to Thurber by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the Report, subject to the limitations provided herein, are only valid to the extent that the Report expressly addresses proposed development, design objectives and purposes, and then only to the extent that there has been no material alteration to or variation from any of the said descriptions provided to Thurber, unless Thurber is specifically requested by the Client to review and revise the Report in light of such alteration or variation.

4. USE OF THE REPORT

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT THURBER'S WRITTEN CONSENT AND SUCH USE SHALL BE ON SUCH TERMS AND CONDITIONS AS THURBER MAY EXPRESSLY APPROVE. Ownership in and copyright for the contents of the Report belong to Thurber. Any use which a third party makes of the Report, is the sole responsibility of such third party. Thurber accepts no responsibility whatsoever for damages suffered by any third party resulting from use of the Report without Thurber's express written permission.

5. INTERPRETATION OF THE REPORT

a) Nature and Exactness of Soil and Contaminant Description: Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature. Comprehensive sampling and testing programs implemented with the appropriate equipment by experienced personnel may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and the Client and all other persons making use of such documents or records with our express written consent should be aware of this risk and the Report is delivered subject to the express condition that such risk is accepted by the Client and such other persons. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. If special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

b) Reliance on Provided Information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to Thurber. Thurber has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, Thurber does not accept responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of the Client or other persons providing information relied on by Thurber. Thurber is entitled to rely on such representations, information and instructions and is not required to carry out investigations to determine the truth or accuracy of such representations, information and instructions.

c) Design Services: The Report may form part of design and construction documents for information purposes even though it may have been issued prior to final design being completed. Thurber should be retained to review final design, project plans and related documents prior to construction to confirm that they are consistent with the intent of the Report. Any differences that may exist between the Report's recommendations and the final design detailed in the contract documents should be reported to Thurber immediately so that Thurber can address potential conflicts.

d) Construction Services: During construction Thurber should be retained to provide field reviews. Field reviews consist of performing sufficient and timely observations of encountered conditions in order to confirm and document that the site conditions do not materially differ from those interpreted conditions considered in the preparation of the report. Adequate field reviews are necessary for Thurber to provide letters of assurance, in accordance with the requirements of many regulatory authorities.

6. RELEASE OF POLLUTANTS OR HAZARDOUS SUBSTANCES

Geotechnical engineering and environmental consulting projects often have the potential to encounter pollutants or hazardous substances and the potential to cause the escape, release or dispersal of those substances. Thurber shall have no liability to the Client under any circumstances, for the escape, release or dispersal of pollutants or hazardous substances, unless such pollutants or hazardous substances have been specifically and accurately identified to Thurber by the Client prior to the commencement of Thurber's professional services.

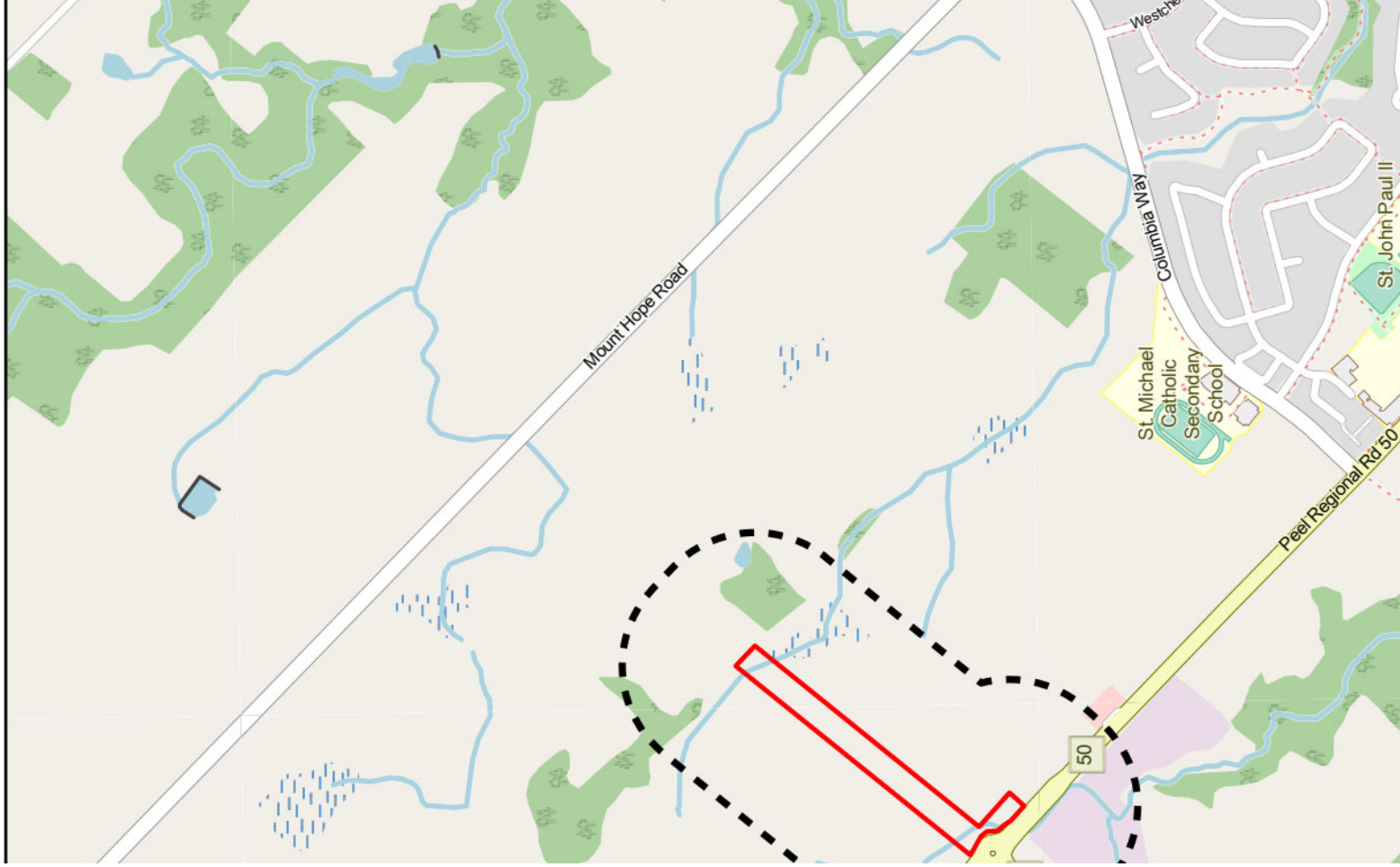
7. INDEPENDENT JUDGEMENTS OF CLIENT

The information, interpretations and conclusions in the Report are based on Thurber's interpretation of conditions revealed through limited investigation conducted within a defined scope of services. Thurber does not accept responsibility for independent conclusions, interpretations, interpolations and/or decisions of the Client, or others who may come into possession of the Report, or any part thereof, which may be based on information contained in the Report. This restriction of liability includes but is not limited to decisions made to develop, purchase or sell land.

THURBER

APPENDIX A

Drawings


Mount Hope Road
Columbia Way
St. Michael Catholic Secondary School
St. John Paul II
Peel Regional Rd 50
50

AGRICULTURAL
4905966
AGRICULTURAL


1
1

THURBER

APPENDIX B

Aerial Photographs



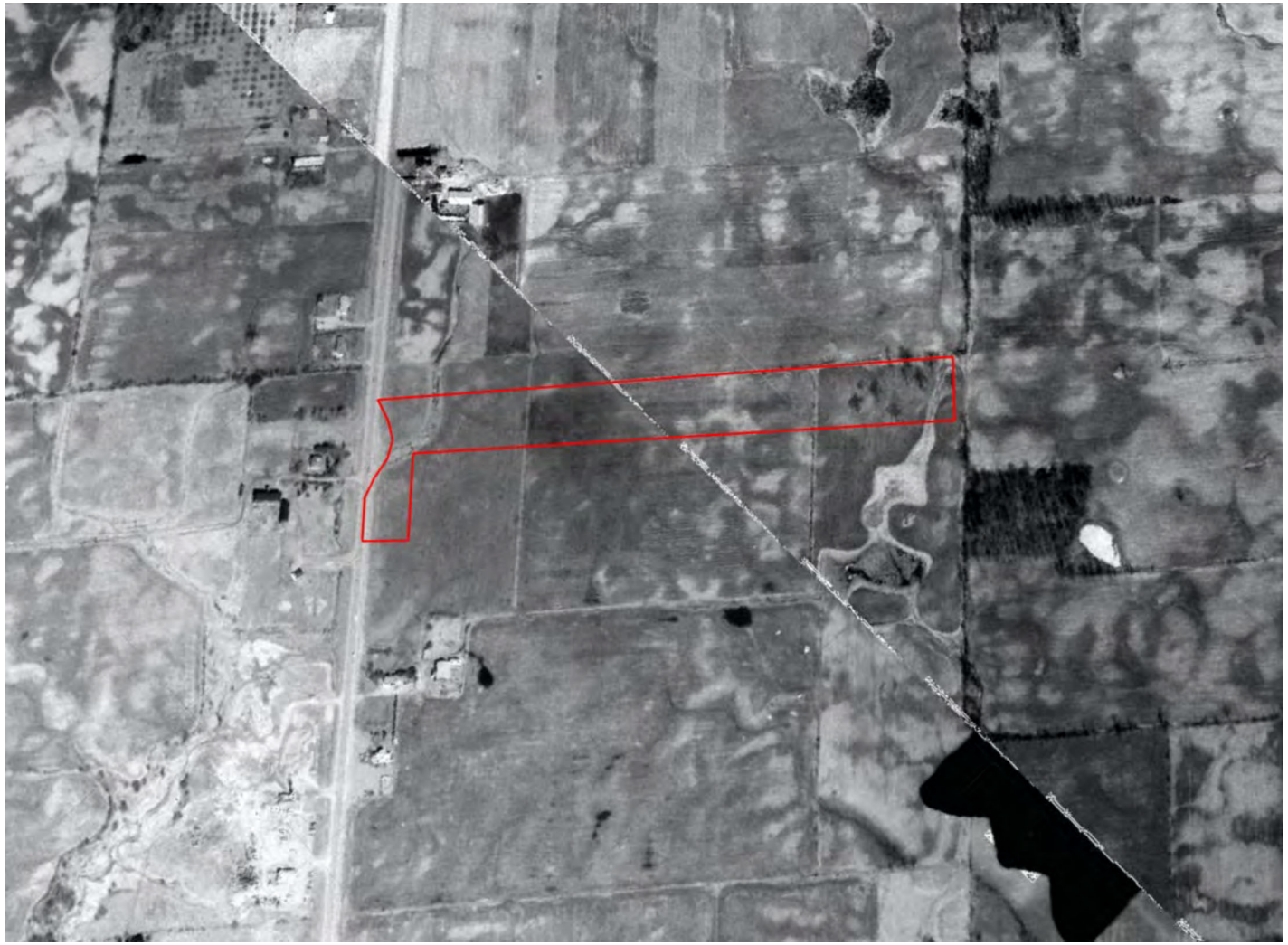
Year: 1946
Source: ERIS



Year: 1951
Source: ERIS



Year: 1960
Source: ERIS



Year: 1974
Source: ERIS



Year :1985
Source: ERIS



Year: 1995
Source: ERIS



Year: 2005
Source: Google Earth Pro



Year: 2015
Source: Google Earth Pro



Year: 2022
Source: ERIS

THURBER

APPENDIX C

Fire Insurance Plans

Enviroscan Report

Site address:	Caledon ON
Project #:	25031400211
P.O. #:	157003
Requested by:	Eleanor Goolab
Date Completed:	3/20/2025 1:36:08 PM

CONFIDENTIAL

Project #: 25031400211 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:08

Search Area: Caledon ON



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Project #: 25031400211 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:08

Historical Environmental Services Enviroscan Terms and Conditions

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 Verisk's records relating to the described property (hereinafter referred to as the "Property"). Verisk 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 Verisk'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. Verisk does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

Project #: 25031400211 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:08

No Records Found

Office

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

1.877.244.9437

optaintel.ca



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APPENDIX D

Chain of Title and Land Registry Information

CHAIN OF TITLE REPORT

Project #: 25031200164
Address: 14475 Highway 50, Caledon
Legal Description: Part Lot 13 Con 7 Albion
Des. Part 1, 43R16003
Ex. Part 1, 43R34593
PIN #: 14331-0308 (LT)

Searched at: Brampton
LRO #: 43

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (100 Acres)	05 01 1847	Crown	**William MORRISON**
28890	Deed	25 03 1847	William Morrison	Henry BOULTON
1127	Deed	19 12 1873	Henry Boulton	Henry HARPER
3940	Deed	14 11 1887	Henry Harper	Alfred Thomas HARPER
15546	Deed	08 08 1949	James A. Harper & Henry R. Harper exor for Alfred Thomas Harper - Estate	Westney MATSON
17370	Lease (20 Yrs)	21 06 1956	Westney Matson	Supertest Petroleum Corpor (Lessee)
20094	Deed	12 07 1962	Westney Matson	James A. HARPER Henry R. HARPER
20909	Deed	10 10 1963	James A. Harper & Henry R. Harper	James A. FEHELEY
90024vs	Deed	13 11 1968	James A. Feheley	Pauldor Developments Limit

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project #:	25031200164	Searched at:	Brampton
Address:	14475 Highway 50, Caledon	LRO #:	43
Legal Description:	Part Lot 13 Con 7 Albion Des. Part 1, 43R16003 Ex. Part 1, 43R34593		
PIN #:	14331-0308 (LT)		

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
105747vs	Deed	28 04 1969	Pauldor Developments Limited	Pauldor Developments Limit Albol Developments Limited
109585vs	Deed	03 06 1969	Pauldor Developments Limited	Albol Developments Limited
862793	Deed	08 09 1988	Albol Developments Limited	771367 Ontario Inc.
RO904177	Deed **(Present Owner)**	28 07 1989	771367 Ontario Inc.	**Oakbank Estates Inc.**

PROPERTY DESCRIPTION: PT LT 13, CONC 7 ALBION DES PT 1, 43R16003, EXCEPT PT 1, 43R34593; TOWN OF CALEDON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
DIVISION FROM 14331-0022

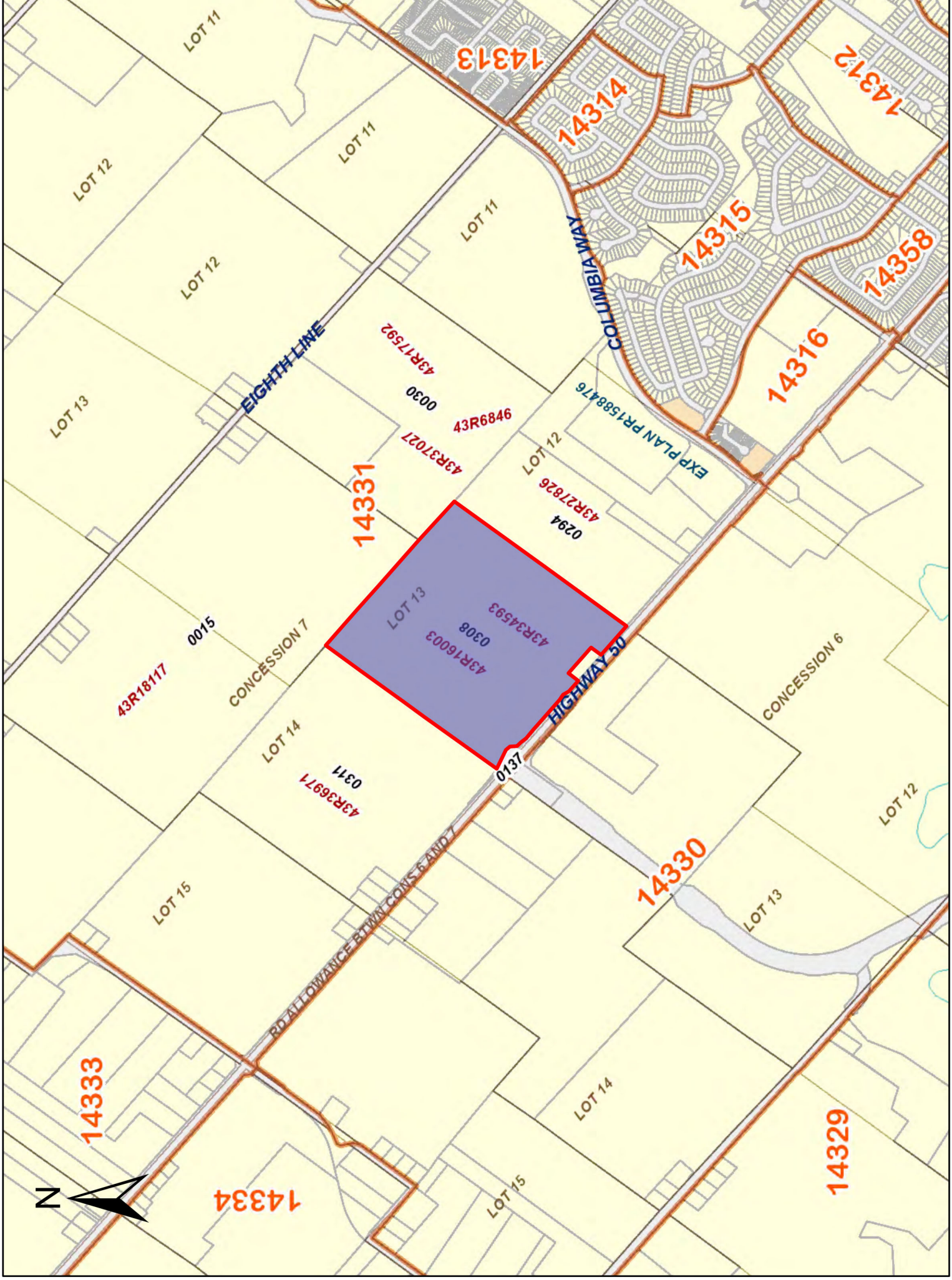
PIN CREATION DAT
2012/05/15

OWNERS' NAMES
OAKBANK ESTATES INC.

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES T
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2012/05/15 **					
**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: 1999/06/22 **					
43R16003	1988/08/24	PLAN REFERENCE			
RO904177	1989/07/28	TRANSFER	$7,190,300		OAKBANK ESTATES INC.
43R34593	2012/05/01	PLAN REFERENCE			

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPE
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.


14313
14314
14312
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14358
14316
14331
14330
14333
14334
14329
COLUMBIA WAY
EIGHTH LINE
HIGHWAY 50
CONCESSION 7
CONCESSION 6
RD ALLOWANCE BTWN CONS 6 AND 7
EXP PLAN PR1588476
43R17592
43R6846
43R37027
43R27826
43R34593
43R16003
43R18117
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THURBER

APPENDIX E

City Directory Report

ERIS

CITY DIRECTORY

Project Property:	*48561 Bolton EA* *n/a* *Caledon,ON*
Project No:	*48561*
Requested By:	*Thurber Engineering Ltd*
Order No:	*24112100344*
Date Completed:	*November 29, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.

November 29, 2024
RE: CITY DIRECTORY RESEARCH
n/a
Caledon,ON

Thank you for contacting ERIS regarding our City Directory Search services. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. When searching a range of addresses, all civic addresses within that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on highly developed areas, while newly developed areas may be covered in the more recent years, older directories tend to cover only "central" parts of the city. To complete the search, we have either utilized the Toronto Reference Library, Library & Archives Canada and multiple digitized directories. While these do not claim to be a complete collection of all reverse listing city directories produced, ERIS has made every effort to provide accurate and complete information. ERIS shall not be held liable for missing, incomplete, or inaccurate information. If you believe there are additional addresses or streets that require searching, please contact us.

Search Criteria:

9100-9730 of Columbia Way

14000-14575 of Duffys Lane

14000-14300 of Emil Kolb Parkway

14000-14820 of Highway 50

13900-14560 of Mt Hope Road

Search Notes:

Emil Kolb Parkway is also known as Peel Regional Road 150 in Bolton. Highway 50 is also known as Queen Street N in Bolton.

Search Results Summary

Data from 2012 to 2017 does not include residential information

Date	Source	Comment
2023	DIGITAL BUSINESS DIRECTORY	
2021	DIGITAL BUSINESS DIRECTORY	
2017	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	COLE	
2000-01	POLKS	
1995-96	MIGHTS	
1991	MIGHTS	
1985	MIGHTS	
1981	MIGHTS	
1975	MIGHTS	
1970-71	MIGHTS	
1966	MIGHTS	
1958	MIGHTS	

2023 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **JUST CATERING**...*CATERERS*
9130 **ST MICHAEL**...*SCHOOLS*
9706 **J CHABLUK**...*RESIDENTIAL*
9726 **A DISCENZA**...*RESIDENTIAL*

2023 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*CONSTRUCTION COMPANIES*
14068 **CALEDON CONTRACTING LTD**...*FEDERAL GOVERNMENT CONTRACTORS*
14068 **K CARLYON**...*RESIDENTIAL*

2023 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

14096 **A KARALASINGAM**...*RESIDENTIAL*
14105 **RICHARD ABEL**...*RESIDENTIAL*
14114 **A DEVITA**...*RESIDENTIAL*
14114 **C GONCALVES**...*RESIDENTIAL*

2023 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **MR SUB**...*FOODS-CARRY OUT*
14111 **MR SUB**...*RESTAURANTS*
14118 **A ZIMMER**...*RESIDENTIAL*
14118 **J GILLESPIE**...*RESIDENTIAL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*RECREATIONAL VEHICLES-RENTING & LEASING*
14124 **MOTOR HOME TRAVEL CANADA INC**...*RECREATIONAL VEHICLES*
14291 **CHRISTINA PILON**...*RESIDENTIAL*
14291 **LEO PILON**...*RESIDENTIAL*
14328 **C BOWLES**...*RESIDENTIAL*
14442 **CALEDON TRANSPORT**...*LOCAL TRUCKING, WITHOUT STORAGE*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE-READY MIXED*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE AGGREGATES (WHOLESALE)*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **BOLTON ESSO**...*SERVICE STATIONS-GASOLINE & OIL*
14445 **ESSO**...*SERVICE STATIONS-GASOLINE & OIL*
14445 **J WILSON**...*RESIDENTIAL*
14445 **MIKE THE MECHANIC**...*AUTOMOBILE REPAIRING & SERVICE*
14445 **S F SVC**...*VEHICLE INSPECTION SERVICE*
14445 **S F SVC**...*AUTOMOBILE INSPECTION STATIONS*
14445 **S AGNEW**...*RESIDENTIAL*
14600 **J SARKISIAN**...*RESIDENTIAL*
14600 **R SUMMERS**...*RESIDENTIAL*
14616 **K CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GARDEN EQUIP & SUPPLIES-RETAIL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN MOWERS*
14684 **J STAMOS**...*RESIDENTIAL*
14684 **K POLSINELLI**...*RESIDENTIAL*
14684 **P SHELL**...*RESIDENTIAL*
14684 **W TWEDDLE**...*RESIDENTIAL*
14685 **M MACKENZIE**...*RESIDENTIAL*
14685 **R FRENCH**...*RESIDENTIAL*
14766 **E FIALA**...*RESIDENTIAL*
14766 **KEN MCKAY**...*RESIDENTIAL*
14776 **JOE GUARAGNA**...*RESIDENTIAL*
14791 **H AUER**...*RESIDENTIAL*
14800 **A CIARALLO**...*RESIDENTIAL*
14815 **J SCHWEIGHOFER**...*RESIDENTIAL*
14816 **CHESSLAWN FARM**...*INDUSTRIAL EQUIPMENT & SUPPLIES (WHOL)*
14818 **DWIGHT MATSON**...*RESIDENTIAL*
14818 **HILLIARD MATSON**...*RESIDENTIAL*
14818 **S MATSON**...*RESIDENTIAL*

2023 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14190 **SMITH LAURA**...*RESIDENTIAL*
14195 **V CAVALIERI**...*RESIDENTIAL*
14320 **A WILLIAMS**...*RESIDENTIAL*
14320 **J BENOIT**...*RESIDENTIAL*
14383 **M BARTUCCI**...*RESIDENTIAL*
14395 **J PARETE**...*RESIDENTIAL*
14400 **JEFF BELISOWSKI**...*RESIDENTIAL*
14409 **C ACETO**...*RESIDENTIAL*
14414 **A BASSDNBEN**...*RESIDENTIAL*
14421 **J BUTLER**...*RESIDENTIAL*
14432 **DOMENIC IERULLO**...*RESIDENTIAL*
14461 **MURRAY MATSON**...*RESIDENTIAL*
14559 **P DEROSA**...*RESIDENTIAL*

2021 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **JUST CATERING**...*CATERERS*
9130 **ST MICHAEL**...*SCHOOLS*
9706 **J CHABLUK**...*RESIDENTIAL*
9726 **A DISCENZA**...*RESIDENTIAL*

2021 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*CONSTRUCTION COMPANIES*
14068 **CALEDON CONTRACTING LTD**...*FEDERAL GOVERNMENT CONTRACTORS*
14068 **K CARLYON**...*RESIDENTIAL*

2021 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

14096 **A KARALASINGAM**...*RESIDENTIAL*
14105 **RICHARD ABEL**...*RESIDENTIAL*
14114 **A DEVITA**...*RESIDENTIAL*
14114 **C GONCALVES**...*RESIDENTIAL*

2021 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **MR SUB**...*FOODS-CARRY OUT*
14118 **J GILLESPIE**...*RESIDENTIAL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*MOTOR HOMES-RETAIL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*MOTOR HOMES-RENTING & LEASING*
14291 **CHRISTINA A PILON**...*RESIDENTIAL*
14291 **CHRISTINA PILON**...*RESIDENTIAL*
14291 **LEO PILON**...*RESIDENTIAL*
14328 **C BOWLES**...*RESIDENTIAL*
14442 **CALEDON TRANSPORT**...*GENERAL FREIGHT TRUCKING,LOCAL*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE MIXERS (WHLS)*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE AGGREGATES (WHLS)*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **BOLTON ESSO**...*ALTERNATIVE FUELS*
14445 **J WILSON**...*RESIDENTIAL*
14445 **MIKE THE MECHANIC**...*AUTOMOBILE REPAIRING & SERVICE*
14445 **S F SVC**...*VEHICLE INSPECTION SERVICE*
14445 **S F SVC**...*AUTOMOBILE INSPECTION STATIONS-NEW/USED*
14600 **J SARKISIAN**...*RESIDENTIAL*
14616 **K CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GROUNDS MAINTENANCE*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GARDEN EQUIP & SUPPLIES-RETAIL*
14684 **J STAMOS**...*RESIDENTIAL*
14684 **K POLSINELLI**...*RESIDENTIAL*
14684 **P SHELL**...*RESIDENTIAL*
14685 **M MACKENZIE**...*RESIDENTIAL*
14685 **R FRENCH**...*RESIDENTIAL*
14766 **E FIALA**...*RESIDENTIAL*
14766 **KEN MCKAY**...*RESIDENTIAL*
14776 **JOE GUARAGNA**...*RESIDENTIAL*
14791 **H J AUER**...*RESIDENTIAL*
14800 **A CIARALLO**...*RESIDENTIAL*
14815 **J SCHWEIGHOFER**...*RESIDENTIAL*
14818 **DWIGHT MATSON**...*RESIDENTIAL*
14818 **HILLIARD MATSON**...*RESIDENTIAL*
14818 **S MATSON**...*RESIDENTIAL*

2021 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14190 **SMITH LAURA**...*RESIDENTIAL*
14195 **V CAVALIERI**...*RESIDENTIAL*
14320 **A WILLIAMS**...*RESIDENTIAL*
14320 **J BENOIT**...*RESIDENTIAL*
14383 **M BARTUCCI**...*RESIDENTIAL*
14395 **J PARETE**...*RESIDENTIAL*
14400 **JEFF BELISOWSKI**...*RESIDENTIAL*
14409 **C ACETO**...*RESIDENTIAL*
14414 **A BASSDNBEN**...*RESIDENTIAL*
14421 **J BUTLER**...*RESIDENTIAL*
14432 **DOMENIC IERULLO**...*RESIDENTIAL*
14461 **MURRAY W MATSON**...*RESIDENTIAL*
14559 **P DEROSA**...*RESIDENTIAL*

2017 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **ST MICHAEL**...*ELEMENTARY & SECONDARY SCHOOLS*

2017 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*POURED CONCRETE STRUCTURE CONTRS*
14068 **MAJESTIC MEMORIALS**...*ALL OTHER SUPPORT SVCS*
14068 **MAJESTIC MEMORIALS**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2017 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2017 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14007 **BARRHAVEN RESTAURANTS**...*RESTAURANTS*
14111 **CALEDON CENTRE FOR RECREATION**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14111 **CALEDON CENTRE SWIMMING POOL**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14111 **MR SUB**...*FULLSERVICE RESTAURANTS*
14111 **MR SUB**...*LIMITEDSERVICE RESTAURANTS*
14118 **WOODY'S BUILDING PRODUCTS**...*HOME CENTERS*
14182 **NORTH HILL ANIMAL HOSPITAL**...*VETERINARIANS*
14218 **COLD CREEK LANDSCAPING & MNTNC**...*LAWN & GROUNDS MAINTENANCE*
14289 **ALBION AUTO CTR**...*GENERAL AUTOMOTIVE REPAIR*
14289 **ALBION AUTO SALES**...*USED CAR DEALERS*
14442 **CALEDON TRANSPORT**...*TRUCKING AND WAREHOUSING*
14442 **JAMES DICK AGGREGATES**...*MASONRY MATERIAL MERCHANT WHOLS*
14442 **JAMES DICK CONCRETE-AGGREGATES**...*POURED CONCRETE STRUCTURE CONTRS*
14442 **JAMES DICK CONSTRUCTION LTD**...*OTHER BUILDING MATERIAL DEALERS*
14442 **JAMES DICK CONSTRUCTION LTD**...*MASONRY MATERIAL MERCHANT WHOLS*
14444 **JAMES DICK CONSTRUCTION**...*OTHER BUILDING MATERIAL DEALERS*
14445 **BOLTON ESSO**...*OTHER GASOLINE STATIONS*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **MIKE THE MECHANIC**...*GENERAL AUTOMOTIVE REPAIR*
14445 **S F SVC**...*OTHER GASOLINE STATIONS*
14445 **S F SVC**...*GENERAL AUTOMOTIVE REPAIR*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*OUTDOOR POWER EQUIP STORES*

2017 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14559 **JMD WOOD PRODUCTS LTD**...*LUMBER & WOOD MERCHANT WHOLS*
14559 **JMD WOOD PRODUCTS LTD**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2012 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2012 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*POURED CONCRETE STRUCTURE CONTRS*
14068 **MAJESTIC MEMORIALS**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2012 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2012 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **CALEDON CENTRE FOR RECREATION**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14118 **VIA DIRECT**...*SUPPORT ACTIVITIES FOR RAIL TRANSPORTATION*
14118 **WOODY'S BUILDING PRODUCTS**...*HOME CENTERS*
14124 **WOODY'S BUILDING PRODUCTS**...*OTHER BUILDING MATERIAL DEALERS*
14124 **WOODYS HOME IMPROVEMENT CTR**...*RESIDENTIAL REMODELERS*
14182 **NORTH HILL ANIMAL HOSPITAL**...*VETERINARIANS*
14182 **ROTENBERG, ARTHUR DVM**...*VETERINARIANS*
14218 **COLD CREEK LANDSCAPING & MNTNC**...*LAWN & GROUNDS MAINTENANCE*
14220 **BEL AIR WOOD COMPONENTS**...*UNCLASSIFIED*
14289 **ALBION AUTO CTR**...*GENERAL AUTOMOTIVE REPAIR*
14289 **ALBION AUTO SALES**...*USED CAR DEALERS*
14289 **ALBION AUTO SALES & SVC INC**...*AUTOMOTIVE EXHAUST SYSTEM REPAIR*
14291 **HERITAGE GROUP LTD**...*OFFICES OF REAL ESTATE AGENTS & BROKERS*
14337 **BH FLOWERS WHOLESALE LTD**...*NURSERY & FLORIST MERCHANT WHOLS*
14442 **CALEDON TRANSPORT**...*TRUCKING AND WAREHOUSING*
14442 **JAMES DICK CONCRETE-AGGREGATES**...*POURED CONCRETE STRUCTURE CONTRS*
14442 **JAMES DICK CONSTRUCTION LTD**...*MASONRY MATERIAL MERCHANT WHOLS*
14444 **JAMES DICK CONSTRUCTION**...*OTHER BUILDING MATERIAL DEALERS*
14445 **AUTOPRO DEALER**...*GENERAL AUTOMOTIVE REPAIR*
14445 **BOLTON ESSO**...*OTHER GASOLINE STATIONS*
14445 **MIKE THE MECHANIC**...*GENERAL AUTOMOTIVE REPAIR*
14445 **S & F SVC**...*GENERAL AUTOMOTIVE REPAIR*
14600 **JAY-R'S AUTO GLASS**...*OTHER BUILDING MATERIAL DEALERS*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*OUTDOOR POWER EQUIP STORES*

2012 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2008 COLUMBIA WAY

SOURCE: COLE

9726	**RESIDENTIAL (1 TENANT)**

2008 DUFFYS LANE

SOURCE: COLE

14068	**CALEDON CEMETERY CONSTRUCTION**
14068	**CALEDON CONTRACTING LTD**
14068	**CALEDON MAUSOLEUM CORPORATION**
14068	**MAJESTIC MEMORIALS**
	ALL RESIDENTIAL

2008 EMIL KOLB PARKWAY

SOURCE: COLE

STREET NOT LISTED

2008 HIGHWAY 50

SOURCE: COLE

STREET NOT LISTED

2008 MT HOPE ROAD

SOURCE: COLE

ALL RESIDENTIAL

2000-01 COLUMBIA WAY

SOURCE: POLKS

9726 **TARMAC CANADA INC**
ALL RESIDENTIAL

2000-01 DUFFYS LANE

SOURCE: POLKS

14068 **CALEDON CEMETERY CONSTRUCTION**
14068 **CALEDON CONTRACTING LTD**
14068 **CALEDON MAUSOLEUM CORPORATION**

2000-01 EMIL KOLB PARKWAY

SOURCE: POLKS

STREET NOT LISTED

2000-01 HIGHWAY 50

SOURCE: POLKS

14218	COLD CREEK LANDSCAPING & MAINTENANCE
14245	RAVINE OF TAYLOR WOODS THE
14289	22 DOLLARS A DAY CAR RENTALS
14289	ALBION AUTO SALES
14442	CALEDON TRANSPORT
14442	JAMES DICK CONCRETE-AGGREGATES
14445	AUTOPRO
14445	MIKE THE MECHANIC
14445	S & F SERVICE
14445	STEVE MORELLOS SERVICE
14600	JAY-R'S AUTO GLASS
14616	KEN'S LAWNMOWER REPAIRS LTD
	ALL RESIDENTIAL

2000-01 MT HOPE ROAD

SOURCE: POLKS

ALL RESIDENTIAL

1995-96 COLUMBIA WAY

SOURCE: MIGHTS

9589 **RESIDENTIAL (1 TENANT)**
9683 **RESIDENTIAL (1 TENANT)**

1995-96 DUFFYS LANE

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1995-96 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1995-96 HIGHWAY 50

SOURCE: MIGHTS

ALL RESIDENTIAL

1995-96 MT HOPE ROAD

SOURCE: MIGHTS

ALL RESIDENTIAL

1991 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1991 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1991 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1991 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1991 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1985 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1985 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1985 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1985 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1985 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1981 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1981 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1981 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1981 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1981 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1975 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1975 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1975 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1975 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1975 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1970-71 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1966 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1966 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1966 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1966 HIGHWAY 50

SOURCE: MIGHTS

STREET NOT LISTED

1966 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1958 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1958 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1958 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1958 HIGHWAY 50

SOURCE: MIGHTS

STREET NOT LISTED

1958 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

THURBER

APPENDIX F

ERIS Database Report

DATABASE REPORT

Project Property:	*48561 Bolton EA* *n/a* *Caledon ON*
Project No:	*48561*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*24112100344*
Requested by:	*Thurber Engineering Ltd*
Date Completed:	*November 21, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:	*48561 Bolton EA* *n/a Caledon ON*
Project No:	*48561*

Order Information:

Order No:	*24112100344*
Date Requested:	*November 21, 2024*
Requested by:	*Thurber Engineering Ltd*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*Smart CD Search*
ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	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*	N	-	-	-
CA	*Certificates of Approval*	Y	0	2	2
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*	N	-	-	-
DTNK	*Delisted Fuel Tanks*	Y	0	9	9
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	0	0	0
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	N	-	-	-
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	5	5
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	5	5
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	32	32
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	4	4
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
NPR2	National Pollutant Release Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory - Historic	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	9	9
PFAS	Ontario PFAS Spills	Y	0	0	0
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	1	3	4
PPHA	Potential PFAS Handlers from EASR	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	N	-	-	-
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	1	1
RST	Retail Fuel Storage Tanks	Y	0	1	1
SCT	Scott's Manufacturing Directory	Y	0	6	6
SPL	Ontario Spills	Y	1	9	10
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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
WDSH	***Waste Disposal Sites - MOE 1991 Historical Approval Inventory***	*Y*	*0*	*0*	*0*
WWIS	***Water Well Information System***	*N*	*-*	*-*	*-*
		Total:	*2*	*87*	*89*

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	SPL	Enbridge Gas Distribution Inc.	Emil Colb Parkway @ King Street Caledon ON	S/0.0	-11.36	28
1	PINC	PIPELINE HIT 4"	EMIL KOLB PKWY & KING ST,,BOLTON, ON,,CA ON	S/0.0	-11.36	29

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	GEN	PEEL, REGION OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	ESE/14.1	4.58	29
2	GEN	PEEL, REGIONAL MUNICIPALITY OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	ESE/14.1	4.58	30
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	33
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	33
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	34

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	34
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	35
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	35
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	36
2	PES		14220 Hwy 50 HWY CALEDON ON L7E 3E2	ESE/14.1	4.58	36
2	PES	CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	ESE/14.1	4.58	37
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON L7E 5R8	ESE/20.1	4.61	37
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	38
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	38
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	39
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	39
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	40
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	42
4	SPL		60 Alderbrook Place, Bolton Caledon ON	ESE/21.3	1.52	42
5	SPL	CALEDON HYDRO	14442 HWY 50 (JAMES DICK CONSTRUCTION) TRANSFORMER/CAPACITOR CALEDON TOWN ON	NNE/26.9	-0.64	43
5	SCT	Caledon Sand & Gravel Inc.	14442 Regional Road 50 Bolton ON L7E 3E2	NNE/26.9	-0.64	44
5	SCT	James Dick Construction Ltd.	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	James Dick Concrete Aggregates	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	Hamilton Ready Mix Ltd.	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	James Dick Construction Ltd.	14442 Regional Road 50 Bolton ON L7E 3E2	NNE/26.9	-0.64	45
5	SPL	James Dick Construction Limited	14442 Hwy 50 Caledon ON	NNE/26.9	-0.64	45

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
6	RST	S & F SERVICE	14445 HWY 50 BOLTON ON L7E3H6	NNE/32.0	3.89	46
6	DTNK	YASHRAJ INC	14445 HWY 50 BOLTON ON L7E 3H6	NNE/32.0	3.89	46
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	SPL		by 14445 Regional Rd 50, Bolton Caledon ON	NNE/32.0	3.89	48
6	INC	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	48
6	SPL	Facility Maintenance & Construction Inc.	14445 Regional Rd. 50 Caledon ON NA	NNE/32.0	3.89	49
6	GEN	Petro V Plus	14445 Regional Rd 50 Bolton ON L7E3H6	NNE/32.0	3.89	50
6	INC	PETRO V PLUS LTD O/A ESSO	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA ON	NNE/32.0	3.89	50
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	51
7	SPL		14475 Highway 50 Caledon ON	N/35.6	5.61	51

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	INC		14475 HIGHWAY 50, CALEDON ON	N/35.6	5.61	52
8	RSC	PAPERTIOUS INVESTMENTS INC.	No Municipal Address Caledon ON	S/35.7	1.22	53
9	GEN	North Hill Animal Hospital	14182 Hwy 50 N. Bolton ON	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Hwy 50 N. Bolton ON L7E 5R8	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	ESE/39.0	2.61	55
10	SPL	Enbridge Energy Distribution Inc.	151 Taylorwood Ave, Bolton Halton Hills ON	E/49.1	4.58	55
10	PINC	PIPELINE HIT 1/2"	151 TAYLORWOOD AVE,,BOLTON,ON, L7E 1S8,CA ON	E/49.1	4.58	56
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	56
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	58

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	58
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	59
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	59
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	60
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	61
12	CA	WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	ESE/81.3	4.34	61
12	CA	WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	ESE/81.3	4.34	62
13	PINC		13 Foxbury Place, Caledon ON	E/89.3	-2.37	62
13	PINC	PIPELINE HIT 0.5"	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	E/89.3	-2.37	62
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	63
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	63
14	GEN	Grant Thornton	14124 Regional Road #50 Bolton ON	ESE/117.8	2.61	64
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	64

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	INC		7 Rotarian Way, Caledon ON	ESE/129.6	2.56	64
16	PES	CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	SE/137.9	2.44	65
17	GEN	Progreen Demolition Ltd.	14328 Hwy 50 Bolton ON	SE/161.0	0.55	65
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	66
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	66
18	HINC		14118 Hwy 50 BOLTON ON	SE/182.2	1.28	67
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	67
19	SCT	THE NEEDLEWORKS	8 TAYLORWOOD AVE BOLTON ON L7E 1J2	E/188.7	0.83	67
20	SPL		22-80 Goodfellow Cres., Bolton Caledon ON	E/199.5	0.61	68
21	DTNK	RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	E/209.0	-0.39	68
21	DTNK	RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	E/209.0	-0.39	69
22	SPL	The Regional Municipality of Peel	16 Ewart St Caledon ON L7E 2T3	E/218.6	-0.39	70

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	81.3	12
WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	81.3	12

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Oct 2023 has found that there are 9 DTNK site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON L7E 5R8	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3

Site	Address	Distance (m)	Map Key
YASHRAJ INC	14445 HWY 50 BOLTON ON L7E 3H6	32.0	6
RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	209.0	21
RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	209.0	21

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Oct 2023 has found that there are 5 EXP site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3

FST - Fuel Storage Tank

A search of the FST database, dated Oct 2023 has found that there are 5 FST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 32 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PEEL, REGION OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2

Site	Address	Distance (m)	Map Key
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
PEEL, REGIONAL MUNICIPALITY OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	14.1	2
Petro V Plus	14445 Regional Rd 50 Bolton ON L7E3H6	32.0	6

Site	Address	Distance (m)	Map Key
North Hill Animal Hospital	14182 Hwy 50 N. Bolton ON	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Hwy 50 N. Bolton ON L7E 5R8	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	39.0	9
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11

Site	Address	Distance (m)	Map Key
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
Grant Thornton	14124 Regional Road #50 Bolton ON	117.8	14
Progreen Demolition Ltd.	14328 Hwy 50 Bolton ON	161.0	17

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	14118 Hwy 50 BOLTON ON	182.2	18

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated 31 Oct, 2023 has found that there are 4 INC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA ON	32.0	6
	14475 HIGHWAY 50, CALEDON ON	35.6	7

Site	Address	Distance (m)	Map Key
	7 Rotarian Way, Caledon ON	129.6	15

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Sep 30, 2024 has found that there are 9 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	14220 Hwy 50 HWY CALEDON ON L7E 3E2	14.1	2
CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	14.1	2
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	137.9	16
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18

Site	Address	Distance (m)	Map Key
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 4 PINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PIPELINE HIT 4"	EMIL KOLB PKWY & KING ST,,BOLTON, ON,,CA ON	0.0	1
PIPELINE HIT 1/2"	151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8,CA ON	49.1	10
PIPELINE HIT 0.5"	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	89.3	13
	13 Foxbury Place, Caledon ON	89.3	13

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Oct 2024 has found that there are 1 RSC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PAPERTIOUS INVESTMENTS INC.	No Municipal Address Caledon ON	35.7	8

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Apr 30, 2024 has found that there are 1 RST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
S & F SERVICE	14445 HWY 50 BOLTON ON L7E3H6	32.0	6

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 6 SCT site(s) within approximately 0.25 kilometers of the project property.

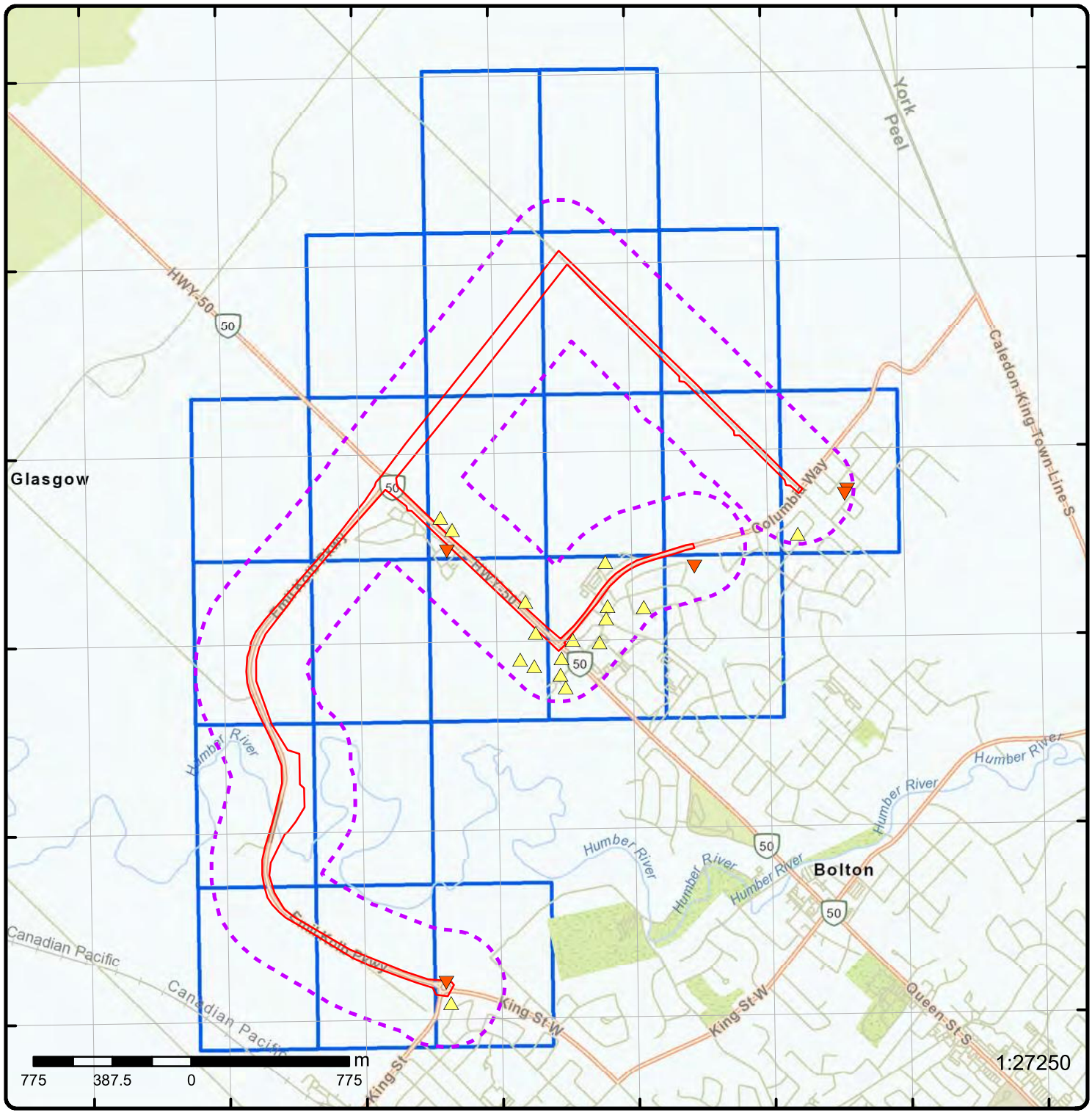
Site	Address	Distance (m)	Map Key
Caledon Sand & Gravel Inc.	14442 Regional Road 50 Bolton ON L7E 3E2	26.9	5
James Dick Construction Ltd.	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
Hamilton Ready Mix Ltd.	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
James Dick Construction Ltd.	14442 Regional Road 50 Bolton ON L7E 3E2	26.9	5
James Dick Concrete Aggregates	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
THE NEEDLEWORKS	8 TAYLORWOOD AVE BOLTON ON L7E 1J2	188.7	19

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2024 has found that there are 10 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Enbridge Gas Distribution Inc.	Emil Colb Parkway @ King Street Caledon ON	0.0	1

Site	Address	Distance (m)	Map Key
	60 Alderbrook Place, Bolton Caledon ON	21.3	4
CALEDON HYDRO	14442 HWY 50 (JAMES DICK CONSTRUCTION) TRANSFORMER/CAPACITOR CALEDON TOWN ON	26.9	5
James Dick Construction Limited	14442 Hwy 50 Caledon ON	26.9	5
	by 14445 Regional Rd 50, Bolton Caledon ON	32.0	6
Facility Maintenance & Construction Inc.	14445 Regional Rd. 50 Caledon ON NA	32.0	6
	14475 Highway 50 Caledon ON	35.6	7
Enbridge Energy Distribution Inc.	151 Taylorwood Ave, Bolton Halton Hills ON	49.1	10
	22-80 Goodfellow Cres., Bolton Caledon ON	199.5	20
The Regional Municipality of Peel	16 Ewart St Caledon ON L7E 2T3	218.6	22



Map: 0.25 Kilometer Radius

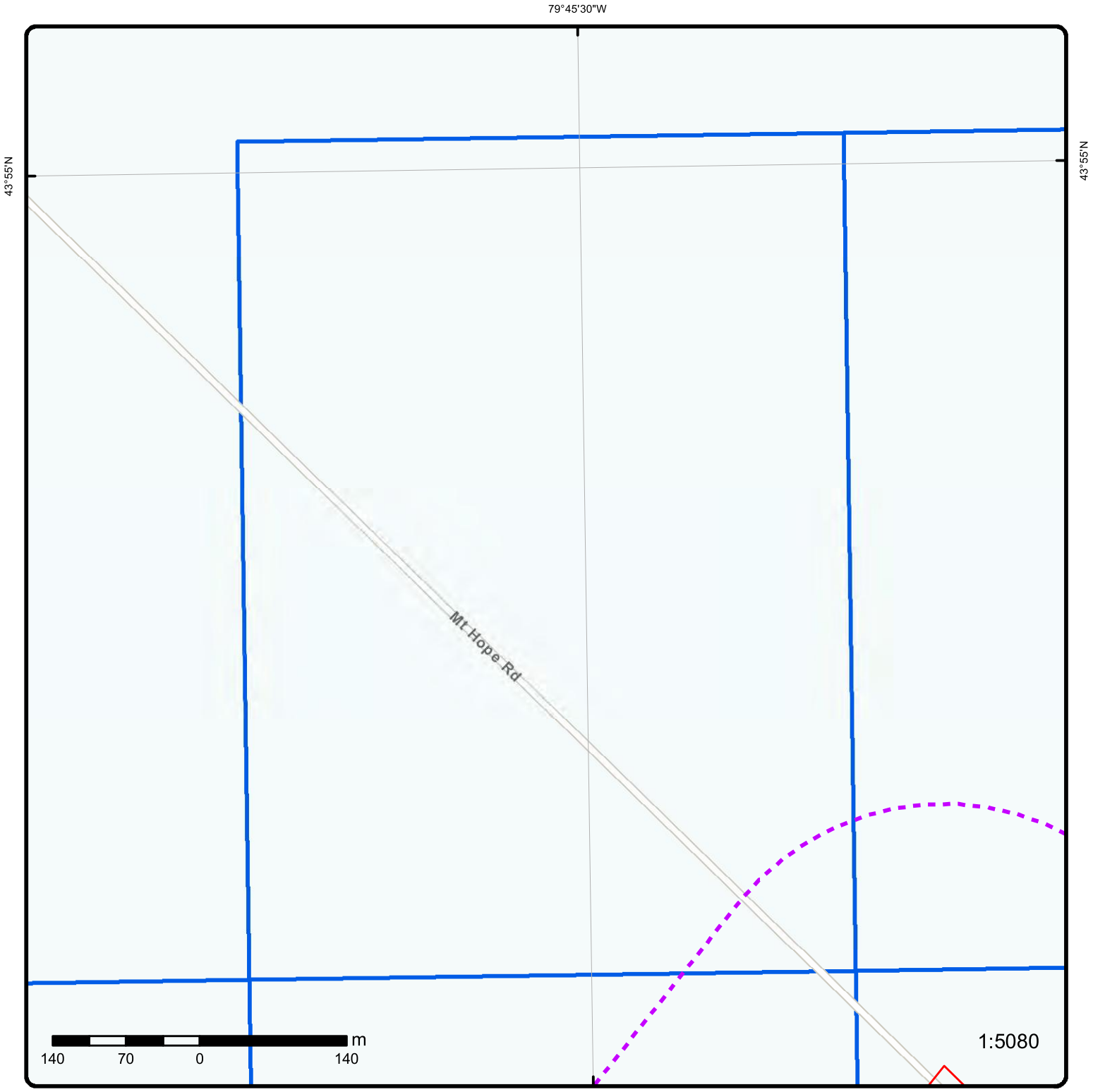
Order Number: 24112100344

Address: n/a, Caledon, ON

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 1

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

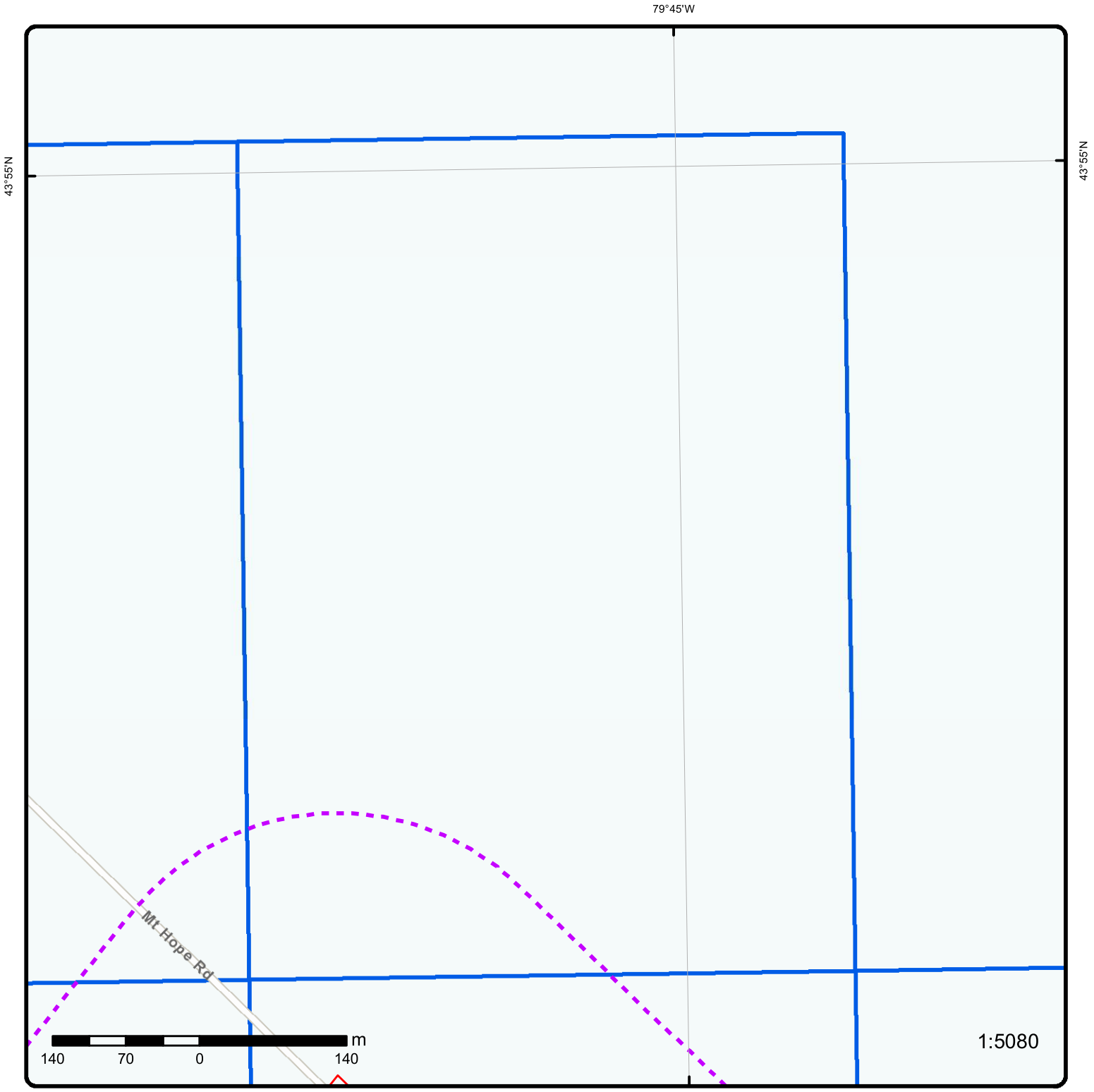
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

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Grid: 2

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

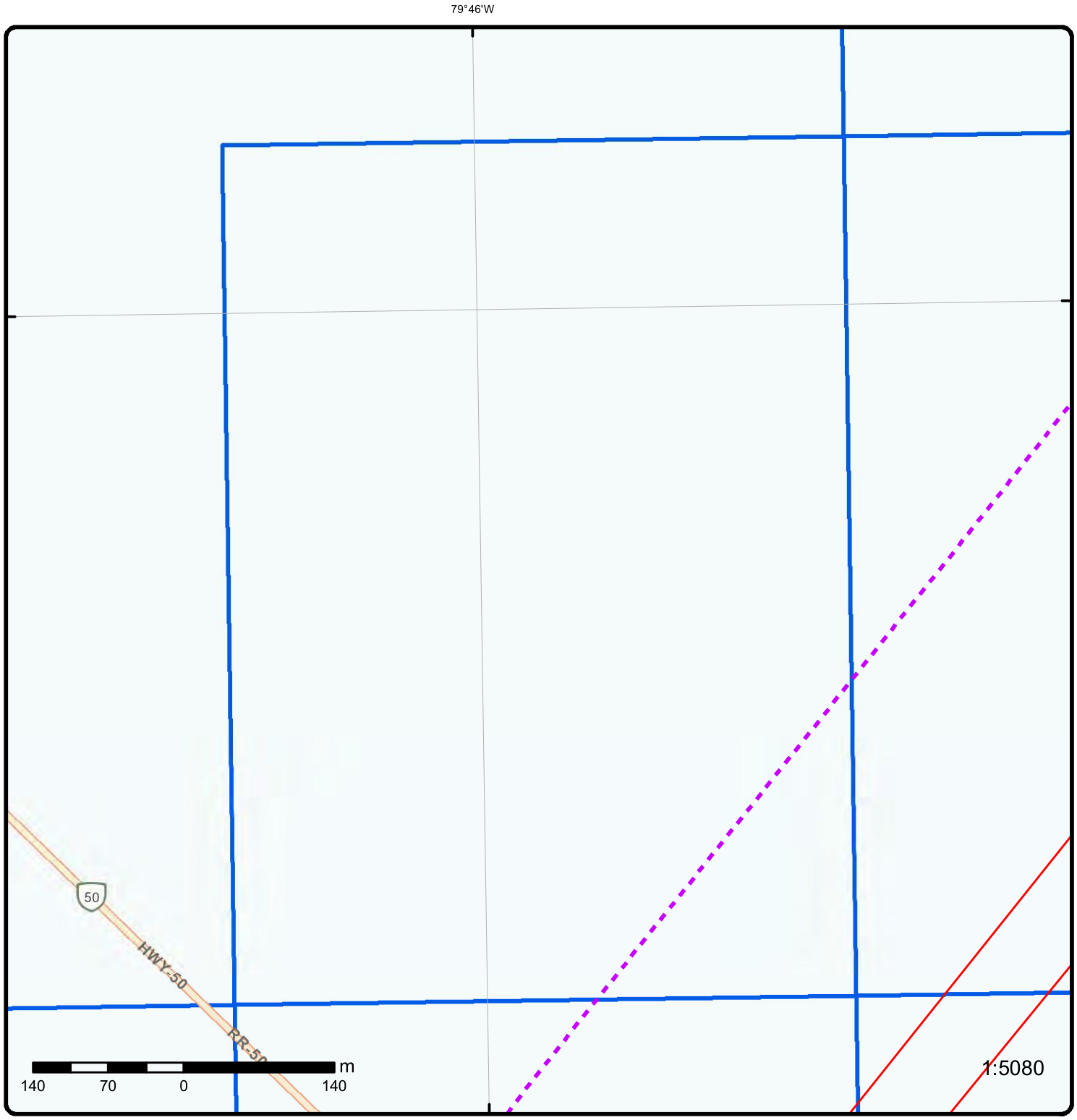
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership



Grid: 3

Order Number: 24112100344

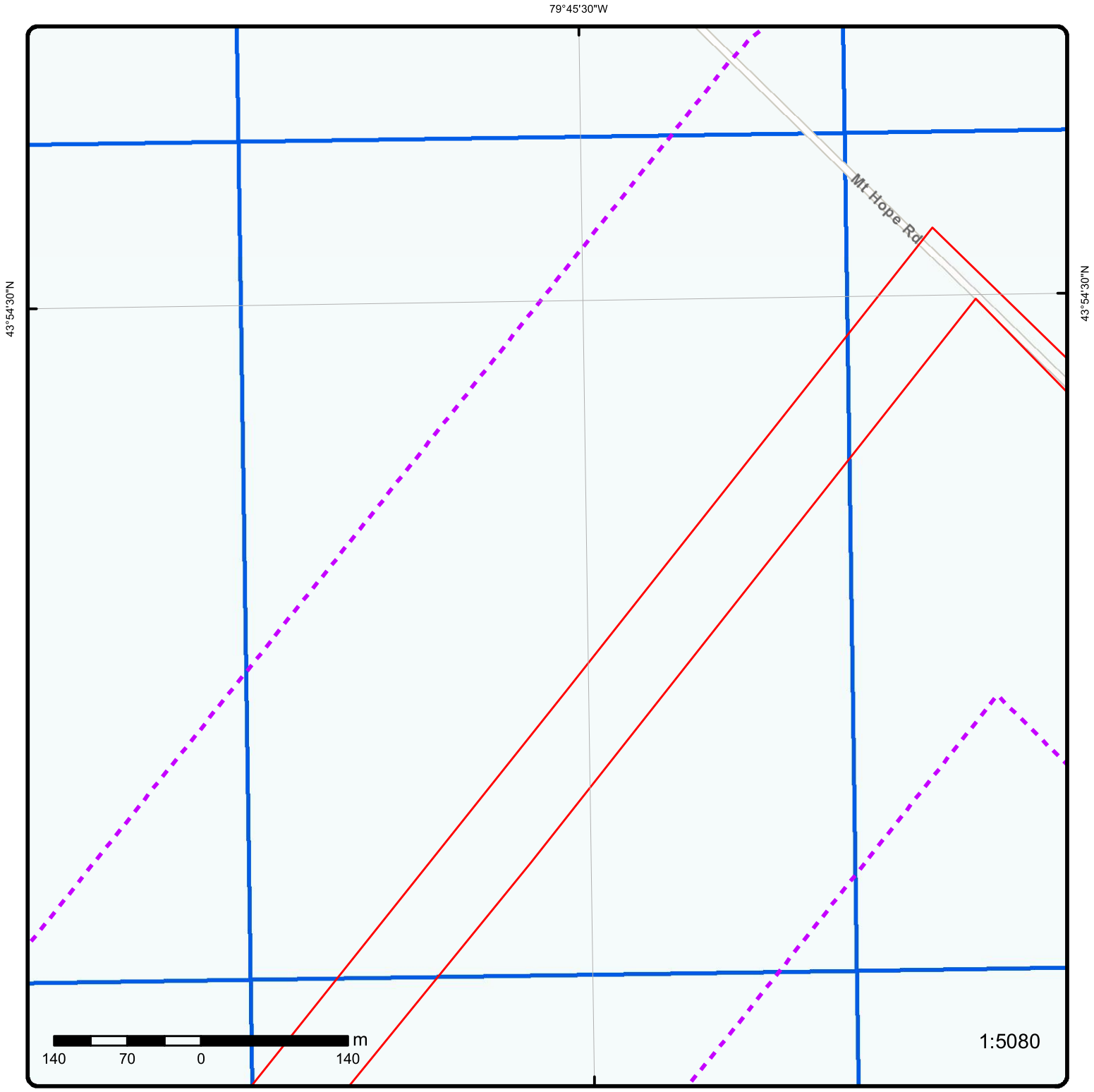
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 4

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

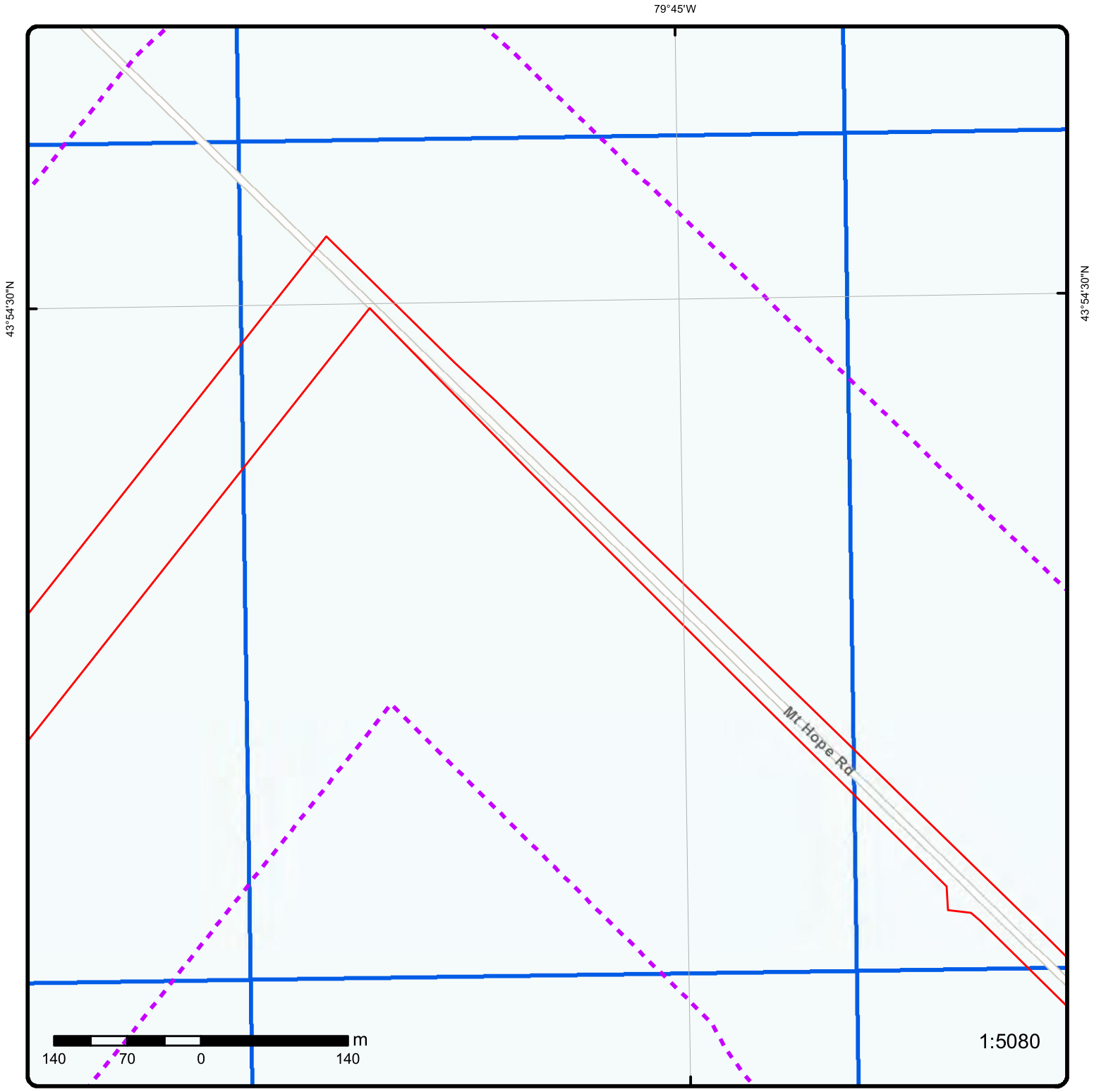
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

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Grid: 5

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

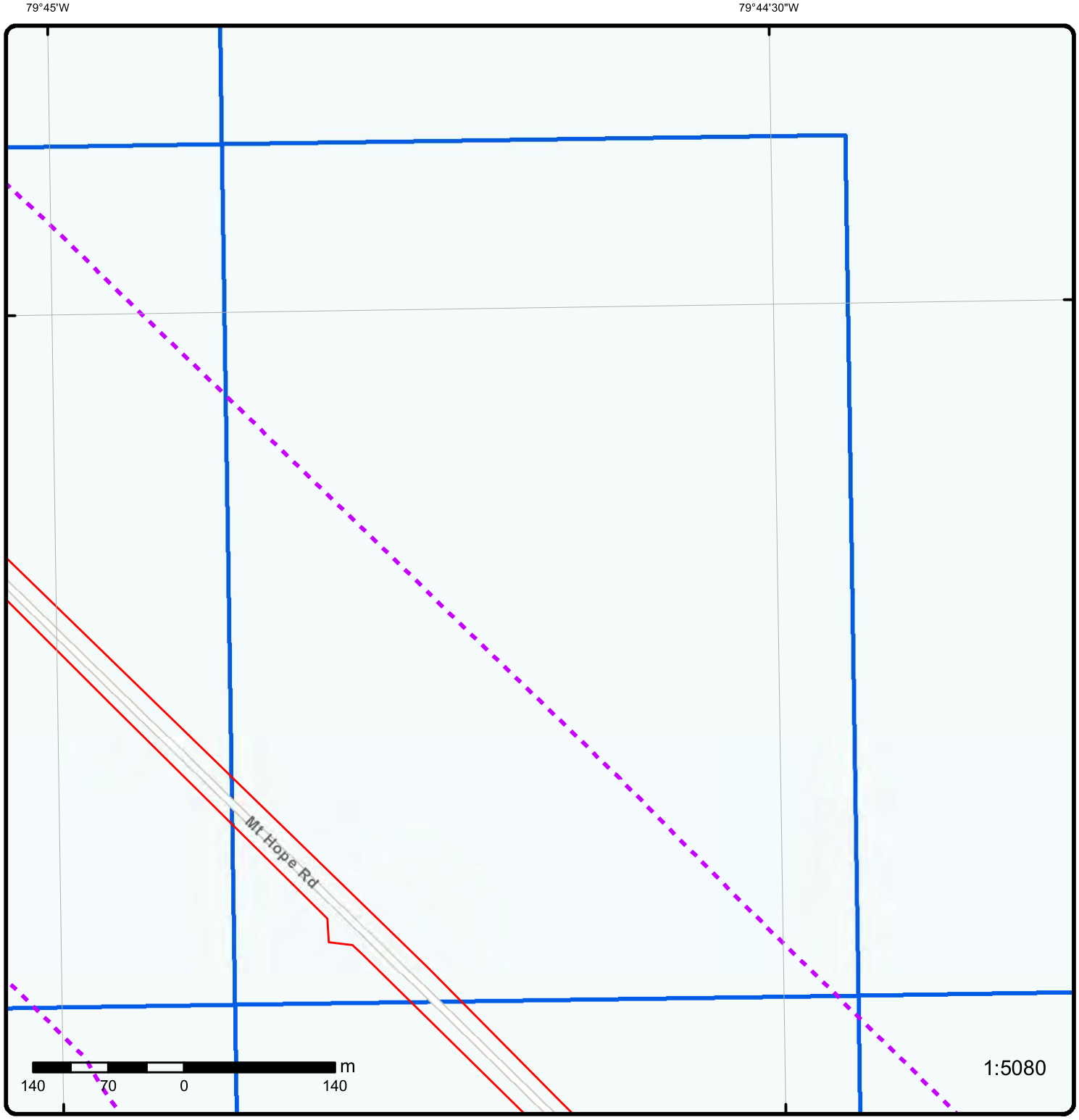
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership



Grid: 6

Order Number: 24112100344

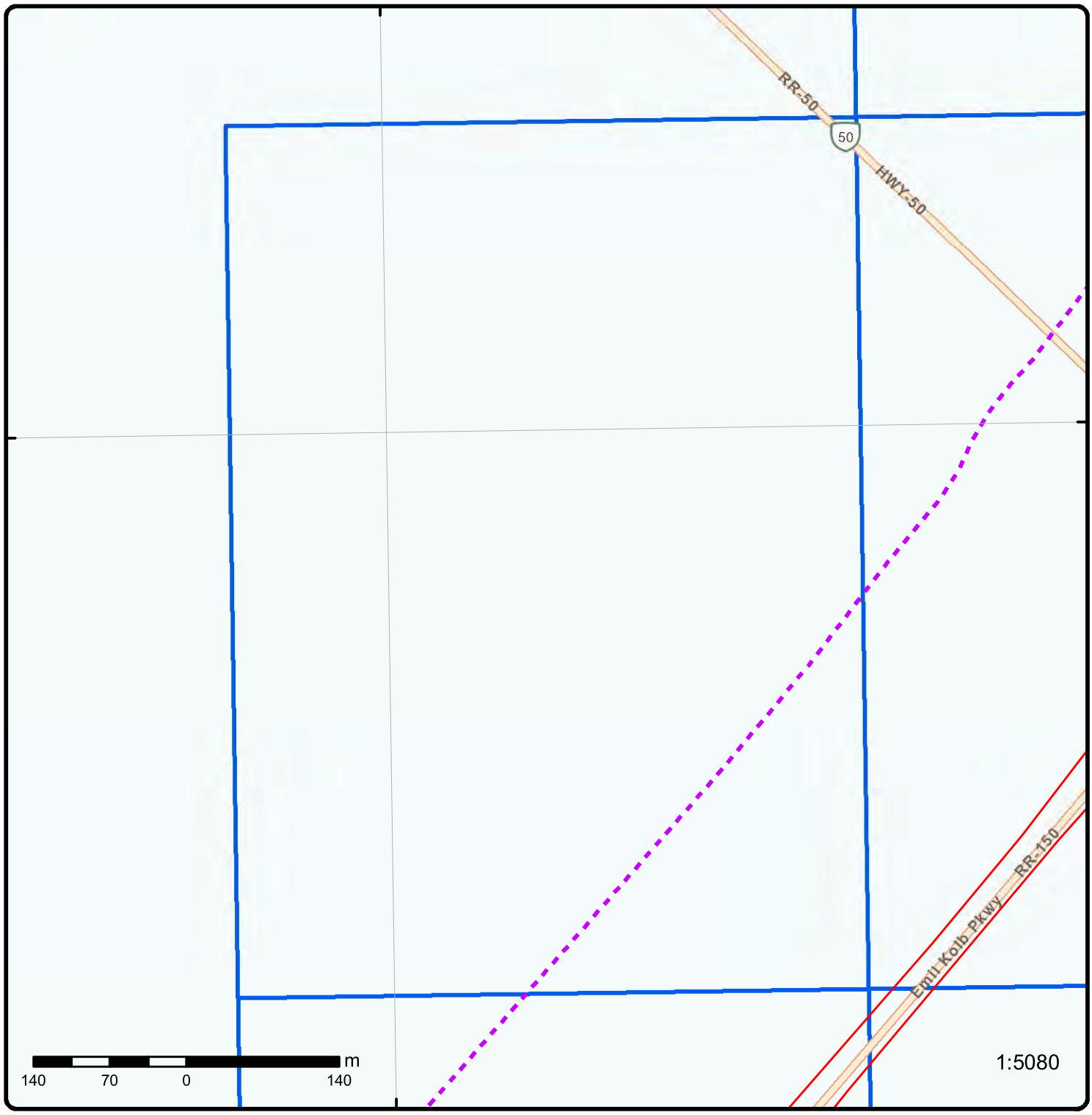
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 7

Order Number: 24112100344

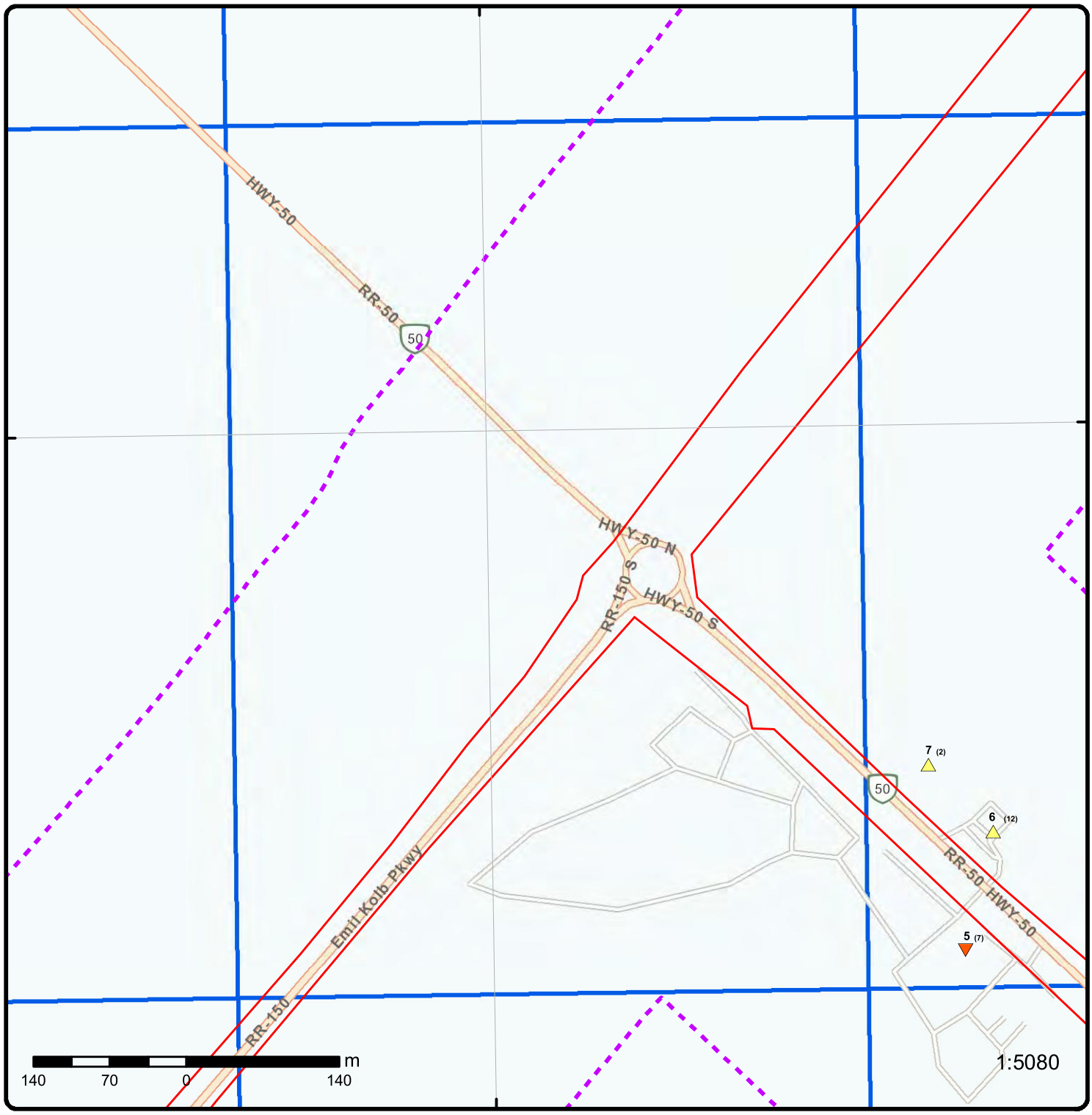
Address: n/a, Caledon, ON

ERIS

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

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Grid: 8

Order Number: 24112100344

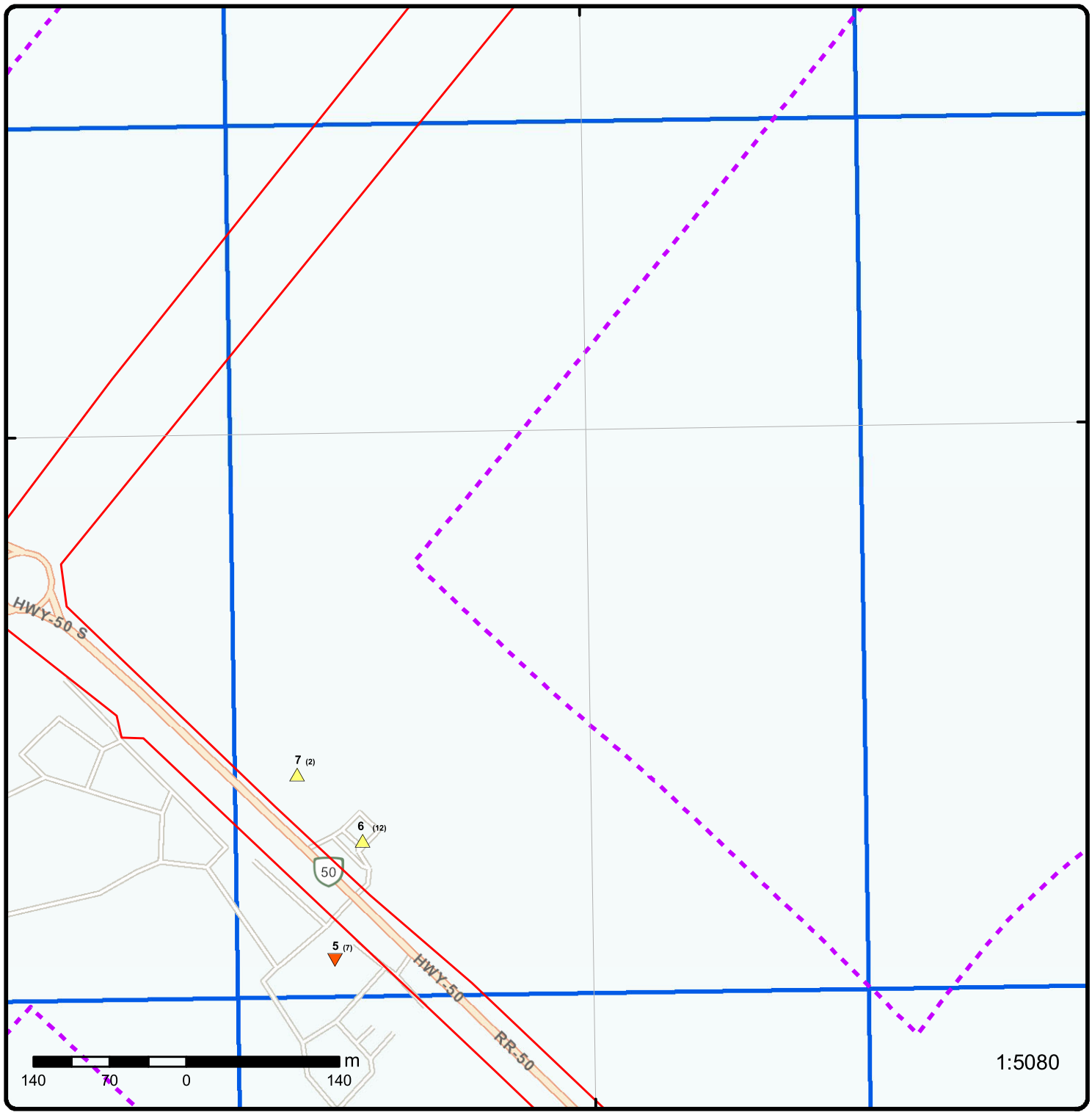
Address: n/a, Caledon, ON

ERIS

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

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Grid: 9

Order Number: 24112100344

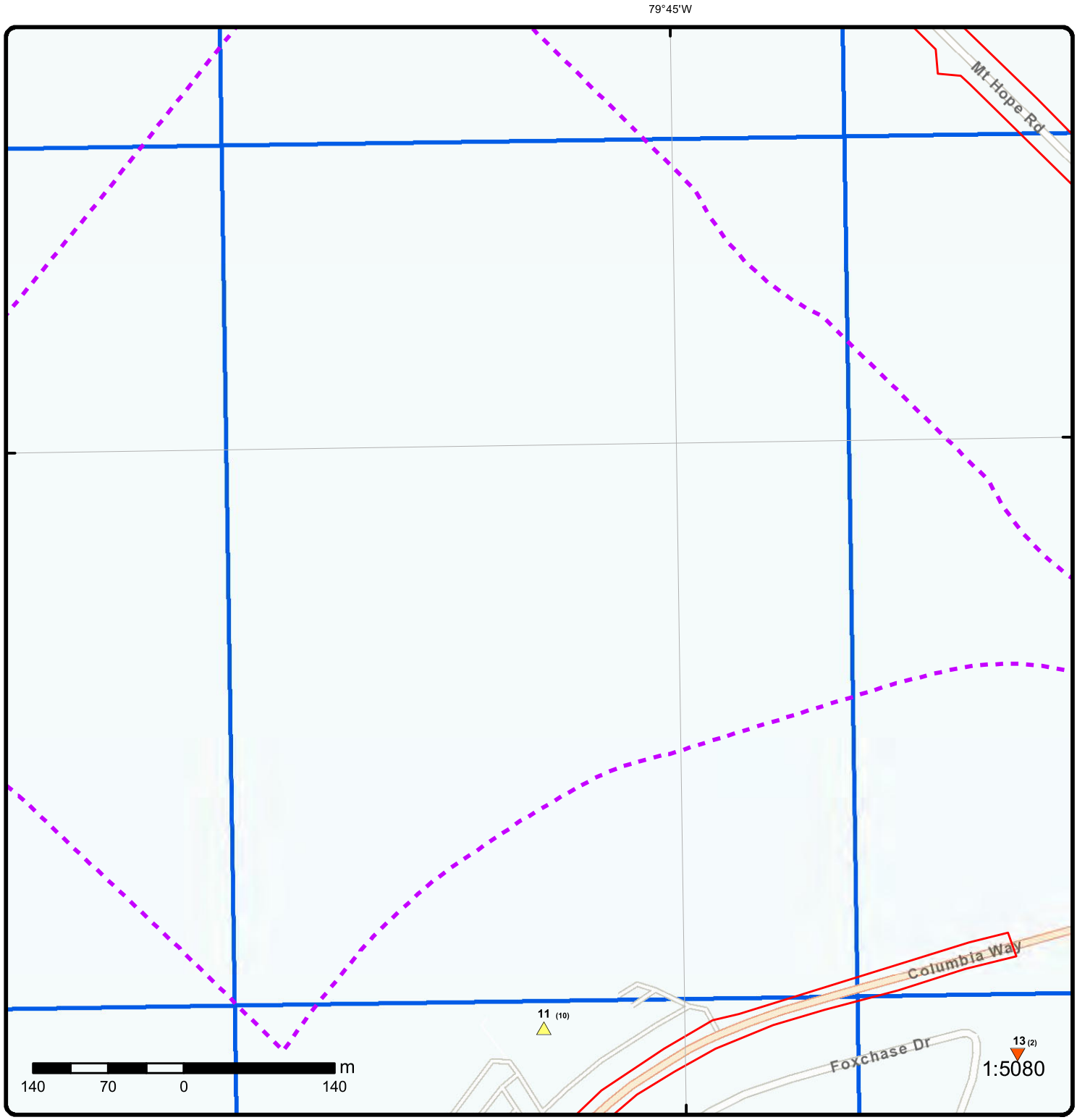
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 10

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

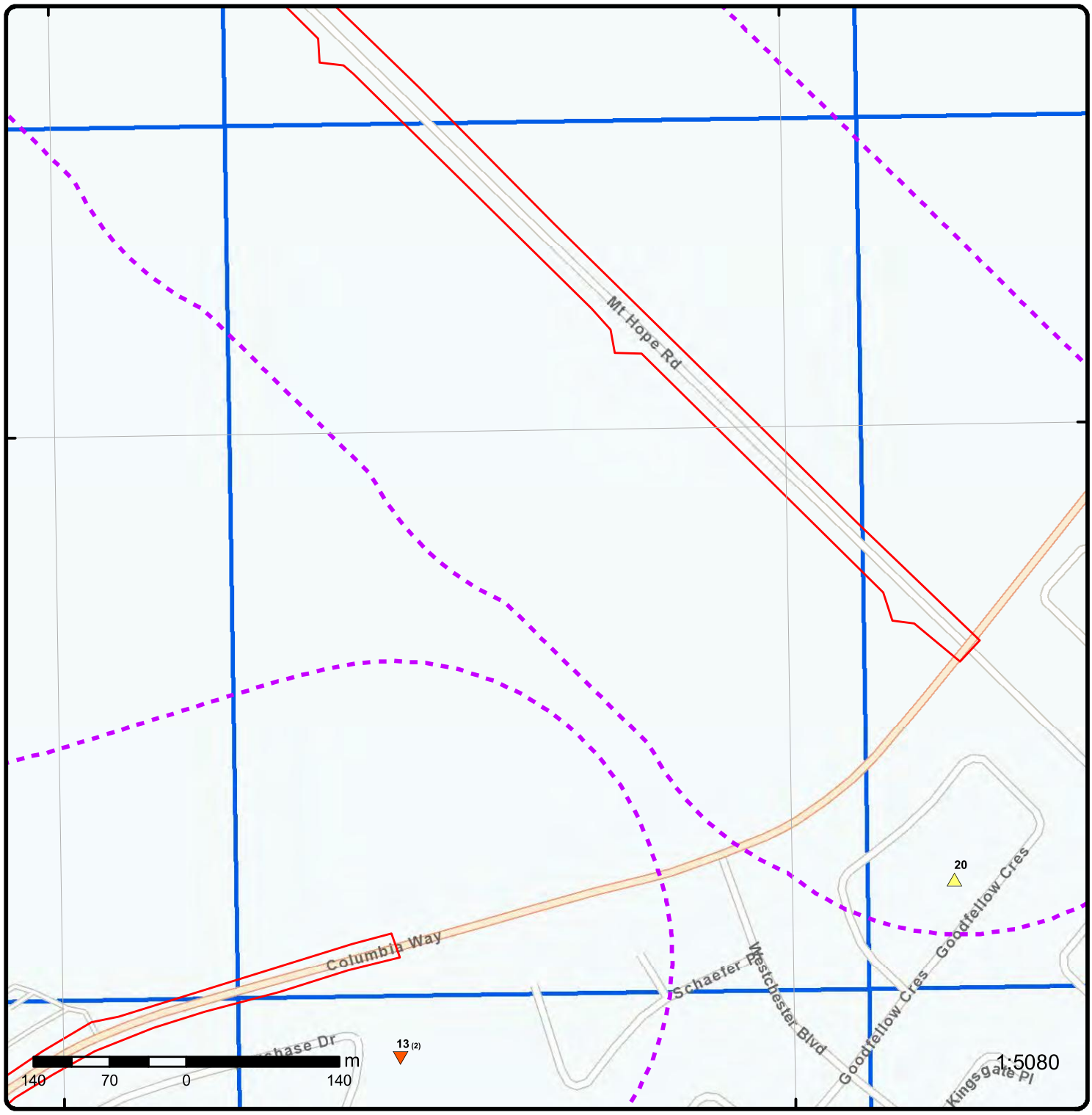
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 11

Order Number: 24112100344

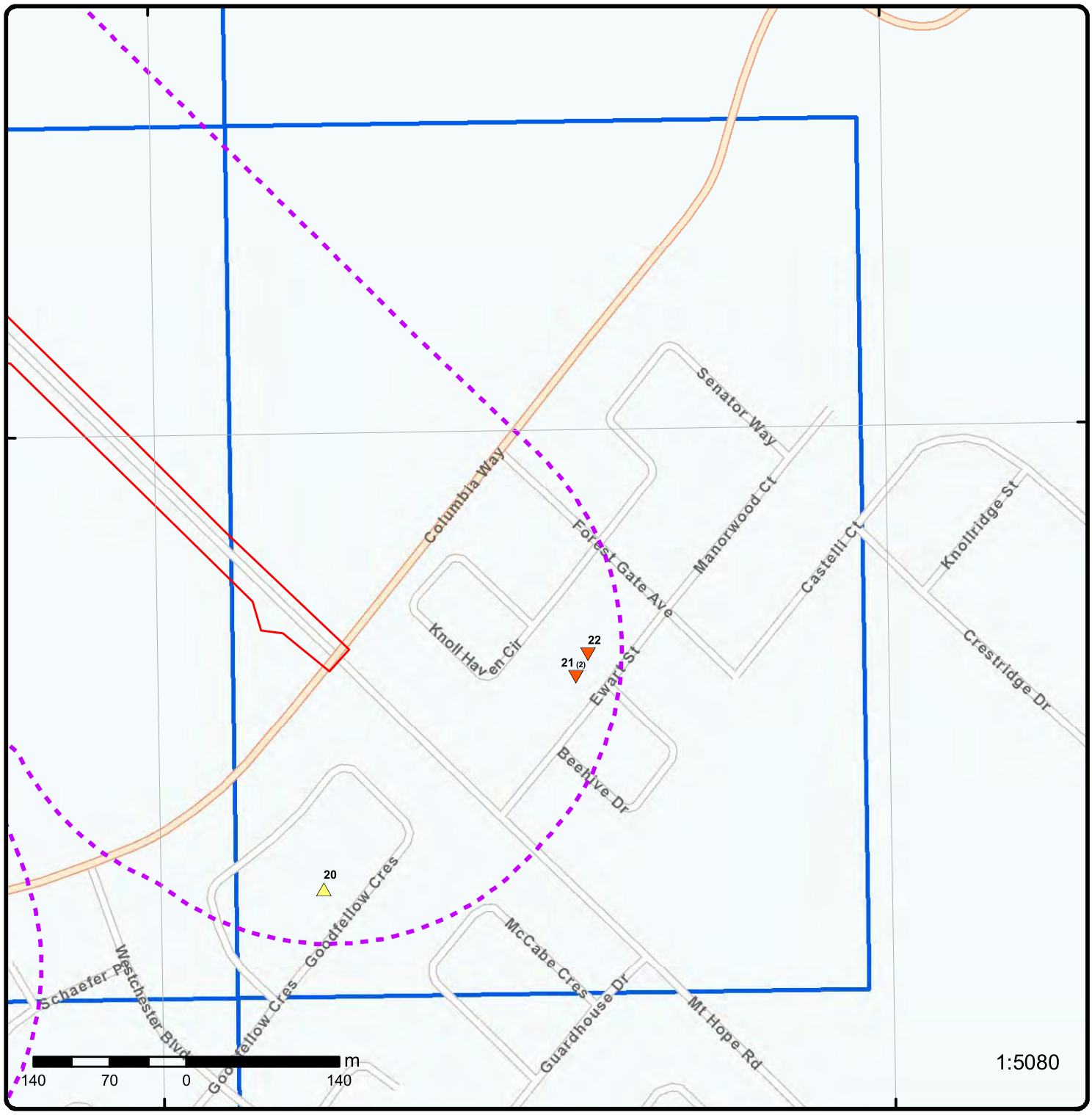
Address: n/a, Caledon, ON

ERIS

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

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Grid: 12

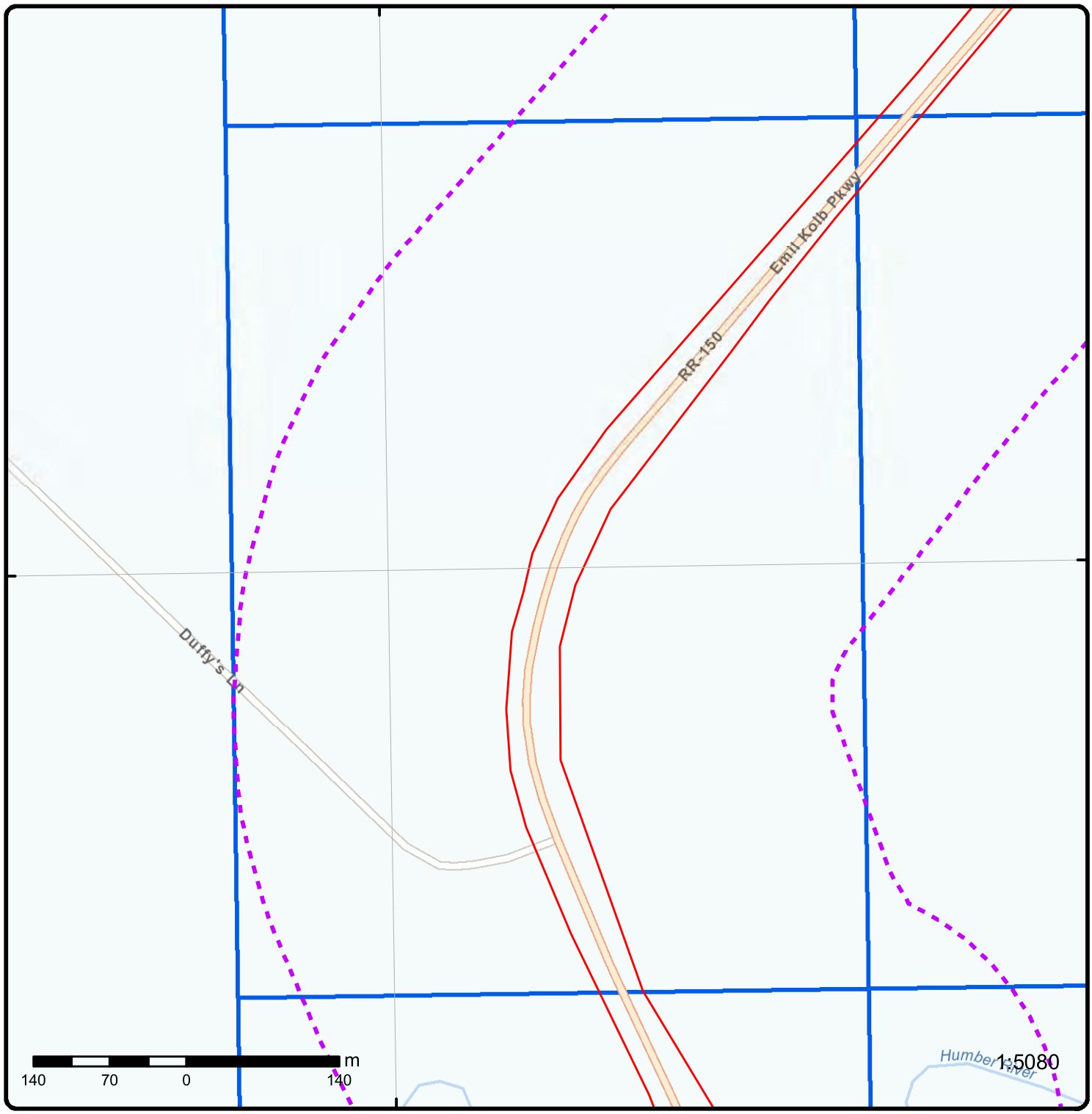
Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium. © ERIS Information Limited Partnership



Grid: 13

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

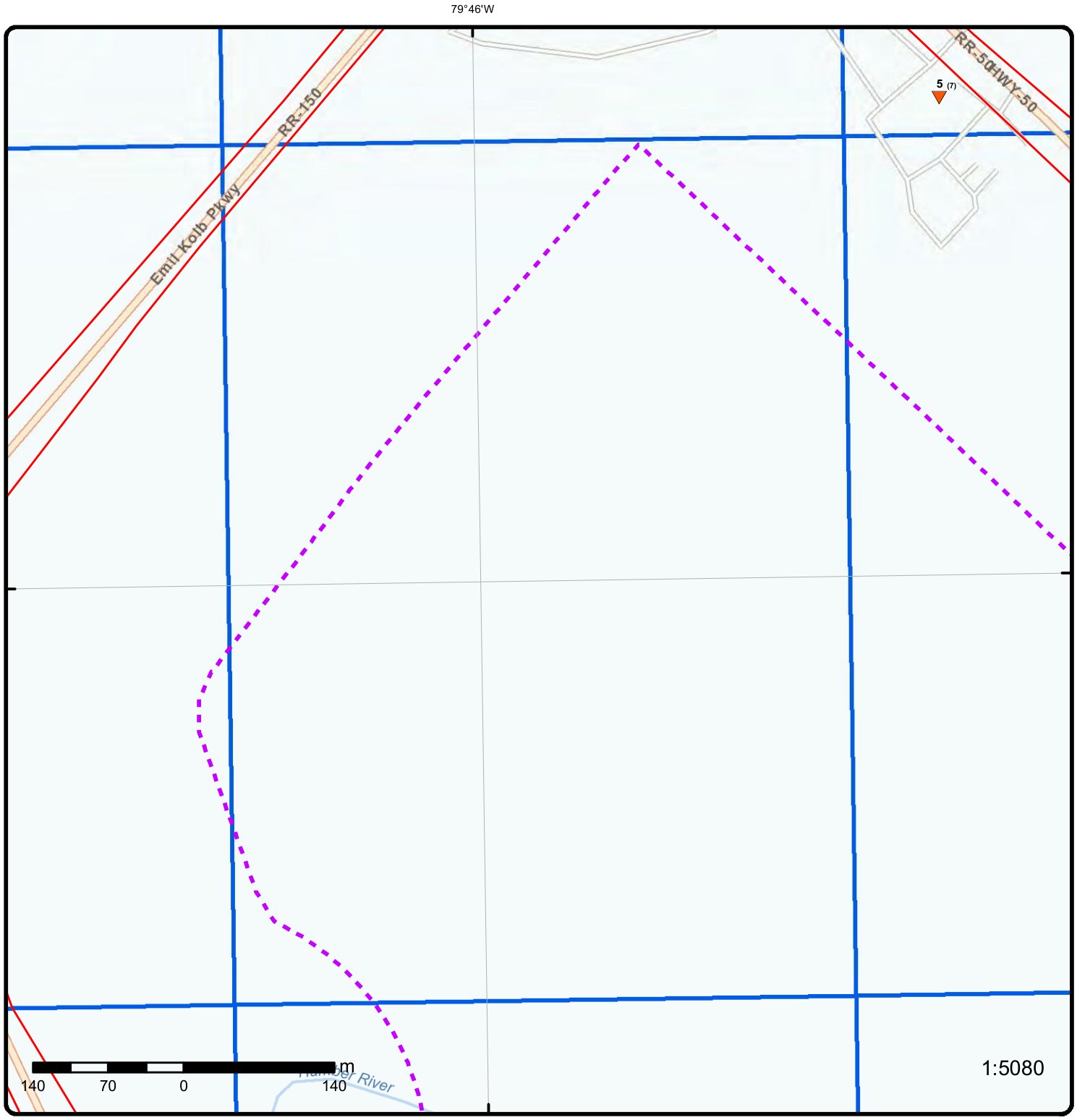
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 14

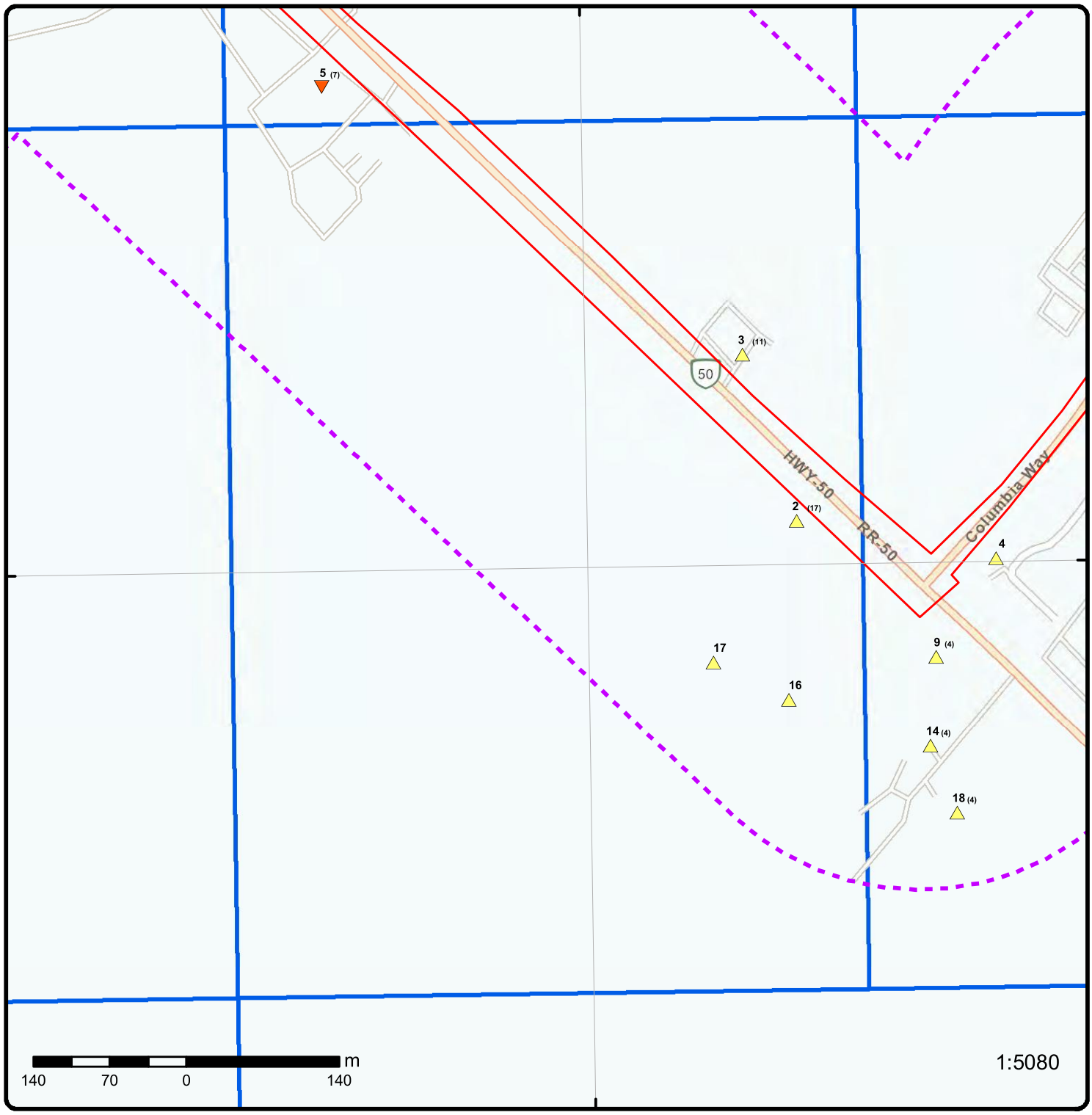
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 15

Order Number: 24112100344

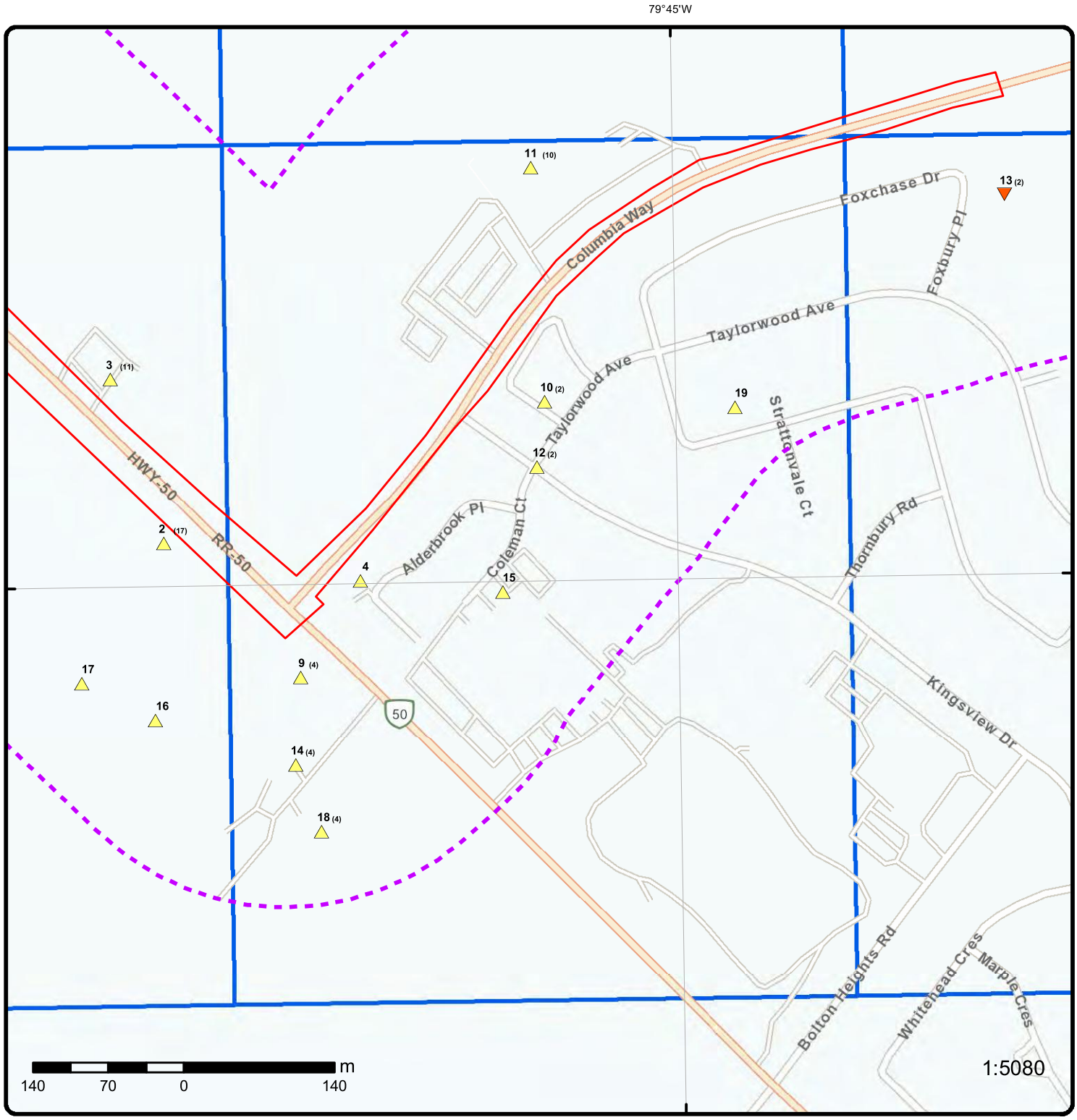
Address: n/a, Caledon, ON

ERIS

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

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Grid: 16

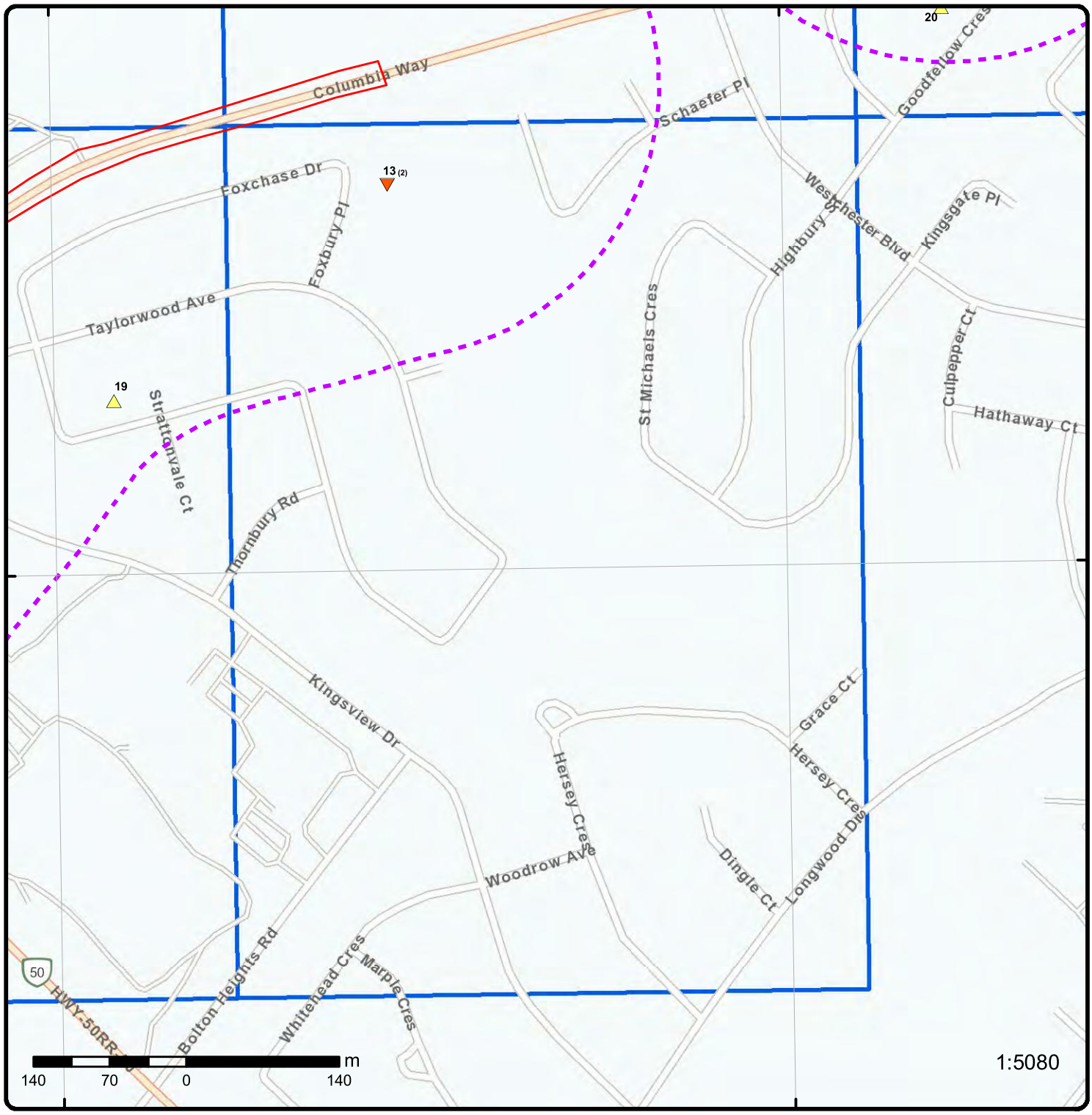
Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

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Grid: 17

Order Number: 24112100344

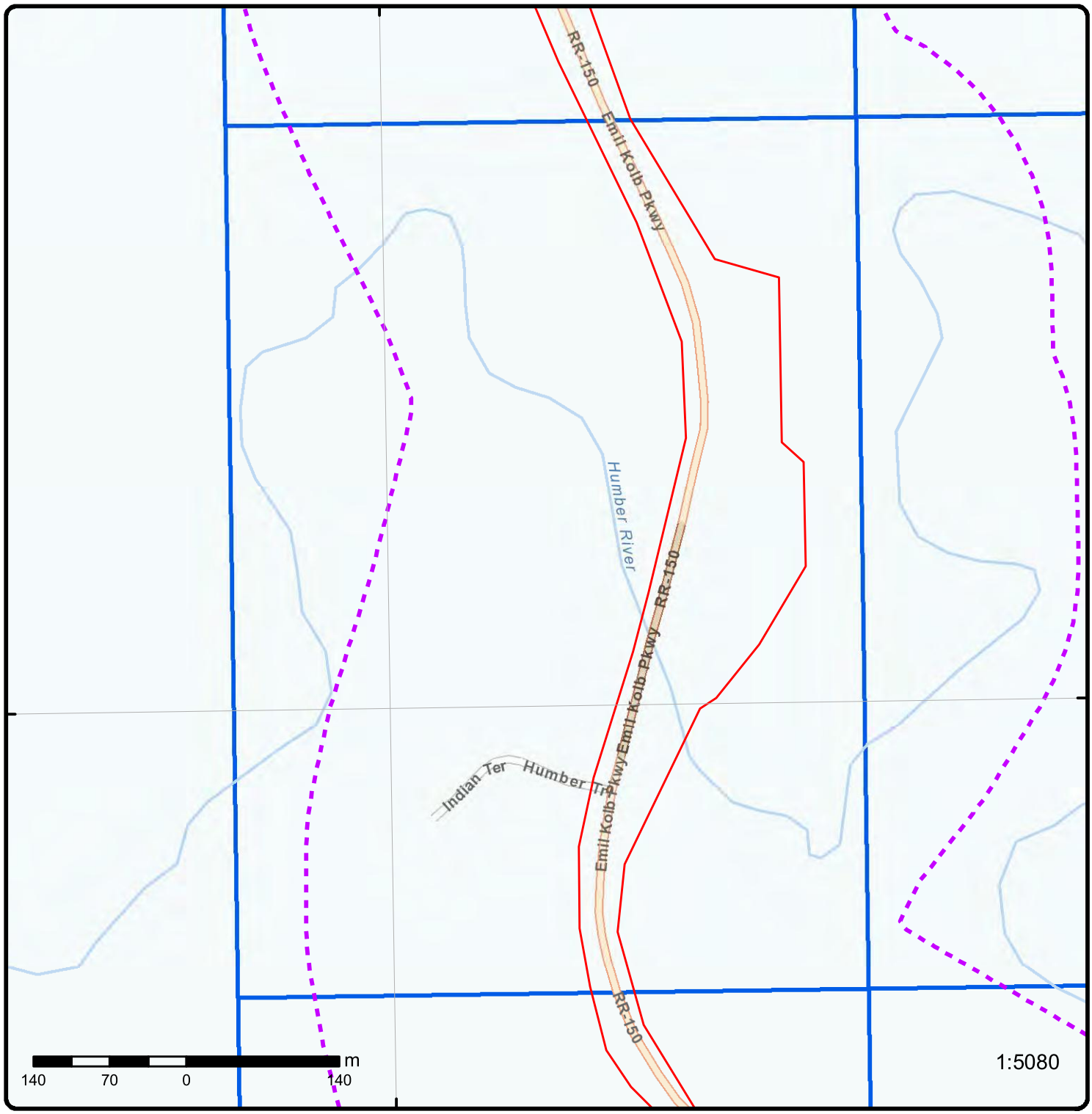
Address: n/a, Caledon, ON

ERIS

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

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Grid: 18

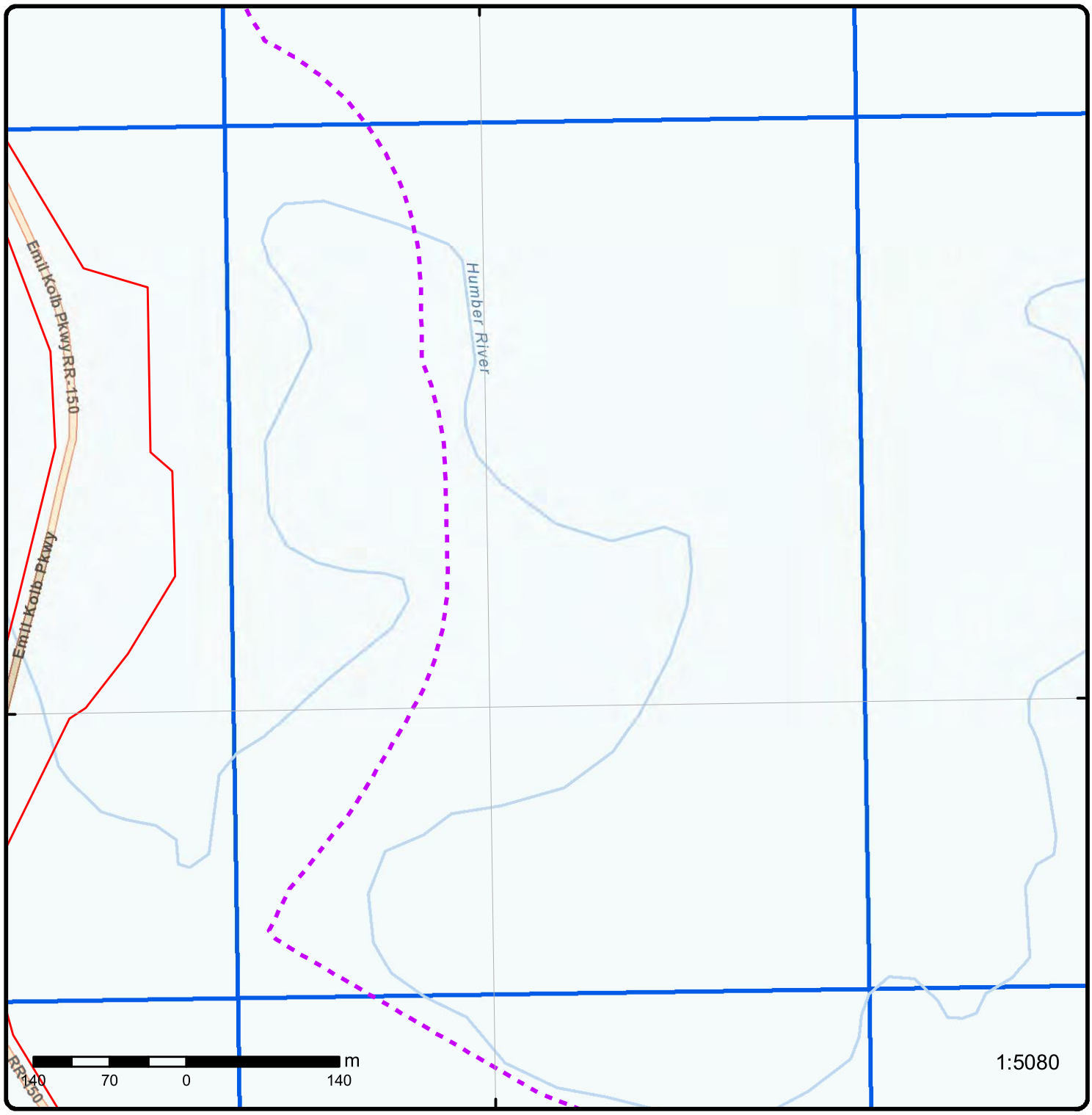
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 19

Order Number: 24112100344

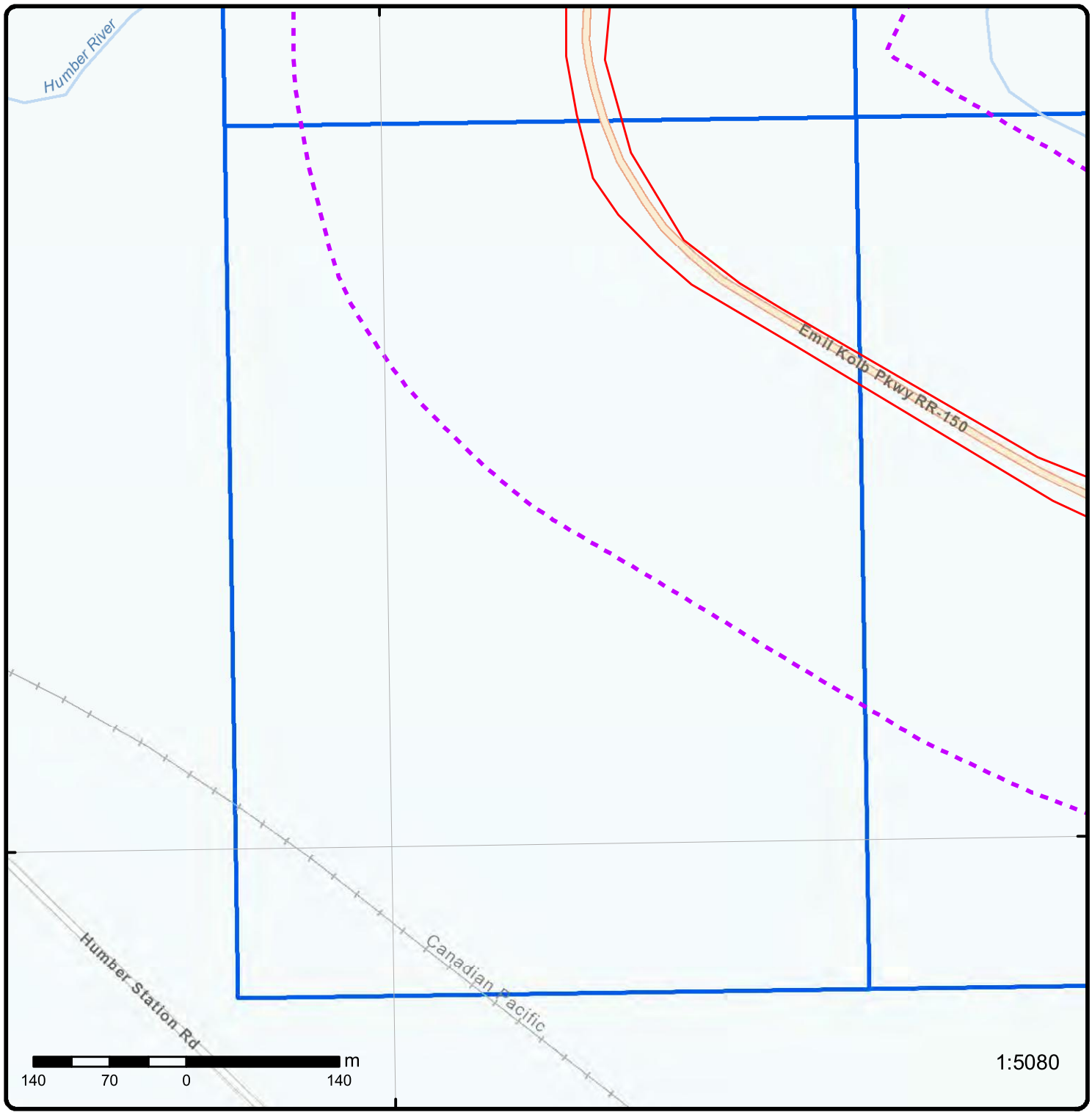
Address: n/a, Caledon, ON

ERIS

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

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Grid: 20

Order Number: 24112100344

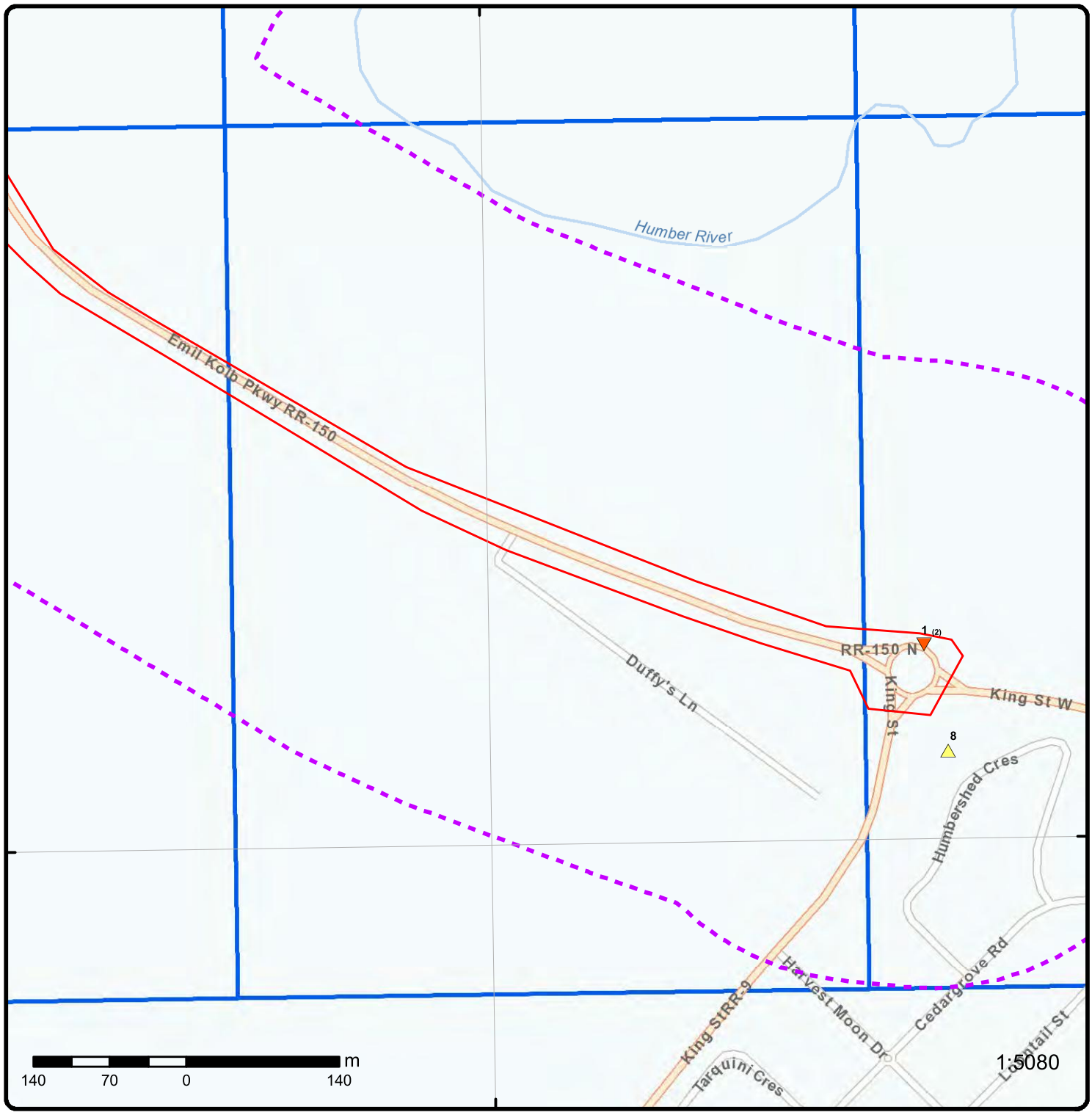
Address: n/a, Caledon, ON

ERIS

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

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Grid: 21

Order Number: 24112100344

Address: n/a, Caledon, ON

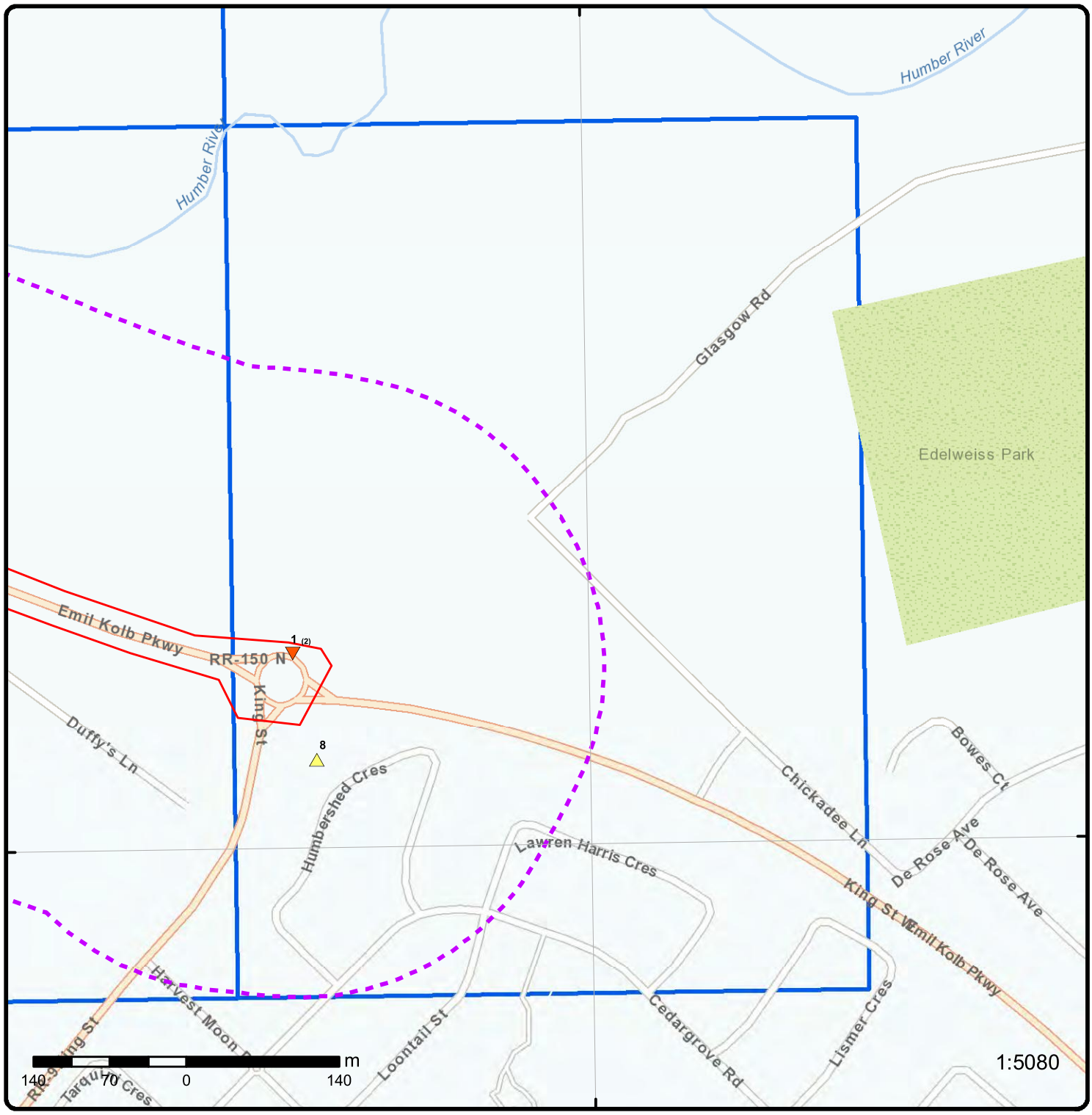
ERIS

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

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79°45'30"W



43°52'30"N

43°52'30"N

Grid: 22

Order Number: 24112100344

Address: n/a, Caledon, ON

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

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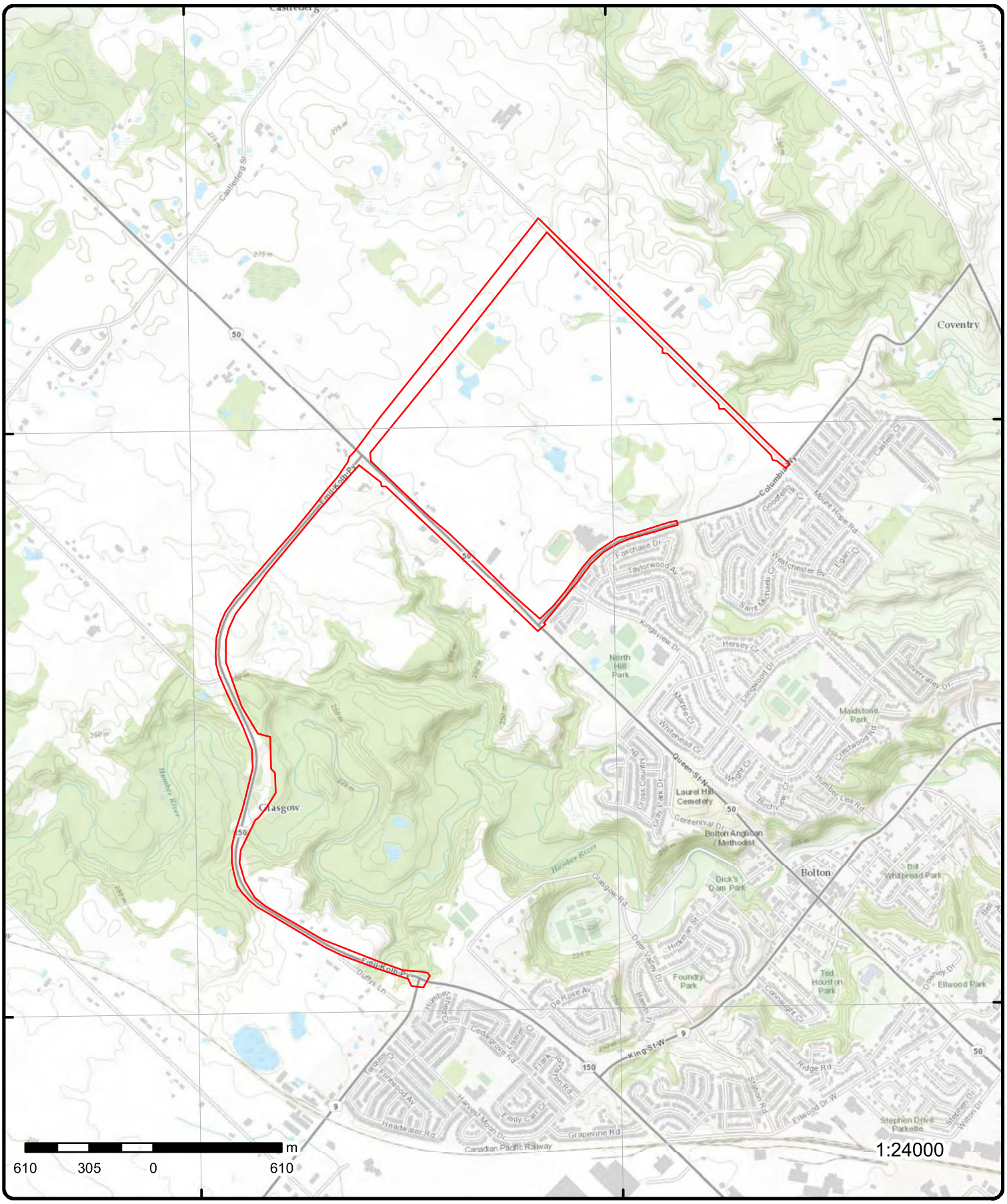
Aerial **Year: 2022**

Address: n/a, Caledon, ON

Source: ESRI World Imagery

Order Number: 24112100344

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Topographic Map

Address: n/a, ON

Source: ESRI World Topographic Map

Order Number: 24112100344

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 2	S/0.0	248.9 / -11.36	Enbridge Gas Distribution Inc. Emil Colb Parkway @ King Street Caledon ON	SPL

Ref No:	4331-AR4W27	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	9/11/2017	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	9/11/2017	**Impact to Health:**	2 - Minor Environment
Dt Document Closed:		**Agency Involved:**	

Site No:	NA
MOE Response:	No
Site County/District:	Regional Municipality of Peel
Site Geo Ref Meth:	
Site District Office:	Halton-Peel
Nearest Watercourse:	
Site Name:	New debelopment site <UNOFFICIAL>
Site Address:	Emil Colb Parkway @ King Street
Site Region:	Central
Site Municipality:	Caledon
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	1 other - see incident description
Contaminant Qty 1:	1
Contaminant Unit:	other - see incident description
Client Type:	Corporation
Source Type:	Valve/Fitting/Piping
Contaminant Code:	35
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	1075
Receiving Medium:	Air
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA FSB: 4" PL Strike, made safe
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Enbridge Gas Distribution Inc.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 2	S/0.0	248.9 / -11.36	PIPELINE HIT 4" EMIL KOLB PKWY & KING ST,,BOLTON,ON,,CA ON	PINC

Incident Id:
Incident No: 2152590
Incident Reported Dt: 9/12/2017
Type: FS-Pipeline Incident
Status Code:
Tank Status: Closed by Program
Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt:
Depth:
Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:
Attribute Category:
Regulator Location:
Method Details:
Customer Acct Name: PIPELINE HIT 4"
Incident Address: EMIL KOLB PKWY & KING ST,,BOLTON,ON,,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 17	ESE/14.1	264.8 / 4.58	PEEL, REGION OF BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	GEN

Generator No: ON0148320
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.
Approval Years: 93,94,95,96,97
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 17	ESE/14.1	264.8 / 4.58	PEEL, REGIONAL MUNICIPALITY OF BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	GEN

Generator No: ON0148320
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.
Approval Years: 98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	3 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	4 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	5 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2010
PO Box No:
Country:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	6 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	7 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	8 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

2	9 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT
Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.21
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Name: LIGHT FUELS

2	10 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT

Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.21
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

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2 | ***11 of 17*** | ***ESE/14.1*** | ***264.8 / 4.58*** | ***TOWN OF CALEDON***
PUBLIC WORKS YARD 3 14220 HIGHWAY 50
BOLTON ON L7E 3E2 | ***GEN***

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT
Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

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2 | ***12 of 17*** | ***ESE/14.1*** | ***264.8 / 4.58*** | ***TOWN OF CALEDON***
14220 HIGHWAY 50
Caledon ON L7E 3E2 | ***GEN***

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	13 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON 14220 HIGHWAY 50 Caledon ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	14 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON 14220 HIGHWAY 50 Caledon ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

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2 ***15 of 17*** ***ESE/14.1*** ***264.8 / 4.58*** ***TOWN OF CALEDON***
14220 HIGHWAY 50
Caledon ON L7E 3E2 ***GEN***

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221 L
Waste Class Name: LIGHT FUELS

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2 ***16 of 17*** ***ESE/14.1*** ***264.8 / 4.58*** ***14220 Hwy 50 HWY***
CALEDON ON L7E 3E2 ***PES***

Detail Licence No:
Licence No: L-240-5174126238
Status: Active
Approval Date: April 20, 2022
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 43.89055556
Longitude: -79.75611111
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Halton-Peel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

County: **SWP Area Name:** Toronto
Trade Name:
PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2626338

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2 | 17 of 17 | ESE/14.1 | 264.8 / 4.58 | **CORPORATION OF THE TOWN OF CALEDON**
14220 Hwy 50 HWY
CALEDON ON L7E 3E2 | PES

Detail Licence No:
Licence No: L-240-8263435917
Status: Active
Approval Date: July 3, 2024
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 43.89055556
Longitude: -79.75611111
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3561182

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Halton-Peel
SWP Area Name: Toronto

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3 | 1 of 11 | ESE/20.1 | 264.9 / 4.61 | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON L7E 5R8 | DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9707693
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:

Expired Date: 4/24/1996
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Description:					
Original Source:		EXP			
Record Date:		Up to May 2013			
3	2 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10582663	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	28365	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	3 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10582713	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	28614	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012
Piping Underground:
Tank Underground:
Source:

3	*4 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10582634
Status: EXPIRED
Instance ID: 29342
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012
Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

3	*5 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance No:	10582582	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	29680	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

3	*6 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10582760	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	29980	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

---

3 | 7 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582610
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 27200
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Diesel
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | 8 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582690
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | 9 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582555
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Steel
Corrosion Protect: Sacrificial anode
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | 10 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582650
Inventory Status: EXPIRED
Installation Year: 1988
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline

---

3 | **11 of 11** | **ESE/20.1** | **264.9 / 4.61** | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON | **EXP**

Inventory No: 10582737
Inventory Status: EXPIRED
Installation Year: 1988
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Steel
Corrosion Protect: Sacrificial anode
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

4 | **1 of 1** | **ESE/21.3** | **261.8 / 1.52** | **60 Alderbrook Place, Bolton**
Caledon ON | **SPL**

Ref No: 8371-8U5PPY
Year:
Incident Dt: 09-MAY-12
Dt MOE Arvl on Scn:
MOE Reported Dt: 09-MAY-12
Dt Document Closed: 25-JUL-12
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Enbridge Gasline - 1/2 " plastic <UNOFFICIAL>
Site Address: 60 Alderbrook Place, Bolton
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Air Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: TSSA: 1/2 " gasline damage. made safe.
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Other
SAC Action Class: TSSA - Fuel Safety Branch
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

---

5 | ***1 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***CALEDON HYDRO***
14442 HWY 50 (JAMES DICK CONSTRUCTION)
TRANSFORMER/CAPACITOR
CALEDON TOWN ON | ***SPL***

Ref No: 168745 ***Municipality No:*** 21401
Year: ***Nature of Damage:***
Incident Dt: 6/10/1999 ***Discharger Report:***
Dt MOE Arvl on Scn: ***Material Group:***
MOE Reported Dt: 6/10/1999 ***Impact to Health:***
Dt Document Closed: ***Agency Involved:***
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: CALEDON TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: COOLING SYSTEM LEAK
Incident Preceding Spill:
Environment Impact: CONFIRMED
Health Env Consequence:
Nature of Impact: Multi Media Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: EQUIPMENT FAILURE
Incident Summary: CALEDON HYDRO-20 L NON- PCB X-FORMER OIL TO GND, OLD CAR. CLEANED.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	2 of 7	NNE/26.9	259.6 / -0.64	Caledon Sand & Gravel Inc. 14442 Regional Road 50 Bolton ON L7E 3E2	SCT

Established: 01-JUL-66
Plant Size (ft²):
Employment:

--Details--
Description: Sand and Gravel Mining and Quarrying
SIC/NAICS Code: 212323

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	3 of 7	NNE/26.9	259.6 / -0.64	James Dick Construction Ltd. 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	4 of 7	NNE/26.9	259.6 / -0.64	James Dick Concrete Aggregates 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	5 of 7	NNE/26.9	259.6 / -0.64	Hamilton Ready Mix Ltd. 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1967
Plant Size (ft²):
Employment: 15

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

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5 | ***6 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***James Dick Construction Ltd.***
14442 Regional Road 50
Bolton ON L7E 3E2 | ***SCT***

Established: 01-JUL-64
Plant Size (ft²): 10000
Employment:

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

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5 | ***7 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***James Dick Construction Limited***
14442 Hwy 50
Caledon ON | ***SPL***

Ref No: 2568-8P4D39
Year:
Incident Dt: 11/30/2011
Dt MOE Arvl on Scn: 11/30/2011
MOE Reported Dt: 11/30/2011
Dt Document Closed:
Site No:
MOE Response: Planned Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: James Dick Truck Storage Yard
Site Address: 14442 Hwy 50
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: NA
Easting: NA
Incident Cause:
Incident Preceding Spill:
Environment Impact: Possible
Health Env Consequence:
Nature of Impact: Soil Contamination; Surface Water Pollution
Contaminant Qty: 500 L
Contaminant Qty 1: 500
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: MVA: truck fire causing diesel and hyd.oil spill to road.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: James Dick Construction Limited

6	1 of 12	NNE/32.0	264.1 / 3.89	S & F SERVICE 14445 HWY 50 BOLTON ON L7E3H6	RST

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

6	2 of 12	NNE/32.0	264.1 / 3.89	YASHRAJ INC 14445 HWY 50 BOLTON ON L7E 3H6	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9771810
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description:

Expired Date: 12/7/2009 10:39
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Original Source:		EXP			
Record Date:		Up to May 2013			

6 **3 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64470999	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **4 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64471000	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **5 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64471001	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **6 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64470998	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	50000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	7 of 12	NNE/32.0	264.1 / 3.89	by 14445 Regional Rd 50, Bolton Caledon ON	SPL

Ref No:	0241-9HTLC9	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	2014/03/20	**Discharger Report:**	
Dt MOE Arvl on Scn:	2014/04/28	**Material Group:**	
MOE Reported Dt:	2014/04/03	**Impact to Health:**	
Dt Document Closed:	2014/07/03	**Agency Involved:**	
Site No:	NA		
MOE Response:	Deferred Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	Bell manhole<UNOFFICIAL>		
Site Address:	by 14445 Regional Rd 50, Bolton		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Unknown / N/A		
Incident Preceding Spill:			
Environment Impact:	Confirmed		
Health Env Consequence:			
Nature of Impact:	Soil Contamination		
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:			
Source Type:			
Contaminant Code:	15		
Contaminant Name:	PETROLEUM OIL (N.O.S.)		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Oily black water in Bell manhole		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Unknown / N/A		
SAC Action Class:	Land Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	8 of 12	NNE/32.0	264.1 / 3.89	PETRO V PLUS LTD O/A ESSO 14445 HWY 50 BOLTON ON	INC

Incident No:	1776110	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:	49134275	**Service Intrp:**	
Status Code:		**Was Prop Damaged:**	
Incident Status:	Causal Analysis Complete	**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Task No:		**Indus App. Type:**	
Attribute Category:	FS-Incident	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	12/22/2015	**Operation Pressure:**	
Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:	12/22/2015	**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Leak	**Contam. Migrated:**	
Occur Type Rpt:	Leak	**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Gasoline	**Sub Surface Contam:**	
Fuel Type Reported:	Transportation Fuel	**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14445 HWY 50		
Invent Postal Code:	L7E 3H6		
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	Underground piping damaged while ashphalt being cut		
Operation Type Involved:	Retail Fuel Station (FS, SS, Multifunctional)		

6	9 of 12	NNE/32.0	264.1 / 3.89	**Facility Maintenance & Construction Inc.** **14445 Regional Rd. 50** **Caledon ON NA**	SPL

Ref No:	7830-A5FS4W	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	12/22/2015	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	12/22/2015	**Impact to Health:**	
Dt Document Closed:		**Agency Involved:**	
Site No:	5614-A5GNC8		
MOE Response:	No		
Site County/District:			
Site Geo Ref Meth:	NA		
Site District Office:			
Nearest Watercourse:			
Site Name:	Esso Gas Station		
Site Address:	14445 Regional Rd. 50		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:	NA		

Site Map Datum:	NA
Northing:	NA
Easting:	NA
Incident Cause:	
Incident Preceding Spill:	
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 L
Contaminant Qty 1:	0
Contaminant Unit:	L
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA FSB Esso: Product line cut by contractor
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Other
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Facility Maintenance & Construction Inc.

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6 | **10 of 12** | **NNE/32.0** | **264.1 / 3.89** | **Petro V Plus**
14445 Regional Rd 50
Bolton ON L7E3H6 | **GEN**

Generator No:	ON5794264
SIC Code:	447110
SIC Description:	447110
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Giulio Dinuzzo
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	416-2006268 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

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6 | **11 of 12** | **NNE/32.0** | **264.1 / 3.89** | **PETRO V PLUS LTD O/A ESSO**
14445 HWY 50,,BOLTON,ON,L7E 3H6,CA
ON | **INC**

Incident No:	1776104	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:		**Service Intrp:**	
Status Code:		**Was Prop Damaged:**	
Incident Status:		**Reside App. Type:**	

Incident Severity:		***Commer App. Type:***	
Task No:		***Indus App. Type:***	
Attribute Category:	FS-Incident	***Institut App. Type:***	
Context:		***Depth Ground Cover:***	
Date of Occurrence:	12/22/2015	***Operation Pressure:***	
Time of Occurrence:		***Equipment Type:***	
Occr Insp Start Dt:		***Equipment Model:***	
Incident Creat On:		***Serial No:***	
Instance Creat Dt:		***Cylinder Capacity:***	
Instance Install Dt:		***Cylinder Cap Units:***	
Approx Quant Rel:		***Cylinder Mat Type:***	
Tank Capacity:		***Pump Flow Rate Cap:***	
Fuels Occur Type:		***Contam. Migrated:***	
Occur Type Rpt:		***Near Body of Water:***	
Occur Category:		***Drainage System:***	
Fuel Type Involved:		***Sub Surface Contam:***	
Fuel Type Reported:		***Tank Material Type:***	
Enforcement Policy:		***Tank Storage Type:***	
Prc Escalation Req:		***Tank Location Type:***	
Item:	FS GASOLINE STATION - SELF SERVE		
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:			
Operation Type Involved:			

6	***12 of 12***	***NNE/32.0***	***264.1 / 3.89***	***PETRO V PLUS LTD O/A ESSO*** ***14445 HWY 50*** ***BOLTON ON***	***FST***

Inventory No:	49134275	***Tank Material:***	
Inventory Status:	Active	***Corrosion Protect:***	
Installation Year:		***Overfill Protection:***	
Capacity:	125000	***Inventory Context:***	Liquid Fuels
Capacity Unit:	L	***Inventory Item:***	FS Gasoline Station - Self Serve
Tank Type:			
Manufacturer:			
Model:			
Description:			

7	***1 of 2***	***N/35.6***	***265.9 / 5.61***	***14475 Highway 50*** ***Caledon ON***	***SPL***

Ref No:	1388-9JHT3H	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	2014/04/25	***Discharger Report:***	

Dt MOE Arvl on Scn:	2014/04/29	**Material Group:**	
MOE Reported Dt:	2014/04/25	**Impact to Health:**	
Dt Document Closed:	2014/07/03	**Agency Involved:**	
Site No:	NA		
MOE Response:	Planned Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	diesel spill<UNOFFICIAL>		
Site Address:	14475 Highway 50		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Unknown / N/A		
Incident Preceding Spill:			
Environment Impact:	Confirmed		
Health Env Consequence:			
Nature of Impact:	Soil Contamination		
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:			
Source Type:			
Contaminant Code:	15		
Contaminant Name:	OIL (PETROLEUM BASED, NOT SPECIFIED)		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Unknown source: oil coming up in excavation for cables		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Unknown / N/A		
SAC Action Class:	Primary Assessment of Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

7	2 of 2	N/35.6	265.9 / 5.61	14475 HIGHWAY 50, CALEDON ON	INC

Incident No:	1381602	**Any Health Impact:**	Unknown
Incident ID:		**Any Enviro Impact:**	Unknown
Instance No:		**Service Intrp:**	Unknown
Status Code:		**Was Prop Damaged:**	Unknown
Incident Status:		**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	
Task No:	4895060	**Indus App. Type:**	
Attribute Category:	FS-Perform L1 Incident Insp	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	2014/04/28 00:00:00	**Operation Pressure:**	
Time of Occurrence:	12:00:00	**Equipment Type:**	
Occr Insp Start Dt:	2014/04/28 00:00:00	**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	

Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Leak	**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Fuel Oil	**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:	NULL	**Tank Storage Type:**	
Prc Escalation Req:	NULL	**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14475 HIGHWAY 50, CALEDON - LEAK		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	spill not confirmed of the origin		
Operation Type Involved:	Commercial (e.g. restaurant, business unit, etc)		

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8 | **1 of 1** | **S/35.7** | **261.5 / 1.22** | **PAPERTIOUS INVESTMENTS INC.**
No Municipal Address
Caledon ON | **RSC**

RSC No:	223186	**X:**	-79.7614996397065
RA No:		**Y:**	43.875729743163824
Status:	FILED	**Latitude:**	43.87572974
Filing Date:		**Longitude:**	-79.76149964
Date Ack:		**UTM Coordinates:**	
Date Returned:		**Latitude Longitude:**	
Approval Date:	April 26, 2017	**Accuracy Estimate:**	
Cert Date:		**Measurement Method:**	
Cert Prop Use No:		**Mailing Address:**	
Curr Property Use:		**Telephone:**	
Intended Prop Use:		**Fax:**	
Restoration Type:		**Email:**	
Soil Type:		**Postal Code:**	
Criteria:		**Ministry District:**	
Stratified (Y/N):		**MOE District:**	Halton-Peel
Audit (Y/N):		**SWP Area Name:**	Toronto
Entire Leg Prop. (Y/N):		**Qual Person Name:**	SIMON LAN
CPU Issu Sect 1686:		**Consultant:**	
Business Name:	PAPERTIOUS INVESTMENTS INC.		
Address:	No Municipal Address		
Legal Desc:			
Site Pin:	14326-1098 (LT), 14326-1099 (LT), 14326-1134 (LT), 14326-1331 (LT), 14326-1332 (LT), 14326-1333 (LT), 14326-1334 (LT), 14326-1335 (LT), 14326-1371 (LT), 14326-1372 (LT), 14326-1373 (LT), 14326-1374 (LT), 14326-1377 (LT), 14326-1378 (LT), 14330-0545 (LT)		
Asmt Roll No:			
Project Type:	POST2011		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type: RSC based on Phase One and Two ESAs
Applicable Standards:
PDF Link: https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=223186

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9 | ***1 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital*** ***14182 Hwy 50 N.*** ***Bolton ON*** | ***GEN***

Generator No: ON6173942
SIC Code:
SIC Description:
Approval Years: 03
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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9 | ***2 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital Professional Corp.*** ***14182 Hwy 50 N.*** ***Bolton ON L7E 5R8*** | ***GEN***

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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9 | ***3 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital Professional Corp.*** ***14182 Regional Road 50*** ***Bolton ON*** | ***GEN***

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 321
Waste Class Name: EXPLOSIVE MANUFACTURING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	4 of 4	ESE/39.0	262.9 / 2.61	North Hill Animal Hospital Professional Corp. 14182 Regional Road 50 Bolton ON	GEN

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	1 of 2	E/49.1	264.8 / 4.58	Enbridge Energy Distribution Inc. 151 Taylorwood Ave, Bolton Halton Hills ON	SPL

Ref No: 2548-AXR42E
Year:
Incident Dt: 2018/04/11
Dt MOE Arvl on Scn:
MOE Reported Dt: 2018/04/11
Dt Document Closed: 2018/05/18
Site No: NA
MOE Response: No
Site County/District: Regional Municipality of Halton
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: 1/2 inch plastic IP<UNOFFICIAL>
Site Address: 151 Taylorwood Ave, Bolton
Site Region: Central
Site Municipality: Halton Hills
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 other - see incident description
Contaminant Qty 1:	0
Contaminant Unit:	other - see incident description
Client Type:	Corporation
Source Type:	Pipeline/Components
Contaminant Code:	35
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Limit 1:	
Contam Limit Freq 1:	n/a
Contaminant UN No 1:	1075
Receiving Medium:	Air
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA 1/2 inch plastic IP damage, made safe
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Enbridge Energy Distribution Inc.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	2 of 2	E/49.1	264.8 / 4.58	**PIPELINE HIT 1/2"** **151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8, CA** **ON**	PINC

Incident Id:		**Pipe Material:**	
Incident No:	2281852	**Fuel Category:**	
Incident Reported Dt:	4/12/2018	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT 1/2"		
Incident Address:	151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON L7E 4G6**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON6379064
SIC Code: 611110
SIC Description:
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

11	2 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON L7E 4G6**	GEN

Generator No: ON6379064
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

11	3 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON**	GEN

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

11	4 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

11	***5 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

11	***6 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code: 611110

SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Agnes Zielinska
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905-662-0062 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

11	***7 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD*** ***St. Michael S.S., 9130 Columbia Way*** ***Bolton ON L7E 4G6***	***GEN***

Generator No:	ON6379064
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2018
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	148 B
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 C
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 I
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 L
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	263 B
Waste Class Name:	Misc. waste organic chemicals

11	***8 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD***	***GEN***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				St. Michael S.S., 9130 Columbia Way *Bolton ON L7E 4G6*	

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

11	*9 of 10*	*E/79.4*	*261.0 / 0.79*	*DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD* *St. Michael S.S., 9130 Columbia Way* *Bolton ON L7E 4G6*	*GEN*

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

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11 | **10 of 10** | **E/79.4** | **261.0 / 0.79** | **DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD**
St. Michael S.S., 9130 Columbia Way
Bolton ON L7E 4G6 | **GEN**

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 L
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 B
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

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12 | **1 of 2** | **ESE/81.3** | **264.6 / 4.34** | **WYNDCLIFFE DEVELOPMENTS INC.**
COLEMAN CT./KINGSVIEW DR.
CALEDON TOWN ON | **CA**

Certificate #: 3-1348-93-
Application Year: 93
Issue Date: 12/9/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	2 of 2	ESE/81.3	264.6 / 4.34	WYNDCLIFFE DEVELOPMENTS INC. COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	CA

Certificate #: 7-1044-93-
Application Year: 93
Issue Date: 12/9/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 2	E/89.3	257.9 / -2.37	13 Foxbury Place, Caledon ON	PINC

Incident Id:
Incident No: 874068
Incident Reported Dt:
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Tank Status: RC Established
Task No: 4025164
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt: 2012/09/19
Depth:
Customer Acct Name:
Incident Address:
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 13 Foxbury Place, Caledon - 1/2" Pipeline Hit
Reported By: jamie.amodeo@enbridge.com
Affiliation:
Occurrence Desc:
Damage Reason: Notification to one call center made but not sufficient
Notes:

Pipe Material:
Fuel Category: Natural Gas
Health Impact:
Environment Impact:
Property Damage: Yes
Service Interrupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
PSIG:
Attribute Category: FS-Perform P-line Inc Invest
Regulator Location:
Method Details: E-mail

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	2 of 2	E/89.3	257.9 / -2.37	PIPELINE HIT 0.5" 13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	PINC

Incident Id:
Incident No: 979246
Incident Reported Dt: 12/17/2012
Type: FS-Pipeline Incident
Status Code:
Tank Status: Pipeline Damage Reason Est

Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT 0.5"		
Incident Address:	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Limited Vendor	**Oper Phone No:**	
Licence Type Code:	23	**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	2 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Vendor	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Trade Name:					
PDF URL:					

14	3 of 4	ESE/117.8	262.9 / 2.61	Grant Thornton 14124 Regional Road #50 Bolton ON	GEN

Generator No: ON7434239
SIC Code: 523990
SIC Description: All Other Financial Investment Activities
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

14	4 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:
Licence No: 14279
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class: 01
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 9519944
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

15	1 of 1	ESE/129.6	262.8 / 2.56	7 Rotarian Way, Caledon ON	INC

Incident No: 466328
Incident ID: 2618220
Instance No:
Status Code: Causal Analysis Complete
Incident Status:
Incident Severity:
Task No:
Attribute Category: FS-Incident
Context:
Date of Occurrence:

Any Health Impact:
Any Enviro Impact:
Service Intrp:
Was Prop Damaged:
Reside App. Type:
Commer App. Type:
Indus App. Type:
Institut App. Type:
Depth Ground Cover:
Operation Pressure: IP

Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:		**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:		**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:	Service / Riser Distribution Pipeline		
Pipeline Involved:			
Pipe Material:	Plastic		
Regulator Location:	Outside		
Regulator Type:	Service Regulator (up to 60 psi intake)		
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	7 Rotarian Way, Caledon - 1" Pipeline Hit		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	Contractor had exposed service with Vac Truck.Had valid locates.Operator error.		
Operation Type Involved:			

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16 | **1 of 1** | **SE/137.9** | **262.7 / 2.44** | **CORPORATION OF THE TOWN OF CALEDON**
14220 Hwy 50 HWY
CALEDON ON L7E 3E2 | **PES**

Detail Licence No:		**Operator Box:**	
Licence No:	L-240-6207315806	**Operator Class:**	
Status:	Active	**Operator No:**	
Approval Date:	January 11, 2023	**Operator Type:**	
Report Source:	PEST-Operator	**Oper Area Code:**	
Licence Type:	Operator	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:	43.89055556	**Operator Region:**	
Longitude:	-79.75611111	**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	Halton-Peel
County:		**SWP Area Name:**	Toronto
Trade Name:			
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2830780		

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17 | **1 of 1** | **SE/161.0** | **260.8 / 0.55** | **Progreen Demolition Ltd.**
14328 Hwy 50 | **GEN**

Bolton ON

Generator No: ON6458484
SIC Code: 236110
SIC Description: Residential Building Construction
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

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18 ***1 of 4*** ***SE/182.2*** ***261.5 / 1.28*** ***CALEDON GARDEN GALLERY INC***
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8 ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: General Vendor
Licence Type Code: 22
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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18 ***2 of 4*** ***SE/182.2*** ***261.5 / 1.28*** ***CALEDON GARDEN GALLERY INC***
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8 ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
County:				**SWP Area Name:**	
Trade Name:					
PDF URL:					

18	3 of 4	SE/182.2	261.5 / 1.28	14118 Hwy 50 BOLTON ON	HINC

External File Num:	FS INC 0704-01940
Fuel Occurrence Type:	Pipeline Strike
Date of Occurrence:	4/19/2007
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Construction Site (pipeline strike)
Service Interruptions:	Yes
Property Damage:	Yes
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Peel
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

18	4 of 4	SE/182.2	261.5 / 1.28	CALEDON GARDEN GALLERY INC 14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	PES

Detail Licence No:		**Operator Box:**	
Licence No:	13482	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	General Vendor	**Oper Phone No:**	8570416
Licence Type Code:	22	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

19	1 of 1	E/188.7	261.1 / 0.83	THE NEEDLEWORKS 8 TAYLORWOOD AVE BOLTON ON L7E 1J2	SCT

Established:	1994
Plant Size (ft²):	0
Employment:	0

--Details--
Description: PLEATING, DECORATIVE AND NOVELTY STITCHING, AND TUCKING FOR THE TRADE
SIC/NAICS Code: 2395

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20 | ***1 of 1*** | ***E/199.5*** | ***260.9 / 0.61*** | ***22-80 Goodfellow Cres., Bolton Caledon ON*** | ***SPL***

Ref No: 0163-6ATUN3
Year:
Incident Dt: 3/25/2005
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/25/2005
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: 16-20 Homes<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Unknown
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Surface Water Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason: Unknown - Reason not determined
Incident Summary: Small Qty oil in SS: Flushed to Humber
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Unknown
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Municipality No:
Nature of Damage:
Discharger Report: 0
Material Group: Oil
Impact to Health:
Agency Involved:

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21 | ***1 of 2*** | ***E/209.0*** | ***259.9 / -0.39*** | ***RANDY E NOBES 20 EWART ST NORTHAM IND PARK COBOURG ON*** | ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10462049	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	19733	***Facility Location:***	
Instance Type:	FS Highway Tank - Gas/Diesel	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS HIGHWAY TANK - GASOLINE/DIESEL		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

21	***2 of 2***	***E/209.0***	***259.9 / -0.39***	***RANDY E NOBES*** ***20 EWART ST NORTHAM IND PARK*** ***COBOURG ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10462043	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	20724	***Facility Location:***	
Instance Type:	FS Highway Tank - Gas/Diesel	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			

TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS HIGHWAY TANK - GASOLINE/DIESEL
Original Source: EXP
Record Date: Up to Mar 2012

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22 | ***1 of 1*** | ***E/218.6*** | ***259.9 / -0.39*** | ***The Regional Municipality of Peel***
16 Ewart St
Caledon ON L7E 2T3 | ***SPL***

Ref No: 5552-AE9HWP
Year:
Incident Dt: 9/28/2016
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/29/2016
Dt Document Closed: 10/3/2016
Site No: 0875-AEAHJQ
MOE Response:
Site County/District:
Site Geo Ref Meth: NA
Site District Office:
Nearest Watercourse:
Site Name: Residence
Site Address: 16 Ewart St
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu: NA
Site Map Datum: NA
Northing: NA
Easting: NA
Incident Cause:
Incident Preceding Spill: Leak/Break
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 20 L
Contaminant Qty 1: 20
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason: Equipment Failure
Incident Summary: Region of Peel: swg to roadway and cb's; cleaned
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Municipal Sewage
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: The Regional Municipality of Peel

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Unplottable Summary

Total: 71 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 12 Con 5	Caledon ON	
CA	Vincos Corp.	Part of Lot 10, Concession 5	Caledon ON	
CA	James Dick Construction Limited	mobile facility	Caledon ON	
CA	Vincos Corp.	Part of Lot 10, Concession 5	Caledon ON	
CA	CALEDON SAND & GRAVEL INC.	R.R. #2	CALEDON TOWN ON	
CA	BETOMAT CONCRET PRODUCTS	PART LOT 10 CONC. V	CALEDON TOWN ON	
CA		Part of the West Half of Lot 10, Concession 8	Caledon ON	
CA		Part of the West Half of Lot 10, Concession 8	Caledon ON	
CA	Palgrave Well No. 3	Mount Hope Road	Caledon ON	
CA	Palgrave Well No. 3	Mount Hope Road	Caledon ON	
CA		Part of Lot 10, Concession 5	Caledon ON	
CA		Part of Lot 10, Concession 5	Caledon ON	
CA		Part of W.1/2 Lot 10, Conc. 8 (Albion)	Caledon ON	
CA		Part of W.1/2 Lot 10, Conc. 8 (Albion)	Caledon ON	
CA		Lots 9 and 10, Concession 5	Caledon ON	
CA		Lots 9 and 10, Concession 5	Caledon ON	
CA	CLINT DEVELOPMENTS INC.	PT.LOT 10/CONC. 8, ALBION TWP.	CALEDON TOWN ON	
CA	PAPERTIOUS INVESTMENTS	LOT 10,CON.5/STS.A/C&L	CALEDON ON	

	INC.			
CA	PAPERTIOUS INVESTMENTS INC.	PT.LOTS 9&10, CONC. 5, BOLTON	CALEDON ON	
CA	PAPERTIOUS INVESTMENTS INC.	LOT 10, CON.5/STS.A/C&L	CALEDON ON	
CA	WYNDCLIFFE ESTATES INC. PH. IV	KINGSVIEW DR. HUMBERVIEW HILLS	CALEDON TOWN ON	
CA	R.M. OF PEEL-BOLTON WELL PUMPING STATION	NO. 6 GLASGOW ROAD	CALEDON TOWN ON	
CA	SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS	GOODFELLOW CRES. PH.III ST. II	CALEDON TOWN ON	
CA	WYNDCLIFFE ESTATES INC. PH. IV	KINGSVIEW DR. HUMBERVIEW HILLS	CALEDON TOWN ON	
CA	R.M. OF PEEL ANN ST. /STATION ST.	KING STREET WEST	CALEDON TOWN ON	
CA	SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS	GOODFELLOW CRES.PH. III ST. II	CALEDON TOWN ON	
CA	R.M. OF PEEL	KING ST. WEST (BOLTON)	CALEDON TOWN ON	
CA	JAMES DICK CONSTRUCTION LIMITED	PT.LOT 13/CONC.6, BOLTON	CALEDON TOWN ON	
EBR	James Dick Construction Limited	Mobile facility Caledon, Regional Municipality of Peel TOWN OF CALEDON	ON	
ECA	The Corporation of the Town of Caledon	Columbia Way Lot 10-11 and Concession 7	Caledon ON	L7C 1J6
ECA	James Dick Construction Limited	mobile facility	Caledon ON	L7E 5R8
ECA	Papertious Investments Inc.		Caledon ON	L4K 4R1
FST	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FST	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FSTH	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FSTH	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	Monterra Lumber Mills Limited	Highway 50	Bolton ON	L7E 1M5
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4

GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	KEN'S LAWNMOWER REPAIRS LTD.	LOT 14, CONCESSION 6	CALEDON ON	
GEN	KEN'S LAWNMOWER REPAIRS LTD. 23-511	LOT 14, CONC6, TOWN OF CALEDON C/O R.R. #2	BOLTON ON	L7E 5R8
GEN	KEN'S LAWNMOWER REPAIRS LTD.	LOT 14, CONC6,	TOWN OF CALEDON ON	L7E 5R8
GEN	CALEDON, TOWN OF	PUBLIC WORKS YARD 3 LOT 11, CONCESSION 6	CALEDON EAST ON	L0N 1E0
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	LOT 13, CONCESSION 6	CALEDON ON	
GEN	JAMES DICK CONSTRUCTION LTD. 22-148	LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470	BOLTON ON	L0P 1A0
GEN	JAMES DICK CONSTRUCTION LTD.	LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470	BOLTON ON	L0P 1A0
PES	SAINT'S COLD CREEK NURSERY	R.R. #2, HWY. 50	BOLTON ON	L7E 5R8
PRT	S & F SERVICE DIV OF 490474 ONTARIO LTD	LOT 12 CON 7 HWY 50N	BOLTON ON	
PRT	MBH PETROLEUM SERVICES INC	LOT 13 CON 7	BOLTON ON	

PRT	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
SCT	James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.	Hwy 50	Bolton ON	L7E 5T4
SCT	JAMES DICK CONCRETE AGGREGATES	PO BOX 470 STN MAIN	ON	L7E 5T4
SCT	JAMES DICK CONCRETE AGGREGATES		BOLTON ON	L7E 5T4
SCT	James Dick Construction Ltd.		Bolton ON	
SCT	Caledon Sand & Gravel Inc.	Hwy 50	Bolton ON	L7E 5Z7
SCT	CALEDON SAND & GRAVEL INC.	HIGHWAY 50 RR 1	BOLTON ON	L7E 5Z7
SCT	JAMES DICK CONCRETE AGGREGATES	HWY 50	BOLTON ON	L7E 5T4
SPL	UNKNOWN	HWY 50,BOLTON	CALEDON TOWN ON	
SPL	James Dick Construction Limited	North West Corner	Caledon ON	
SPL	ROTHSAY	HWY 50, 1 KM NORTH OF KING ST IN BOLTON TRANSPORT TRUCK (CARGO)	CALEDON TOWN ON	

Unplottable Report

Site:
Lot 12 Con 5 Caledon ON

Database:
AAGR

Type:	Pit
Region/County:	Peel
Township:	Caledon
Concession:	5
Lot:	12
Size (ha):	0.1
Landuse:	
Comments:	

Site: ***Vincos Corp.***
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	5442-5NKPJW
Application Year:	2003
Issue Date:	6/17/2003
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: ***James Dick Construction Limited***
mobile facility Caledon ON

Database:
CA

Certificate #:	8517-7EDPJG
Application Year:	2008
Issue Date:	6/12/2008
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Vincos Corp.***
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	9272-5TLK7Y
Application Year:	2003
Issue Date:	12/9/2003
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: ***CALEDON SAND & GRAVEL INC.***
R.R. #2 CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3483-93-
Application Year: 93
Issue Date: 10/20/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: (2) WASTE OIL FURNACES MODEL GV-2000X
Contaminants:
Emission Control:

Site: ***BETOMAT CONCRET PRODUCTS***
PART LOT 10 CONC. V CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3038-87-
Application Year: 87
Issue Date: 6/25/1987
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: CONCRETE BRICK MFG.
Contaminants:
Emission Control:

Site:
Part of the West Half of Lot 10, Concession 8 Caledon ON

Database: ***CA***

Certificate #: 6203-4H7LEQ
Application Year: 00
Issue Date: 3/9/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Clint Developments Inc.
Client Address: 222 Lesmill Road
Client City: North York
Client Postal Code: M3B 2T5
Project Description: Watermains and all appurtenances to be constructed in conjunction with Project No. T-98002C.
Contaminants:
Emission Control:

Site:
Part of the West Half of Lot 10, Concession 8 Caledon ON

Database: ***CA***

Certificate #: 8654-4H7KTU
Application Year: 00
Issue Date: 3/9/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Clint Developments Inc.
Client Address: 222 Lesmill Road
Client City: North York
Client Postal Code: M3B 2T5
Project Description: Sanitary and storm sewers and all appurtenances to be constructed in conjunction with Project No.T-98002C.
Contaminants:
Emission Control:

Site: ***Palgrave Well No. 3***
Mount Hope Road Caledon ON

Database: ***CA***

Certificate #: 1565-5AUJGA
Application Year: 02
Issue Date: 6/13/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name: The Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive, Fourth Floor
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Amend CofA to extend GUDI deadline.
Contaminants:
Emission Control:

Site: ***Palgrave Well No. 3***
Mount Hope Road Caledon ON

Database: ***CA***

Certificate #: 4850-56XV22
Application Year: 02
Issue Date: 6/13/02
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: The system comprises of three (3) well pump houses, reservoir and booster station and distribution system
Contaminants:
Emission Control:

Site:
Part of Lot 10, Concession 5 Caledon ON

Database: ***CA***

Certificate #: 8804-4Q7LKE
Application Year: 00
Issue Date: 10/25/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Valleygrove Investments Inc.
Client Address: 2458 Dundas Street West
Client City: Mississauga
Client Postal Code: L5K 1R8
Project Description: Construction of watermains in the Town of Caledon (Bolton) under Project 21T-89037c.
Contaminants:
Emission Control:

Site:
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	1503-4Q6QFE
Application Year:	00
Issue Date:	10/25/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Valleygrove Investments Inc.
Client Address:	2458 Dundas Street West
Client City:	Mississauga
Client Postal Code:	L5K 1R8
Project Description:	Construction of Sanitary sewers in the Town of Caledon (Bolton) under project 21T-89037c.
Contaminants:	
Emission Control:	

Site:
Part of W.1/2 Lot 10, Conc. 8 (Albion) Caledon ON

Database:
CA

Certificate #:	8324-4HNTLF
Application Year:	00
Issue Date:	3/30/00
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Worldcom Meadows Inc.
Client Address:	55 Blue Willow Drive
Client City:	Woodbridge
Client Postal Code:	L4L 9E8
Project Description:	North Hill Villas, Town of Caledon
Contaminants:	
Emission Control:	

Site:
Part of W.1/2 Lot 10, Conc. 8 (Albion) Caledon ON

Database:
CA

Certificate #:	1255-4HNT8Q
Application Year:	00
Issue Date:	3/30/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Worldcom Meadows Inc.
Client Address:	55 Blue Willow Drive
Client City:	Woodbridge
Client Postal Code:	L4L 9E8
Project Description:	North Hill Villas, Town of Caledon
Contaminants:	
Emission Control:	

Site:
Lots 9 and 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	0036-4VVRH4
Application Year:	01
Issue Date:	5/3/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Papertious Investments Inc.

Client Address: 1700 Langstaff Road, Suite 2003
Client City: Vaughan
Client Postal Code: L4K 3S3
Project Description: Watermains to be constructed on Harvest Mood Drive, Cedar Grove Road, Streets: E, F, H, M, O, P, Lismer Crescent, Grapevine Road and King Street West
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Lots 9 and 10, Concession 5 Caledon ON

Certificate #: 6126-4VXLS2
Application Year: 01
Issue Date: 5/3/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Papertious Investments Inc.
Client Address: 1700 Langstaff Road, Suite 2003
Client City: Vaughan
Client Postal Code: L4K 3S3
Project Description: Storm sewers to be constructed on Harvest Moon Drive, Cedar Grove Road, Streets: E, F, H, M, O, P, Lismer Crescent and Grapevine Road
Contaminants:
Emission Control:

Site: ***CLINT DEVELOPMENTS INC.*** ***Database:*** ***CA***
PT.LOT 10/CONC. 8, ALBION TWP. CALEDON TOWN ON

Certificate #: 3-1213-99-
Application Year: 99
Issue Date: 10/21/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.*** ***Database:*** ***CA***
LOT 10,CON.5/STS.A/C&L CALEDON ON

Certificate #: 7-0382-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.*** ***Database:*** ***CA***
PT.LOTS 9&10, CONC. 5, BOLTON CALEDON ON

Certificate #: 3-0578-98-
Application Year: 98
Issue Date: 6/22/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.***
LOT 10, CON.5/STS.A/C&L CALEDON ON

Database: ***CA***

Certificate #: 3-0581-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WYNDCLIFFE ESTATES INC. PH. IV***
KINGSVIEW DR. HUMBERVIEW HILLS CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0613-89-
Application Year: 89
Issue Date: 5/2/1989
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 PEEL-BOLTON WELL PUMPING STATION***
NO. 6 GLASGOW ROAD CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0818-91-
Application Year: 91
Issue Date: 11/13/1992
Approval Type: Municipal water
Status: Approved in 1992
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS***
GOODFELLOW CRES. PH.III ST. II CALEDON TOWN ON

Database: ***CA***

Certificate #:	7-0465-86-
Application Year:	86
Issue Date:	5/27/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***WYNDCLIFFE ESTATES INC. PH. IV***
KINGSVIEW DR. HUMBERVIEW HILLS CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0690-89-
Application Year:	89
Issue Date:	5/2/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.M. OF PEEL ANN ST./STATION ST.***
KING STREET WEST CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0469-89-
Application Year:	89
Issue Date:	3/29/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS***
GOODFELLOW CRES.PH. III ST. II CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0622-86-
Application Year:	86
Issue Date:	5/27/1986
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	

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

Site: ***R.M. OF PEEL***
KING ST. WEST (BOLTON) CALEDON TOWN ON

Database: ***CA***

Certificate #: 3-2104-87-
Application Year: 87
Issue Date: 11/30/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***JAMES DICK CONSTRUCTION LIMITED***
PT.LOT 13/CONC.6, BOLTON CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3465-93-
Application Year: 93
Issue Date: 11/18/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: (2) WASTE OIL FURNACES, MODEL GV-2000X
Contaminants: Nitrogen Oxides
Emission Control: No Controls

Site: ***James Dick Construction Limited***
Mobile facility Caledon, Regional Municipality of Peel TOWN OF CALEDON ON

Database: ***EBR***

EBR Registry No: 010-2453
Ministry Ref No: 5347-79LQFX
Notice Type: Instrument Final Decision
Notice Stage:
Notice Date: December 15, 2008
Proposal Date: January 03, 2008
Year: 2008
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: James Dick Construction Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address:
Comment Period:
URL:
Summary:

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

Site Location Details:

Site: ***The Corporation of the Town of Caledon***
Columbia Way Lot 10-11 and Concession 7 Caledon ON L7C 1J6

Database: ***ECA***

Approval No:	6896-BRKPD4	***MOE District:***	
Approval Date:	2020-08-25	***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 Corporation of the Town of Caledon		
Address:	Columbia Way Lot 10-11 and Concession 7		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5043-BMBHXN-14.pdf		
PDF Site Location:			

Site: ***James Dick Construction Limited***
mobile facility Caledon ON L7E 5R8

Database: ***ECA***

Approval No:	8517-7EDPJG	***MOE District:***	
Approval Date:	2008-06-12	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	James Dick Construction Limited		
Address:	mobile facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5347-79LQFX-13.pdf		
PDF Site Location:			

Site: ***Papertious Investments Inc.***
Caledon ON L4K 4R1

Database: ***ECA***

Approval No:	1915-ABCNPV	***MOE District:***	
Approval Date:	2016-06-29	***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:	Papertious Investments Inc.		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6966-AB8KBM-14.pdf		
PDF Site Location:			

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FST***

Inventory No:	10637623	***Tank Material:***	Steel
Inventory Status:	Active	***Corrosion Protect:***	Impressed Current
Installation Year:		***Overfill Protection:***	
Capacity:		***Inventory Context:***	FS Liquid Fuel Tank

Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Inventory Item: FS LIQUID FUEL TANK

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FST***

Inventory No: 10637579
Inventory Status: Active
Installation Year:
Capacity:
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FSTH***

License Issue Date: 12/10/1990
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FSTH***

License Issue Date: 12/10/1990
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122 L
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221 I
Waste Class Name: LIGHT FUELS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

Site: ***Monterra Lumber Mills Limited***
Highway 50 Bolton ON L7E 1M5

Database: ***GEN***

Generator No: ON3263771
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 265 L
Waste Class Name: Graphic arts wastes

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 145 I

Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 212 L

Waste Class Name: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald
Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald
Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald

Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2012
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***KEN'S LAWNMOWER REPAIRS LTD.***
LOT 14, CONCESSION 6 CALEDON ON

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 99,00,01,02,03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***KEN'S LAWNMOWER REPAIRS LTD. 23-511***
LOT 14, CONC6, TOWN OF CALEDON C/O R.R.#2 BOLTON ON L7E 5R8

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 94,95,96
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***KEN'S LAWNMOWER REPAIRS LTD.***
LOT 14, CONC6, TOWN OF CALEDON ON L7E 5R8

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 92,93,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***CALEDON, TOWN OF***
PUBLIC WORKS YARD 3 LOT 11, CONCESSION 6 CALEDON EAST ON L0N 1E0

Database: ***GEN***

Generator No: ON0813202
SIC Code: 4999
SIC Description: OTHER UTILITY IND.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
LOT 13, CONCESSION 6 CALEDON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LTD. 22-148***
LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470 BOLTON ON L0P 1A0

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LTD.***
LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470 BOLTON ON L0P 1A0

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 86,87,88,89,90
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***SAINT'S COLD CREEK NURSERY***
R.R. #2, HWY. 50 BOLTON ON L7E 5R8

Database: ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Site: ***S & F SERVICE DIV OF 490474 ONTARIO LTD***
LOT 12 CON 7 HWY 50N BOLTON ON

Database: ***PRT***

Location ID: 1754
Type: retail
Expiry Date: 1995-06-30
Capacity (L): 118136
Licence #: 0051035001

Site: ***MBH PETROLEUM SERVICES INC***
LOT 13 CON 7 BOLTON ON

Database: ***PRT***

Location ID: 1748
Type: retail
Expiry Date: 1995-10-31
Capacity (L): 27497
Licence #: 0053809001

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***PRT***

Location ID: 2533
Type: private
Expiry Date:
Capacity (L): 48600.00
Licence #: 0001046082

Site: ***James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.***
Hwy 50 Bolton ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***JAMES DICK CONCRETE AGGREGATES***
PO BOX 470 STN MAIN ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 220

--Details--
Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Description: MINERALS & EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***JAMES DICK CONCRETE AGGREGATES***
BOLTON ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 500

--Details--
Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***James Dick Construction Ltd.***
Bolton ON

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***Caledon Sand & Gravel Inc.***
Hwy 50 Bolton ON L7E 5Z7

Database: ***SCT***

Established: 1966
Plant Size (ft²):

Employment: 47

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Site: ***CALEDON SAND & GRAVEL INC.***
HIGHWAY 50 RR 1 BOLTON ON L7E 5Z7

Database: ***SCT***

Established: 1966
Plant Size (ft²): 0
Employment: 47

--Details--
Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***JAMES DICK CONCRETE AGGREGATES***
HWY 50 BOLTON ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***UNKNOWN***
HWY 50,BOLTON CALEDON TOWN ON

Database: ***SPL***

Ref No: 106027
Year:
Incident Dt: 10/6/1994
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/6/1994
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: CALEDON TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: UNKNOWN
Incident Preceding Spill:

Municipality No: 21401
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved: FD

Environment Impact:	NOT ANTICIPATED
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	LAND
Incident Reason:	UNKNOWN
Incident Summary:	SOURCE UNKNOWN-UKN QTY DIESEL TO HWY 50,POOLED AT BTM OF HILL,CLEANED.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	
SAC Action Class:	
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	

Site: ***James Dick Construction Limited***
North West Corner Caledon ON

Database: ***SPL***

Ref No:	7788-8QKQQZ	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	16-JAN-12	***Discharger Report:***	
Dt MOE Arvl on Scn:	25-JAN-12	***Material Group:***	
MOE Reported Dt:	16-JAN-12	***Impact to Health:***	
Dt Document Closed:	25-MAY-12	***Agency Involved:***	

Site No:	
MOE Response:	Planned Field Response
Site County/District:	
Site Geo Ref Meth:	
Site District Office:	
Nearest Watercourse:	
Site Name:	Albion Vaughan rd and King St<UNOFFICIAL>
Site Address:	North West Corner
Site Region:	
Site Municipality:	Caledon
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	Other Transport Accident
Incident Preceding Spill:	
Environment Impact:	Confirmed
Health Env Consequence:	
Nature of Impact:	Soil Contamination
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	Sewage - Municipal/Private and Commercial

Incident Reason:	Spill
Incident Summary:	James Dick Construction:MVA, diesel to grass ~225L
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Motor Vehicle
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	James Dick Construction Limited

Site: ***ROTHSAY***
HWY 50, 1 KM NORTH OF KING ST IN BOLTON TRANSPORT TRUCK (CARGO) CALEDON TOWN ON

Database: ***SPL***

Ref No:	95576	***Municipality No:***	21401
Year:		***Nature of Damage:***	
Incident Dt:	1/22/1994	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	1/22/1994	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	REGION OF PEEL,CALEDON WORKS
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	CALEDON TOWN		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	CONTAINER OVERFLOW		
Incident Preceding Spill:			
Environment Impact:	CONFIRMED		
Health Env Consequence:			
Nature of Impact:	Multi Media Pollution		
Contaminant Qty:			
Contaminant Qty 1:			
Contaminant Unit:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	LAND		
Incident Reason:	ERROR		
Incident Summary:	ROTHSAY MEAT COMPANY- 5 M3 RENDERINGS TO HIGHWAY & SHOULDER.		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:			
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

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

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

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-Apr 2024

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-Apr 30, 2024

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 2022

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: Oct 2023

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-Apr 30, 2024

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 -May 2024

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-Oct 2024

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Sep 30, 2024

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database (ODHD) is offered by the Province of Ontario's Ministry of Mines. The dataset contains information for over 164,000 percussion, overburden, sonic and diamond-drill holes. The presence of assay results with cutoff values for gold, silver, copper, zinc, lead, nickel and platinum group elements is noted. Drill hole data are compiled from assessment files that have been submitted to the ministry in accordance with the Ontario Mining Act (OMA). Source assessment file numbers are captured for cross reference with the Ontario Assessment File Database (OAFD). 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. 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 - Aug 2024

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: Oct 2023

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-Sep 30, 2024

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 - Sep 30, 2024

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-Sep 30, 2024

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-Aug 31, 2024

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land 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, 2023

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: Oct 2023

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Sep 2024

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: Oct 31, 2021

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: Oct 2023

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-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2022

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 in 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: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Mar 31, 2022

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Feb 2024

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, 2022

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-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Feb 2024

National Pollutant Release Inventory - Historic: 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. This data holds historic records; current records are found in NPR2.

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-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the Ministry of Natural Resources (MNR) handed over to the Ontario Oil, Gas and Salt Resources (OGSR) 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 includes well owner/operator, location, permit issue date, and well cap date, license number, 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.

Government Publication Date: 1800-Aug 2024

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 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 - Sep 30, 2024

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-Sep 30, 2024

Ontario PFAS Spills: Provincial PFAS

This specific list of spills includes those incidents where one or more of the listed contaminants are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA), is originally sourced from the Ministry of the Environment, Conservation and Parks spills related data. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Mar 2024; May 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Feb 2024

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Feb 2024

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Feb 28, 2021

Potential PFAS Handlers from EASR: Provincial PPHA

The Ontario Environmental Activity and Sector Registry (EASR), described in Ontario Regulation 245/11, allows businesses with less complex operations - and hence not requiring an Environmental Compliance Approval - to register their activities with the Ontario Ministry of the Environment, Conservation and Parks (MECP). This list of potential PFAS handlers includes those EASR facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used.

Government Publication Date: Jun 30, 2024

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 PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Sep 30, 2024

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, 1992-2021

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). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Oct 2024

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-Apr 30, 2024

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

Government Publication Date: 1988-Jun 2024

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of 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.

Government Publication Date: 1990-Dec 31, 2021

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 - Apr 2024

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 - Sep 30, 2024

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: Dec 31 2023

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.'

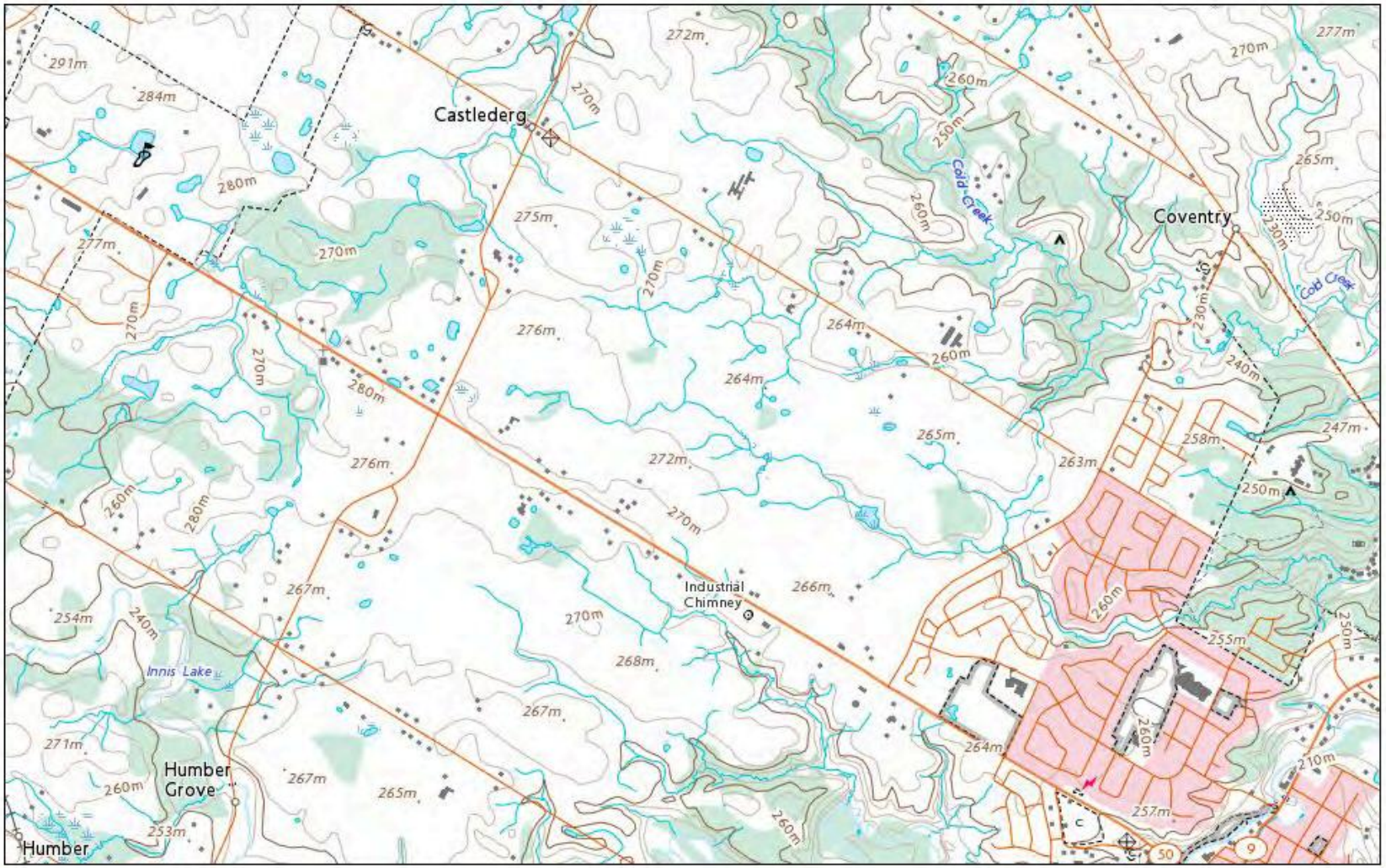
Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

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APPENDIX G

Topographic Map

Toporama



March 29, 2025

1:25,794

0 0.2 0.4 0.8 mi

0 0.35 0.7 1.4 km

Natural Resources Canada | Ressources naturelles Canada

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© Sa Majesté le Roi du chef du Canada, représentée par le ministre de Ressources naturelles Canada, 2025.

Canada

APPENDIX H

Site Photographs



Photo 1: View to the east of the Phase I Property from the western limits of the Site (intersection of Emil Kolb Parkway and Highway 50).



Photo 2: View to the west of the western limits of the Phase I Property near the intersection of Emil Kolb Parkway and Highway 50. The Phase I Property comprised a portion of a larger overall agricultural property.

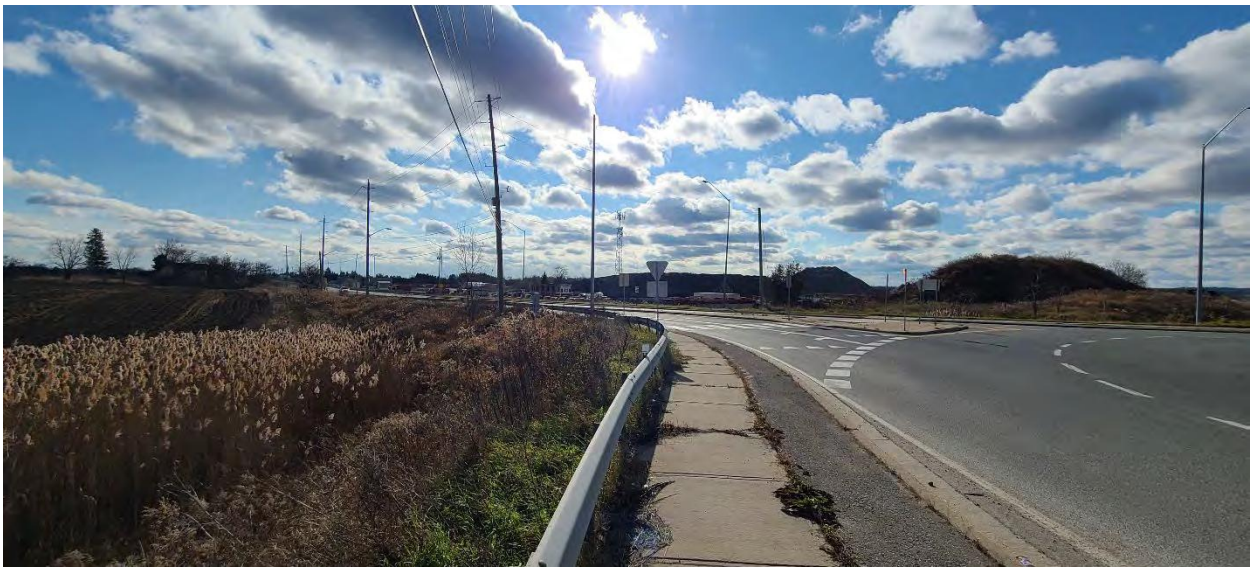


Photo 3: View to the south of the western limits of the Phase I Property (intersection of Emil Kolb Parkway and Highway 50).



Photo 4: View to the east of the Phase I Property. A post and wire fence was observed along the northern portion of the Phase I Property that separated two agricultural properties. A monitoring well was observed near the fence line.



Photo 5: View to the north of an agricultural property located to the north of the Phase I Property. Several agricultural buildings and a farmhouse were observed.



Photo 6: View to the east of the agricultural property located to the north of the Phase I Property (14685 Highway 50). Several large plastic totes were observed near the agricultural buildings. It is possible that the totes are used for the mixing and application of pesticides and herbicides.



Photo 7: View of a creek that was observed near the eastern limits of the Phase I Property. The Creek meandered in a southerly direction through the Phase I Property and led into a wetland area that extended to the south of the Phase I Property.



Photo 8: View to the southwest of a creek and wetland area that was observed near the eastern limits of the Phase I Property.



Photo 9: View to the south of the wetland area that was observed within the eastern portion of the Phase I Property. A possible monitoring well /staff gauge was observed within the wetland.



Photo 10: View to the east of the eastern portion of the Phase I Property. A wooded area was observed to separate the agricultural property from an adjacent agricultural field. A creek and wetland area were observed within the eastern portion of the Phase I Property.

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Phase I Environmental Site Assessment

Part of 14530 Mount Hope Road
Bolton Water and Wastewater Capacity Improvements
Schedule C Class Environmental Site Assessment
Town of Caledon, Ontario

Client Name: GEI Consultants Canada Ltd.
Date: July 25, 2025
File: 48561

Suite 202 - 1908 Ironoak Way, Oakville, ON L6H 0N1 | Phone: (905) 829-8666

EXECUTIVE SUMMARY

Thurber Engineering Ltd. (Thurber) was retained by GEI Consultants Canada Ltd. (GEI) on behalf of Peel Region (the Region) to prepare a Phase I Environmental Site Assessment (ESA) for a portion of the overall property located at 14530 Mount Hope Road, where a proposed easement to construct and service future water and sewer infrastructure is planned. The Phase I Property (Site) comprised a portion of the property that was approximately 690 m long and 60 m wide in the Town of Caledon, Ontario.

The purpose of the Phase I ESA was to identify evidence of actual and/or potential contamination at the Site which may impact the soil and groundwater conditions of the Phase I Property. The Phase I ESA was completed for due diligence purposes in accordance with the general components of CSA Standard Z768-01 *Phase I Environmental Site Assessment* (April 2003, reaffirmed in 2022). The Phase I ESA was requested by the Region as part of its due diligence in support of a potential easement acquisition for the Bolton Water and Wastewater Capacity Improvements Project.

The Phase I ESA comprised a desktop review of available historical records, responses to an interview questionnaire provided by the site representative, a reconnaissance of the Site, and a reconnaissance of the Phase I Study Area from publicly accessible locations. The collective information was used to assess and evaluate past and present uses, and conditions and activities within the Phase I Study Area to identify potential sources of contamination that may impact the Site or have the potential for contaminant migration onto the Site.

The Site has historically been used for agricultural and residential uses since at least 1946 (first available aerial photograph for the Site). At the time of the Site Reconnaissance, the Site consisted of a portion of an agricultural property, and the former residential building had been demolished. With respect to the Phase I Study Area, the surrounding properties appeared to have generally consisted of mixed agricultural and residential property uses.

Based on the review and evaluation of information obtained through the Phase I ESA, historical and current activities were identified on-Site and within the Phase I Study Area for the Site that are considered potential sources of contamination that may impact the subsurface conditions at the Site.

The identified potential sources of contamination include the presence of potential pesticides that were applied to the agricultural fields, importation of fill materials of unknown environmental quality surrounding the former building on-Site and for the access road / driveway, and the potential for fuel oil storage and use as a heating source for the historical building. In addition, impacts associated with the historical use of the adjacent roadway (i.e. potential fill materials of

unknown environmental quality, application of de-icing salts, and minor vehicle fluid leakage) were considered.

A subsurface investigation (i.e. Phase II ESA) involving sampling and analysis of soil and groundwater will be required to confirm or refute the presence of contamination from the identified potential sources of contamination at the Site and on surrounding properties within the Phase I Study Area.

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APPENDIX H

Site Photographs

1. INTRODUCTION

Thurber Engineering Ltd. (Thurber) was retained by GEI Consultants Canada Ltd. (GEI) on behalf of Peel Region (the Region) to prepare a Phase I Environmental Site Assessment (ESA) for a portion of the overall property located at 14530 Mount Hope Road, in the Town of Caledon, Ontario. The Phase I ESA was requested by the Region as part of its due diligence in support of a potential easement acquisition for the Bolton Water and Wastewater Capacity Improvements Project.

The purpose of the Phase I ESA is to identify evidence of actual and/or potential contamination at the Site resulting from past and present potential sources of contamination on the Site and the surrounding properties that may impact the underlying soil and groundwater conditions and pose current or future environmental liability associated with acquiring the easement through the Site.

The Phase I ESA was completed for due diligence purposes and was not prepared for the filing of a Record of Site Condition (RSC) under Ontario Regulation (O. Reg.)153/04, as amended, for the Site. The findings of the Phase I ESA will be evaluated to determine if a Phase II ESA is necessary, and if so, to provide a basis for carrying out a Phase II ESA.

The Study Area for the Phase I ESA were considered to include surrounding properties within a 250 m buffer from the Site boundaries.

It is a condition of this report that Thurber's performance of its professional services is subject to the attached Statement of Limitations and Conditions.

This Report uses the International System of Units (SI Units).

1.1 Scope of Work

The Phase I ESA was conducted in accordance with the general components of CSA Standard Z768-01 *Phase I Environmental Site Assessment* (April 2003, reaffirmed in 2022), and involved the following tasks:

- Provide a general description of the Site;
- Conduct a desktop review of various historical records pertaining to the Site and surrounding properties to obtain an understanding of the Site, and past and present uses, conditions and activities within the Phase I Study Area;
- Conduct a Site reconnaissance to observe existing property uses and conditions at the Site, and a reconnaissance of the Phase I Study Area from publicly-accessible areas;

- Conduct an interview with the Site Representative for the Phase I Property to gain an understanding of the current and historical uses of the Site, and activities that may result in potential sources of contamination within the Site;

- Review and evaluate the findings of the records review, interview, and the Site reconnaissance to identify past and present activities on the Site and the surrounding properties that are considered to be potential sources of contamination that may impact the Site or have the potential for contaminant migration onto the Site; and,

- Prepare this report documenting the activities, findings and conclusions of the Phase I ESA.

2. SITE DESCRIPTION

The Site comprises a rectangular portion of the overall 14530 Mount Hope Road property, with approximate dimensions of 680 m long (east-west orientation), and 75 m wide (north-south orientation) that extends westerly from Mount Hope Road at the eastern limits, as shown on Drawing 48561-1 in Appendix A. The Site consisted of agricultural lands.

3. RECORDS REVIEW

A records review was conducted by obtaining and reviewing the following information pertaining to the Site and surrounding properties located within the Phase I Study Area:

- Aerial photographs pertaining to the Site and surrounding properties;
- Fire Insurance Plans (FIPs) from Verisk;
- Title Searches and Land Registry information obtained from ERIS and the Ontario Land Registry Office;
- City Directory report from to ERIS;
- An ERIS Database Report, which included searches of various federal, provincial and private source databases for records of potential environmental concern such as spills, former waste disposal sites, registration of underground/aboveground fuel storage tanks and environmental infractions;
- Previous Environmental Reports (*Phase One Environmental Site Assessment, Proposed Residential Development, 14350 Mount Hope Road, Town of Caledon, Reference No. 2309-E138-1, Prepared by Soil Engineers Ltd.)*; and
- Various topographic, geologic and hydrogeologic maps pertaining to the Site and the surrounding Phase I Study Area.

3.1 Aerial Photographs

Aerial photographs were reviewed from an ERIS search which referenced several databases, and were supplemented with aerial imagery from Google Earth Pro. The available aerial photographs were reviewed on an approximate 10 to 15-year interval from the earliest available year, 1946. The reviewed photographs are attached in Appendix B. A description of the observations made on the aerial photographs are provided in the following table.

The scale of the photographs typically did not permit a detailed study of the Site and surrounding properties; however, the following observations were made with respect to the general land use and activities on the Site and in the surrounding properties within the Study Area, as presented in the following table.

Table 3-1: Relevant Findings from Aerial Photographs

Aerial Photograph Observations		
Year	**Phase I Property**	**Surrounding Properties**
1946	The Site appeared to consist of agricultural lands. A possible residential or agricultural building was observed within the eastern portion of the Site, adjacent to the west of Mount Hope Road. A driveway / access road was observed to extend from the on-site building to the western limits of the Site. A possible wetland area was observed in the western portion of the Site.	Properties within the Phase I Study Area generally appeared to comprise agricultural lands. A rural roadway that appeared consistent with the present-day orientation of Mount Hope Road was observed adjacent to the east of the Site. A possible residential or agricultural building was observed to the southeast of the Site within the Phase I Study Area. Wetland-type areas, and possible drainage swales were observed within the Phase I Study Area.
1951	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1946.
1960	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1946.
1974	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1946.
1985	No significant changes to the Site were observed since the 1946 photograph.	Several residential-type buildings appeared to have been constructed since 1974, located to the south of the Site, on the west side of Mount Hope Road.
1995	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1985.
2005	The residential / agricultural building previously observed within the eastern	Additional residential-type buildings appeared to have been constructed to the east of Mount

Aerial Photograph Observations		
Year	**Phase I Property**	**Surrounding Properties**
	portion of the Site appeared to have been removed.	Hope Road, to both the north and south of the Site.
2015	No significant changes to the Site were observed since the 2005 photograph.	The residential and agricultural buildings that were observed to the southeast of the Site (since the 1946 Aerial Photo) appeared to have been demolished.
2022	No significant changes to the Site were observed since the 2005 photograph.	No significant changes observed since 2015.

A review of the aerial photographs indicated that the Site has generally been surrounded by agricultural land use since the earliest available records (1946). Review of the earliest available aerial photograph shows the Site and Phase I Study Area in a configuration that appears similar to the present-day Site and Phase I Study Area, aside from the removal of a residential building in the eastern portion of the Site. The review of aerial photographs identified the following potential sources of contamination; potential application of pesticides to the agricultural lands, and the importation of fill materials of unknown quality for the construction of the driveway/access road through the Phase I Property.

3.2 Fire Insurance Plans

Fire Insurance Plans (FIPs) for the Site were ordered through ERIS and completed by Verisk. The search returned no FIPs within the Site or neighboring Properties. A copy of the Verisk EnviroScan Report is included in Appendix C.

3.3 Chain of Title and Land Registry Information

Based on a review of the available chain of title and land registry information, the overall property was transferred from Crown Land to a private owner in 1823. Various private land owners were reported between 1823 to 1968. A 20 year lease on the overall property was registered to Supertest Petroleum Corporation Limited in 1950. Based on a review of historical records from other sources, no gas stations, bulk fuel storage facilities, refining facilities, or exploratory/petroleum production wells were located on the Property. After 1968 the land was sold and transferred between several developers and holding companies. The land is currently owned by United Holdings Inc. The Chain of Title and Land Registry documents for the Site are included in Appendix D.

3.4 City Directories

A search of City Directories for the Site and the Phase I Study Area was conducted by ERIS at the request of Thurber. In addition to the Site and Phase I Study Area, the City Directory Report includes information for a larger Study Area (beyond the limits of the Site and the Phase I Study

Area) that included the proposed water and sewer infrastructure alignments for the overall Bolton Water and Wastewater Capacity Improvements Project. There were no relevant findings from the City Directory Report that resulted in the identification of potential sources of contamination within the Phase I Property. The City Directory search results are presented in Appendix E.

3.5 ERIS Database Report

A Database Report was obtained from ERIS to collect environmental source information for the Phase I Property, and surrounding properties within the Phase I Study Area. In addition to the Site and Phase I Study Area, the ERIS Database Report includes information for a larger Study Area (beyond the limits of the Site and the Phase I Study Area) that included the proposed water and sewer infrastructure alignments for the overall Bolton Water and Wastewater Capacity Improvements Project. The ERIS Database Report, which is presented in Appendix F, includes information collected from a search of available databases maintained by federal, provincial institutions and the private sector, including the Technical Standards and Safety Authority (TSSA). There were no relevant findings from the ERIS Database Report that resulted in the identification of potential sources of contamination within the Phase I Property.

3.6 Previous Reports

A previously completed Phase One ESA was provided by the Site Representative that provided the interview response as part of this Phase I ESA. The report (*Phase One Environmental Site Assessment, Proposed Residential Development, 14350 Mount Hope Road, Town of Caledon, Reference No. 2309-E138-1*, Prepared by Soil Engineers Ltd., dated November 27, 2023.) included information related to portions of the Site and surrounding properties within the Phase I Study Area.

Pertinent information from the report is summarized as follows:

- The Phase One ESA was prepared for the overall property identified with the municipal address of 14530 Mount Hope Road. A portion of the overall property is located within the Phase I Property for this Phase I ESA.

- The Site was reported to have been historically used for agricultural uses. Three building structures were identified in the historical aerial photos within the eastern portion of the overall Site (located within the Phase I Property for this Phase I ESA). No building structures were identified during the Phase One Site Reconnaissance.

- One potentially contaminating activity involving the potential application of pesticides to the agricultural fields was identified in the Phase One ESA.

- A recommendation to complete a Phase Two ESA was provided in the Report. The Phase Two ESA (if completed) was not provided to Thurber for review.

Thurber also completed an Assessment of Past Uses (APU) Report in support of the overall Bolton Water and Wastewater Capacity Improvements Class EA Assessment. The APU is presented under separate cover. Pertinent information from the report is summarized as follows:

- Observations made during the Site Reconnaissance identified that residential properties located to the south of the Phase I Property utilized fuel oil burning furnaces as a heating source. Fuel oil tank fill, and vent pipes were observed at a residential dwelling located to the south of the Site. The tank details were not included in the ERIS Database Report, and it is likely that additional properties within the Study Area have historically used, or currently use, fuel oil as a heating source.

3.7 Topography, Hydrogeology, Geology

A topographic map was obtained and reviewed from The Atlas of Canada – Toporama, presented by Natural Resources Canada and supplemented with elevations presented in Google Earth Pro. A copy of the map is presented in Appendix G, which indicates that the ground surface within Phase I Property generally sloped down to the southeast from a maximum Elevation 264 m above sea level (masl) near the northwest limits of the Site, to Elevation 253 masl near the southeastern limits of the Site, adjacent to Mount Hope Road.

The closest surface waterbody to the Site was a tributary of Cold Creek, which was located approximately 40 m to the west of the Site and was observed to flow in a general southerly direction. Surface water drainage swales were observed at several locations within the Site. At the time of Site Reconnaissance, the drainage swales generally appeared dry with no visible standing water present, indicative of ephemeral water flow conditions during high rainfall events and spring snow-melt runoff. The drainage swales were connected to wetland areas where standing water was observed. The wetlands were identified in the Ministry of Natural Resources and Forestry (MNRF) online mapping as part of the provincially significant (Castlederg Wetland Complex). The inferred groundwater flow direction is southerly towards the Lake Ontario.

The regional physiography, geology and bedrock characteristics were reviewed from the maps provided by OGS Earth that were compiled by the Mines and Minerals Division of the Ministry of Energy, Northern Development and Mines. The maps are available to download from the Ministry's website and to view in Google Earth.

The Phase I Property is located within the Physiographic Region described as the South Slope which is generally comprised of drumlinized till plains. The surficial geology within the Site was

described as clay to silt textured till derived from glaciolacustrine deposits or shale. The underlying bedrock is mainly comprised of shale and limestone of the Georgian Bay Formation.

4. INTERVIEWS

An interview questionnaire was provided to Solmar Development Corporation (the current developer of the Site) on behalf of the Property Owners (United Holdings Inc.) by the Client. Mr. Giuseppe Paolicelli, EVP Construction & Development of Solmar Development Corporation provided a response as the Site Representative for the 14530 Mount Hope Road Property.

The Site Representative provided a previous Phase One ESA that was conducted on the overall property (Completed by Soil Engineers Ltd., and summarized in Section 3.6 of this Report). The site was reportedly used for past and present agricultural uses. The Site Representative was not aware of asbestos containing material (ACM) surveys. No existing buildings were located within the Site, and therefore no heating or cooling systems were present. The Site Representative was not aware of any below grade structures, current or historical tanks, wells, septic systems, or municipal services (watermains, sewers, gas lines etc.), easements, spills, discharges within the Site. The Site Representative was not aware of past soil removals, soil treatments or remedial activities at the Site.

5. SITE RECONNAISSANCE

5.1 General

A reconnaissance of the Site and Phase I Study Area was conducted on November 28, 2024 by a Thurber representative, Mr. John Zoldy P.Eng., QP_{ESA}. The Site visit was conducted after a general review of the historical records and was focused on the surrounding properties that may contain potential sources of contamination. At the time of the Site visit, the weather was sunny to overcast, 6°C and the ground surfaces were dry and clear. Select photographs of the Site and surrounding properties are included in Appendix H.

5.2 Timing

Preliminary information obtained from the historical records review was considered prior to conducting the Site reconnaissance which allowed specific areas of the Site and adjacent properties to be targeted as part of the assessment.

5.3 Methodology

The Site reconnaissance was conducted through observations at the Site, and of surrounding properties from publicly accessible sidewalks and roadways.

5.4 Limitations

The Site Reconnaissance was limited to exterior observations of the Site and surrounding properties, made from publicly accessible locations.

5.5 Site Reconnaissance Observations

Table 5-1: Site Reconnaissance Observations

Topic	Observations
Property Use and Structures	The Site was observed to be used for agricultural purposes and comprised an agricultural field for crop growth. No building structures existed on the Site at the time of reconnaissance.
Hazardous Materials	None identified.
Unidentified Substances	None identified.
Aboveground and Underground Storage Tanks	None identified. However, based on information obtained during the completion of the Assessment of Past Uses prepared for the overall Class EA Assessment of the Bolton Water and Wastewater Capacity Improvements (provided under separate cover), residential properties to the south of the Site were observed to utilize fuel oil as a heating source. It is possible that the historical building located within the Site utilized fuel oil as a heating source.
Storage Containers	None identified.
Odours	None identified.
Potable Water Supply	None identified within the Site. Neighboring residential properties appeared to be serviced by domestic water supply wells.
Special Attention Items	None identified.
Interior Observations	No building structures were observed within the Site.
Exterior Observations	
General	The Site comprised an agricultural field that appeared to have been most recently used for corn crop growth. The crop appeared to have been harvested at the time of the Site Visit. Drainage swales and several wetland areas were observed at various locations within the Site and on the surrounding overall property.
Observations of Neighboring Properties	North • To the north of the Site, the overall 14530 Mount Hope Road property extended beyond the limits of Phase I Study Area. The property was observed to be an agricultural field. East • Mount Hope Road was observed adjacent to the east of the Site. Road salt is expected to be applied to the travelled portion of the road during the winter months for de-icing of the roadway for safety purposes. • Beyond the Mount Hope Road ROW, additional agricultural lands were observed.

Topic	Observations
	South • To the south of the Site, the overall 14530 Mount Hope Road property extended beyond the western and central limits of Phase I Study Area. The property was observed to be an agricultural field. • Several residential properties were observed approximately 190 m to the south of the eastern portion of the Site, adjacent to the west of Mount Hope Road. West • An agricultural property with the municipal address of 14475 Highway 50 was observed.
Topographic, Geologic, and Hydrogeologic Conditions	The ground surface was observed to generally slope down to the southeast from a topographic high at the western limits of the Phase I Site, down to a topographic low at the eastern limits of the Site near the intersection of the Site with Mount Hope Road. The ground surface appeared to consist of topsoil and vegetation. Several wetland-type areas were observed within the Site (and on portions of the overall 14530 Mount Hope Road Property). Drainage swales appeared to connect the wetland areas, but were generally observed to be dry at the time of the Site Visit. A possible natural groundwater spring was observed within the central portion of the Site within the wetland area. Water was observed to be seeping from the ground into the wetland area. Orange staining of the soils and surface sheen was observed in the area of the spring.
General description of Structures	No building structures were observed within the Site. Evidence of a possible former building structure (i.e., concrete debris) was observed within the eastern portion of the Site.
Wells	No water supply wells were observed within the Site. Several monitoring wells were observed on the overall 14530 Mount Hope Road property, but were not observed within the Phase I Property.
Utilities and Sewage Works	None identified.
Pits and Lagoons	None identified.
Stained Materials	Orange staining of the soils near the natural groundwater spring and surface sheen of the water was observed in the area of the spring. The orange soil staining and surface sheen may be consistent with the presence of iron-oxidizing bacteria and anaerobic groundwater conditions, which could also be associated with the historical agricultural uses of the Site.
Stressed Vegetation	None identified. Crops within the Site appeared to have been harvested prior to the site reconnaissance. Remaining vegetation within the Site appeared to be dormant.
Fill	Fill materials may have been imported to the Site for grading around the former building structure at the Site, and for the former driveway / access

Topic	Observations
	road that was observed to cross the entire Site in the historical aerial photos. The access road across the Site was not observed during the Site Visit. Concrete debris that generally appeared to be consistent with former building walls or foundations was observed within the eastern portion of the Site. Fill materials were also likely used to develop the road grades of Mount Hope Road, located adjacent to the east of the Site.
Waste Water	None identified.
Watercourses, Ditches, or Standing Water	A possible natural groundwater spring was observed within the central portion of the Site within the wetland area. Water was observed to be seeping from the ground into the wetland area. Near the eastern limits of the Site roadside ditches along Mount Hope Road were observed.
Roads, Parking Facilities, and Rights of Way	None identified within the Site. Mount Hope Road was observed adjacent to the east of the Site. No on-road parking was observed within the ROW.

6. FINDINGS

The Phase I ESA involved a desktop review and summary of available historical records, and included aerial photographs, fire insurance plans and federal, provincial and private environmental databases, geologic maps, well records, and previous environmental reports provided by the Site Representative through the completion of an interview questionnaire. The Site Reconnaissance included a visual assessment of the Site, and of the Phase I Study Area from publicly accessible locations.

The collective information was used to assess and evaluate past and present property uses, conditions and activities at the Site and within the Phase I Study Area to identify potential sources of contamination that may have a potential risk to impact the subsurface conditions at the Site.

The findings of the Phase I ESA indicated that the Site has generally consisted of agricultural lands since first development. The Phase I Study Area has primarily consisted of mixed agricultural and residential property uses.

Potential sources of contamination have been identified at the Site and within the Phase I Study Area. Potential sources of contamination that are applicable to the Site involve the presence of potential pesticides that were applied to the agricultural fields, importation of fill materials of unknown environmental quality surrounding the former building on site, and for the access road / driveway, and the potential for fuel oil storage and use as a heating source for the historical building.

6.1 Evaluation of Findings

The following factors were considered by Thurber to evaluate if historical and current activities at the Site and within the Phase I Study Area are identified as potential sources of contamination that may impact the soil and groundwater underlying the Site:

- Property use (i.e., agricultural/other, residential, parkland, institutional, industrial, commercial or community);
- Magnitude and nature of the activity (i.e., volume of spills, anticipated quantities of waste generation, presence of ASTs or USTs, quantities of PCB storage, anticipated housekeeping practices, age of facility / operation, etc.);
- Location (i.e., hydraulically upgradient or downgradient from the Site);
- Contaminant characteristics (i.e., toxicity, mobility in the subsurface, etc.);
- Contaminant migration potential (i.e., soil stratigraphy, depth to groundwater, vapour intrusion, etc.); and,
- Exposure (i.e., anticipated receptor and distance from potential sources of contamination, transport pathways, residence time of contaminant in the subsurface, etc.).

Based on the above-referenced criteria, the past and present activities on the Site and the surrounding properties that are considered as potential sources of contamination that may impact the subsurface conditions at the Site, their interpreted level of risk and associated contaminants of potential concern (COPCs) are listed in the following table and are presented on Drawing 48561-3 in Appendix A.

Table 6-1: Potential Sources of Contamination

Summarized Potential Sources of Contamination						
PSC #	**PSC Location**	**Source**	**Potential Sources of Contamination**	**Potential Contaminants of Concern**	**Area on Site**	**Risk Rating**
1	Entire Site	Site visit, Aerial Photos, Interview	Possible application of pesticides to agricultural fields	M&I, OC Pesticides	Entire Site	Moderate
2	Entire Site	Site visit, Aerial Photos	Importation of fill materials of unknown quality	M&I, PHCs/BTEX, PAHs	Entire Site	Moderate
3	Eastern portion of the Site	Aerial Photos,	Potential storage and use of fuel oil as a heating source for the former building on Site	M&I, PHCs/BTEX, VOCs, PAHs	Eastern portion of the Site	Moderate

7. CONCLUSIONS

Based on the review and evaluation of information obtained through the Phase I ESA, historical activities were identified on-Site and within the Phase I Study Area for the Site that are considered potential sources of contamination that may impact the subsurface conditions at the Site.

The identified potential sources of contamination include the presence of potential pesticides that were applied to the agricultural fields, importation of fill materials of unknown environmental quality surrounding the former building on-Site and for the access road / driveway, and the potential for fuel oil storage and use as a heating source for the historical building. In addition, impacts associated with the historical use of the adjacent roadway (i.e. potential fill materials of unknown environmental quality, application of de-icing salts, and minor vehicle fluid leakage) were considered.

A subsurface investigation (i.e., Phase II ESA) involving sampling and analysis of soil and groundwater across the Phase I Property will be required to confirm or refute the presence of contamination from the identified potential sources of contamination at the site, and potential sources of contamination on surrounding properties within the Phase I Study Area. The Phase II ESA will target the collection of soil and groundwater samples within the excavation depths for the proposed construction works.

8. CLOSURE AND SIGNATURES

We trust that this report provides the information you require at this time. If you have any questions, please contact the undersigned at your earliest convenience.

THURBER ENGINEERING LTD.

Liam Scalena,
Environmental E.I.T.



John Zoldy, P.Eng., QP_{ESA}
Associate, Environmental Engineer



Renato Pasqualoni, P.Eng., QP_{ESA}
Review Engineer

THURBER

STATEMENT OF LIMITATIONS AND CONDITIONS

1. STANDARD OF CARE

This Report has been prepared in accordance with generally accepted engineering or environmental consulting practices in the applicable jurisdiction. No other warranty, expressed or implied, is intended or made.

2. COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report, which is of a summary nature and is not intended to stand alone without reference to the instructions given to Thurber by the Client, communications between Thurber and the Client, and any other reports, proposals or documents prepared by Thurber for the Client relative to the specific site described herein, all of which together constitute the Report.

IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. THURBER IS NOT RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT.

3. BASIS OF REPORT

The Report has been prepared for the specific site, development, design objectives and purposes that were described to Thurber by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the Report, subject to the limitations provided herein, are only valid to the extent that the Report expressly addresses proposed development, design objectives and purposes, and then only to the extent that there has been no material alteration to or variation from any of the said descriptions provided to Thurber, unless Thurber is specifically requested by the Client to review and revise the Report in light of such alteration or variation.

4. USE OF THE REPORT

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT THURBER'S WRITTEN CONSENT AND SUCH USE SHALL BE ON SUCH TERMS AND CONDITIONS AS THURBER MAY EXPRESSLY APPROVE. Ownership in and copyright for the contents of the Report belong to Thurber. Any use which a third party makes of the Report, is the sole responsibility of such third party. Thurber accepts no responsibility whatsoever for damages suffered by any third party resulting from use of the Report without Thurber's express written permission.

5. INTERPRETATION OF THE REPORT

a) Nature and Exactness of Soil and Contaminant Description: Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature. Comprehensive sampling and testing programs implemented with the appropriate equipment by experienced personnel may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and the Client and all other persons making use of such documents or records with our express written consent should be aware of this risk and the Report is delivered subject to the express condition that such risk is accepted by the Client and such other persons. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. If special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

b) Reliance on Provided Information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to Thurber. Thurber has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, Thurber does not accept responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of the Client or other persons providing information relied on by Thurber. Thurber is entitled to rely on such representations, information and instructions and is not required to carry out investigations to determine the truth or accuracy of such representations, information and instructions.

c) Design Services: The Report may form part of design and construction documents for information purposes even though it may have been issued prior to final design being completed. Thurber should be retained to review final design, project plans and related documents prior to construction to confirm that they are consistent with the intent of the Report. Any differences that may exist between the Report's recommendations and the final design detailed in the contract documents should be reported to Thurber immediately so that Thurber can address potential conflicts.

d) Construction Services: During construction Thurber should be retained to provide field reviews. Field reviews consist of performing sufficient and timely observations of encountered conditions in order to confirm and document that the site conditions do not materially differ from those interpreted conditions considered in the preparation of the report. Adequate field reviews are necessary for Thurber to provide letters of assurance, in accordance with the requirements of many regulatory authorities.

6. RELEASE OF POLLUTANTS OR HAZARDOUS SUBSTANCES

Geotechnical engineering and environmental consulting projects often have the potential to encounter pollutants or hazardous substances and the potential to cause the escape, release or dispersal of those substances. Thurber shall have no liability to the Client under any circumstances, for the escape, release or dispersal of pollutants or hazardous substances, unless such pollutants or hazardous substances have been specifically and accurately identified to Thurber by the Client prior to the commencement of Thurber's professional services.

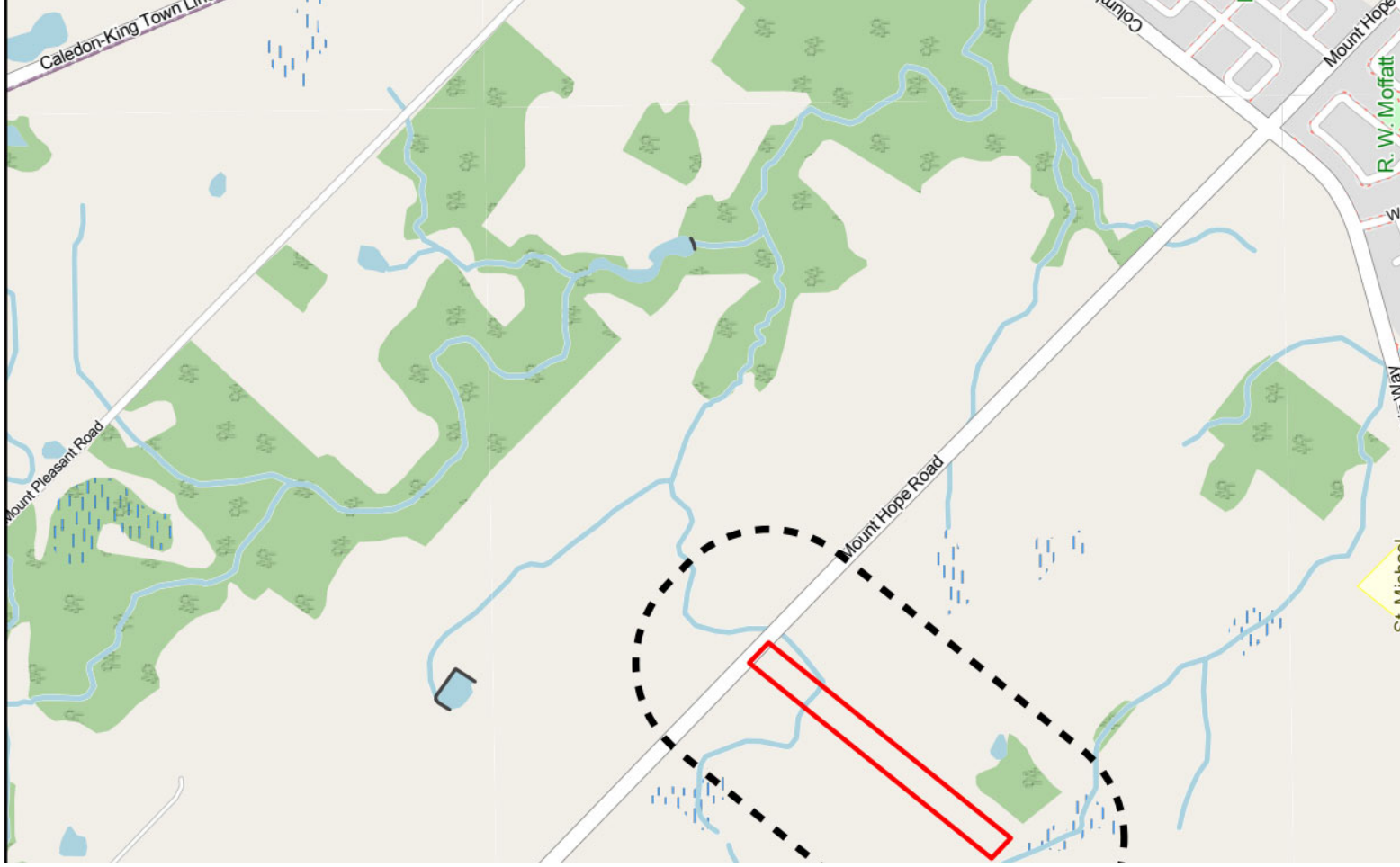
7. INDEPENDENT JUDGEMENTS OF CLIENT

The information, interpretations and conclusions in the Report are based on Thurber's interpretation of conditions revealed through limited investigation conducted within a defined scope of services. Thurber does not accept responsibility for independent conclusions, interpretations, interpolations and/or decisions of the Client, or others who may come into possession of the Report, or any part thereof, which may be based on information contained in the Report. This restriction of liability includes but is not limited to decisions made to develop, purchase or sell land.

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APPENDIX A

Drawings


Caledon-King Town Line
Mount Pleasant Road
Mount Hope Road
Mount Hope
R. W. Moffatt



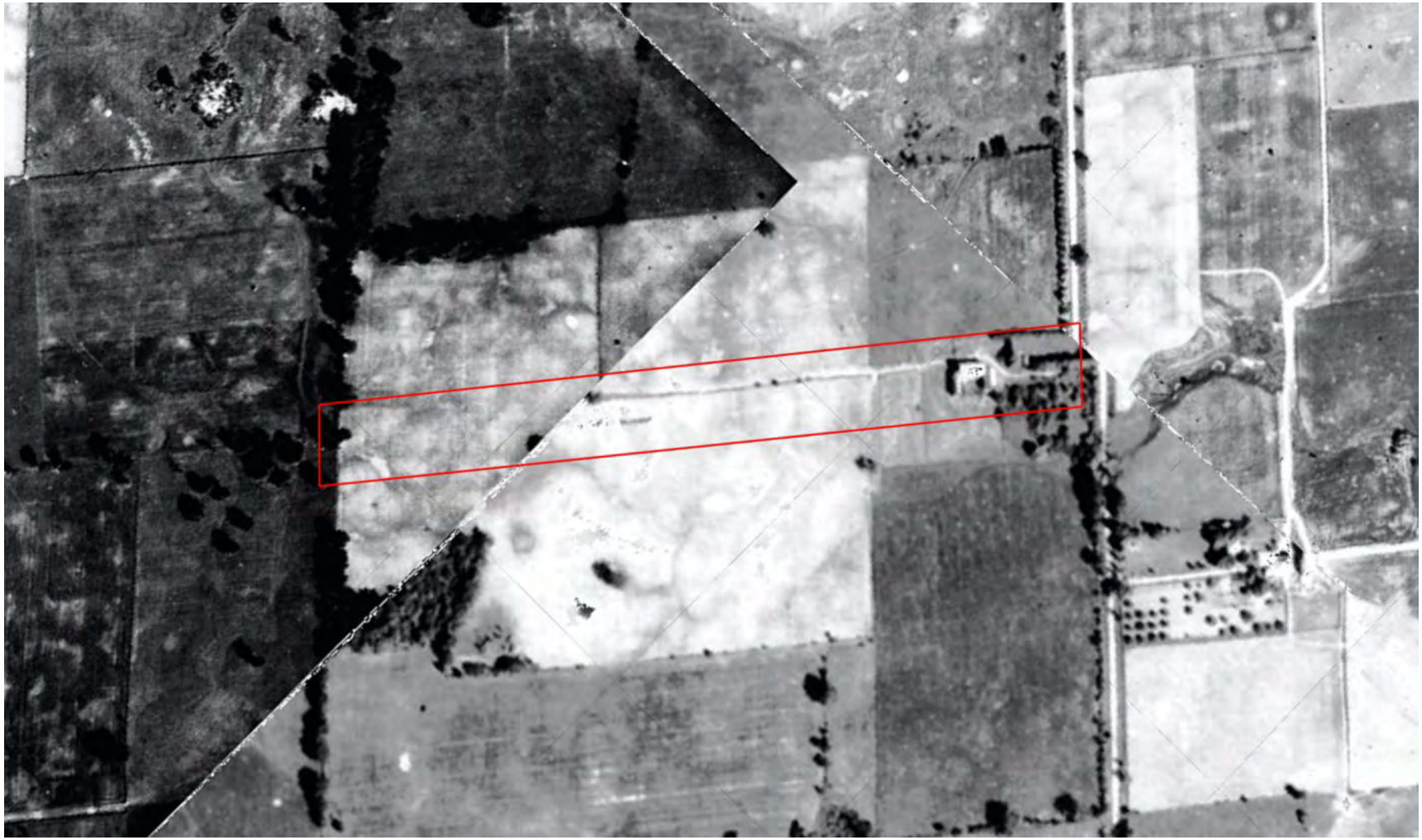
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MOUNT HOPE ROAD
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THURBER

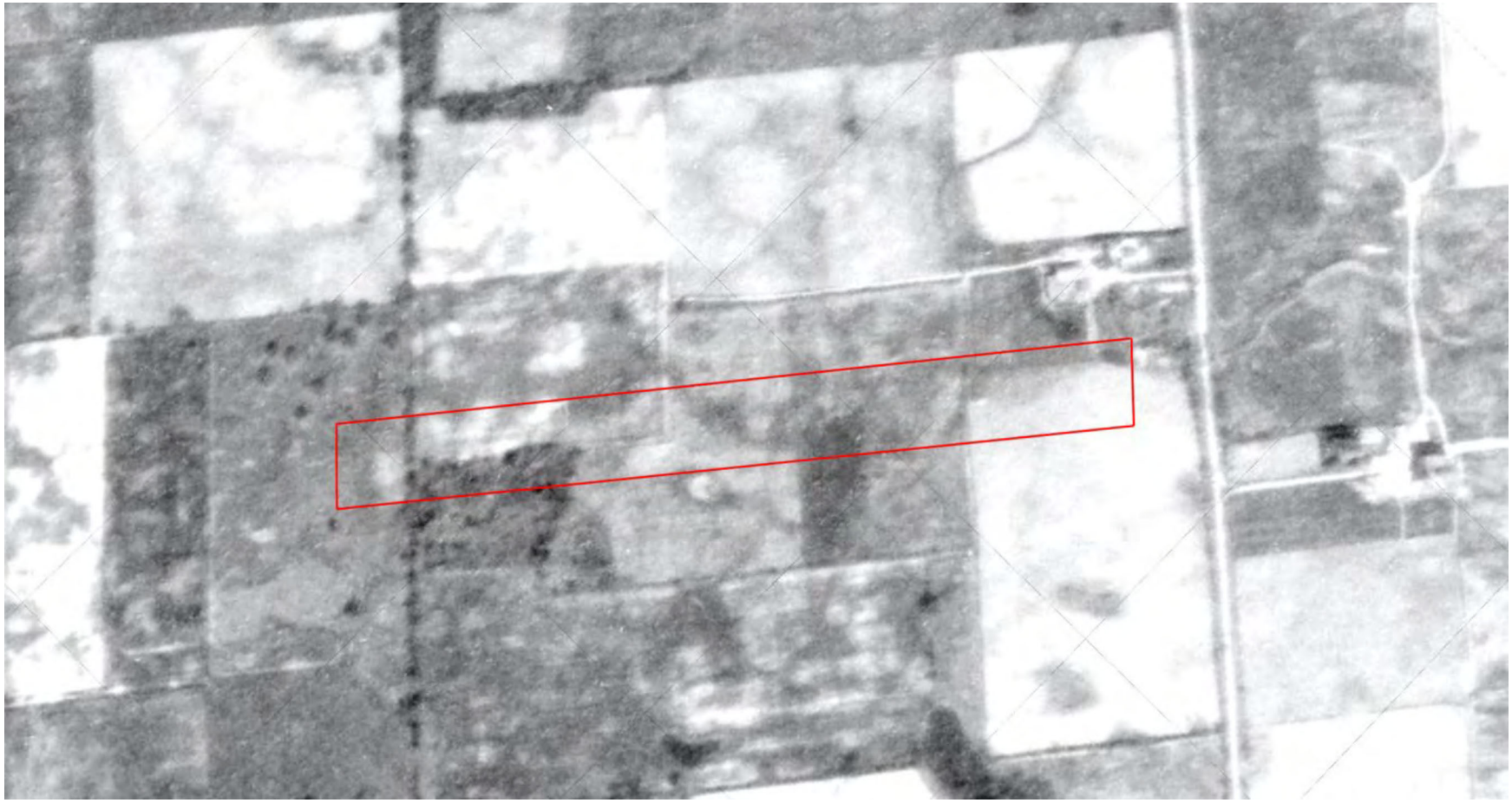
APPENDIX B

Aerial Photographs



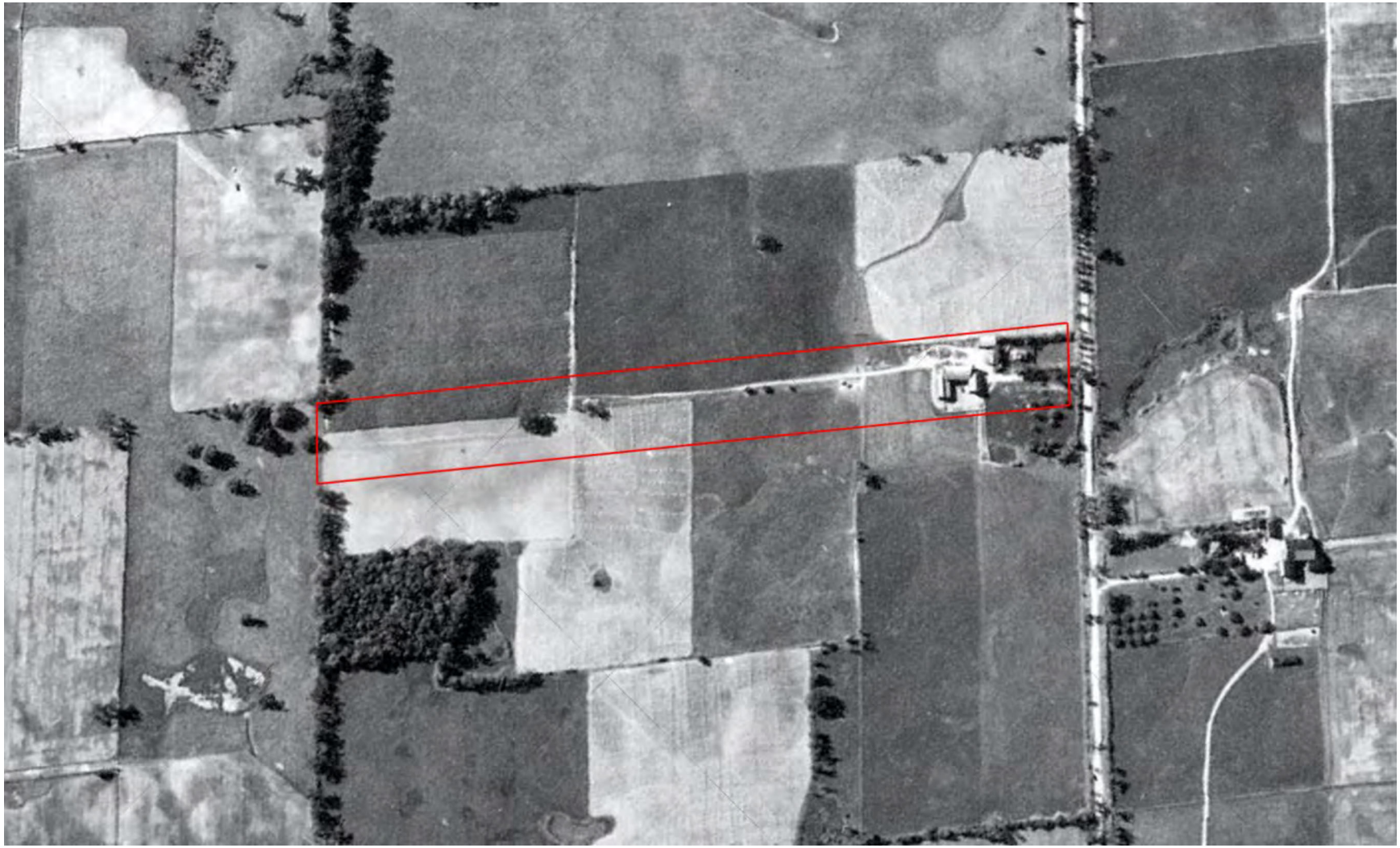
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Source: ERIS



Year: 1951

Source: ERIS



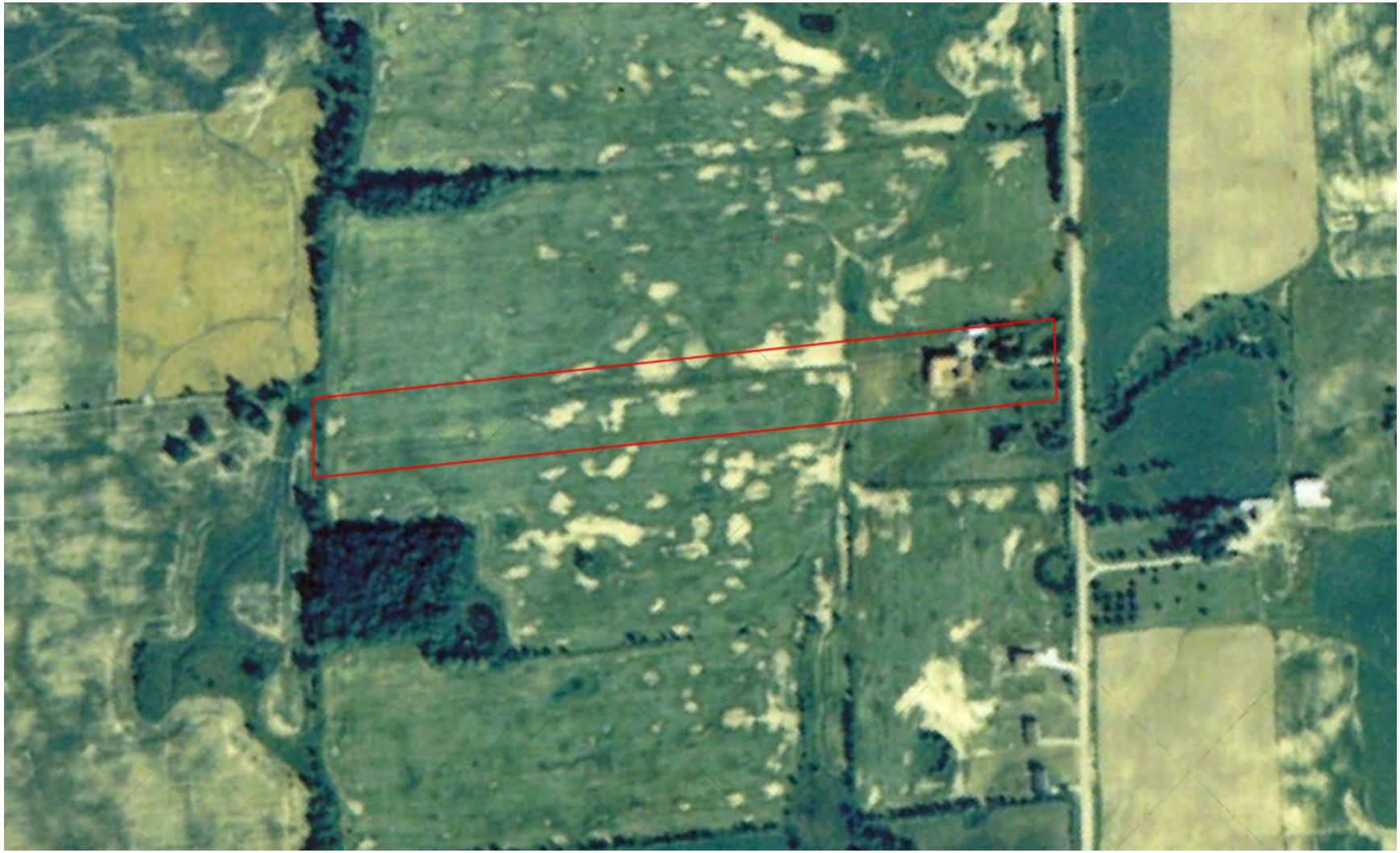
Year:1960

Source: ERIS



Year: 1974

Source: ERIS



Year: 1985

Source: ERIS



Year: 1995

Source: ERIS



Year: 2005

Source: Google Earth Pro



Year: 2015

Source: Google Earth Pro



Year: 2022

Source: ERIS

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APPENDIX C

Fire Insurance Plans

Enviroscan Report

Site address:	N/A, Kleinburg, ON
Project #:	25031400212
P.O. #:	157004
Requested by:	Eleanor Goolab
Date Completed:	3/20/2025 1:36:31 PM

CONFIDENTIAL

Project #: 25031400212 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:31

Search Area: N/A, Kleinburg, ON



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Project #: 25031400212 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:31

Historical Environmental Services Enviroscan Terms and Conditions

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 Verisk's records relating to the described property (hereinafter referred to as the "Property"). Verisk 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 Verisk'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. Verisk does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

Project #: 25031400212 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:36:31

No Records Found

Office

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

1.877.244.9437

optaintel.ca



Verisk.com

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CONFIDENTIAL

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APPENDIX D

Chain of Title and Land Registry Information

CHAIN OF TITLE REPORT

Project #: 25031200163
Address: 14530 Mt. Hope Road, Caledon
Legal Description: Part Lot 13 & Part Lot 14 Con 7 Albion Part 1, 43R18117

PIN #: 14331-0015 (LT)

Searched at: Brampton
LRO #: 43

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (200 Acres - Pt Lt 14))	10 11 1823	Crown	**Alexander GARRETT**
	Patent (100 Acres - Pt Lt 13))	05 01 1847	Crown	**William MORRISON**
4782	Deed	08 04 1824	Alexander Garrett	Francis COLLINS
4860	Deed	16 06 1824	Francis Collins	James JOHNSTON, Jr.
5319	Deed	15 08 1825	James Johnston, Jr.	James JOHNSTON, Sr.
7458	Deed	17 07 1830	James Johnston, Sr.	John COLLINS
10624	Deed	29 03 1834	John Collins	Walter O'HARA
28890	Deed	25 03 1847	William Morrison	Henry BOLTON
35977	Deed	14 01 1850	Walter O'Hara	Thomas CLARK

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project #: 25031200163
Address: 14530 Mt. Hope Road, Caledon
Legal Description: Part Lot 13 & Part Lot 14 Con 7 Albion Part 1, 43R18117

PIN #: 14331-0015 (LT)

Searched at: Brampton
LRO #: 43

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
1127	Deed (Lt 13)	19 12 1873	Henry Bolton	Henry HARPER
3940	Deed	14 11 1887	Henry Harper	Alfred Thomas HARPER
4021	Deed (LT 14)	21 02 1888	Thomas Clark	Charles CLARK
8945	Deed	30 11 1906	Charles Clark	John CLARK
14932	Deed	16 07 1946	John Clark	Delbert H. SMITH
15546	Deed	08 08 1949	Alfred Thomas Harper - Estate	Westney MATSON
15712	Lease (20 Yrs)	01 06 1950	Westney Matson	Supertest Petroleum Corpor
15804	Lease (20 Yrs)	05 01 1951	Westney Matson	Supertest Petroleum Corpor
20094	Deed	12 07 1962	Westney Matson	James A. HARPER & Henry F

Cont'd on Page 3

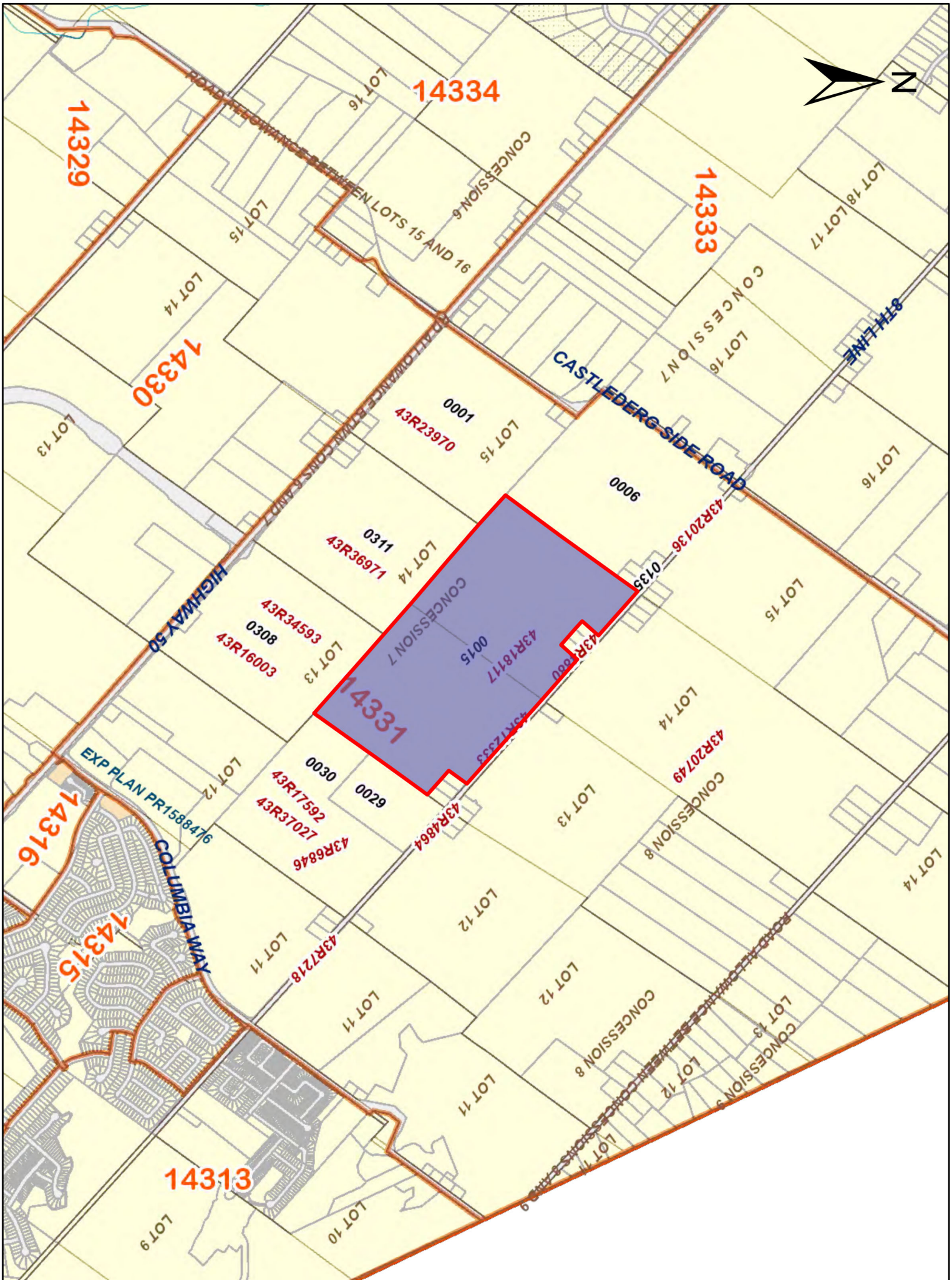
CHAIN OF TITLE REPORT

Project #: 25031200163
Address: 14530 Mt. Hope Road, Caledon
Legal Description: Part Lot 13 & Part Lot 14 Con 7 Albion Part 1, 43R18117

PIN #: 14331-0015 (LT)

Searched at: Brampton
LRO #: 43

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
20909	Deed (Lt 13)	10 10 1963	James A. Harper & Henry R. Harper	James A. FEHELEY
20970	Deed (Lt 14)	08 11 1963	Delbert H. Smith	Thomas V. JOHNSTON Vera N. JOHNSTON
VS5645	Deed	28 03 1966	Thomas V. Johnston Vera N. Johnston	James A. FEHELEY
VS90024	Deed	13 11 1968	James A. Feheley	Pauldor Developments Limit
VS105747	Deed	28 04 1969	Pauldor Developments Limited	Pauldor Developments Limit Albol Developments Limited
VS109585	Deed	03 06 1969	Pauldor Developments Limited	Albol Developments Limited
PR1148170	Deed	04 10 2006	Albol Developments Limited	Caledon Commonwealth Ltd
PR2922724	Deed	01 06 2016	Caledon Commonwealth Ltd.	2518643 Ontario Inc.
PR3772585	Deed **(Present Owner)**	28 01 2021	2518643 Ontario Inc.	**United Holdings (2) Inc.**


N
14334
14329
14333
14330
14331
14316
14315
14313
ROAD ALLOWANCE BETWEEN LOTS 15 AND 16
CONCESSION 6
CONCESSION 7
CONCESSION 8
CONCESSION 9
CASTLEDERG SIDE ROAD
8TH LINE
HIGHWAY 50
EXP PLAN PR1588476
COLUMBIA WAY
ROAD ALLOWANCE BETWEEN CONCESSIONS 8 AND 9
ROAD ALLOWANCE BETWEEN CONS 6 AND 7
43R23970
43R36971
43R34593
43R16003
43R18117
43R20136
43R17592
43R37027
43R6846
43R4864
43R7218
43R20749
0001
0311
0308
0015
0135
0030
0029
9000
LOT 10
LOT 9

PROPERTY DESCRIPTION: PT LT 13 CON 7 ALBION; PT LT 14 CON 7 ALBION PT 1 43R18117 ; CALEDON

PROPERTY REMARKS:

ESTATE/QUALIFIER:	RECENTLY:	PIN CREATION DAT
FEE SIMPLE LT CONVERSION QUALIFIED	RE-ENTRY FROM 14331-0161	1999/06/21

OWNERS' NAMES	CAPACITY	SHARE
UNITED HOLDINGS (2) INC.		

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES T
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1997/09/23 ON THIS PIN					
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1999/06/21					
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1999/06/21 ***					
***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: 1999/06/22 ***					
VS105747	1969/04/28	TRANSFER		*** COMPLETELY DELETED ***	PAULDOR DEVELOPMENTS LIMITED ALBOL DEVELOPMENTS LIMITED
VS109585	1969/06/03	TRANSFER		*** DELETED AGAINST THIS PROPERTY ***	ALBOL DEVELOPMENTS LIMITED
VS133706	1970/02/19	DECLARATION		*** DELETED AGAINST THIS PROPERTY ***	
	REMARKS: DELETED 2006/09/25 K CATION-BEECROFT				
43R18117	1990/09/28	PLAN REFERENCE			
PR1148170	2006/10/04	TRANSFER		*** COMPLETELY DELETED *** ALBOL DEVELOPMENTS LIMITED	CALEDON COMMONWEALTH LTD.
	REMARKS: PLANNING ACT STATEMENTS				

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPE
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES T
PR2922724	2016/06/01	TRANSFER		*** COMPLETELY DELETED *** CALEDON COMMONWEALTH LTD.	2518643 ONTARIO INC.
PR2922725	2016/06/01	CHARGE		*** COMPLETELY DELETED *** 2518643 ONTARIO INC.	CALEDON COMMONWEALTH LTD.
PR3354705	2018/07/25	NOTICE		*** COMPLETELY DELETED *** 2640370 ONTARIO LIMITED	
	REMARKS: PR2922725; EXPIRES 2028/06/16				
PR3519929	2019/08/07	TRANSFER OF CHARGE		*** COMPLETELY DELETED *** CALEDON COMMONWEALTH LTD.	2640370 ONTARIO LIMITED
	REMARKS: PR2922725. PARTIAL				
PR3576785	2019/11/26	DISCHARGE INTEREST		*** COMPLETELY DELETED *** 2640370 ONTARIO LIMITED	
	REMARKS: PR3354705.				
PR3772585	2021/01/28	TRANSFER	$10,500,000	2518643 ONTARIO INC.	UNITED HOLDINGS (2) INC.
	REMARKS: PLANNING ACT STATEMENTS.				
PR3772586	2021/01/28	CHARGE		*** COMPLETELY DELETED *** UNITED HOLDINGS (2) INC.	2518643 ONTARIO INC.
PR3772653	2021/01/28	DISCH OF CHARGE		*** COMPLETELY DELETED *** CALEDON COMMONWEALTH LTD. 2640370 ONTARIO LIMITED	
	REMARKS: PR2922725.				
PR4229596	2023/07/27	DISCH OF CHARGE		*** COMPLETELY DELETED *** 2518643 ONTARIO INC.	
	REMARKS: PR3772586.				

THURBER

APPENDIX E

City Directory Report

ERIS

CITY DIRECTORY

Project Property:	*48561 Bolton EA* *n/a* *Caledon,ON*
Project No:	*48561*
Requested By:	*Thurber Engineering Ltd*
Order No:	*24112100344*
Date Completed:	*November 29, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.

November 29, 2024
RE: CITY DIRECTORY RESEARCH
n/a
Caledon,ON

Thank you for contacting ERIS regarding our City Directory Search services. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. When searching a range of addresses, all civic addresses within that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on highly developed areas, while newly developed areas may be covered in the more recent years, older directories tend to cover only "central" parts of the city. To complete the search, we have either utilized the Toronto Reference Library, Library & Archives Canada and multiple digitized directories. While these do not claim to be a complete collection of all reverse listing city directories produced, ERIS has made every effort to provide accurate and complete information. ERIS shall not be held liable for missing, incomplete, or inaccurate information. If you believe there are additional addresses or streets that require searching, please contact us.

Search Criteria:

9100-9730 of Columbia Way

14000-14575 of Duffys Lane

14000-14300 of Emil Kolb Parkway

14000-14820 of Highway 50

13900-14560 of Mt Hope Road

Search Notes:

Emil Kolb Parkway is also known as Peel Regional Road 150 in Bolton. Highway 50 is also known as Queen Street N in Bolton.

Search Results Summary

Data from 2012 to 2017 does not include residential information

Date	Source	Comment
2023	DIGITAL BUSINESS DIRECTORY	
2021	DIGITAL BUSINESS DIRECTORY	
2017	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	COLE	
2000-01	POLKS	
1995-96	MIGHTS	
1991	MIGHTS	
1985	MIGHTS	
1981	MIGHTS	
1975	MIGHTS	
1970-71	MIGHTS	
1966	MIGHTS	
1958	MIGHTS	

2023 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **JUST CATERING**...*CATERERS*
9130 **ST MICHAEL**...*SCHOOLS*
9706 **J CHABLUK**...*RESIDENTIAL*
9726 **A DISCENZA**...*RESIDENTIAL*

2023 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*CONSTRUCTION COMPANIES*
14068 **CALEDON CONTRACTING LTD**...*FEDERAL GOVERNMENT CONTRACTORS*
14068 **K CARLYON**...*RESIDENTIAL*

2023 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

14096 **A KARALASINGAM**...*RESIDENTIAL*
14105 **RICHARD ABEL**...*RESIDENTIAL*
14114 **A DEVITA**...*RESIDENTIAL*
14114 **C GONCALVES**...*RESIDENTIAL*

2023 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **MR SUB**...*FOODS-CARRY OUT*
14111 **MR SUB**...*RESTAURANTS*
14118 **A ZIMMER**...*RESIDENTIAL*
14118 **J GILLESPIE**...*RESIDENTIAL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*RECREATIONAL VEHICLES-RENTING & LEASING*
14124 **MOTOR HOME TRAVEL CANADA INC**...*RECREATIONAL VEHICLES*
14291 **CHRISTINA PILON**...*RESIDENTIAL*
14291 **LEO PILON**...*RESIDENTIAL*
14328 **C BOWLES**...*RESIDENTIAL*
14442 **CALEDON TRANSPORT**...*LOCAL TRUCKING, WITHOUT STORAGE*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE-READY MIXED*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE AGGREGATES (WHOLESALE)*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **BOLTON ESSO**...*SERVICE STATIONS-GASOLINE & OIL*
14445 **ESSO**...*SERVICE STATIONS-GASOLINE & OIL*
14445 **J WILSON**...*RESIDENTIAL*
14445 **MIKE THE MECHANIC**...*AUTOMOBILE REPAIRING & SERVICE*
14445 **S F SVC**...*VEHICLE INSPECTION SERVICE*
14445 **S F SVC**...*AUTOMOBILE INSPECTION STATIONS*
14445 **S AGNEW**...*RESIDENTIAL*
14600 **J SARKISIAN**...*RESIDENTIAL*
14600 **R SUMMERS**...*RESIDENTIAL*
14616 **K CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GARDEN EQUIP & SUPPLIES-RETAIL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN MOWERS*
14684 **J STAMOS**...*RESIDENTIAL*
14684 **K POLSINELLI**...*RESIDENTIAL*
14684 **P SHELL**...*RESIDENTIAL*
14684 **W TWEDDLE**...*RESIDENTIAL*
14685 **M MACKENZIE**...*RESIDENTIAL*
14685 **R FRENCH**...*RESIDENTIAL*
14766 **E FIALA**...*RESIDENTIAL*
14766 **KEN MCKAY**...*RESIDENTIAL*
14776 **JOE GUARAGNA**...*RESIDENTIAL*
14791 **H AUER**...*RESIDENTIAL*
14800 **A CIARALLO**...*RESIDENTIAL*
14815 **J SCHWEIGHOFER**...*RESIDENTIAL*
14816 **CHESSLAWN FARM**...*INDUSTRIAL EQUIPMENT & SUPPLIES (WHOL)*
14818 **DWIGHT MATSON**...*RESIDENTIAL*
14818 **HILLIARD MATSON**...*RESIDENTIAL*
14818 **S MATSON**...*RESIDENTIAL*

2023 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14190 **SMITH LAURA**...*RESIDENTIAL*
14195 **V CAVALIERI**...*RESIDENTIAL*
14320 **A WILLIAMS**...*RESIDENTIAL*
14320 **J BENOIT**...*RESIDENTIAL*
14383 **M BARTUCCI**...*RESIDENTIAL*
14395 **J PARETE**...*RESIDENTIAL*
14400 **JEFF BELISOWSKI**...*RESIDENTIAL*
14409 **C ACETO**...*RESIDENTIAL*
14414 **A BASSDNBEN**...*RESIDENTIAL*
14421 **J BUTLER**...*RESIDENTIAL*
14432 **DOMENIC IERULLO**...*RESIDENTIAL*
14461 **MURRAY MATSON**...*RESIDENTIAL*
14559 **P DEROSA**...*RESIDENTIAL*

2021 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **JUST CATERING**...*CATERERS*
9130 **ST MICHAEL**...*SCHOOLS*
9706 **J CHABLUK**...*RESIDENTIAL*
9726 **A DISCENZA**...*RESIDENTIAL*

2021 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*CONSTRUCTION COMPANIES*
14068 **CALEDON CONTRACTING LTD**...*FEDERAL GOVERNMENT CONTRACTORS*
14068 **K CARLYON**...*RESIDENTIAL*

2021 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

14096 **A KARALASINGAM**...*RESIDENTIAL*
14105 **RICHARD ABEL**...*RESIDENTIAL*
14114 **A DEVITA**...*RESIDENTIAL*
14114 **C GONCALVES**...*RESIDENTIAL*

2021 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **MR SUB**...*FOODS-CARRY OUT*
14118 **J GILLESPIE**...*RESIDENTIAL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*MOTOR HOMES-RETAIL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*MOTOR HOMES-RENTING & LEASING*
14291 **CHRISTINA A PILON**...*RESIDENTIAL*
14291 **CHRISTINA PILON**...*RESIDENTIAL*
14291 **LEO PILON**...*RESIDENTIAL*
14328 **C BOWLES**...*RESIDENTIAL*
14442 **CALEDON TRANSPORT**...*GENERAL FREIGHT TRUCKING,LOCAL*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE MIXERS (WHLS)*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE AGGREGATES (WHLS)*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **BOLTON ESSO**...*ALTERNATIVE FUELS*
14445 **J WILSON**...*RESIDENTIAL*
14445 **MIKE THE MECHANIC**...*AUTOMOBILE REPAIRING & SERVICE*
14445 **S F SVC**...*VEHICLE INSPECTION SERVICE*
14445 **S F SVC**...*AUTOMOBILE INSPECTION STATIONS-NEW/USED*
14600 **J SARKISIAN**...*RESIDENTIAL*
14616 **K CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GROUNDS MAINTENANCE*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GARDEN EQUIP & SUPPLIES-RETAIL*
14684 **J STAMOS**...*RESIDENTIAL*
14684 **K POLSINELLI**...*RESIDENTIAL*
14684 **P SHELL**...*RESIDENTIAL*
14685 **M MACKENZIE**...*RESIDENTIAL*
14685 **R FRENCH**...*RESIDENTIAL*
14766 **E FIALA**...*RESIDENTIAL*
14766 **KEN MCKAY**...*RESIDENTIAL*
14776 **JOE GUARAGNA**...*RESIDENTIAL*
14791 **H J AUER**...*RESIDENTIAL*
14800 **A CIARALLO**...*RESIDENTIAL*
14815 **J SCHWEIGHOFER**...*RESIDENTIAL*
14818 **DWIGHT MATSON**...*RESIDENTIAL*
14818 **HILLIARD MATSON**...*RESIDENTIAL*
14818 **S MATSON**...*RESIDENTIAL*

2021 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14190 **SMITH LAURA**...*RESIDENTIAL*
14195 **V CAVALIERI**...*RESIDENTIAL*
14320 **A WILLIAMS**...*RESIDENTIAL*
14320 **J BENOIT**...*RESIDENTIAL*
14383 **M BARTUCCI**...*RESIDENTIAL*
14395 **J PARETE**...*RESIDENTIAL*
14400 **JEFF BELISOWSKI**...*RESIDENTIAL*
14409 **C ACETO**...*RESIDENTIAL*
14414 **A BASSDNBEN**...*RESIDENTIAL*
14421 **J BUTLER**...*RESIDENTIAL*
14432 **DOMENIC IERULLO**...*RESIDENTIAL*
14461 **MURRAY W MATSON**...*RESIDENTIAL*
14559 **P DEROSA**...*RESIDENTIAL*

2017 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **ST MICHAEL**...*ELEMENTARY & SECONDARY SCHOOLS*

2017 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*POURED CONCRETE STRUCTURE CONTRS*
14068 **MAJESTIC MEMORIALS**...*ALL OTHER SUPPORT SVCS*
14068 **MAJESTIC MEMORIALS**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2017 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2017 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14007 **BARRHAVEN RESTAURANTS**...*RESTAURANTS*
14111 **CALEDON CENTRE FOR RECREATION**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14111 **CALEDON CENTRE SWIMMING POOL**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14111 **MR SUB**...*FULLSERVICE RESTAURANTS*
14111 **MR SUB**...*LIMITEDSERVICE RESTAURANTS*
14118 **WOODY'S BUILDING PRODUCTS**...*HOME CENTERS*
14182 **NORTH HILL ANIMAL HOSPITAL**...*VETERINARIANS*
14218 **COLD CREEK LANDSCAPING & MNTNC**...*LAWN & GROUNDS MAINTENANCE*
14289 **ALBION AUTO CTR**...*GENERAL AUTOMOTIVE REPAIR*
14289 **ALBION AUTO SALES**...*USED CAR DEALERS*
14442 **CALEDON TRANSPORT**...*TRUCKING AND WAREHOUSING*
14442 **JAMES DICK AGGREGATES**...*MASONRY MATERIAL MERCHANT WHOLS*
14442 **JAMES DICK CONCRETE-AGGREGATES**...*POURED CONCRETE STRUCTURE CONTRS*
14442 **JAMES DICK CONSTRUCTION LTD**...*OTHER BUILDING MATERIAL DEALERS*
14442 **JAMES DICK CONSTRUCTION LTD**...*MASONRY MATERIAL MERCHANT WHOLS*
14444 **JAMES DICK CONSTRUCTION**...*OTHER BUILDING MATERIAL DEALERS*
14445 **BOLTON ESSO**...*OTHER GASOLINE STATIONS*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **MIKE THE MECHANIC**...*GENERAL AUTOMOTIVE REPAIR*
14445 **S F SVC**...*OTHER GASOLINE STATIONS*
14445 **S F SVC**...*GENERAL AUTOMOTIVE REPAIR*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*OUTDOOR POWER EQUIP STORES*

2017 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14559 **JMD WOOD PRODUCTS LTD**...*LUMBER & WOOD MERCHANT WHOLS*
14559 **JMD WOOD PRODUCTS LTD**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2012 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2012 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*POURED CONCRETE STRUCTURE CONTRS*
14068 **MAJESTIC MEMORIALS**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2012 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2012 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **CALEDON CENTRE FOR RECREATION**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14118 **VIA DIRECT**...*SUPPORT ACTIVITIES FOR RAIL TRANSPORTATION*
14118 **WOODY'S BUILDING PRODUCTS**...*HOME CENTERS*
14124 **WOODY'S BUILDING PRODUCTS**...*OTHER BUILDING MATERIAL DEALERS*
14124 **WOODYS HOME IMPROVEMENT CTR**...*RESIDENTIAL REMODELERS*
14182 **NORTH HILL ANIMAL HOSPITAL**...*VETERINARIANS*
14182 **ROTENBERG, ARTHUR DVM**...*VETERINARIANS*
14218 **COLD CREEK LANDSCAPING & MNTNC**...*LAWN & GROUNDS MAINTENANCE*
14220 **BEL AIR WOOD COMPONENTS**...*UNCLASSIFIED*
14289 **ALBION AUTO CTR**...*GENERAL AUTOMOTIVE REPAIR*
14289 **ALBION AUTO SALES**...*USED CAR DEALERS*
14289 **ALBION AUTO SALES & SVC INC**...*AUTOMOTIVE EXHAUST SYSTEM REPAIR*
14291 **HERITAGE GROUP LTD**...*OFFICES OF REAL ESTATE AGENTS & BROKERS*
14337 **BH FLOWERS WHOLESALE LTD**...*NURSERY & FLORIST MERCHANT WHOLS*
14442 **CALEDON TRANSPORT**...*TRUCKING AND WAREHOUSING*
14442 **JAMES DICK CONCRETE-AGGREGATES**...*POURED CONCRETE STRUCTURE CONTRS*
14442 **JAMES DICK CONSTRUCTION LTD**...*MASONRY MATERIAL MERCHANT WHOLS*
14444 **JAMES DICK CONSTRUCTION**...*OTHER BUILDING MATERIAL DEALERS*
14445 **AUTOPRO DEALER**...*GENERAL AUTOMOTIVE REPAIR*
14445 **BOLTON ESSO**...*OTHER GASOLINE STATIONS*
14445 **MIKE THE MECHANIC**...*GENERAL AUTOMOTIVE REPAIR*
14445 **S & F SVC**...*GENERAL AUTOMOTIVE REPAIR*
14600 **JAY-R'S AUTO GLASS**...*OTHER BUILDING MATERIAL DEALERS*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*OUTDOOR POWER EQUIP STORES*

2012 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2008 COLUMBIA WAY

SOURCE: COLE

9726	**RESIDENTIAL (1 TENANT)**

2008 DUFFYS LANE

SOURCE: COLE

14068	**CALEDON CEMETERY CONSTRUCTION**
14068	**CALEDON CONTRACTING LTD**
14068	**CALEDON MAUSOLEUM CORPORATION**
14068	**MAJESTIC MEMORIALS**
	ALL RESIDENTIAL

2008 EMIL KOLB PARKWAY

SOURCE: COLE

STREET NOT LISTED

2008 HIGHWAY 50

SOURCE: COLE

STREET NOT LISTED

2008 MT HOPE ROAD

SOURCE: COLE

ALL RESIDENTIAL

2000-01 COLUMBIA WAY

SOURCE: POLKS

9726 **TARMAC CANADA INC**
ALL RESIDENTIAL

2000-01 DUFFYS LANE

SOURCE: POLKS

14068 **CALEDON CEMETERY CONSTRUCTION**
14068 **CALEDON CONTRACTING LTD**
14068 **CALEDON MAUSOLEUM CORPORATION**

2000-01 EMIL KOLB PARKWAY

SOURCE: POLKS

STREET NOT LISTED

2000-01 HIGHWAY 50

SOURCE: POLKS

14218	COLD CREEK LANDSCAPING & MAINTENANCE
14245	RAVINE OF TAYLOR WOODS THE
14289	22 DOLLARS A DAY CAR RENTALS
14289	ALBION AUTO SALES
14442	CALEDON TRANSPORT
14442	JAMES DICK CONCRETE-AGGREGATES
14445	AUTOPRO
14445	MIKE THE MECHANIC
14445	S & F SERVICE
14445	STEVE MORELLOS SERVICE
14600	JAY-R'S AUTO GLASS
14616	KEN'S LAWNMOWER REPAIRS LTD
	ALL RESIDENTIAL

2000-01 MT HOPE ROAD

SOURCE: POLKS

ALL RESIDENTIAL

1995-96 COLUMBIA WAY

SOURCE: MIGHTS

9589 **RESIDENTIAL (1 TENANT)**
9683 **RESIDENTIAL (1 TENANT)**

1995-96 DUFFYS LANE

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1995-96 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1995-96 HIGHWAY 50

SOURCE: MIGHTS

ALL RESIDENTIAL

1995-96 MT HOPE ROAD

SOURCE: MIGHTS

ALL RESIDENTIAL

1991 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1991 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1991 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1991 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1991 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1985 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1985 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1985 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1985 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1985 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1981 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1981 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1981 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1981 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1981 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1975 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1975 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1975 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1975 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1975 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1970-71 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1966 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1966 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1966 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1966 HIGHWAY 50

SOURCE: MIGHTS

STREET NOT LISTED

1966 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1958 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1958 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1958 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1958 HIGHWAY 50

SOURCE: MIGHTS

STREET NOT LISTED

1958 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

THURBER

APPENDIX F

ERIS Database Report

DATABASE REPORT

Project Property:	*48561 Bolton EA* *n/a* *Caledon ON*
Project No:	*48561*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*24112100344*
Requested by:	*Thurber Engineering Ltd*
Date Completed:	*November 21, 2024*

Environmental Risk Information Services
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1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:	*48561 Bolton EA* *n/a Caledon ON*
Project No:	*48561*

Order Information:

Order No:	*24112100344*
Date Requested:	*November 21, 2024*
Requested by:	*Thurber Engineering Ltd*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*Smart CD Search*
ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	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*	N	-	-	-
CA	*Certificates of Approval*	Y	0	2	2
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*	N	-	-	-
DTNK	*Delisted Fuel Tanks*	Y	0	9	9
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	0	0	0
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	N	-	-	-
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	5	5
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	5	5
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	32	32
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	4	4
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
NPR2	National Pollutant Release Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory - Historic	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	9	9
PFAS	Ontario PFAS Spills	Y	0	0	0
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	1	3	4
PPHA	Potential PFAS Handlers from EASR	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	N	-	-	-
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	1	1
RST	Retail Fuel Storage Tanks	Y	0	1	1
SCT	Scott's Manufacturing Directory	Y	0	6	6
SPL	Ontario Spills	Y	1	9	10
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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
WDSH	***Waste Disposal Sites - MOE 1991 Historical Approval Inventory***	*Y*	*0*	*0*	*0*
WWIS	***Water Well Information System***	*N*	*-*	*-*	*-*
		Total:	*2*	*87*	*89*

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	SPL	Enbridge Gas Distribution Inc.	Emil Colb Parkway @ King Street Caledon ON	S/0.0	-11.36	28
1	PINC	PIPELINE HIT 4"	EMIL KOLB PKWY & KING ST,,BOLTON, ON,,CA ON	S/0.0	-11.36	29

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	GEN	PEEL, REGION OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	ESE/14.1	4.58	29
2	GEN	PEEL, REGIONAL MUNICIPALITY OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	ESE/14.1	4.58	30
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	33
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	33
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	34

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	34
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	35
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	35
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	36
2	PES		14220 Hwy 50 HWY CALEDON ON L7E 3E2	ESE/14.1	4.58	36
2	PES	CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	ESE/14.1	4.58	37
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON L7E 5R8	ESE/20.1	4.61	37
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	38
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	38
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	39
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	39
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	40
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	42
4	SPL		60 Alderbrook Place, Bolton Caledon ON	ESE/21.3	1.52	42
5	SPL	CALEDON HYDRO	14442 HWY 50 (JAMES DICK CONSTRUCTION) TRANSFORMER/CAPACITOR CALEDON TOWN ON	NNE/26.9	-0.64	43
5	SCT	Caledon Sand & Gravel Inc.	14442 Regional Road 50 Bolton ON L7E 3E2	NNE/26.9	-0.64	44
5	SCT	James Dick Construction Ltd.	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	James Dick Concrete Aggregates	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	Hamilton Ready Mix Ltd.	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	James Dick Construction Ltd.	14442 Regional Road 50 Bolton ON L7E 3E2	NNE/26.9	-0.64	45
5	SPL	James Dick Construction Limited	14442 Hwy 50 Caledon ON	NNE/26.9	-0.64	45

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
6	RST	S & F SERVICE	14445 HWY 50 BOLTON ON L7E3H6	NNE/32.0	3.89	46
6	DTNK	YASHRAJ INC	14445 HWY 50 BOLTON ON L7E 3H6	NNE/32.0	3.89	46
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	SPL		by 14445 Regional Rd 50, Bolton Caledon ON	NNE/32.0	3.89	48
6	INC	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	48
6	SPL	Facility Maintenance & Construction Inc.	14445 Regional Rd. 50 Caledon ON NA	NNE/32.0	3.89	49
6	GEN	Petro V Plus	14445 Regional Rd 50 Bolton ON L7E3H6	NNE/32.0	3.89	50
6	INC	PETRO V PLUS LTD O/A ESSO	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA ON	NNE/32.0	3.89	50
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	51
7	SPL		14475 Highway 50 Caledon ON	N/35.6	5.61	51

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	INC		14475 HIGHWAY 50, CALEDON ON	N/35.6	5.61	52
8	RSC	PAPERTIOUS INVESTMENTS INC.	No Municipal Address Caledon ON	S/35.7	1.22	53
9	GEN	North Hill Animal Hospital	14182 Hwy 50 N. Bolton ON	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Hwy 50 N. Bolton ON L7E 5R8	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	ESE/39.0	2.61	55
10	SPL	Enbridge Energy Distribution Inc.	151 Taylorwood Ave, Bolton Halton Hills ON	E/49.1	4.58	55
10	PINC	PIPELINE HIT 1/2"	151 TAYLORWOOD AVE,,BOLTON,ON, L7E 1S8,CA ON	E/49.1	4.58	56
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	56
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	58

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	58
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	59
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	59
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	60
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	61
12	CA	WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	ESE/81.3	4.34	61
12	CA	WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	ESE/81.3	4.34	62
13	PINC		13 Foxbury Place, Caledon ON	E/89.3	-2.37	62
13	PINC	PIPELINE HIT 0.5"	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	E/89.3	-2.37	62
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	63
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	63
14	GEN	Grant Thornton	14124 Regional Road #50 Bolton ON	ESE/117.8	2.61	64
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	64

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	INC		7 Rotarian Way, Caledon ON	ESE/129.6	2.56	64
16	PES	CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	SE/137.9	2.44	65
17	GEN	Progreen Demolition Ltd.	14328 Hwy 50 Bolton ON	SE/161.0	0.55	65
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	66
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	66
18	HINC		14118 Hwy 50 BOLTON ON	SE/182.2	1.28	67
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	67
19	SCT	THE NEEDLEWORKS	8 TAYLORWOOD AVE BOLTON ON L7E 1J2	E/188.7	0.83	67
20	SPL		22-80 Goodfellow Cres., Bolton Caledon ON	E/199.5	0.61	68
21	DTNK	RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	E/209.0	-0.39	68
21	DTNK	RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	E/209.0	-0.39	69
22	SPL	The Regional Municipality of Peel	16 Ewart St Caledon ON L7E 2T3	E/218.6	-0.39	70

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	81.3	12
WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	81.3	12

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Oct 2023 has found that there are 9 DTNK site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON L7E 5R8	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3

Site	Address	Distance (m)	Map Key
YASHRAJ INC	14445 HWY 50 BOLTON ON L7E 3H6	32.0	6
RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	209.0	21
RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	209.0	21

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Oct 2023 has found that there are 5 EXP site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3

FST - Fuel Storage Tank

A search of the FST database, dated Oct 2023 has found that there are 5 FST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 32 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PEEL, REGION OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2

Site	Address	Distance (m)	Map Key
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
PEEL, REGIONAL MUNICIPALITY OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	14.1	2
Petro V Plus	14445 Regional Rd 50 Bolton ON L7E3H6	32.0	6

Site	Address	Distance (m)	Map Key
North Hill Animal Hospital	14182 Hwy 50 N. Bolton ON	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Hwy 50 N. Bolton ON L7E 5R8	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	39.0	9
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11

Site	Address	Distance (m)	Map Key
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
Grant Thornton	14124 Regional Road #50 Bolton ON	117.8	14
Progreen Demolition Ltd.	14328 Hwy 50 Bolton ON	161.0	17

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	14118 Hwy 50 BOLTON ON	182.2	18

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated 31 Oct, 2023 has found that there are 4 INC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA ON	32.0	6
	14475 HIGHWAY 50, CALEDON ON	35.6	7

Site	Address	Distance (m)	Map Key
	7 Rotarian Way, Caledon ON	129.6	15

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Sep 30, 2024 has found that there are 9 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	14220 Hwy 50 HWY CALEDON ON L7E 3E2	14.1	2
CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	14.1	2
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	137.9	16
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18

Site	Address	Distance (m)	Map Key
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 4 PINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PIPELINE HIT 4"	EMIL KOLB PKWY & KING ST,,BOLTON, ON,,CA ON	0.0	1
PIPELINE HIT 1/2"	151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8,CA ON	49.1	10
PIPELINE HIT 0.5"	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	89.3	13
	13 Foxbury Place, Caledon ON	89.3	13

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Oct 2024 has found that there are 1 RSC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PAPERTIOUS INVESTMENTS INC.	No Municipal Address Caledon ON	35.7	8

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Apr 30, 2024 has found that there are 1 RST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
S & F SERVICE	14445 HWY 50 BOLTON ON L7E3H6	32.0	6

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 6 SCT site(s) within approximately 0.25 kilometers of the project property.

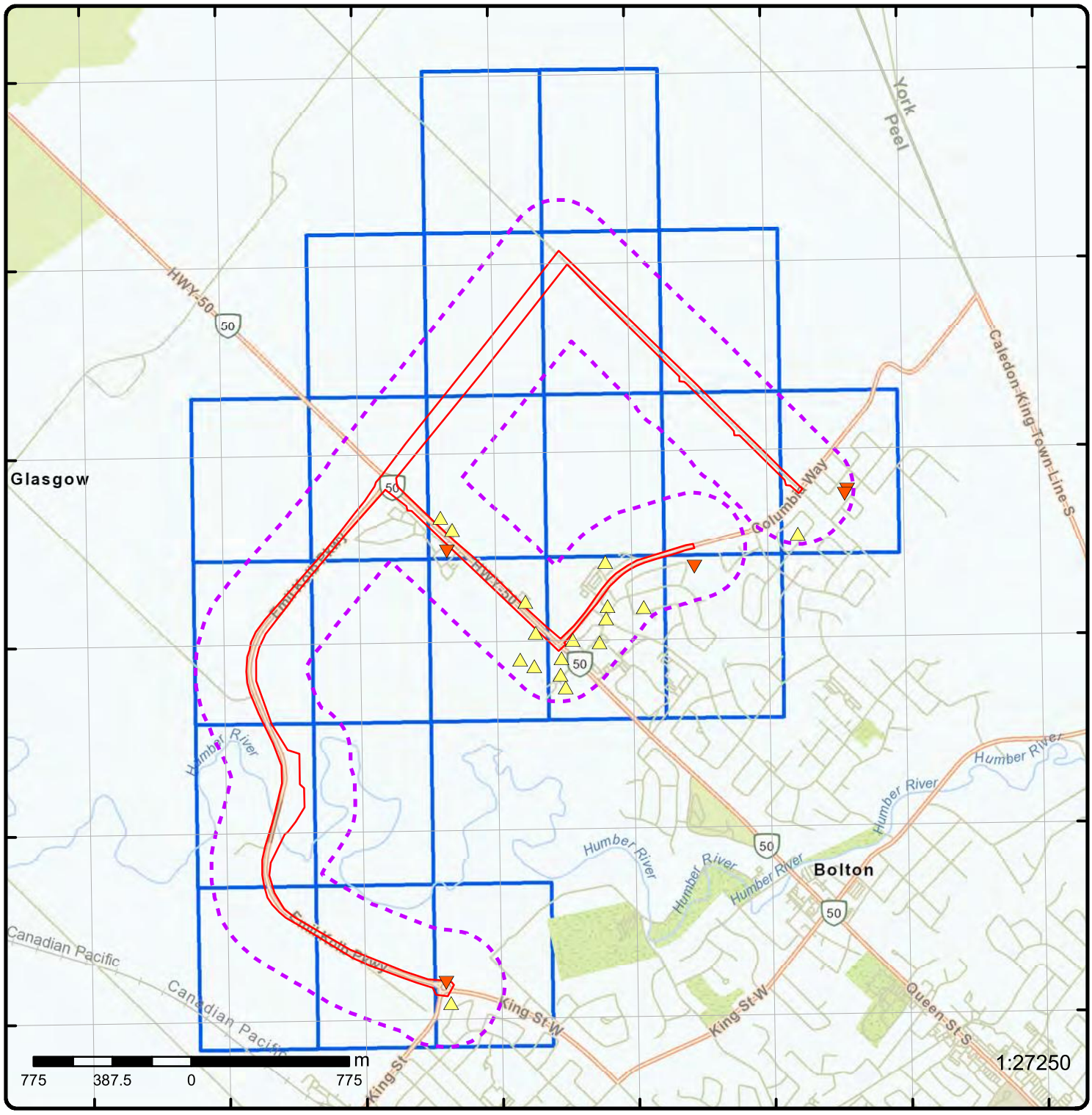
Site	Address	Distance (m)	Map Key
Caledon Sand & Gravel Inc.	14442 Regional Road 50 Bolton ON L7E 3E2	26.9	5
James Dick Construction Ltd.	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
Hamilton Ready Mix Ltd.	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
James Dick Construction Ltd.	14442 Regional Road 50 Bolton ON L7E 3E2	26.9	5
James Dick Concrete Aggregates	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
THE NEEDLEWORKS	8 TAYLORWOOD AVE BOLTON ON L7E 1J2	188.7	19

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2024 has found that there are 10 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Enbridge Gas Distribution Inc.	Emil Colb Parkway @ King Street Caledon ON	0.0	1

Site	Address	Distance (m)	Map Key
	60 Alderbrook Place, Bolton Caledon ON	21.3	4
CALEDON HYDRO	14442 HWY 50 (JAMES DICK CONSTRUCTION) TRANSFORMER/CAPACITOR CALEDON TOWN ON	26.9	5
James Dick Construction Limited	14442 Hwy 50 Caledon ON	26.9	5
	by 14445 Regional Rd 50, Bolton Caledon ON	32.0	6
Facility Maintenance & Construction Inc.	14445 Regional Rd. 50 Caledon ON NA	32.0	6
	14475 Highway 50 Caledon ON	35.6	7
Enbridge Energy Distribution Inc.	151 Taylorwood Ave, Bolton Halton Hills ON	49.1	10
	22-80 Goodfellow Cres., Bolton Caledon ON	199.5	20
The Regional Municipality of Peel	16 Ewart St Caledon ON L7E 2T3	218.6	22



Map: 0.25 Kilometer Radius

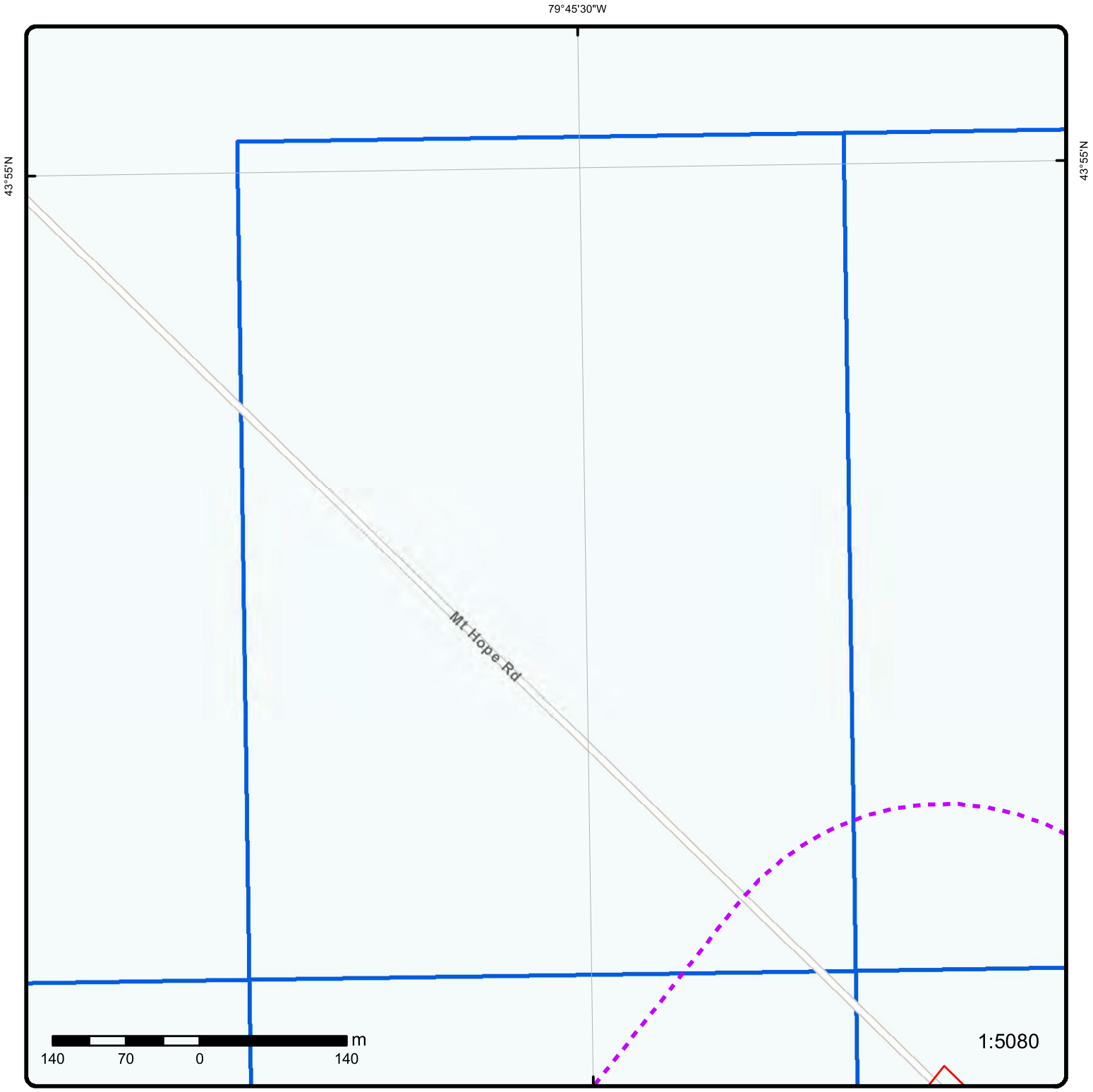
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Address: n/a, Caledon, ON

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

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Grid: 1

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
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Eris Sites with Unknown Elevation

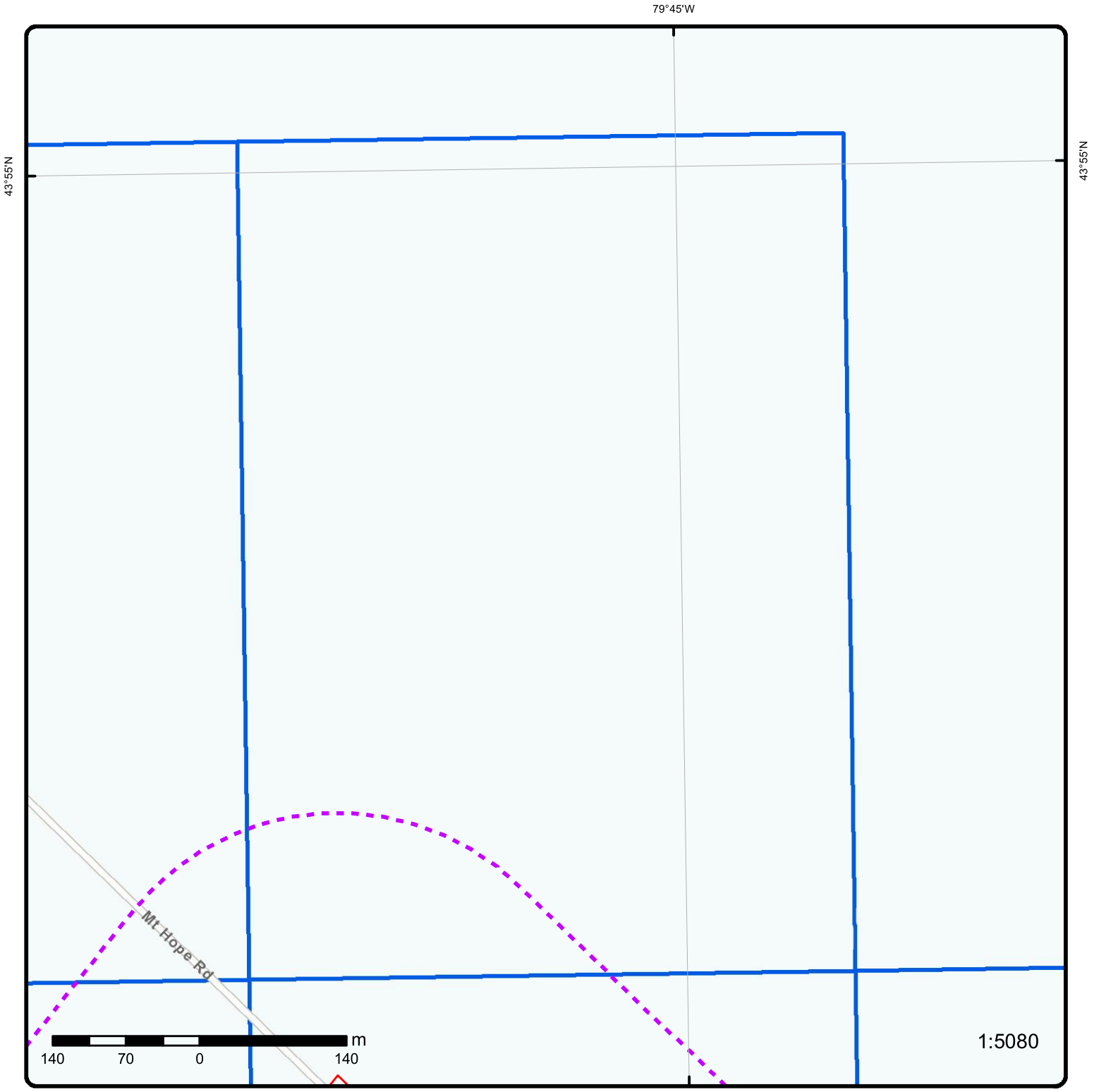
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Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

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Cemetery; Golf Course
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Park (City/County)

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Grid: 2

Order Number: 24112100344

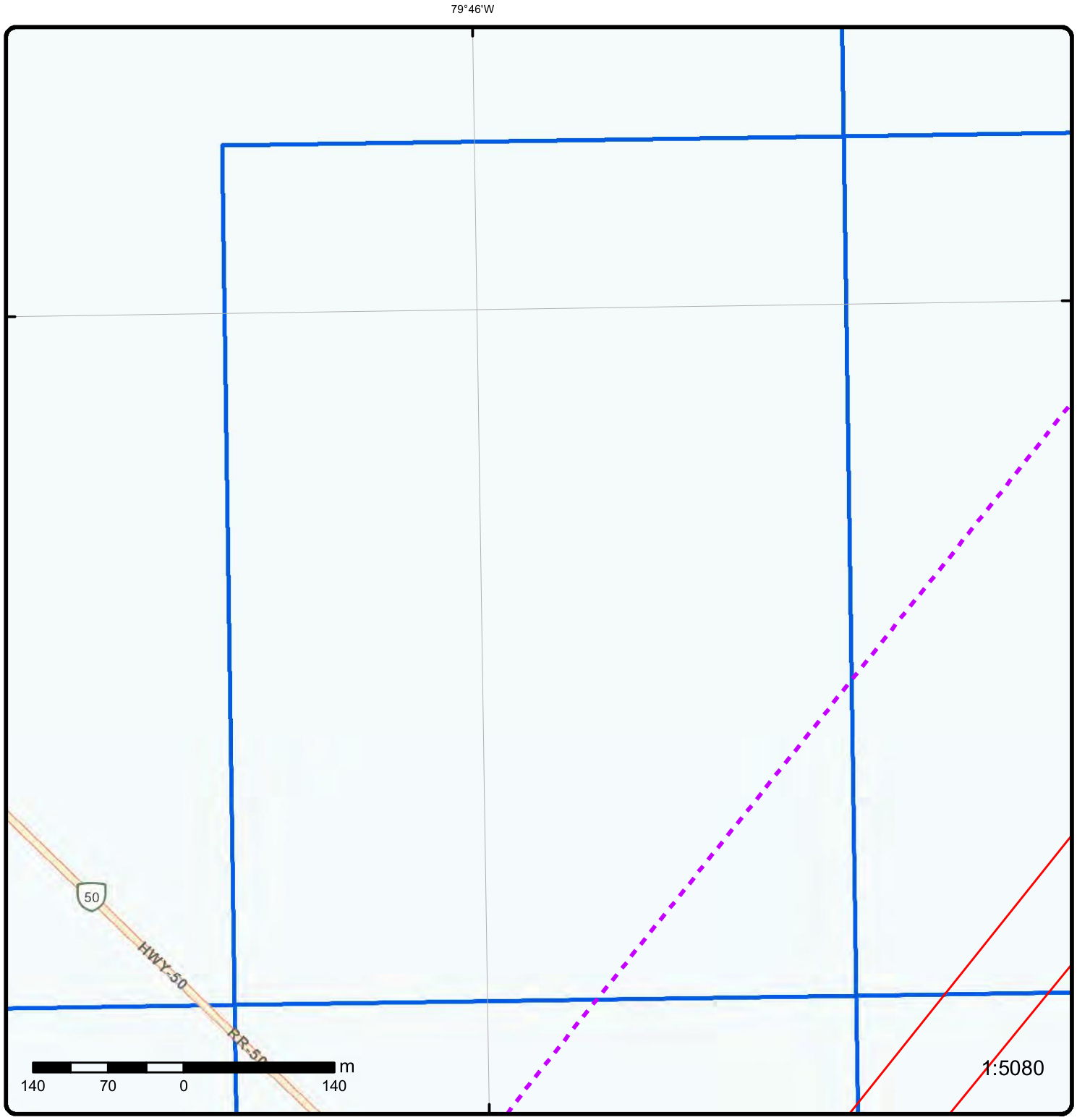
Address: n/a, Caledon, ON

ERIS

- Project Property
- Buffer Outline
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- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
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- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
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- Park (City/County)

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Grid: 3

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
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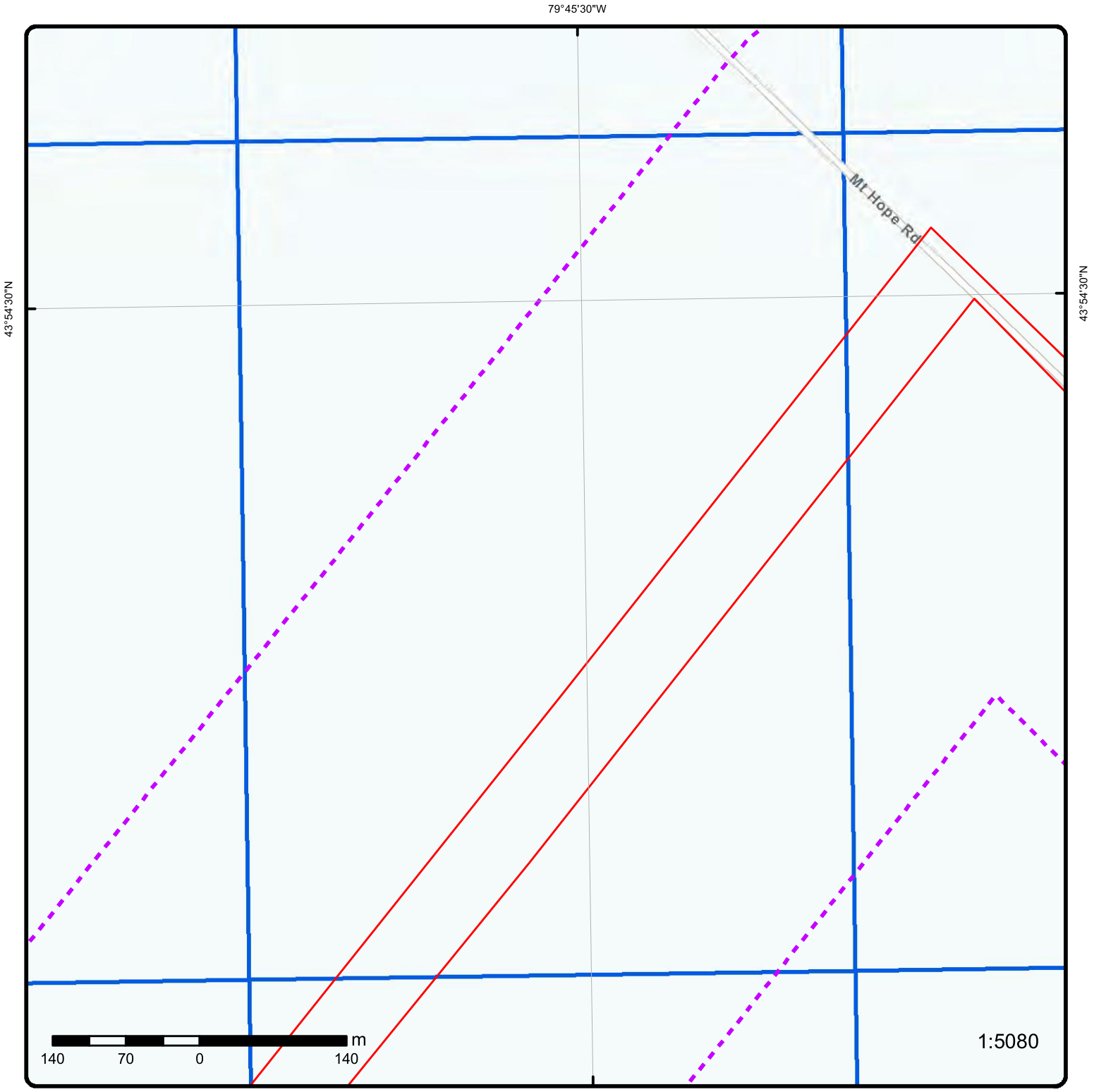
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Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
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Military Base
Aircraft Roads
Native Reservation
Hospital

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Cemetery; Golf Course
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Grid: 4

Order Number: 24112100344

Address: n/a, Caledon, ON

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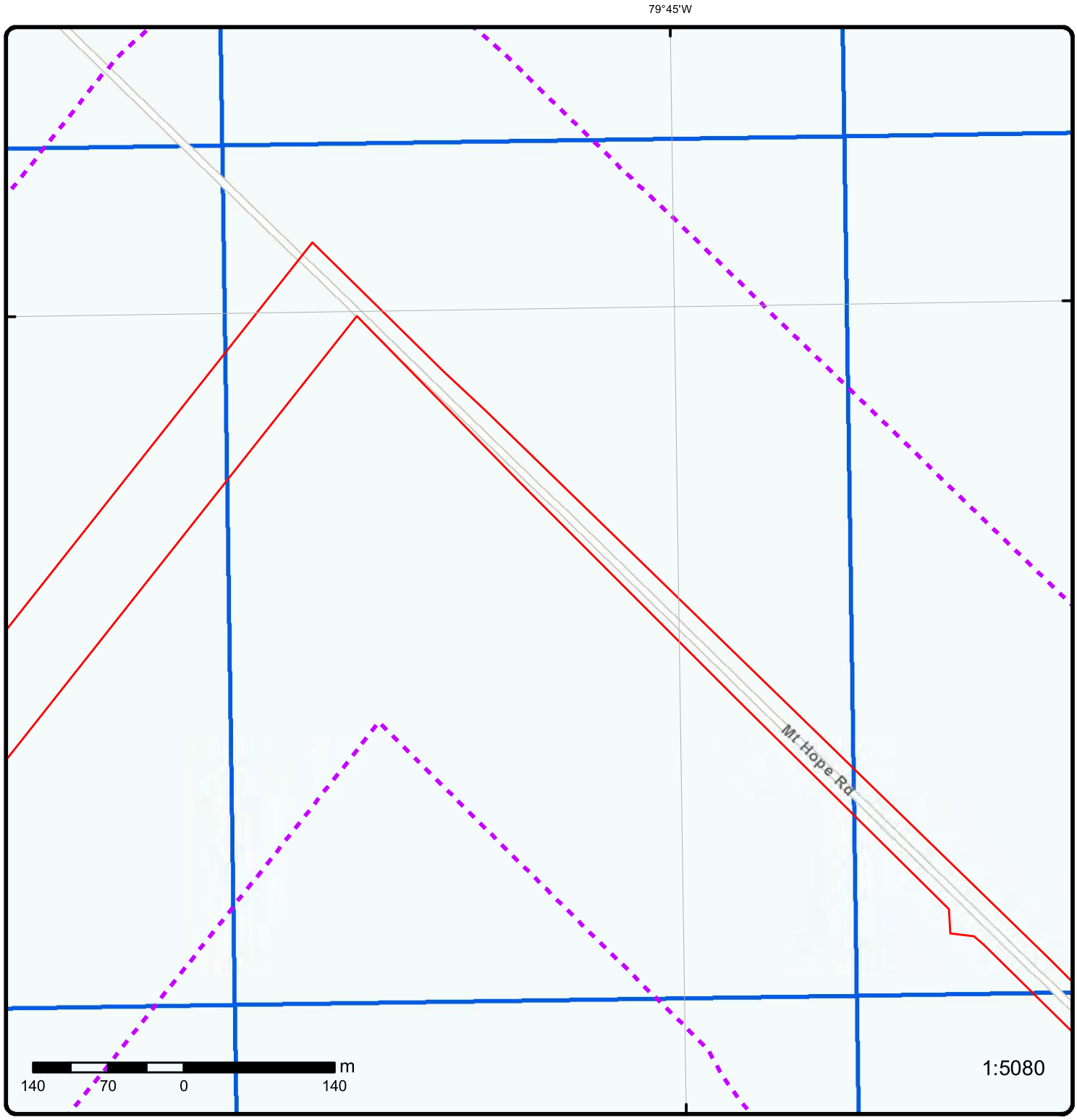
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Local Road
Service Road; Traffic Circle; Ramp
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Beach
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Military Base
Aircraft Roads
Native Reservation
Hospital

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Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 5

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
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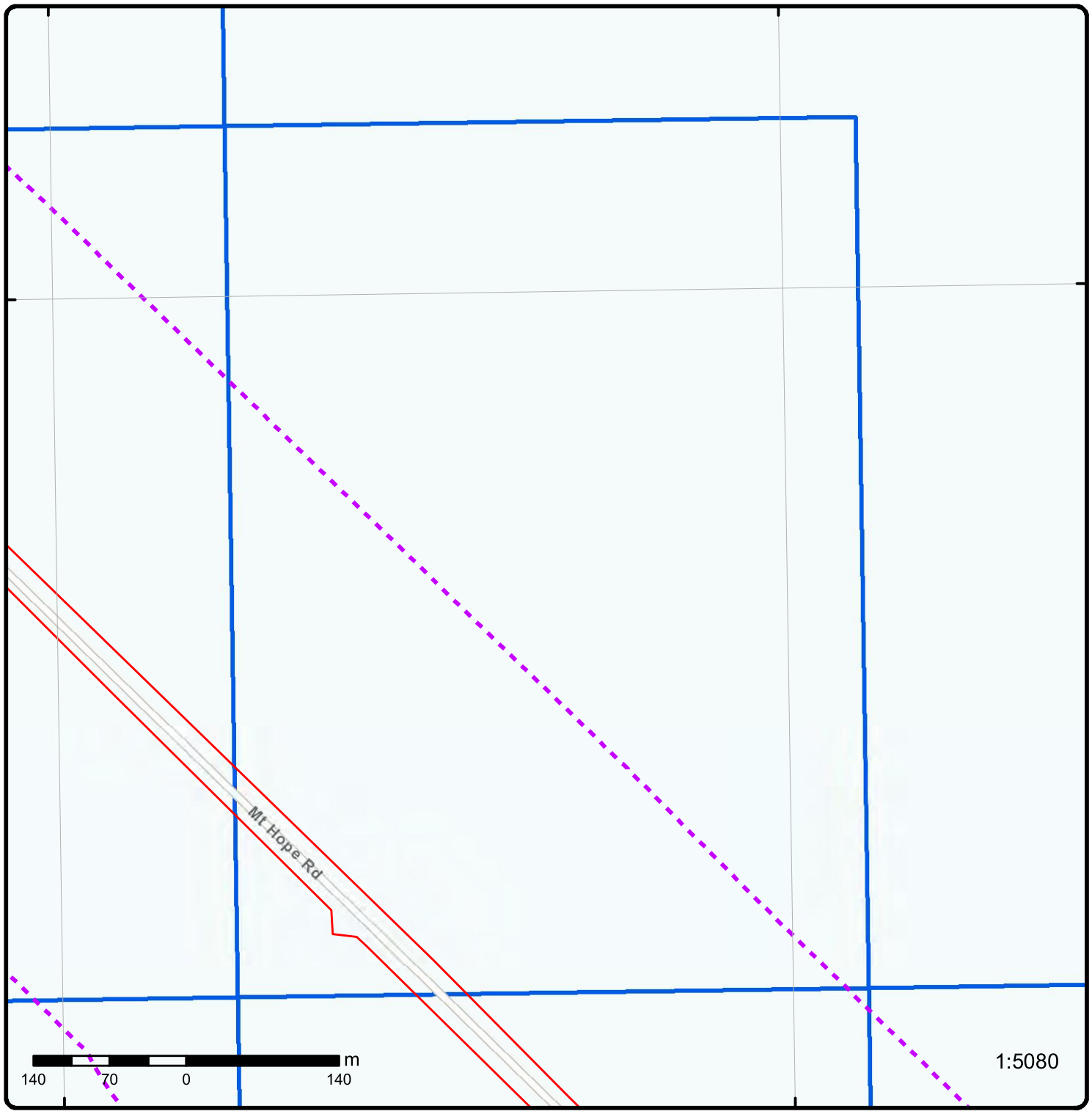
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Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
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Native Reservation
Hospital

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Cemetery; Golf Course
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Park (City/County)

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Grid: 6

Order Number: 24112100344

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Project Property
Buffer Outline
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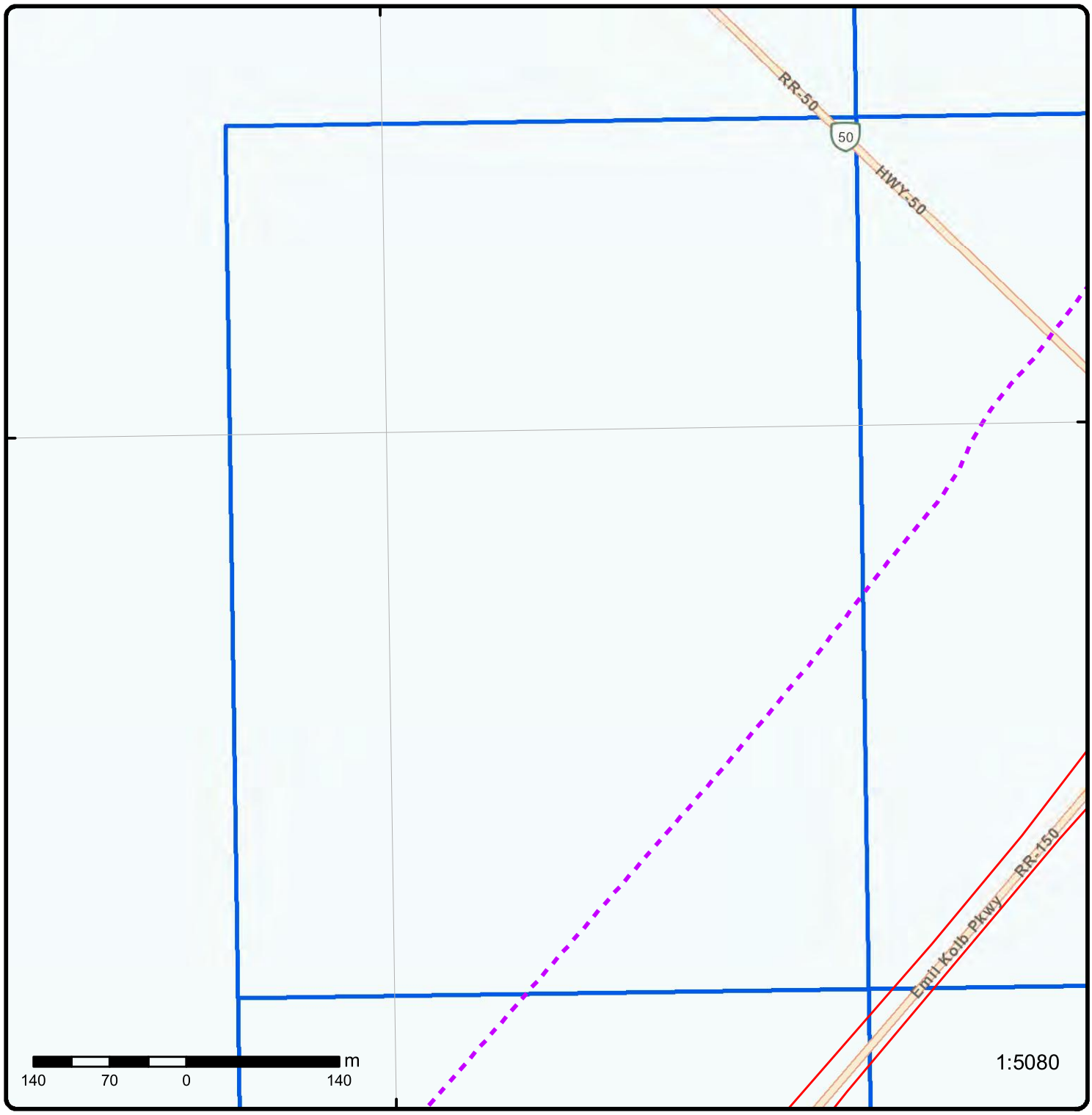
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Cemetery; Golf Course
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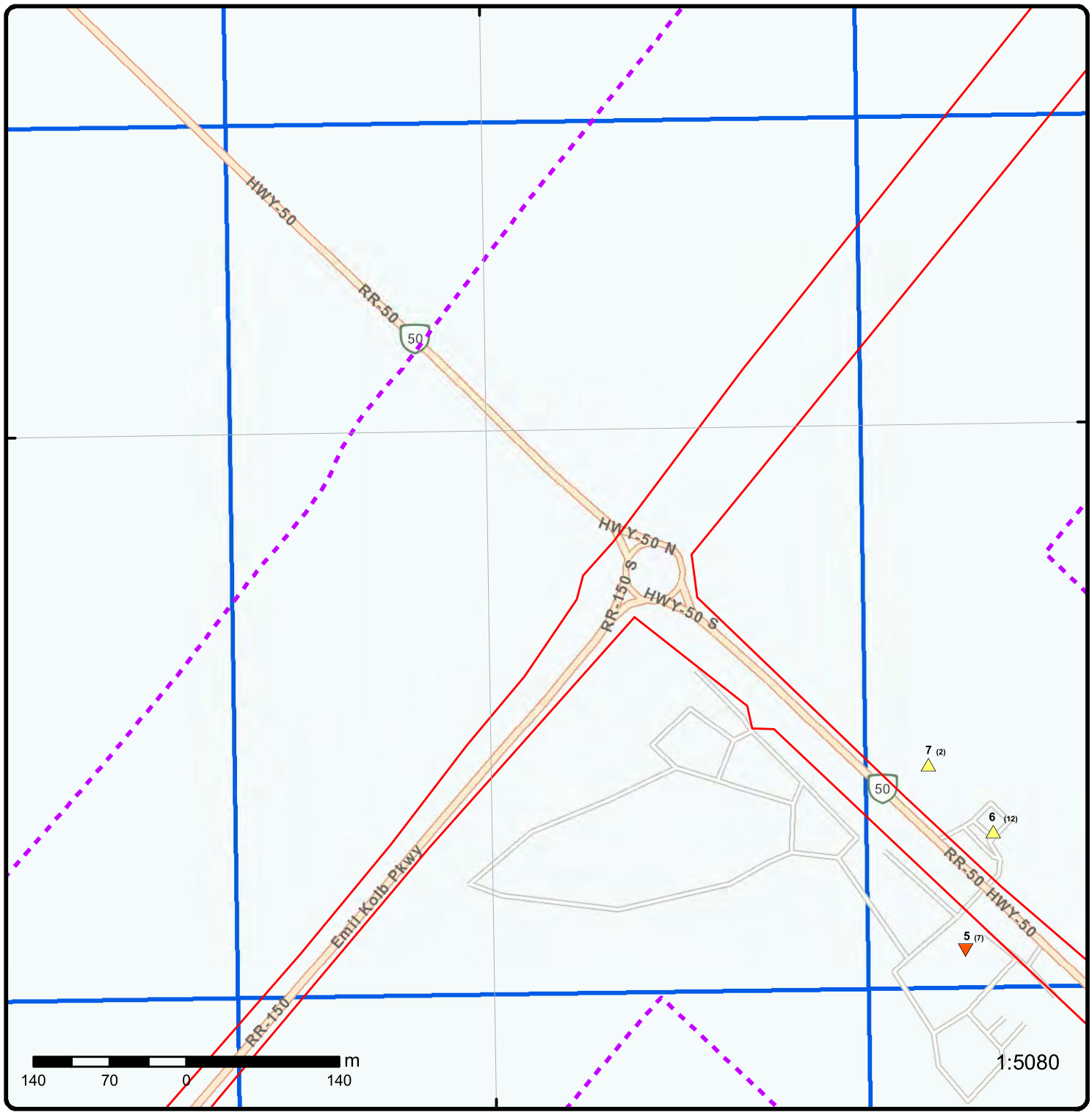
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ERIS

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Grid: 8

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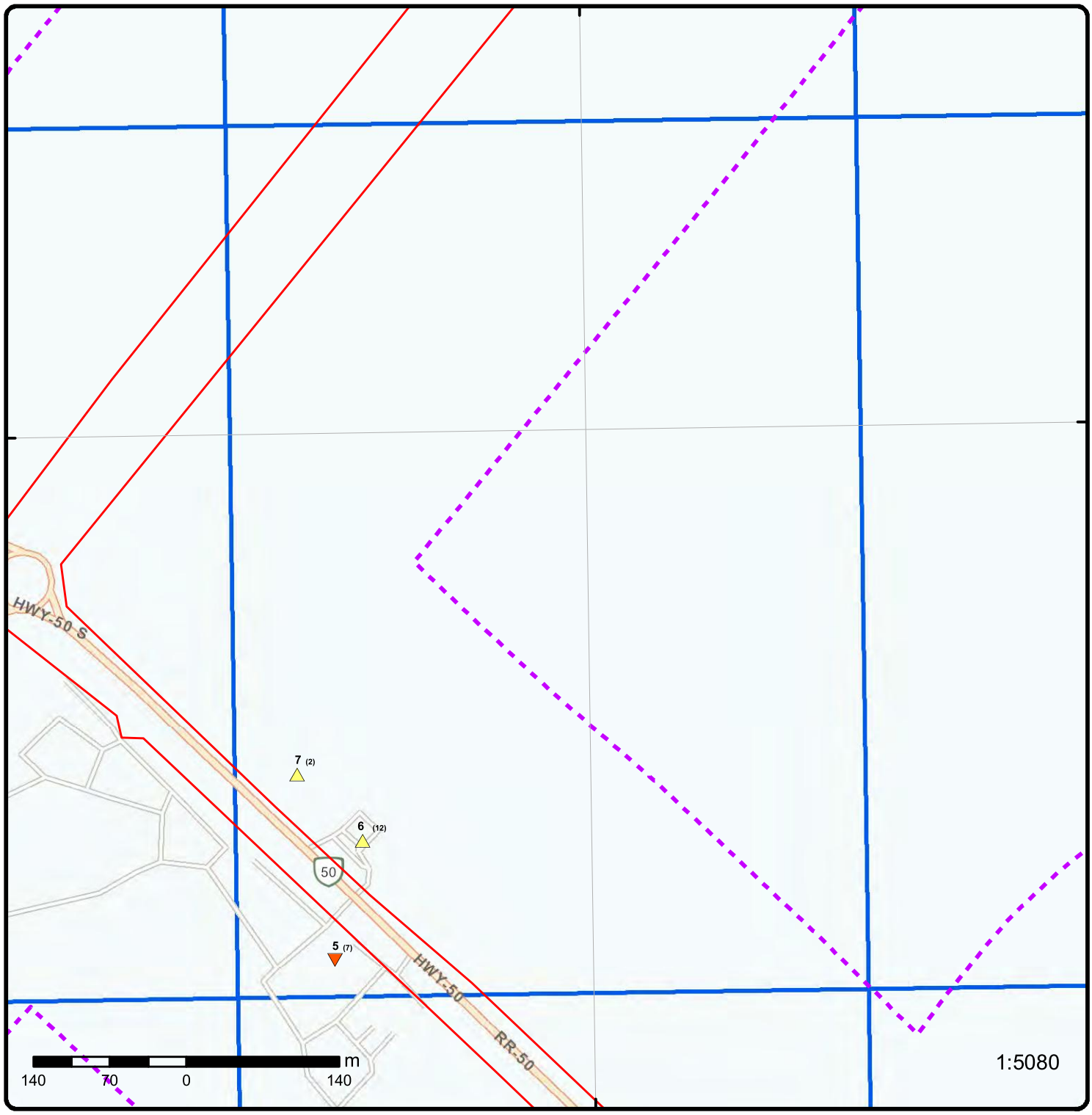
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ERIS

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Grid: 9

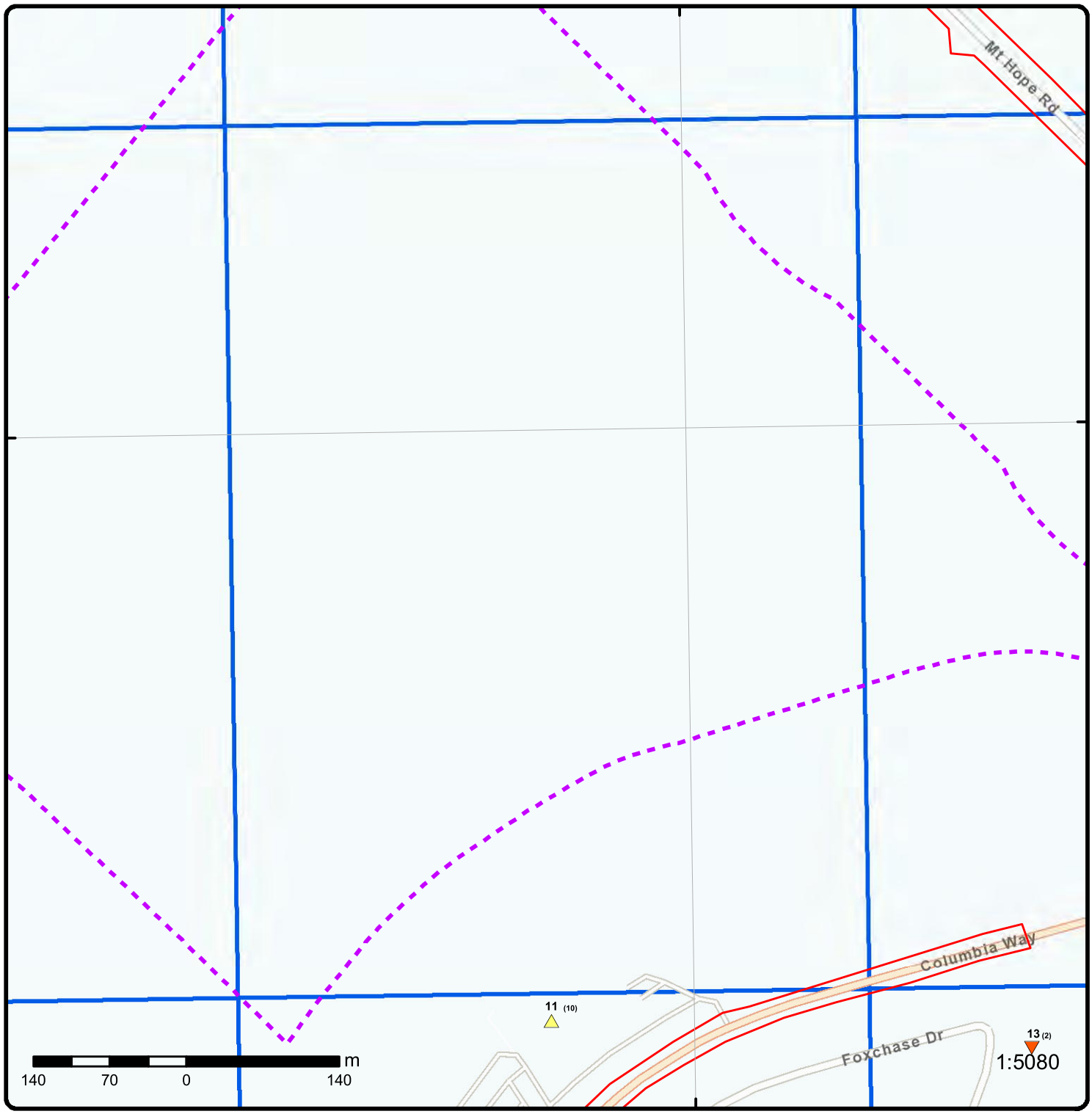
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- Project Property
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Grid: 10

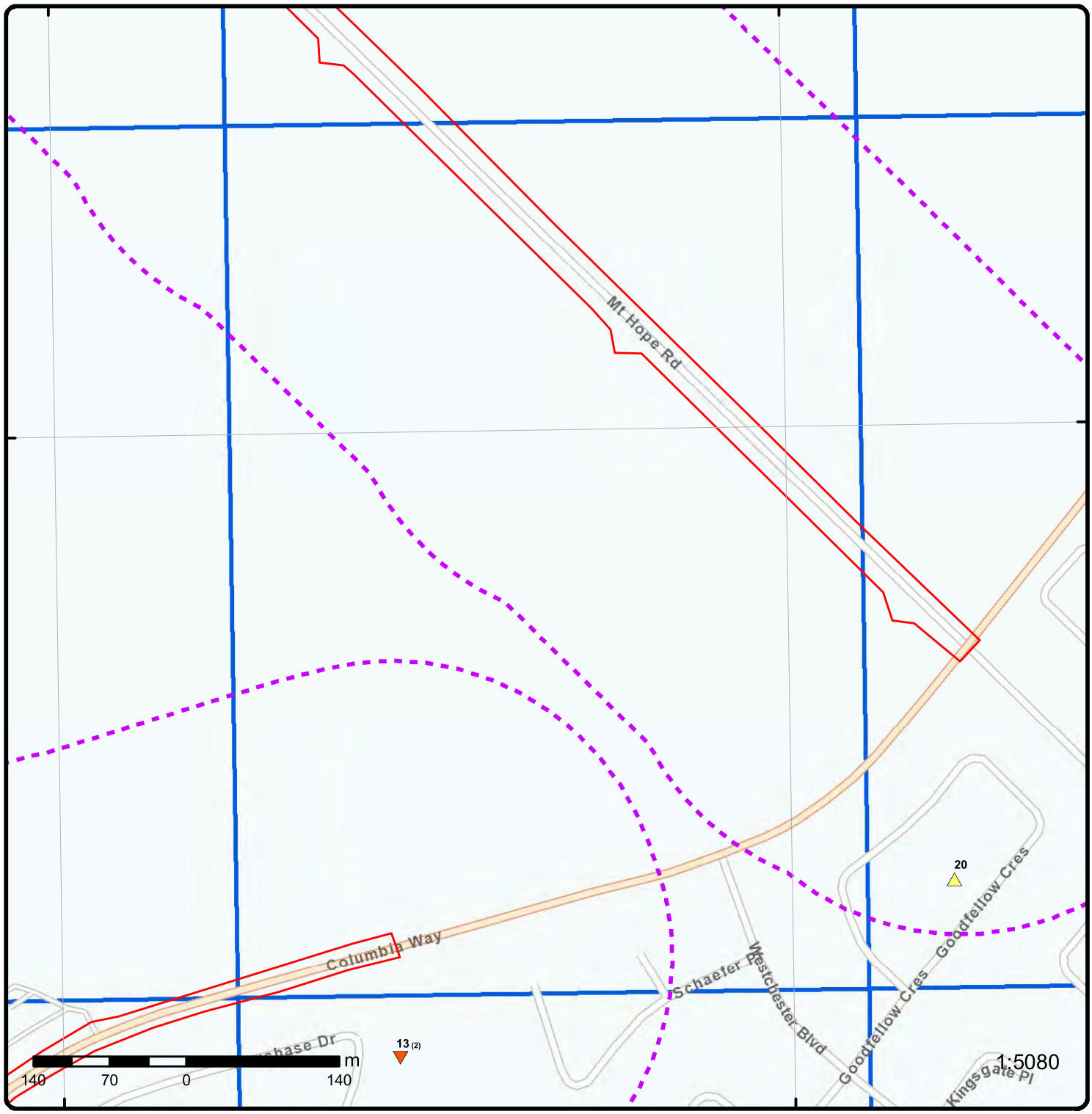
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Grid: 11

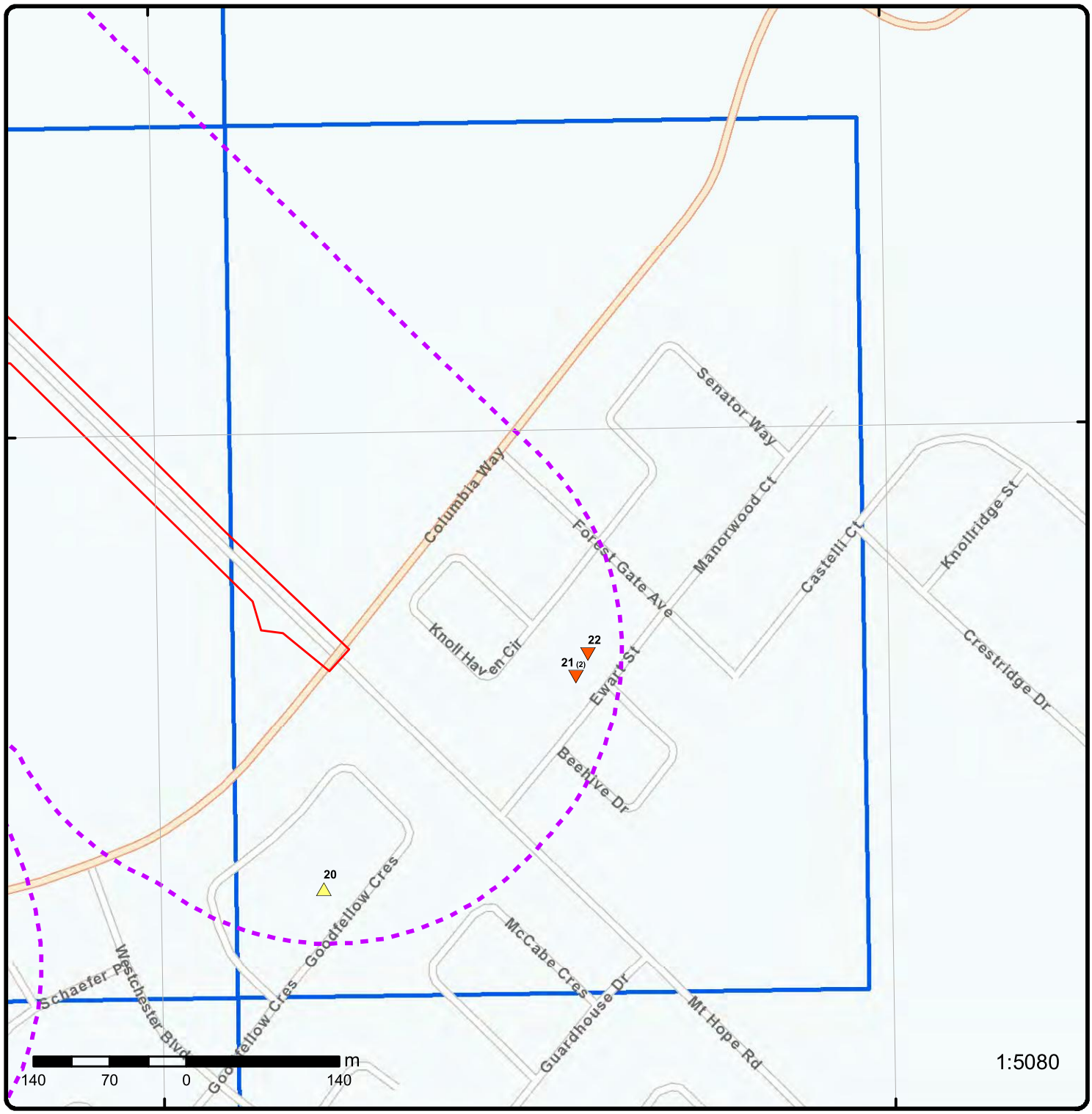
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- Project Property
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- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle;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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 12

Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership



Grid: 13

Order Number: 24112100344

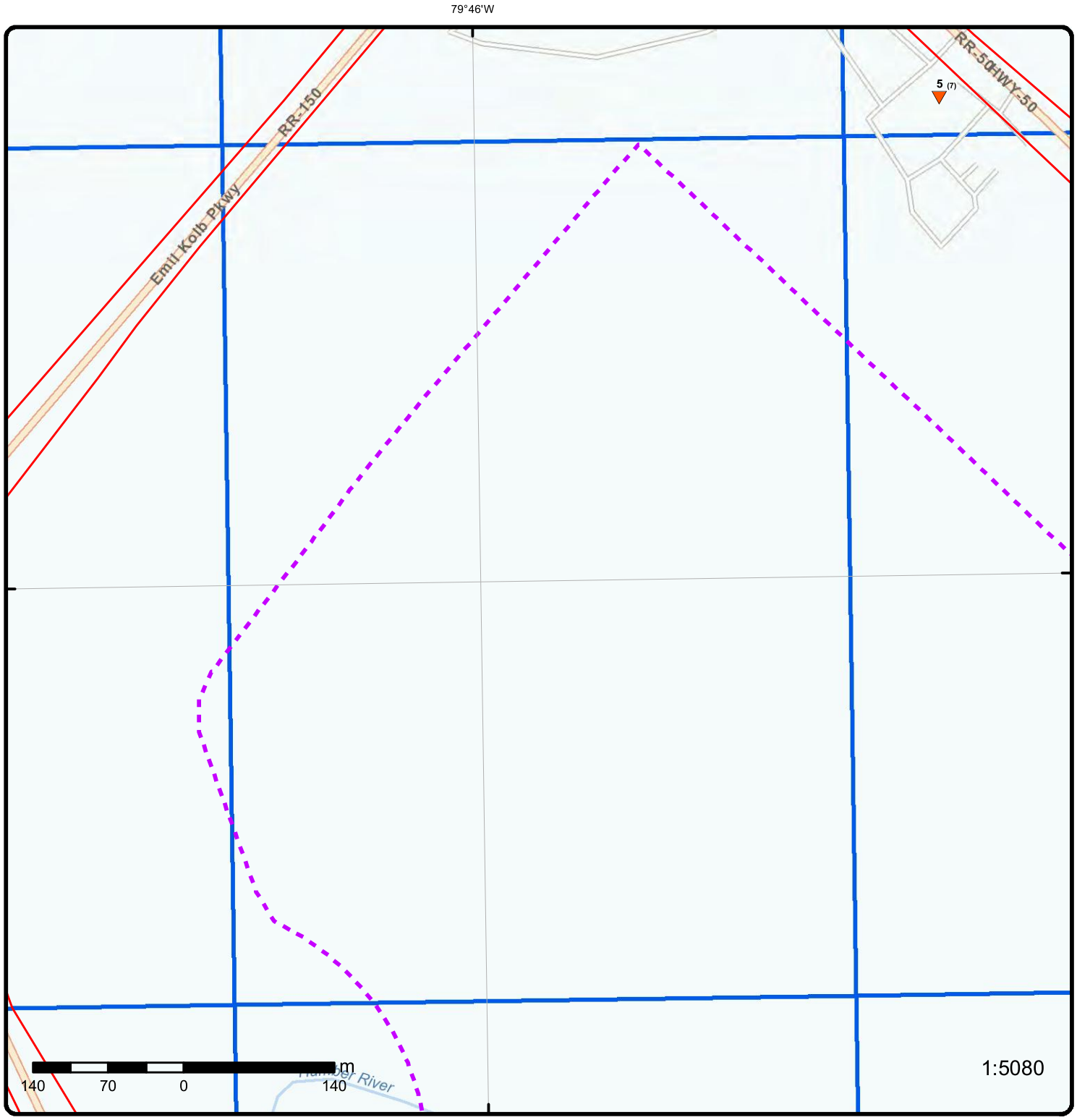
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 14

Order Number: 24112100344

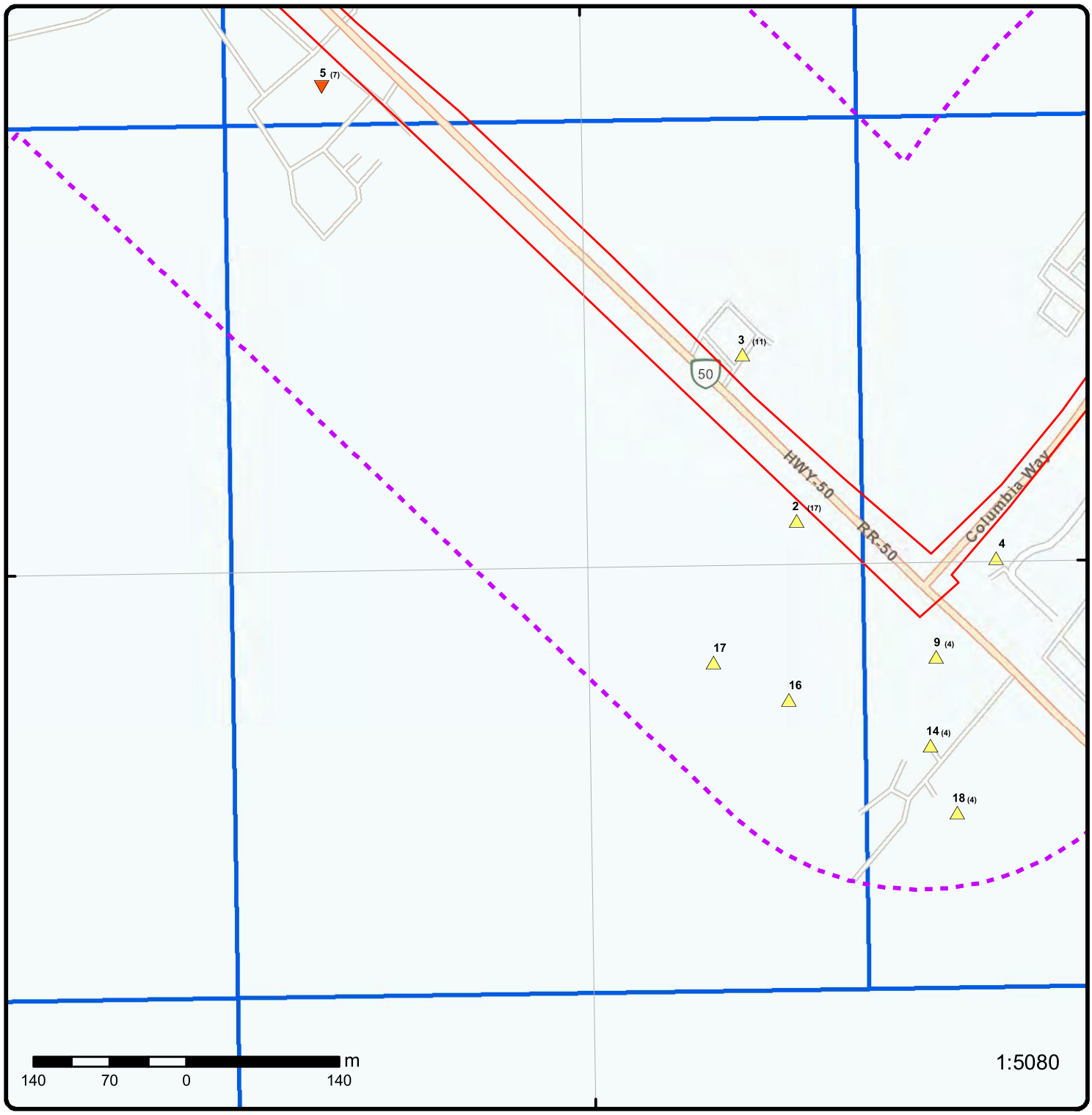
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 15

Order Number: 24112100344

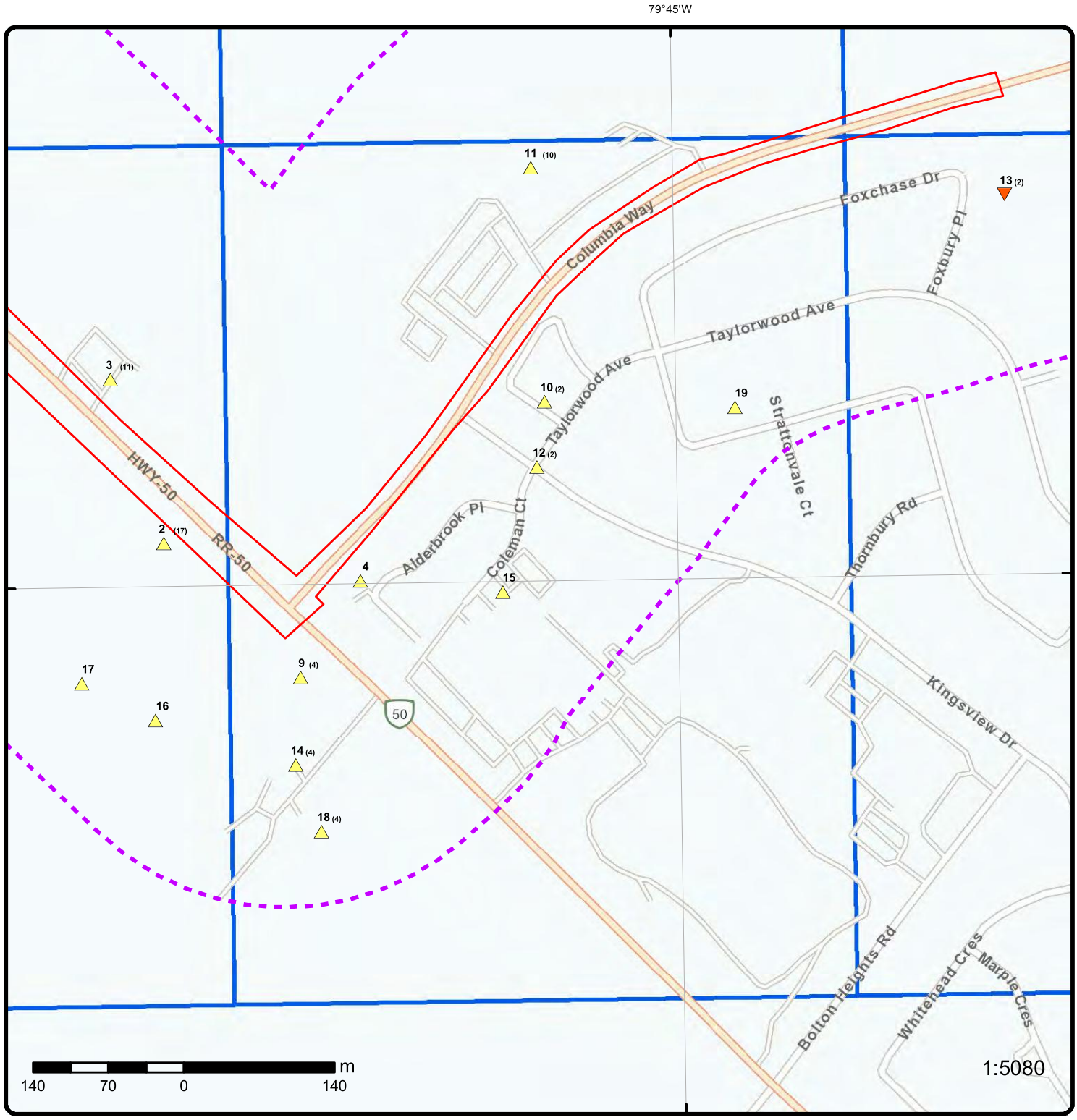
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 16

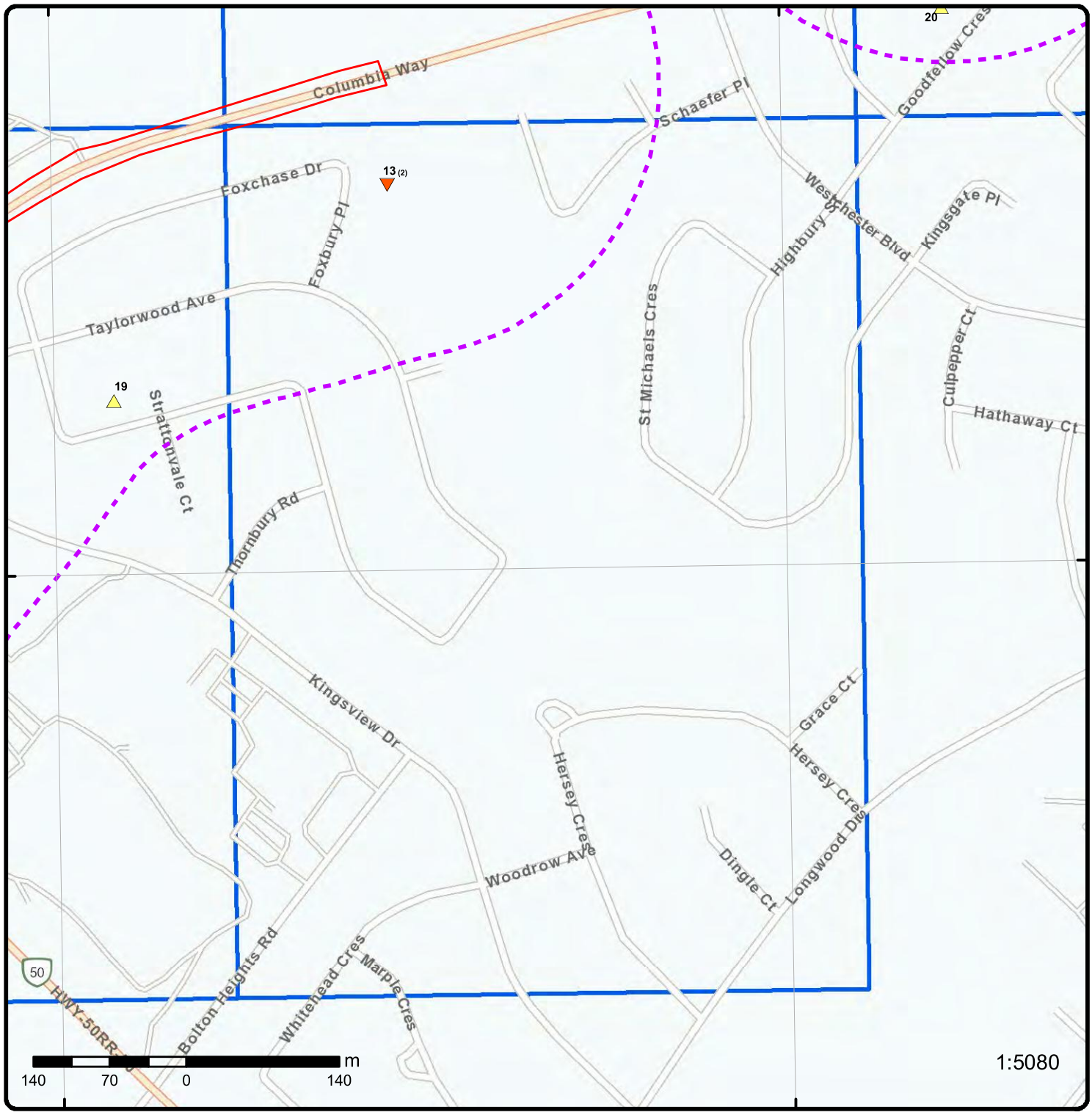
Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

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Grid: 17

Order Number: 24112100344

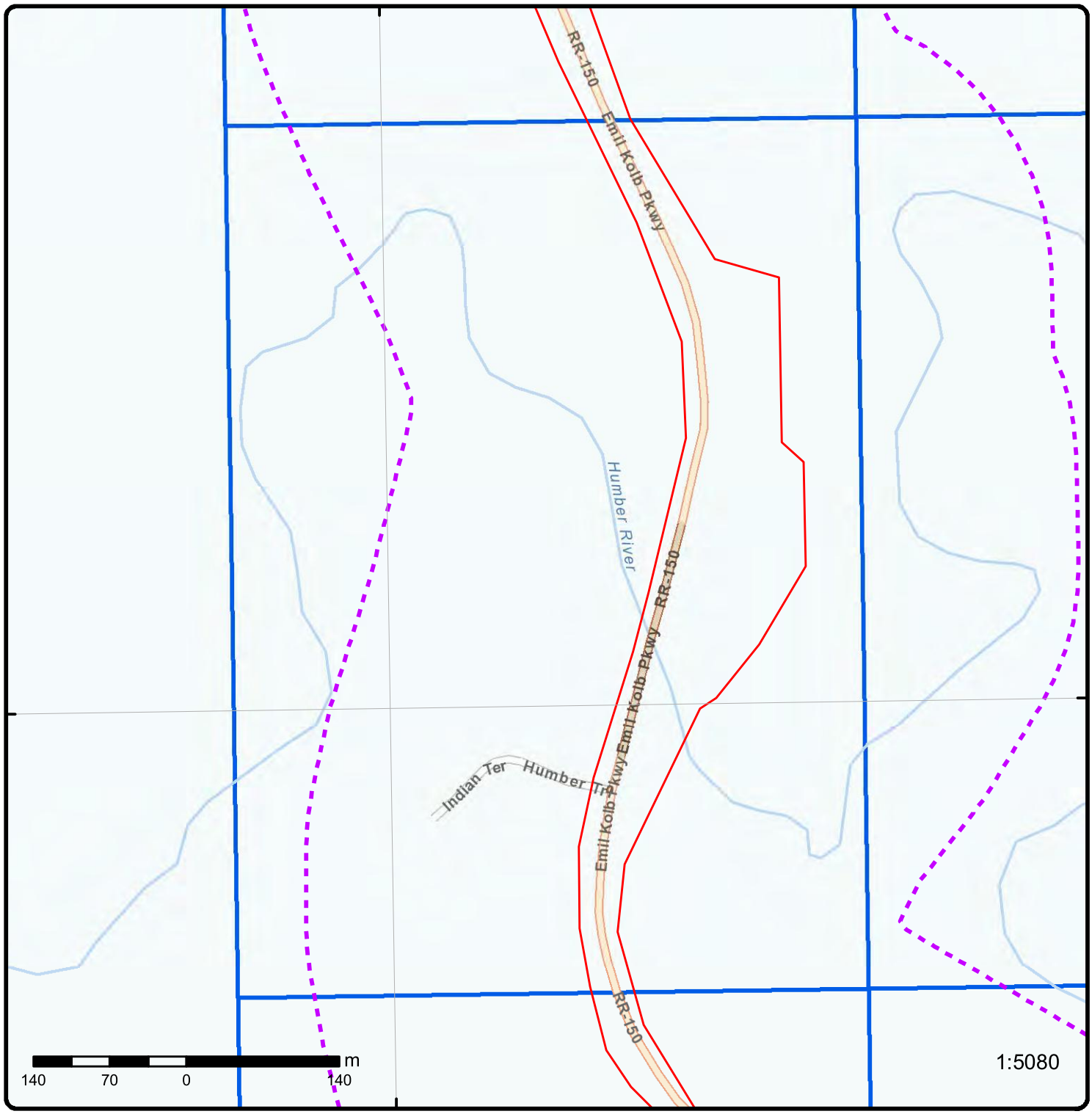
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 18

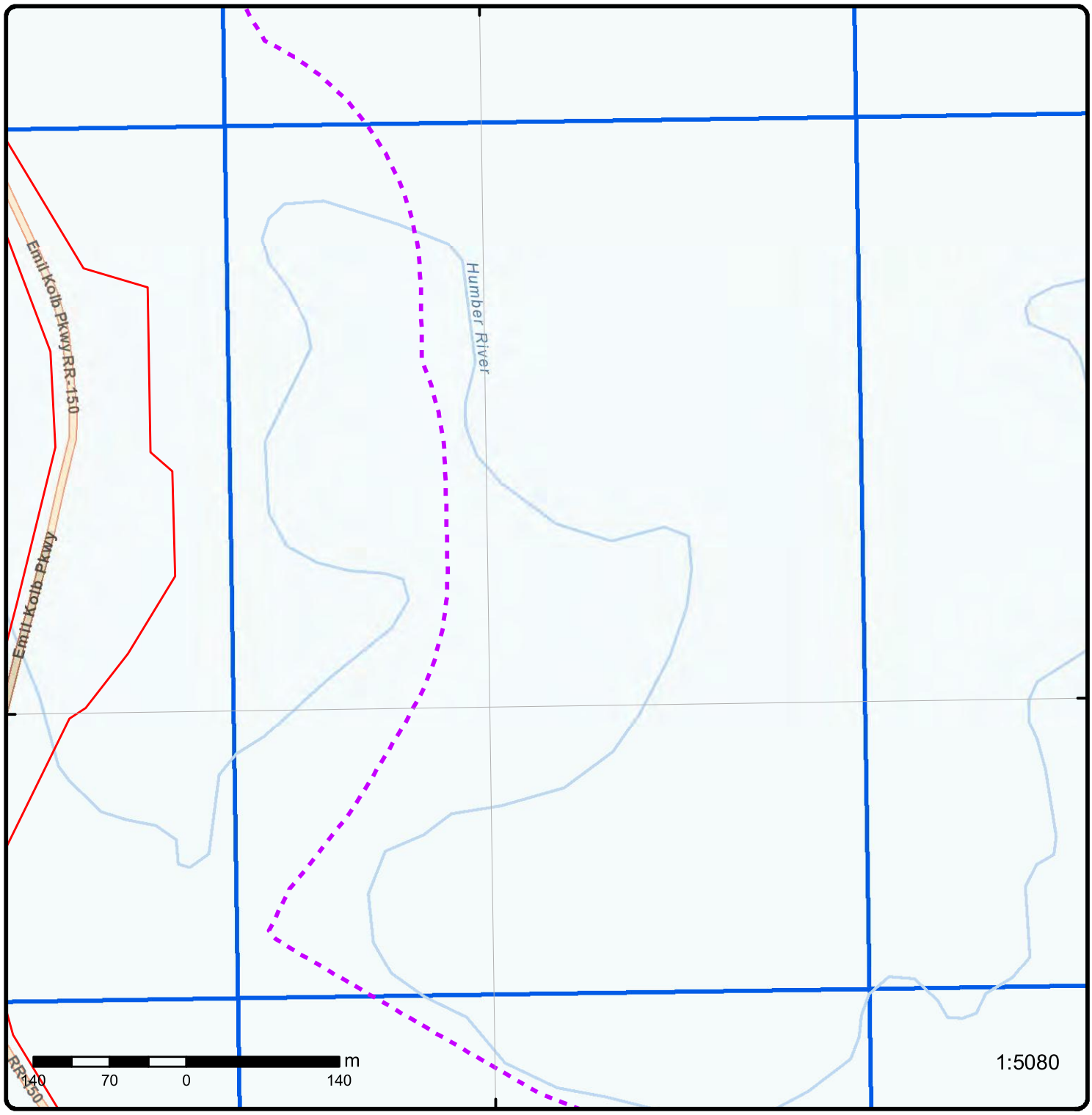
Order Number: 24112100344

Address: n/a, Caledon, ON

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 19

Order Number: 24112100344

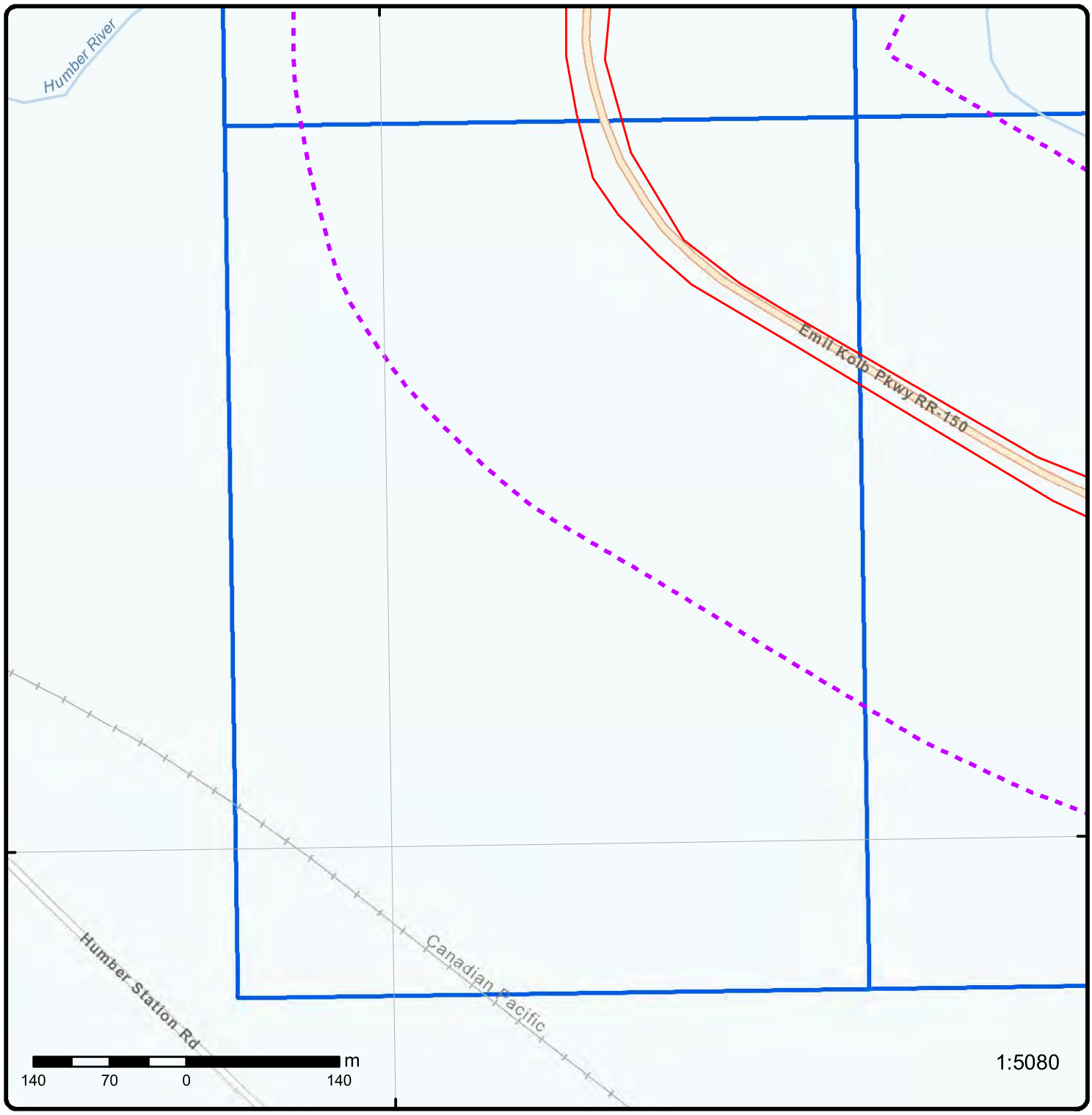
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 20

Order Number: 24112100344

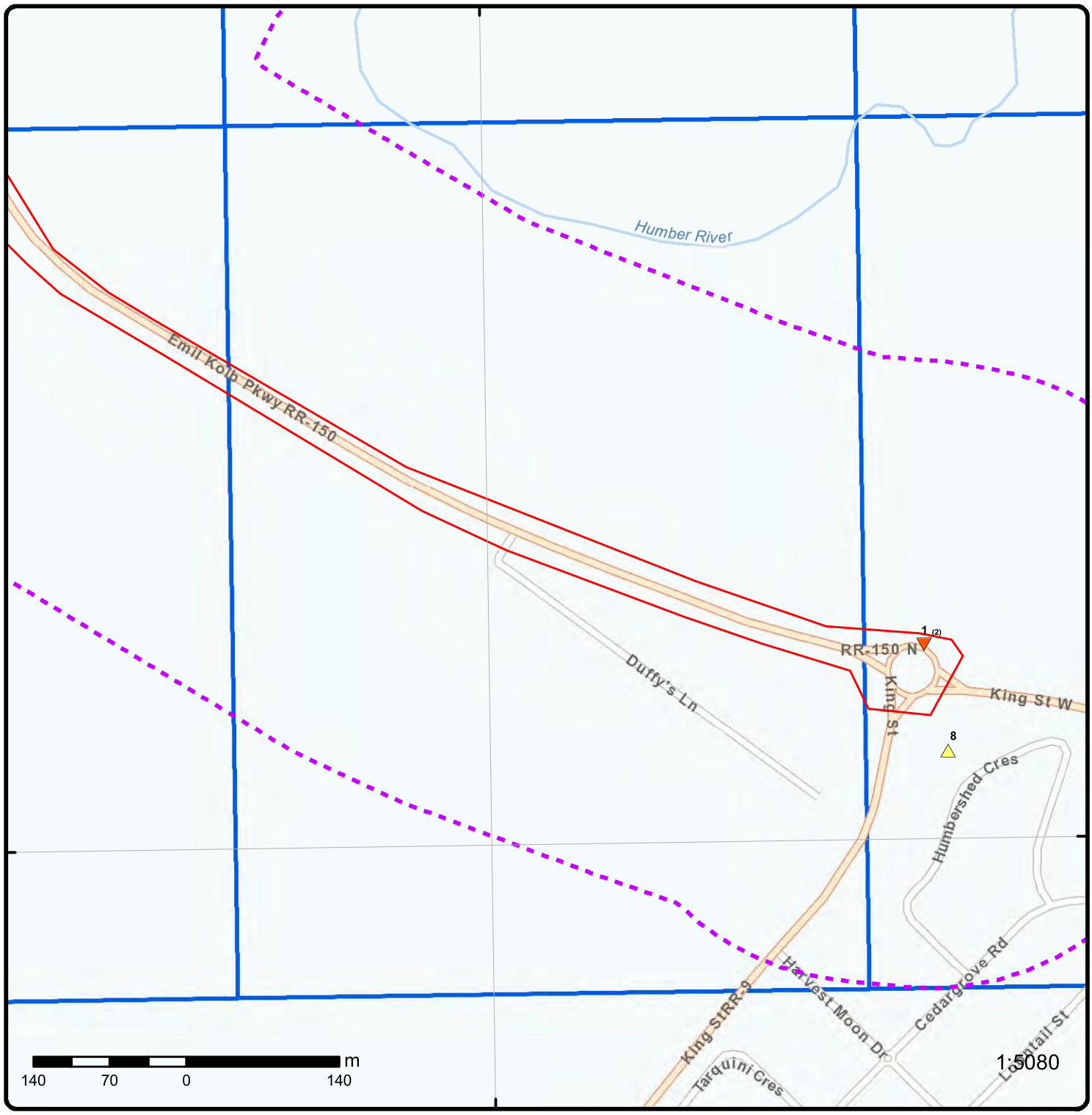
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 21

Order Number: 24112100344

Address: n/a, Caledon, ON

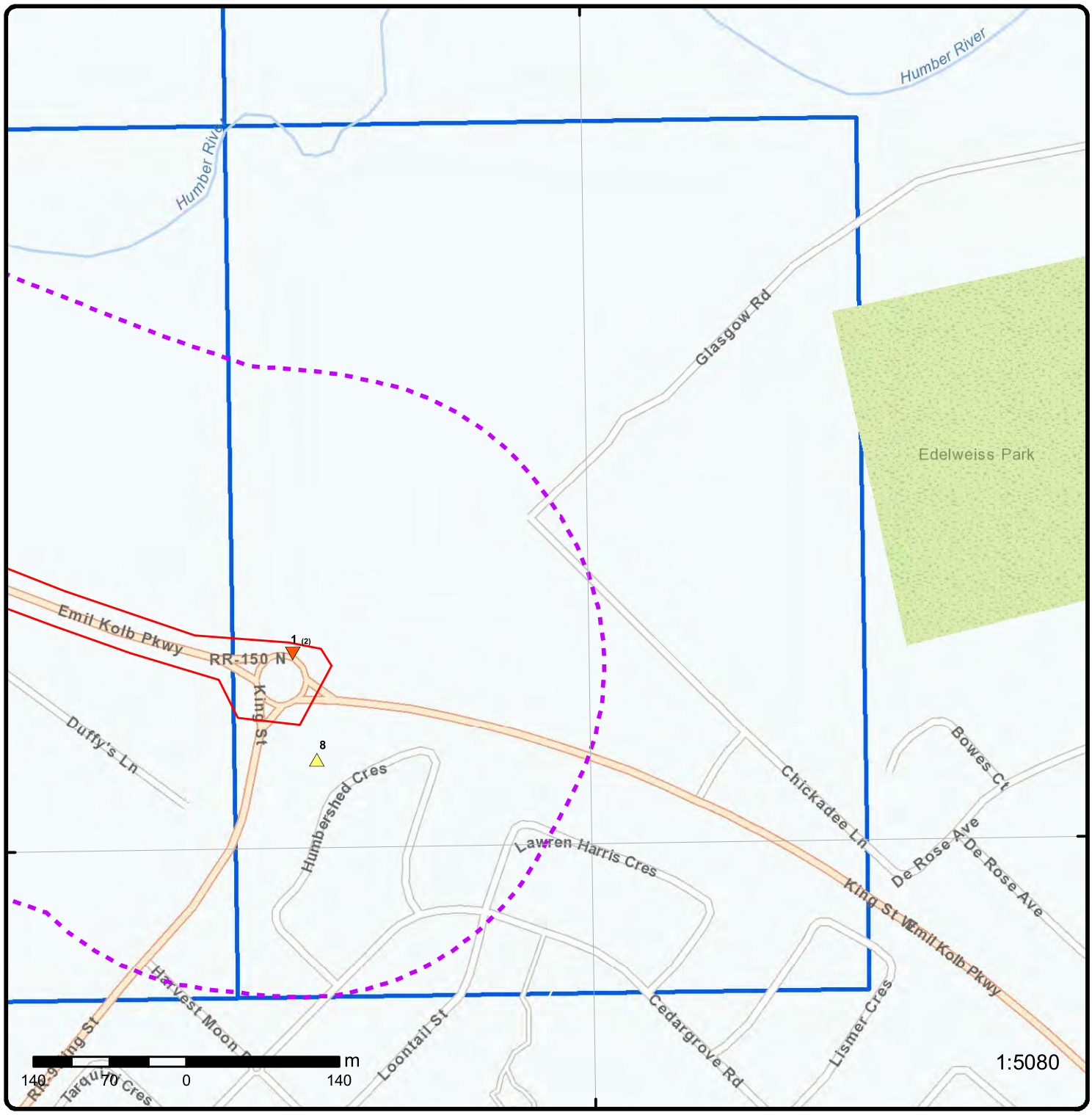
ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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79°45'30"W



43°52'30"N

43°52'30"N

Grid: 22

Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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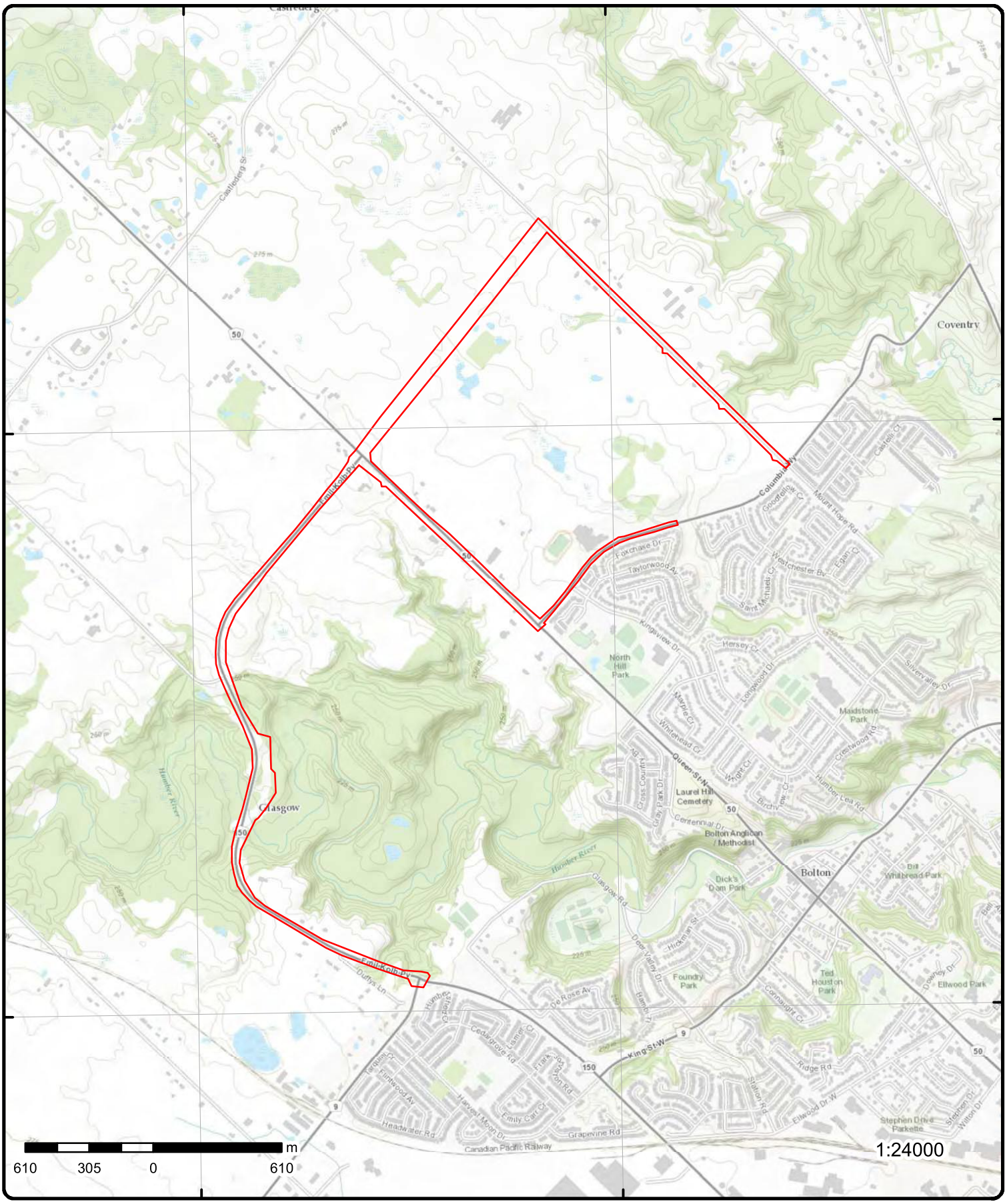
Aerial **Year: 2022**

Address: n/a, Caledon, ON

Source: ESRI World Imagery

Order Number: 24112100344

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Topographic Map

Address: n/a, ON

Source: ESRI World Topographic Map

Order Number: 24112100344

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 2	S/0.0	248.9 / -11.36	Enbridge Gas Distribution Inc. Emil Colb Parkway @ King Street Caledon ON	SPL

Ref No:	4331-AR4W27	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	9/11/2017	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	9/11/2017	**Impact to Health:**	2 - Minor Environment
Dt Document Closed:		**Agency Involved:**	

Site No:	NA
MOE Response:	No
Site County/District:	Regional Municipality of Peel
Site Geo Ref Meth:	
Site District Office:	Halton-Peel
Nearest Watercourse:	
Site Name:	New debelopment site <UNOFFICIAL>
Site Address:	Emil Colb Parkway @ King Street
Site Region:	Central
Site Municipality:	Caledon
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	1 other - see incident description
Contaminant Qty 1:	1
Contaminant Unit:	other - see incident description
Client Type:	Corporation
Source Type:	Valve/Fitting/Piping
Contaminant Code:	35
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	1075
Receiving Medium:	Air
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA FSB: 4" PL Strike, made safe
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Enbridge Gas Distribution Inc.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 2	S/0.0	248.9 / -11.36	PIPELINE HIT 4" EMIL KOLB PKWY & KING ST,,BOLTON,ON,,CA ON	PINC

Incident Id:
Incident No: 2152590
Incident Reported Dt: 9/12/2017
Type: FS-Pipeline Incident
Status Code:
Tank Status: Closed by Program
Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt:
Depth:
Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:
Attribute Category:
Regulator Location:
Method Details:
Customer Acct Name: PIPELINE HIT 4"
Incident Address: EMIL KOLB PKWY & KING ST,,BOLTON,ON,,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 17	ESE/14.1	264.8 / 4.58	PEEL, REGION OF BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	GEN

Generator No: ON0148320
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.
Approval Years: 93,94,95,96,97
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 17	ESE/14.1	264.8 / 4.58	PEEL, REGIONAL MUNICIPALITY OF BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	GEN

Generator No: ON0148320
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.
Approval Years: 98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	3 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	4 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	5 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2010
PO Box No:
Country:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	6 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	7 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	8 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

2	9 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT
Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.21
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Name: LIGHT FUELS

2	10 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT

Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.21
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

---

2 | ***11 of 17*** | ***ESE/14.1*** | ***264.8 / 4.58*** | ***TOWN OF CALEDON***
PUBLIC WORKS YARD 3 14220 HIGHWAY 50
BOLTON ON L7E 3E2 | ***GEN***

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT
Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

---

2 | ***12 of 17*** | ***ESE/14.1*** | ***264.8 / 4.58*** | ***TOWN OF CALEDON***
14220 HIGHWAY 50
Caledon ON L7E 3E2 | ***GEN***

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	13 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON 14220 HIGHWAY 50 Caledon ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	14 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON 14220 HIGHWAY 50 Caledon ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

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2 ***15 of 17*** ***ESE/14.1*** ***264.8 / 4.58*** ***TOWN OF CALEDON***
14220 HIGHWAY 50
Caledon ON L7E 3E2 ***GEN***

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221 L
Waste Class Name: LIGHT FUELS

---

2 ***16 of 17*** ***ESE/14.1*** ***264.8 / 4.58*** ***14220 Hwy 50 HWY***
CALEDON ON L7E 3E2 ***PES***

Detail Licence No:
Licence No: L-240-5174126238
Status: Active
Approval Date: April 20, 2022
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 43.89055556
Longitude: -79.75611111
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Halton-Peel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

County: **SWP Area Name:** Toronto
Trade Name:
PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2626338

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2 | 17 of 17 | ESE/14.1 | 264.8 / 4.58 | **CORPORATION OF THE TOWN OF CALEDON**
14220 Hwy 50 HWY
CALEDON ON L7E 3E2 | PES

Detail Licence No:
Licence No: L-240-8263435917
Status: Active
Approval Date: July 3, 2024
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 43.89055556
Longitude: -79.75611111
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3561182

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Halton-Peel
SWP Area Name: Toronto

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3 | 1 of 11 | ESE/20.1 | 264.9 / 4.61 | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON L7E 5R8 | DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9707693
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:

Expired Date: 4/24/1996
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Description:					
Original Source:		EXP			
Record Date:		Up to May 2013			
3	2 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10582663	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	28365	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	3 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10582713	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	28614	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012
Piping Underground:
Tank Underground:
Source:

3	*4 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10582634
Status: EXPIRED
Instance ID: 29342
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012
Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

3	*5 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance No:	10582582	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	29680	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

3	*6 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10582760	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	29980	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

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3 | 7 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582610
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 27200
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Diesel
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | 8 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582690
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | 9 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582555
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Steel
Corrosion Protect: Sacrificial anode
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | 10 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582650
Inventory Status: EXPIRED
Installation Year: 1988
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline

---

3 | **11 of 11** | **ESE/20.1** | **264.9 / 4.61** | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON | **EXP**

Inventory No: 10582737
Inventory Status: EXPIRED
Installation Year: 1988
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Steel
Corrosion Protect: Sacrificial anode
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

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4 | **1 of 1** | **ESE/21.3** | **261.8 / 1.52** | **60 Alderbrook Place, Bolton**
Caledon ON | **SPL**

Ref No: 8371-8U5PPY
Year:
Incident Dt: 09-MAY-12
Dt MOE Arvl on Scn:
MOE Reported Dt: 09-MAY-12
Dt Document Closed: 25-JUL-12
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Enbridge Gasline - 1/2 " plastic <UNOFFICIAL>
Site Address: 60 Alderbrook Place, Bolton
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Air Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: TSSA: 1/2 " gasline damage. made safe.
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Other
SAC Action Class: TSSA - Fuel Safety Branch
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

---

5 | ***1 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***CALEDON HYDRO***
14442 HWY 50 (JAMES DICK CONSTRUCTION)
TRANSFORMER/CAPACITOR
CALEDON TOWN ON | ***SPL***

Ref No: 168745 ***Municipality No:*** 21401
Year: ***Nature of Damage:***
Incident Dt: 6/10/1999 ***Discharger Report:***
Dt MOE Arvl on Scn: ***Material Group:***
MOE Reported Dt: 6/10/1999 ***Impact to Health:***
Dt Document Closed: ***Agency Involved:***
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: CALEDON TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: COOLING SYSTEM LEAK
Incident Preceding Spill:
Environment Impact: CONFIRMED
Health Env Consequence:
Nature of Impact: Multi Media Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: EQUIPMENT FAILURE
Incident Summary: CALEDON HYDRO-20 L NON- PCB X-FORMER OIL TO GND, OLD CAR. CLEANED.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	2 of 7	NNE/26.9	259.6 / -0.64	Caledon Sand & Gravel Inc. 14442 Regional Road 50 Bolton ON L7E 3E2	SCT

Established: 01-JUL-66
Plant Size (ft²):
Employment:

--Details--
Description: Sand and Gravel Mining and Quarrying
SIC/NAICS Code: 212323

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	3 of 7	NNE/26.9	259.6 / -0.64	James Dick Construction Ltd. 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	4 of 7	NNE/26.9	259.6 / -0.64	James Dick Concrete Aggregates 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	5 of 7	NNE/26.9	259.6 / -0.64	Hamilton Ready Mix Ltd. 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1967
Plant Size (ft²):
Employment: 15

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

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5 | ***6 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***James Dick Construction Ltd.***
14442 Regional Road 50
Bolton ON L7E 3E2 | ***SCT***

Established: 01-JUL-64
Plant Size (ft²): 10000
Employment:

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

---

5 | ***7 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***James Dick Construction Limited***
14442 Hwy 50
Caledon ON | ***SPL***

Ref No: 2568-8P4D39
Year:
Incident Dt: 11/30/2011
Dt MOE Arvl on Scn: 11/30/2011
MOE Reported Dt: 11/30/2011
Dt Document Closed:
Site No:
MOE Response: Planned Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: James Dick Truck Storage Yard
Site Address: 14442 Hwy 50
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: NA
Easting: NA
Incident Cause:
Incident Preceding Spill:
Environment Impact: Possible
Health Env Consequence:
Nature of Impact: Soil Contamination; Surface Water Pollution
Contaminant Qty: 500 L
Contaminant Qty 1: 500
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: MVA: truck fire causing diesel and hyd.oil spill to road.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: James Dick Construction Limited

6	1 of 12	NNE/32.0	264.1 / 3.89	S & F SERVICE 14445 HWY 50 BOLTON ON L7E3H6	RST

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

6	2 of 12	NNE/32.0	264.1 / 3.89	YASHRAJ INC 14445 HWY 50 BOLTON ON L7E 3H6	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9771810
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description:

Expired Date: 12/7/2009 10:39
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Original Source:		EXP			
Record Date:		Up to May 2013			

6 **3 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64470999	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **4 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64471000	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **5 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64471001	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **6 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64470998	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	50000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	7 of 12	NNE/32.0	264.1 / 3.89	by 14445 Regional Rd 50, Bolton Caledon ON	SPL

Ref No:	0241-9HTLC9	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	2014/03/20	**Discharger Report:**	
Dt MOE Arvl on Scn:	2014/04/28	**Material Group:**	
MOE Reported Dt:	2014/04/03	**Impact to Health:**	
Dt Document Closed:	2014/07/03	**Agency Involved:**	
Site No:	NA		
MOE Response:	Deferred Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	Bell manhole<UNOFFICIAL>		
Site Address:	by 14445 Regional Rd 50, Bolton		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Unknown / N/A		
Incident Preceding Spill:			
Environment Impact:	Confirmed		
Health Env Consequence:			
Nature of Impact:	Soil Contamination		
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:			
Source Type:			
Contaminant Code:	15		
Contaminant Name:	PETROLEUM OIL (N.O.S.)		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Oily black water in Bell manhole		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Unknown / N/A		
SAC Action Class:	Land Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	8 of 12	NNE/32.0	264.1 / 3.89	PETRO V PLUS LTD O/A ESSO 14445 HWY 50 BOLTON ON	INC

Incident No:	1776110	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:	49134275	**Service Intrp:**	
Status Code:		**Was Prop Damaged:**	
Incident Status:	Causal Analysis Complete	**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Task No:		**Indus App. Type:**	
Attribute Category:	FS-Incident	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	12/22/2015	**Operation Pressure:**	
Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:	12/22/2015	**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Leak	**Contam. Migrated:**	
Occur Type Rpt:	Leak	**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Gasoline	**Sub Surface Contam:**	
Fuel Type Reported:	Transportation Fuel	**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14445 HWY 50		
Invent Postal Code:	L7E 3H6		
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	Underground piping damaged while ashphalt being cut		
Operation Type Involved:	Retail Fuel Station (FS, SS, Multifunctional)		

6	9 of 12	NNE/32.0	264.1 / 3.89	**Facility Maintenance & Construction Inc.** **14445 Regional Rd. 50** **Caledon ON NA**	SPL

Ref No:	7830-A5FS4W	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	12/22/2015	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	12/22/2015	**Impact to Health:**	
Dt Document Closed:		**Agency Involved:**	
Site No:	5614-A5GNC8		
MOE Response:	No		
Site County/District:			
Site Geo Ref Meth:	NA		
Site District Office:			
Nearest Watercourse:			
Site Name:	Esso Gas Station		
Site Address:	14445 Regional Rd. 50		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:	NA		

Site Map Datum:	NA
Northing:	NA
Easting:	NA
Incident Cause:	
Incident Preceding Spill:	
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 L
Contaminant Qty 1:	0
Contaminant Unit:	L
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA FSB Esso: Product line cut by contractor
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Other
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Facility Maintenance & Construction Inc.

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6 | **10 of 12** | **NNE/32.0** | **264.1 / 3.89** | **Petro V Plus**
14445 Regional Rd 50
Bolton ON L7E3H6 | **GEN**

Generator No:	ON5794264
SIC Code:	447110
SIC Description:	447110
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Giulio Dinuzzo
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	416-2006268 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

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6 | **11 of 12** | **NNE/32.0** | **264.1 / 3.89** | **PETRO V PLUS LTD O/A ESSO**
14445 HWY 50,,BOLTON,ON,L7E 3H6,CA
ON | **INC**

Incident No:	1776104	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:		**Service Intrp:**	
Status Code:		**Was Prop Damaged:**	
Incident Status:		**Reside App. Type:**	

Incident Severity:		***Commer App. Type:***	
Task No:		***Indus App. Type:***	
Attribute Category:	FS-Incident	***Institut App. Type:***	
Context:		***Depth Ground Cover:***	
Date of Occurrence:	12/22/2015	***Operation Pressure:***	
Time of Occurrence:		***Equipment Type:***	
Occr Insp Start Dt:		***Equipment Model:***	
Incident Creat On:		***Serial No:***	
Instance Creat Dt:		***Cylinder Capacity:***	
Instance Install Dt:		***Cylinder Cap Units:***	
Approx Quant Rel:		***Cylinder Mat Type:***	
Tank Capacity:		***Pump Flow Rate Cap:***	
Fuels Occur Type:		***Contam. Migrated:***	
Occur Type Rpt:		***Near Body of Water:***	
Occur Category:		***Drainage System:***	
Fuel Type Involved:		***Sub Surface Contam:***	
Fuel Type Reported:		***Tank Material Type:***	
Enforcement Policy:		***Tank Storage Type:***	
Prc Escalation Req:		***Tank Location Type:***	
Item:	FS GASOLINE STATION - SELF SERVE		
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:			
Operation Type Involved:			

6	***12 of 12***	***NNE/32.0***	***264.1 / 3.89***	***PETRO V PLUS LTD O/A ESSO*** ***14445 HWY 50*** ***BOLTON ON***	***FST***

Inventory No:	49134275	***Tank Material:***	
Inventory Status:	Active	***Corrosion Protect:***	
Installation Year:		***Overfill Protection:***	
Capacity:	125000	***Inventory Context:***	Liquid Fuels
Capacity Unit:	L	***Inventory Item:***	FS Gasoline Station - Self Serve
Tank Type:			
Manufacturer:			
Model:			
Description:			

7	***1 of 2***	***N/35.6***	***265.9 / 5.61***	***14475 Highway 50*** ***Caledon ON***	***SPL***

Ref No:	1388-9JHT3H	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	2014/04/25	***Discharger Report:***	

Dt MOE Arvl on Scn:	2014/04/29	**Material Group:**	
MOE Reported Dt:	2014/04/25	**Impact to Health:**	
Dt Document Closed:	2014/07/03	**Agency Involved:**	
Site No:	NA		
MOE Response:	Planned Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	diesel spill<UNOFFICIAL>		
Site Address:	14475 Highway 50		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Unknown / N/A		
Incident Preceding Spill:			
Environment Impact:	Confirmed		
Health Env Consequence:			
Nature of Impact:	Soil Contamination		
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:			
Source Type:			
Contaminant Code:	15		
Contaminant Name:	OIL (PETROLEUM BASED, NOT SPECIFIED)		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Unknown source: oil coming up in excavation for cables		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Unknown / N/A		
SAC Action Class:	Primary Assessment of Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

7	2 of 2	N/35.6	265.9 / 5.61	14475 HIGHWAY 50, CALEDON ON	INC

Incident No:	1381602	**Any Health Impact:**	Unknown
Incident ID:		**Any Enviro Impact:**	Unknown
Instance No:		**Service Intrp:**	Unknown
Status Code:		**Was Prop Damaged:**	Unknown
Incident Status:		**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	
Task No:	4895060	**Indus App. Type:**	
Attribute Category:	FS-Perform L1 Incident Insp	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	2014/04/28 00:00:00	**Operation Pressure:**	
Time of Occurrence:	12:00:00	**Equipment Type:**	
Occr Insp Start Dt:	2014/04/28 00:00:00	**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	

Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Leak	**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Fuel Oil	**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:	NULL	**Tank Storage Type:**	
Prc Escalation Req:	NULL	**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14475 HIGHWAY 50, CALEDON - LEAK		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	spill not confirmed of the origin		
Operation Type Involved:	Commercial (e.g. restaurant, business unit, etc)		

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8 | **1 of 1** | **S/35.7** | **261.5 / 1.22** | **PAPERTIOUS INVESTMENTS INC.**
No Municipal Address
Caledon ON | **RSC**

RSC No:	223186	**X:**	-79.7614996397065
RA No:		**Y:**	43.875729743163824
Status:	FILED	**Latitude:**	43.87572974
Filing Date:		**Longitude:**	-79.76149964
Date Ack:		**UTM Coordinates:**	
Date Returned:		**Latitude Longitude:**	
Approval Date:	April 26, 2017	**Accuracy Estimate:**	
Cert Date:		**Measurement Method:**	
Cert Prop Use No:		**Mailing Address:**	
Curr Property Use:		**Telephone:**	
Intended Prop Use:		**Fax:**	
Restoration Type:		**Email:**	
Soil Type:		**Postal Code:**	
Criteria:		**Ministry District:**	
Stratified (Y/N):		**MOE District:**	Halton-Peel
Audit (Y/N):		**SWP Area Name:**	Toronto
Entire Leg Prop. (Y/N):		**Qual Person Name:**	SIMON LAN
CPU Issu Sect 1686:		**Consultant:**	
Business Name:	PAPERTIOUS INVESTMENTS INC.		
Address:	No Municipal Address		
Legal Desc:			
Site Pin:	14326-1098 (LT), 14326-1099 (LT), 14326-1134 (LT), 14326-1331 (LT), 14326-1332 (LT), 14326-1333 (LT), 14326-1334 (LT), 14326-1335 (LT), 14326-1371 (LT), 14326-1372 (LT), 14326-1373 (LT), 14326-1374 (LT), 14326-1377 (LT), 14326-1378 (LT), 14330-0545 (LT)		
Asmt Roll No:			
Project Type:	POST2011		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type: RSC based on Phase One and Two ESAs
Applicable Standards:
PDF Link: https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=223186

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9 | ***1 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital*** ***14182 Hwy 50 N.*** ***Bolton ON*** | ***GEN***

Generator No: ON6173942
SIC Code:
SIC Description:
Approval Years: 03
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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9 | ***2 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital Professional Corp.*** ***14182 Hwy 50 N.*** ***Bolton ON L7E 5R8*** | ***GEN***

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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9 | ***3 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital Professional Corp.*** ***14182 Regional Road 50*** ***Bolton ON*** | ***GEN***

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 321
Waste Class Name: EXPLOSIVE MANUFACTURING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	4 of 4	ESE/39.0	262.9 / 2.61	North Hill Animal Hospital Professional Corp. 14182 Regional Road 50 Bolton ON	GEN

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	1 of 2	E/49.1	264.8 / 4.58	Enbridge Energy Distribution Inc. 151 Taylorwood Ave, Bolton Halton Hills ON	SPL

Ref No: 2548-AXR42E
Year:
Incident Dt: 2018/04/11
Dt MOE Arvl on Scn:
MOE Reported Dt: 2018/04/11
Dt Document Closed: 2018/05/18
Site No: NA
MOE Response: No
Site County/District: Regional Municipality of Halton
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: 1/2 inch plastic IP<UNOFFICIAL>
Site Address: 151 Taylorwood Ave, Bolton
Site Region: Central
Site Municipality: Halton Hills
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 other - see incident description
Contaminant Qty 1:	0
Contaminant Unit:	other - see incident description
Client Type:	Corporation
Source Type:	Pipeline/Components
Contaminant Code:	35
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Limit 1:	
Contam Limit Freq 1:	n/a
Contaminant UN No 1:	1075
Receiving Medium:	Air
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA 1/2 inch plastic IP damage, made safe
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Enbridge Energy Distribution Inc.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	2 of 2	E/49.1	264.8 / 4.58	**PIPELINE HIT 1/2"** **151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8, CA** **ON**	PINC

Incident Id:		**Pipe Material:**	
Incident No:	2281852	**Fuel Category:**	
Incident Reported Dt:	4/12/2018	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT 1/2"		
Incident Address:	151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON L7E 4G6**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON6379064
SIC Code: 611110
SIC Description:
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

11	2 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON L7E 4G6**	GEN

Generator No: ON6379064
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

11	3 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON**	GEN

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

11	4 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

11	***5 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

11	***6 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code: 611110

SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Agnes Zielinska
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905-662-0062 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

11	***7 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD*** ***St. Michael S.S., 9130 Columbia Way*** ***Bolton ON L7E 4G6***	***GEN***

Generator No:	ON6379064
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2018
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	148 B
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 C
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 I
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 L
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	263 B
Waste Class Name:	Misc. waste organic chemicals

11	***8 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD***	***GEN***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				St. Michael S.S., 9130 Columbia Way *Bolton ON L7E 4G6*	

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

11	*9 of 10*	*E/79.4*	*261.0 / 0.79*	*DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD* *St. Michael S.S., 9130 Columbia Way* *Bolton ON L7E 4G6*	*GEN*

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

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11 | **10 of 10** | **E/79.4** | **261.0 / 0.79** | **DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD**
St. Michael S.S., 9130 Columbia Way
Bolton ON L7E 4G6 | **GEN**

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 L
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 B
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

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12 | **1 of 2** | **ESE/81.3** | **264.6 / 4.34** | **WYNDCLIFFE DEVELOPMENTS INC.**
COLEMAN CT./KINGSVIEW DR.
CALEDON TOWN ON | **CA**

Certificate #: 3-1348-93-
Application Year: 93
Issue Date: 12/9/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	2 of 2	ESE/81.3	264.6 / 4.34	WYNDCLIFFE DEVELOPMENTS INC. COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	CA

Certificate #: 7-1044-93-
Application Year: 93
Issue Date: 12/9/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 2	E/89.3	257.9 / -2.37	13 Foxbury Place, Caledon ON	PINC

Incident Id:
Incident No: 874068
Incident Reported Dt:
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Tank Status: RC Established
Task No: 4025164
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt: 2012/09/19
Depth:
Customer Acct Name:
Incident Address:
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 13 Foxbury Place, Caledon - 1/2" Pipeline Hit
Reported By: jamie.amodeo@enbridge.com
Affiliation:
Occurrence Desc:
Damage Reason: Notification to one call center made but not sufficient
Notes:

Pipe Material:
Fuel Category: Natural Gas
Health Impact:
Environment Impact:
Property Damage: Yes
Service Interrupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
PSIG:
Attribute Category: FS-Perform P-line Inc Invest
Regulator Location:
Method Details: E-mail

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	2 of 2	E/89.3	257.9 / -2.37	PIPELINE HIT 0.5" 13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	PINC

Incident Id:
Incident No: 979246
Incident Reported Dt: 12/17/2012
Type: FS-Pipeline Incident
Status Code:
Tank Status: Pipeline Damage Reason Est

Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT 0.5"		
Incident Address:	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Limited Vendor	**Oper Phone No:**	
Licence Type Code:	23	**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	2 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Vendor	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Trade Name:					
PDF URL:					

14	3 of 4	ESE/117.8	262.9 / 2.61	Grant Thornton 14124 Regional Road #50 Bolton ON	GEN

Generator No: ON7434239
SIC Code: 523990
SIC Description: All Other Financial Investment Activities
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

14	4 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:
Licence No: 14279
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class: 01
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 9519944
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

15	1 of 1	ESE/129.6	262.8 / 2.56	7 Rotarian Way, Caledon ON	INC

Incident No: 466328
Incident ID: 2618220
Instance No:
Status Code: Causal Analysis Complete
Incident Status:
Incident Severity:
Task No:
Attribute Category: FS-Incident
Context:
Date of Occurrence:

Any Health Impact:
Any Enviro Impact:
Service Intrp:
Was Prop Damaged:
Reside App. Type:
Commer App. Type:
Indus App. Type:
Institut App. Type:
Depth Ground Cover:
Operation Pressure: IP

Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:		**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:		**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:	Service / Riser Distribution Pipeline		
Pipeline Involved:			
Pipe Material:	Plastic		
Regulator Location:	Outside		
Regulator Type:	Service Regulator (up to 60 psi intake)		
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	7 Rotarian Way, Caledon - 1" Pipeline Hit		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	Contractor had exposed service with Vac Truck.Had valid locates.Operator error.		
Operation Type Involved:			

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16 | **1 of 1** | **SE/137.9** | **262.7 / 2.44** | **CORPORATION OF THE TOWN OF CALEDON**
14220 Hwy 50 HWY
CALEDON ON L7E 3E2 | **PES**

Detail Licence No:		**Operator Box:**	
Licence No:	L-240-6207315806	**Operator Class:**	
Status:	Active	**Operator No:**	
Approval Date:	January 11, 2023	**Operator Type:**	
Report Source:	PEST-Operator	**Oper Area Code:**	
Licence Type:	Operator	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:	43.89055556	**Operator Region:**	
Longitude:	-79.75611111	**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	Halton-Peel
County:		**SWP Area Name:**	Toronto
Trade Name:			
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2830780		

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17 | **1 of 1** | **SE/161.0** | **260.8 / 0.55** | **Progreen Demolition Ltd.**
14328 Hwy 50 | **GEN**

Bolton ON

Generator No: ON6458484
SIC Code: 236110
SIC Description: Residential Building Construction
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

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18 ***1 of 4*** ***SE/182.2*** ***261.5 / 1.28*** ***CALEDON GARDEN GALLERY INC***
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8 ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: General Vendor
Licence Type Code: 22
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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18 ***2 of 4*** ***SE/182.2*** ***261.5 / 1.28*** ***CALEDON GARDEN GALLERY INC***
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8 ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
County:				**SWP Area Name:**	
Trade Name:					
PDF URL:					

18	3 of 4	SE/182.2	261.5 / 1.28	14118 Hwy 50 BOLTON ON	HINC

External File Num:	FS INC 0704-01940
Fuel Occurrence Type:	Pipeline Strike
Date of Occurrence:	4/19/2007
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Construction Site (pipeline strike)
Service Interruptions:	Yes
Property Damage:	Yes
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Peel
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

18	4 of 4	SE/182.2	261.5 / 1.28	CALEDON GARDEN GALLERY INC 14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	PES

Detail Licence No:		**Operator Box:**	
Licence No:	13482	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	General Vendor	**Oper Phone No:**	8570416
Licence Type Code:	22	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

19	1 of 1	E/188.7	261.1 / 0.83	THE NEEDLEWORKS 8 TAYLORWOOD AVE BOLTON ON L7E 1J2	SCT

Established:	1994
Plant Size (ft²):	0
Employment:	0

--Details--
Description: PLEATING, DECORATIVE AND NOVELTY STITCHING, AND TUCKING FOR THE TRADE
SIC/NAICS Code: 2395

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20 | ***1 of 1*** | ***E/199.5*** | ***260.9 / 0.61*** | ***22-80 Goodfellow Cres., Bolton Caledon ON*** | ***SPL***

Ref No: 0163-6ATUN3
Year:
Incident Dt: 3/25/2005
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/25/2005
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: 16-20 Homes<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Unknown
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Surface Water Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason: Unknown - Reason not determined
Incident Summary: Small Qty oil in SS: Flushed to Humber
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Unknown
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Municipality No:
Nature of Damage:
Discharger Report: 0
Material Group: Oil
Impact to Health:
Agency Involved:

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21 | ***1 of 2*** | ***E/209.0*** | ***259.9 / -0.39*** | ***RANDY E NOBES 20 EWART ST NORTHAM IND PARK COBOURG ON*** | ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10462049	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	19733	***Facility Location:***	
Instance Type:	FS Highway Tank - Gas/Diesel	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS HIGHWAY TANK - GASOLINE/DIESEL		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

21	***2 of 2***	***E/209.0***	***259.9 / -0.39***	***RANDY E NOBES*** ***20 EWART ST NORTHAM IND PARK*** ***COBOURG ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10462043	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	20724	***Facility Location:***	
Instance Type:	FS Highway Tank - Gas/Diesel	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			

TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS HIGHWAY TANK - GASOLINE/DIESEL
Original Source: EXP
Record Date: Up to Mar 2012

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22 | ***1 of 1*** | ***E/218.6*** | ***259.9 / -0.39*** | ***The Regional Municipality of Peel***
16 Ewart St
Caledon ON L7E 2T3 | ***SPL***

Ref No: 5552-AE9HWP
Year:
Incident Dt: 9/28/2016
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/29/2016
Dt Document Closed: 10/3/2016
Site No: 0875-AEAHJQ
MOE Response:
Site County/District:
Site Geo Ref Meth: NA
Site District Office:
Nearest Watercourse:
Site Name: Residence
Site Address: 16 Ewart St
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu: NA
Site Map Datum: NA
Northing: NA
Easting: NA
Incident Cause:
Incident Preceding Spill: Leak/Break
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 20 L
Contaminant Qty 1: 20
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason: Equipment Failure
Incident Summary: Region of Peel: swg to roadway and cb's; cleaned
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Municipal Sewage
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: The Regional Municipality of Peel

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Unplottable Summary

Total: 71 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 12 Con 5	Caledon ON	
CA	Vincos Corp.	Part of Lot 10, Concession 5	Caledon ON	
CA	James Dick Construction Limited	mobile facility	Caledon ON	
CA	Vincos Corp.	Part of Lot 10, Concession 5	Caledon ON	
CA	CALEDON SAND & GRAVEL INC.	R.R. #2	CALEDON TOWN ON	
CA	BETOMAT CONCRET PRODUCTS	PART LOT 10 CONC. V	CALEDON TOWN ON	
CA		Part of the West Half of Lot 10, Concession 8	Caledon ON	
CA		Part of the West Half of Lot 10, Concession 8	Caledon ON	
CA	Palgrave Well No. 3	Mount Hope Road	Caledon ON	
CA	Palgrave Well No. 3	Mount Hope Road	Caledon ON	
CA		Part of Lot 10, Concession 5	Caledon ON	
CA		Part of Lot 10, Concession 5	Caledon ON	
CA		Part of W.1/2 Lot 10, Conc. 8 (Albion)	Caledon ON	
CA		Part of W.1/2 Lot 10, Conc. 8 (Albion)	Caledon ON	
CA		Lots 9 and 10, Concession 5	Caledon ON	
CA		Lots 9 and 10, Concession 5	Caledon ON	
CA	CLINT DEVELOPMENTS INC.	PT.LOT 10/CONC. 8, ALBION TWP.	CALEDON TOWN ON	
CA	PAPERTIOUS INVESTMENTS	LOT 10,CON.5/STS.A/C&L	CALEDON ON	

	INC.			
CA	PAPERTIOUS INVESTMENTS INC.	PT.LOTS 9&10, CONC. 5, BOLTON	CALEDON ON	
CA	PAPERTIOUS INVESTMENTS INC.	LOT 10, CON.5/STS.A/C&L	CALEDON ON	
CA	WYNDCLIFFE ESTATES INC. PH. IV	KINGSVIEW DR. HUMBERVIEW HILLS	CALEDON TOWN ON	
CA	R.M. OF PEEL-BOLTON WELL PUMPING STATION	NO. 6 GLASGOW ROAD	CALEDON TOWN ON	
CA	SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS	GOODFELLOW CRES. PH.III ST. II	CALEDON TOWN ON	
CA	WYNDCLIFFE ESTATES INC. PH. IV	KINGSVIEW DR. HUMBERVIEW HILLS	CALEDON TOWN ON	
CA	R.M. OF PEEL ANN ST. /STATION ST.	KING STREET WEST	CALEDON TOWN ON	
CA	SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS	GOODFELLOW CRES.PH. III ST. II	CALEDON TOWN ON	
CA	R.M. OF PEEL	KING ST. WEST (BOLTON)	CALEDON TOWN ON	
CA	JAMES DICK CONSTRUCTION LIMITED	PT.LOT 13/CONC.6, BOLTON	CALEDON TOWN ON	
EBR	James Dick Construction Limited	Mobile facility Caledon, Regional Municipality of Peel TOWN OF CALEDON	ON	
ECA	The Corporation of the Town of Caledon	Columbia Way Lot 10-11 and Concession 7	Caledon ON	L7C 1J6
ECA	James Dick Construction Limited	mobile facility	Caledon ON	L7E 5R8
ECA	Papertious Investments Inc.		Caledon ON	L4K 4R1
FST	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FST	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FSTH	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FSTH	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	Monterra Lumber Mills Limited	Highway 50	Bolton ON	L7E 1M5
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4

GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
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GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	KEN'S LAWNMOWER REPAIRS LTD.	LOT 14, CONCESSION 6	CALEDON ON	
GEN	KEN'S LAWNMOWER REPAIRS LTD. 23-511	LOT 14, CONC6, TOWN OF CALEDON C/O R.R. #2	BOLTON ON	L7E 5R8
GEN	KEN'S LAWNMOWER REPAIRS LTD.	LOT 14, CONC6,	TOWN OF CALEDON ON	L7E 5R8
GEN	CALEDON, TOWN OF	PUBLIC WORKS YARD 3 LOT 11, CONCESSION 6	CALEDON EAST ON	L0N 1E0
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	LOT 13, CONCESSION 6	CALEDON ON	
GEN	JAMES DICK CONSTRUCTION LTD. 22-148	LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470	BOLTON ON	L0P 1A0
GEN	JAMES DICK CONSTRUCTION LTD.	LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470	BOLTON ON	L0P 1A0
PES	SAINT'S COLD CREEK NURSERY	R.R. #2, HWY. 50	BOLTON ON	L7E 5R8
PRT	S & F SERVICE DIV OF 490474 ONTARIO LTD	LOT 12 CON 7 HWY 50N	BOLTON ON	
PRT	MBH PETROLEUM SERVICES INC	LOT 13 CON 7	BOLTON ON	

PRT	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
SCT	James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.	Hwy 50	Bolton ON	L7E 5T4
SCT	JAMES DICK CONCRETE AGGREGATES	PO BOX 470 STN MAIN	ON	L7E 5T4
SCT	JAMES DICK CONCRETE AGGREGATES		BOLTON ON	L7E 5T4
SCT	James Dick Construction Ltd.		Bolton ON	
SCT	Caledon Sand & Gravel Inc.	Hwy 50	Bolton ON	L7E 5Z7
SCT	CALEDON SAND & GRAVEL INC.	HIGHWAY 50 RR 1	BOLTON ON	L7E 5Z7
SCT	JAMES DICK CONCRETE AGGREGATES	HWY 50	BOLTON ON	L7E 5T4
SPL	UNKNOWN	HWY 50,BOLTON	CALEDON TOWN ON	
SPL	James Dick Construction Limited	North West Corner	Caledon ON	
SPL	ROTHSAY	HWY 50, 1 KM NORTH OF KING ST IN BOLTON TRANSPORT TRUCK (CARGO)	CALEDON TOWN ON	

Unplottable Report

Site:
Lot 12 Con 5 Caledon ON

Database:
AAGR

Type:	Pit
Region/County:	Peel
Township:	Caledon
Concession:	5
Lot:	12
Size (ha):	0.1
Landuse:	
Comments:	

Site: ***Vincos Corp.***
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	5442-5NKPJW
Application Year:	2003
Issue Date:	6/17/2003
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: ***James Dick Construction Limited***
mobile facility Caledon ON

Database:
CA

Certificate #:	8517-7EDPJG
Application Year:	2008
Issue Date:	6/12/2008
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Vincos Corp.***
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	9272-5TLK7Y
Application Year:	2003
Issue Date:	12/9/2003
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: ***CALEDON SAND & GRAVEL INC.***
R.R. #2 CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3483-93-
Application Year: 93
Issue Date: 10/20/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: (2) WASTE OIL FURNACES MODEL GV-2000X
Contaminants:
Emission Control:

Site: ***BETOMAT CONCRET PRODUCTS***
PART LOT 10 CONC. V CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3038-87-
Application Year: 87
Issue Date: 6/25/1987
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: CONCRETE BRICK MFG.
Contaminants:
Emission Control:

Site:
Part of the West Half of Lot 10, Concession 8 Caledon ON

Database: ***CA***

Certificate #: 6203-4H7LEQ
Application Year: 00
Issue Date: 3/9/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Clint Developments Inc.
Client Address: 222 Lesmill Road
Client City: North York
Client Postal Code: M3B 2T5
Project Description: Watermains and all appurtenances to be constructed in conjunction with Project No. T-98002C.
Contaminants:
Emission Control:

Site:
Part of the West Half of Lot 10, Concession 8 Caledon ON

Database: ***CA***

Certificate #: 8654-4H7KTU
Application Year: 00
Issue Date: 3/9/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Clint Developments Inc.
Client Address: 222 Lesmill Road
Client City: North York
Client Postal Code: M3B 2T5
Project Description: Sanitary and storm sewers and all appurtenances to be constructed in conjunction with Project No.T-98002C.
Contaminants:
Emission Control:

Site: ***Palgrave Well No. 3***
Mount Hope Road Caledon ON

Database: ***CA***

Certificate #: 1565-5AUJGA
Application Year: 02
Issue Date: 6/13/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name: The Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive, Fourth Floor
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Amend CofA to extend GUDI deadline.
Contaminants:
Emission Control:

Site: ***Palgrave Well No. 3***
Mount Hope Road Caledon ON

Database: ***CA***

Certificate #: 4850-56XV22
Application Year: 02
Issue Date: 6/13/02
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: The system comprises of three (3) well pump houses, reservoir and booster station and distribution system
Contaminants:
Emission Control:

Site:
Part of Lot 10, Concession 5 Caledon ON

Database: ***CA***

Certificate #: 8804-4Q7LKE
Application Year: 00
Issue Date: 10/25/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Valleygrove Investments Inc.
Client Address: 2458 Dundas Street West
Client City: Mississauga
Client Postal Code: L5K 1R8
Project Description: Construction of watermains in the Town of Caledon (Bolton) under Project 21T-89037c.
Contaminants:
Emission Control:

Site:
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	1503-4Q6QFE
Application Year:	00
Issue Date:	10/25/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Valleygrove Investments Inc.
Client Address:	2458 Dundas Street West
Client City:	Mississauga
Client Postal Code:	L5K 1R8
Project Description:	Construction of Sanitary sewers in the Town of Caledon (Bolton) under project 21T-89037c.
Contaminants:	
Emission Control:	

Site:
Part of W.1/2 Lot 10, Conc. 8 (Albion) Caledon ON

Database:
CA

Certificate #:	8324-4HNTLF
Application Year:	00
Issue Date:	3/30/00
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Worldcom Meadows Inc.
Client Address:	55 Blue Willow Drive
Client City:	Woodbridge
Client Postal Code:	L4L 9E8
Project Description:	North Hill Villas, Town of Caledon
Contaminants:	
Emission Control:	

Site:
Part of W.1/2 Lot 10, Conc. 8 (Albion) Caledon ON

Database:
CA

Certificate #:	1255-4HNT8Q
Application Year:	00
Issue Date:	3/30/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Worldcom Meadows Inc.
Client Address:	55 Blue Willow Drive
Client City:	Woodbridge
Client Postal Code:	L4L 9E8
Project Description:	North Hill Villas, Town of Caledon
Contaminants:	
Emission Control:	

Site:
Lots 9 and 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	0036-4VVRH4
Application Year:	01
Issue Date:	5/3/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Papertious Investments Inc.

Client Address: 1700 Langstaff Road, Suite 2003
Client City: Vaughan
Client Postal Code: L4K 3S3
Project Description: Watermains to be constructed on Harvest Mood Drive, Cedar Grove Road, Streets: E, F, H, M, O, P, Lismer Crescent, Grapevine Road and King Street West
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Lots 9 and 10, Concession 5 Caledon ON

Certificate #: 6126-4VXLS2
Application Year: 01
Issue Date: 5/3/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Papertious Investments Inc.
Client Address: 1700 Langstaff Road, Suite 2003
Client City: Vaughan
Client Postal Code: L4K 3S3
Project Description: Storm sewers to be constructed on Harvest Moon Drive, Cedar Grove Road, Streets: E, F, H, M, O, P, Lismer Crescent and Grapevine Road
Contaminants:
Emission Control:

Site: ***CLINT DEVELOPMENTS INC.*** ***Database:*** ***CA***
PT.LOT 10/CONC. 8, ALBION TWP. CALEDON TOWN ON

Certificate #: 3-1213-99-
Application Year: 99
Issue Date: 10/21/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.*** ***Database:*** ***CA***
LOT 10,CON.5/STS.A/C&L CALEDON ON

Certificate #: 7-0382-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.*** ***Database:*** ***CA***
PT.LOTS 9&10, CONC. 5, BOLTON CALEDON ON

Certificate #: 3-0578-98-
Application Year: 98
Issue Date: 6/22/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.***
LOT 10, CON.5/STS.A/C&L CALEDON ON

Database: ***CA***

Certificate #: 3-0581-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WYNDCLIFFE ESTATES INC. PH. IV***
KINGSVIEW DR. HUMBERVIEW HILLS CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0613-89-
Application Year: 89
Issue Date: 5/2/1989
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 PEEL-BOLTON WELL PUMPING STATION***
NO. 6 GLASGOW ROAD CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0818-91-
Application Year: 91
Issue Date: 11/13/1992
Approval Type: Municipal water
Status: Approved in 1992
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS***
GOODFELLOW CRES. PH.III ST. II CALEDON TOWN ON

Database: ***CA***

Certificate #:	7-0465-86-
Application Year:	86
Issue Date:	5/27/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***WYNDCLIFFE ESTATES INC. PH. IV***
KINGSVIEW DR. HUMBERVIEW HILLS CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0690-89-
Application Year:	89
Issue Date:	5/2/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.M. OF PEEL ANN ST./STATION ST.***
KING STREET WEST CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0469-89-
Application Year:	89
Issue Date:	3/29/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS***
GOODFELLOW CRES.PH. III ST. II CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0622-86-
Application Year:	86
Issue Date:	5/27/1986
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	

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

Site: ***R.M. OF PEEL***
KING ST. WEST (BOLTON) CALEDON TOWN ON

Database: ***CA***

Certificate #: 3-2104-87-
Application Year: 87
Issue Date: 11/30/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***JAMES DICK CONSTRUCTION LIMITED***
PT.LOT 13/CONC.6, BOLTON CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3465-93-
Application Year: 93
Issue Date: 11/18/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: (2) WASTE OIL FURNACES, MODEL GV-2000X
Contaminants: Nitrogen Oxides
Emission Control: No Controls

Site: ***James Dick Construction Limited***
Mobile facility Caledon, Regional Municipality of Peel TOWN OF CALEDON ON

Database: ***EBR***

EBR Registry No: 010-2453
Ministry Ref No: 5347-79LQFX
Notice Type: Instrument Final Decision
Notice Stage:
Notice Date: December 15, 2008
Proposal Date: January 03, 2008
Year: 2008
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: James Dick Construction Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address:
Comment Period:
URL:
Summary:

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

Site Location Details:

Site: ***The Corporation of the Town of Caledon***
Columbia Way Lot 10-11 and Concession 7 Caledon ON L7C 1J6

Database: ***ECA***

Approval No:	6896-BRKPD4	***MOE District:***	
Approval Date:	2020-08-25	***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 Corporation of the Town of Caledon		
Address:	Columbia Way Lot 10-11 and Concession 7		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5043-BMBHXN-14.pdf		
PDF Site Location:			

Site: ***James Dick Construction Limited***
mobile facility Caledon ON L7E 5R8

Database: ***ECA***

Approval No:	8517-7EDPJG	***MOE District:***	
Approval Date:	2008-06-12	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	James Dick Construction Limited		
Address:	mobile facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5347-79LQFX-13.pdf		
PDF Site Location:			

Site: ***Papertious Investments Inc.***
Caledon ON L4K 4R1

Database: ***ECA***

Approval No:	1915-ABCNPV	***MOE District:***	
Approval Date:	2016-06-29	***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:	Papertious Investments Inc.		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6966-AB8KBM-14.pdf		
PDF Site Location:			

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FST***

Inventory No:	10637623	***Tank Material:***	Steel
Inventory Status:	Active	***Corrosion Protect:***	Impressed Current
Installation Year:		***Overfill Protection:***	
Capacity:		***Inventory Context:***	FS Liquid Fuel Tank

Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Inventory Item: FS LIQUID FUEL TANK

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FST***

Inventory No: 10637579
Inventory Status: Active
Installation Year:
Capacity:
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FSTH***

License Issue Date: 12/10/1990
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FSTH***

License Issue Date: 12/10/1990
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122 L
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221 I
Waste Class Name: LIGHT FUELS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

Site: ***Monterra Lumber Mills Limited***
Highway 50 Bolton ON L7E 1M5

Database: ***GEN***

Generator No: ON3263771
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 265 L
Waste Class Name: Graphic arts wastes

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 145 I

Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 212 L

Waste Class Name: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald
Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald
Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald

Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2012
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***KEN'S LAWNMOWER REPAIRS LTD.***
LOT 14, CONCESSION 6 CALEDON ON

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 99,00,01,02,03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***KEN'S LAWNMOWER REPAIRS LTD. 23-511***
LOT 14, CONC6, TOWN OF CALEDON C/O R.R.#2 BOLTON ON L7E 5R8

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 94,95,96
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***KEN'S LAWNMOWER REPAIRS LTD.***
LOT 14, CONC6, TOWN OF CALEDON ON L7E 5R8

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 92,93,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***CALEDON, TOWN OF***
PUBLIC WORKS YARD 3 LOT 11, CONCESSION 6 CALEDON EAST ON L0N 1E0

Database: ***GEN***

Generator No: ON0813202
SIC Code: 4999
SIC Description: OTHER UTILITY IND.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
LOT 13, CONCESSION 6 CALEDON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LTD. 22-148***
LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470 BOLTON ON L0P 1A0

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LTD.***
LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470 BOLTON ON L0P 1A0

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 86,87,88,89,90
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***SAINT'S COLD CREEK NURSERY***
R.R. #2, HWY. 50 BOLTON ON L7E 5R8

Database: ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Site: ***S & F SERVICE DIV OF 490474 ONTARIO LTD***
LOT 12 CON 7 HWY 50N BOLTON ON

Database: ***PRT***

Location ID: 1754
Type: retail
Expiry Date: 1995-06-30
Capacity (L): 118136
Licence #: 0051035001

Site: ***MBH PETROLEUM SERVICES INC***
LOT 13 CON 7 BOLTON ON

Database: ***PRT***

Location ID: 1748
Type: retail
Expiry Date: 1995-10-31
Capacity (L): 27497
Licence #: 0053809001

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***PRT***

Location ID: 2533
Type: private
Expiry Date:
Capacity (L): 48600.00
Licence #: 0001046082

Site: ***James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.***
Hwy 50 Bolton ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***JAMES DICK CONCRETE AGGREGATES***
PO BOX 470 STN MAIN ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 220

--Details--
Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Description: MINERALS & EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***JAMES DICK CONCRETE AGGREGATES***
BOLTON ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 500

--Details--
Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***James Dick Construction Ltd.***
Bolton ON

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***Caledon Sand & Gravel Inc.***
Hwy 50 Bolton ON L7E 5Z7

Database: ***SCT***

Established: 1966
Plant Size (ft²):

Employment: 47

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Site: ***CALEDON SAND & GRAVEL INC.***
HIGHWAY 50 RR 1 BOLTON ON L7E 5Z7

Database: ***SCT***

Established: 1966
Plant Size (ft²): 0
Employment: 47

--Details--
Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***JAMES DICK CONCRETE AGGREGATES***
HWY 50 BOLTON ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***UNKNOWN***
HWY 50,BOLTON CALEDON TOWN ON

Database: ***SPL***

Ref No: 106027
Year:
Incident Dt: 10/6/1994
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/6/1994
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: CALEDON TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: UNKNOWN
Incident Preceding Spill:

Municipality No: 21401
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved: FD

Environment Impact:	NOT ANTICIPATED
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	LAND
Incident Reason:	UNKNOWN
Incident Summary:	SOURCE UNKNOWN-UKN QTY DIESEL TO HWY 50,POOLED AT BTM OF HILL,CLEANED.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	
SAC Action Class:	
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	

Site: ***James Dick Construction Limited***
North West Corner Caledon ON

Database: ***SPL***

Ref No:	7788-8QKQQZ	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	16-JAN-12	***Discharger Report:***	
Dt MOE Arvl on Scn:	25-JAN-12	***Material Group:***	
MOE Reported Dt:	16-JAN-12	***Impact to Health:***	
Dt Document Closed:	25-MAY-12	***Agency Involved:***	

Site No:	
MOE Response:	Planned Field Response
Site County/District:	
Site Geo Ref Meth:	
Site District Office:	
Nearest Watercourse:	
Site Name:	Albion Vaughan rd and King St<UNOFFICIAL>
Site Address:	North West Corner
Site Region:	
Site Municipality:	Caledon
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	Other Transport Accident
Incident Preceding Spill:	
Environment Impact:	Confirmed
Health Env Consequence:	
Nature of Impact:	Soil Contamination
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	Sewage - Municipal/Private and Commercial

Incident Reason:	Spill
Incident Summary:	James Dick Construction:MVA, diesel to grass ~225L
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Motor Vehicle
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	James Dick Construction Limited

Site: ***ROTHSAY***
HWY 50, 1 KM NORTH OF KING ST IN BOLTON TRANSPORT TRUCK (CARGO) CALEDON TOWN ON

Database: ***SPL***

Ref No:	95576	***Municipality No:***	21401
Year:		***Nature of Damage:***	
Incident Dt:	1/22/1994	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	1/22/1994	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	REGION OF PEEL,CALEDON WORKS
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	CALEDON TOWN		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	CONTAINER OVERFLOW		
Incident Preceding Spill:			
Environment Impact:	CONFIRMED		
Health Env Consequence:			
Nature of Impact:	Multi Media Pollution		
Contaminant Qty:			
Contaminant Qty 1:			
Contaminant Unit:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	LAND		
Incident Reason:	ERROR		
Incident Summary:	ROTHSAY MEAT COMPANY- 5 M3 RENDERINGS TO HIGHWAY & SHOULDER.		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:			
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

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

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

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-Apr 2024

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-Apr 30, 2024

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 2022

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: Oct 2023

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-Apr 30, 2024

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 -May 2024

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-Oct 2024

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Sep 30, 2024

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database (ODHD) is offered by the Province of Ontario's Ministry of Mines. The dataset contains information for over 164,000 percussion, overburden, sonic and diamond-drill holes. The presence of assay results with cutoff values for gold, silver, copper, zinc, lead, nickel and platinum group elements is noted. Drill hole data are compiled from assessment files that have been submitted to the ministry in accordance with the Ontario Mining Act (OMA). Source assessment file numbers are captured for cross reference with the Ontario Assessment File Database (OAFD). 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. 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 - Aug 2024

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: Oct 2023

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-Sep 30, 2024

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 - Sep 30, 2024

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-Sep 30, 2024

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-Aug 31, 2024

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land 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, 2023

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: Oct 2023

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Sep 2024

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: Oct 31, 2021

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: Oct 2023

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-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2022

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 in 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: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Mar 31, 2022

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Feb 2024

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, 2022

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-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Feb 2024

National Pollutant Release Inventory - Historic: 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. This data holds historic records; current records are found in NPR2.

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-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the Ministry of Natural Resources (MNR) handed over to the Ontario Oil, Gas and Salt Resources (OGSR) 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 includes well owner/operator, location, permit issue date, and well cap date, license number, 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.

Government Publication Date: 1800-Aug 2024

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 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 - Sep 30, 2024

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-Sep 30, 2024

Ontario PFAS Spills: Provincial PFAS

This specific list of spills includes those incidents where one or more of the listed contaminants are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA), is originally sourced from the Ministry of the Environment, Conservation and Parks spills related data. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Mar 2024; May 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Feb 2024

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Feb 2024

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Feb 28, 2021

Potential PFAS Handlers from EASR: Provincial PPHA

The Ontario Environmental Activity and Sector Registry (EASR), described in Ontario Regulation 245/11, allows businesses with less complex operations - and hence not requiring an Environmental Compliance Approval - to register their activities with the Ontario Ministry of the Environment, Conservation and Parks (MECP). This list of potential PFAS handlers includes those EASR facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used.

Government Publication Date: Jun 30, 2024

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 PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Sep 30, 2024

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, 1992-2021

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). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Oct 2024

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-Apr 30, 2024

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

Government Publication Date: 1988-Jun 2024

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of 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.

Government Publication Date: 1990-Dec 31, 2021

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 - Apr 2024

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 - Sep 30, 2024

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: Dec 31 2023

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.'

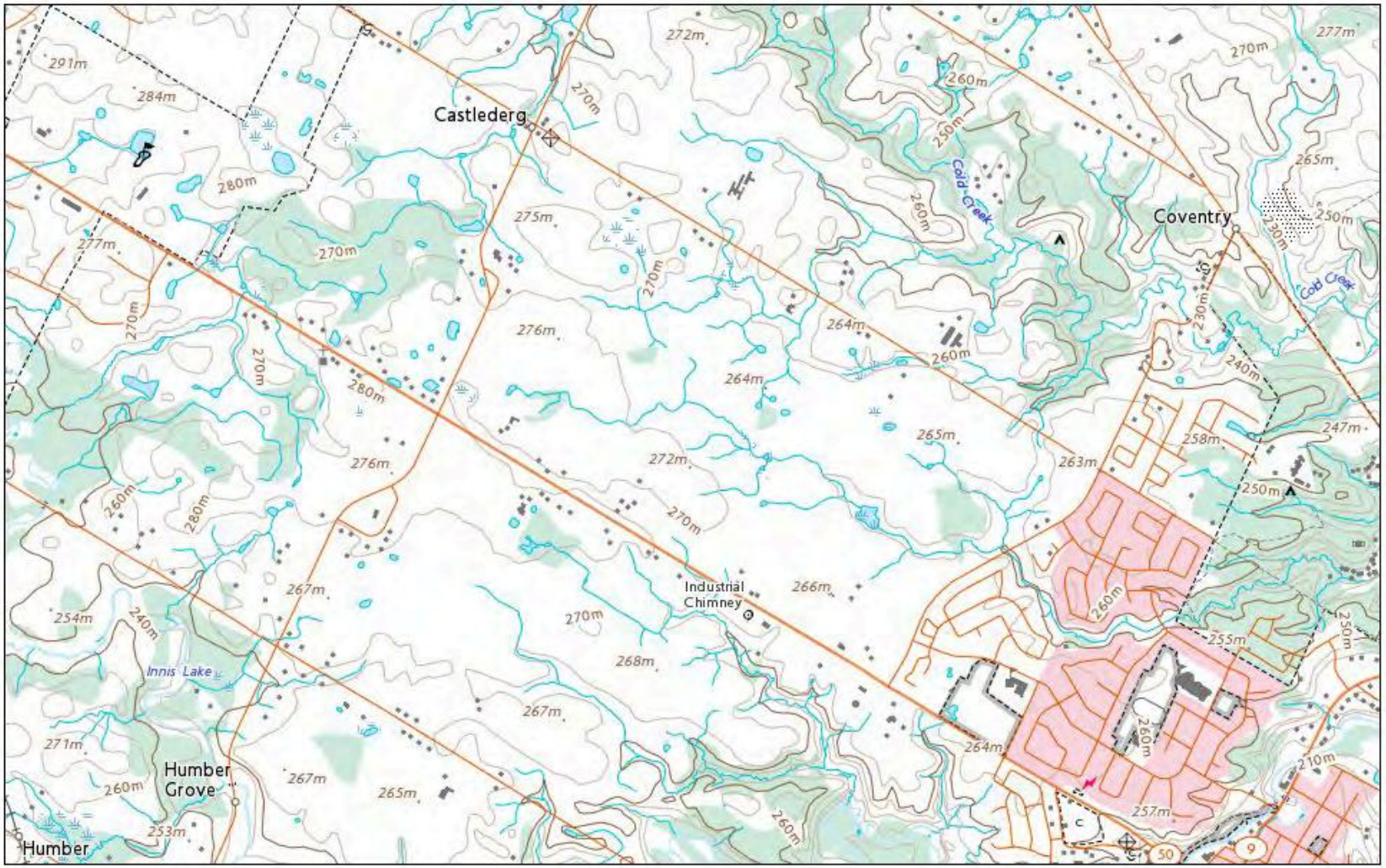
Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

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APPENDIX G

Topographic Map

Toporama



March 29, 2025

1:25,794

0 0.2 0.4 0.8 mi

0 0.35 0.7 1.4 km

Natural Resources Canada | Ressources naturelles Canada

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Canada

APPENDIX H

Site Photographs



Photo 1: View to the east of the Phase I Property (14530 Mount Hope Road) from near the western limits of the Site. The Phase I Property comprised an agricultural field.



Photo 2: View to the southeast of the Phase I Property. A wetland area was observed near the western limits of the Phase I Property.



Photo 3: View to the southwest of a wetland area located within the Phase I Property.



Photo 4: View of the wetland area located within the western portion of the Phase I Property. Standing water was observed.



Photo 5: View to the east of the Phase I Property from the central portion of the Site. A drainage swale / wetland area meandered through the Phase I Property. Standing / flowing water was not observed in all areas of the drainage swale, indicating that the swales were subject to ephemeral water flows likely during high rainfall events or springtime snowmelt runoff.



Photo 6: View to the west of the Phase I Property from the central portion of the Site. A drainage swale meandered through the Phase I Property and appeared to lead to several wetland areas.



Photo 7: View of a natural spring that appeared to seep from the soil into the drainage swale and wetland area within the central portion of the 14530 Mount Hope Road property. Orange discoloration of the soils and a possible surface sheen on the water was observed. The discolouration and sheen are consistent with the presence of iron-oxidizing bacteria and anaerobic groundwater conditions, which could also be associated with the historical agricultural uses of the Site.



Photo 8: View of a wetland area within the central portion of the Phase I Property (downgradient of the observed natural spring pictured above). Water appeared to meander to the southeast through the Phase I Property.



Photo 9: View to the southeast of the eastern limits of the Phase I Property. Mount Hope Road was observed near the eastern limits of the Phase I Property.



Photo 10: View of concrete / masonry stone debris that was observed within the eastern portion of the 14530 Mount Hope Road property. A former building structure was observed at this location in the historical aerial photographs.

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Phase I Environmental Site Assessment

Proposed SPS Site, Part of PIN 14329-0248 (LT)
Bolton Water and Wastewater Capacity Improvements
Schedule C Class Environmental Site Assessment
Bolton, Ontario

Client Name: GEI Consultants Canada Ltd.
Date: July 25, 2025
File: 48561

Suite 202 - 1908 Ironoak Way, Oakville, ON L6H 0N1 | Phone: (905) 829-8666

EXECUTIVE SUMMARY

Thurber Engineering Ltd. (Thurber) was retained by GEI Consultants Canada Ltd. (GEI) on behalf of Peel Region (the Region) to prepare a Phase I Environmental Site Assessment (ESA) for a portion of the overall property with the property identification number (PIN) 14329-0248 (LT), located adjacent to the southeast of Emil Kolb Parkway where a proposed easement to construct a sewage pumping station (SPS) is planned. The Phase I Property (Site) comprised an irregularly shaped portion of the property that was approximately 390 m long and up to 80 m wide in the Town of Caledon, Ontario.

The purpose of the Phase I ESA was to identify evidence of actual and/or potential contamination at the Site which may impact the soil and groundwater conditions of the Phase I Property. The Phase I ESA was completed for due diligence purposes in accordance with the general components of CSA Standard Z768-01 *Phase I Environmental Site Assessment* (April 2003, reaffirmed in 2022). The Phase I ESA was requested by the Region as part of its due diligence in support of a potential easement acquisition for the Bolton Water and Wastewater Capacity Improvements Project.

The Phase I ESA comprised a desktop review of available historical records, responses to an interview questionnaire provided by the site representative, a reconnaissance of the Site, and a reconnaissance of the Phase I Study Area from publicly accessible locations. The collective information was used to assess and evaluate past and present uses, and conditions and activities within the Phase I Study Area to identify potential sources of contamination that may impact the Site or have the potential for contaminant migration onto the Site.

The Site has historically been used for agricultural and residential uses since at least 1946 (first available aerial photograph for the Site). At the time of the Site Reconnaissance, the Site was observed to be vacant land with evidence of the former community use (fill embankment from the historical Duffy's Lane roadway) noted through the central portion of the Site. With respect to the Phase I Study Area, the surrounding properties appeared to be used in connection with historical residential and agricultural properties, and at the time of the Site Reconnaissance generally consisted of vacant lands surrounding the Humber River, and community use lands (i.e., Emil Kolb Parkway roadway).

Based on the review and evaluation of information obtained through the Phase I ESA, historical and current activities were identified on-Site and within the Phase I Study Area that are considered potential sources of contamination that may impact the subsurface conditions at the Site.

The identified potential sources of contamination generally included potential application of pesticides to historical agricultural fields, potential importation of fill materials of unknown quality for the current and historical roadways, and potential historical storage and use of fuel oil for

heating purposes at the historical residential/agricultural buildings. In addition, impacts associated with the historical use of the adjacent roadway (i.e. potential fill materials of unknown chemical quality, de-icing salts, and minor vehicle fluid leakage) were considered.

A subsurface investigation (i.e. Phase II ESA) involving sampling and analysis of soil and groundwater will be required to confirm or refute the presence of contamination from the identified potential sources of contamination at the Site and on surrounding properties within the Phase I Study Area.

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Site Photographs

1. INTRODUCTION

Thurber Engineering Ltd. (Thurber) was retained by GEI Consultants Canada Ltd. (GEI) on behalf of Peel Region (the Region) to prepare a Phase I Environmental Site Assessment (ESA) for a portion of the overall property with the property identification number (PIN) 14329-0248 (LT), located adjacent to the southeast of Emil Kolb Parkway, in the Town of Caledon (Bolton), Ontario. The Phase I ESA was requested in support of a potential easement acquisition to construct a sewage pumping station (SPS) for the Bolton Water and Wastewater Capacity Improvements Project.

The purpose of the Phase I ESA is to identify evidence of actual and/or potential contamination at the Site resulting from past and present potential sources of contamination on the Site and the surrounding properties that may impact the underlying soil and groundwater conditions and pose current or future environmental liability associated with acquiring the easement through the Site.

The Phase I ESA was completed for due diligence purposes and was not prepared for the filing of a Record of Site Condition (RSC) under Ontario Regulation (O. Reg.)153/04, as amended, for the Site. The findings of the Phase I ESA will be evaluated to determine if a Phase II ESA is necessary, and if so, to provide a basis for carrying out a Phase II ESA.

The Study Area for the Phase I ESA were considered to include surrounding properties within a 250 m buffer from the Site boundaries.

It is a condition of this report that Thurber's performance of its professional services is subject to the attached Statement of Limitations and Conditions.

This Report uses the International System of Units (SI Units).

1.1 Scope of Work

The Phase I ESA was conducted in accordance with the general components of CSA Standard Z768-01 *Phase I Environmental Site Assessment* (April 2003, reaffirmed in 2022), and involved the following tasks:

- Provide a general description of the Site;
- Conduct a desktop review of various historical records pertaining to the Site and surrounding properties to obtain an understanding of the Site, and past and present uses, conditions and activities within the Phase I Study Area;
- Conduct a Site reconnaissance to observe existing property uses and conditions at the Site, and a reconnaissance of the Phase I Study Area from publicly-accessible areas;

- Conduct an interview with the Site Representative for the Phase I Property to gain an understanding of the current and historical Site uses, and activities that may result in potential sources of contamination within the Site;
- Review and evaluate the findings of the records review, interview, and the Site reconnaissance to identify past and present activities on the Site and the surrounding properties that are considered to be potential sources of contamination that may impact the Site or have the potential for contaminant migration onto the Site; and,
- Prepare this report documenting the activities, findings and conclusions of the Phase I ESA.

2. SITE DESCRIPTION

The Phase I Site comprised an irregularly shaped portion of the overall property with the property identification number (PIN) 14329-0248 (LT), located on Toronto and Region Conservation Authority (TRCA) lands, that was approximately 390 m long and up to 80 m wide, located adjacent to the southeast of Emil Kolb Parkway, in the Town of Caledon (Bolton), Ontario. At the time of the Site Reconnaissance, the Site was observed to be vacant land with evidence of the former community land use (fill embankment from the historical Duffy's Lane roadway) noted through the central portion of the Site.

3. RECORDS REVIEW

A records review was conducted by obtaining and reviewing the following information pertaining to the Site and surrounding properties located within the Phase I Study Area:

- Aerial photographs pertaining to the Site and surrounding properties;
- Fire Insurance Plans (FIPs) from Verisk;
- Title Searches and Land Registry information obtained from ERIS and the Ontario Land Registry Office;
- City Directory report from ERIS;
- An ERIS Database Report, which included searches of various federal, provincial and private source databases for records of potential environmental concern such as spills, former waste disposal sites, registration of underground/aboveground fuel storage tanks and environmental infractions;
- Previous Environmental Reports; and
- Various topographic, geologic and hydrogeologic maps pertaining to the Site and the surrounding Phase I Study Area.

3.1 Aerial Photographs

Aerial photographs were reviewed from an ERIS search which referenced several databases, and were supplemented with aerial imagery from Google Earth Pro. The available aerial photographs were reviewed on an approximate 10 to 15-year interval from the earliest available year, 1946. The reviewed photographs are attached in Appendix B. A description of the observations made on the aerial photographs are provided in the following table.

The scale of the photographs typically did not permit a detailed study of the Site and surrounding properties; however, the following observations were made with respect to the general land use and activities on the Site and in the surrounding properties within the Study Area, as presented in the following table.

Table 3-1: Relevant Findings from Aerial Photographs

Aerial Photograph Observations		
Year	**Phase I Property**	**Surrounding Properties**
1946	The site appeared to primarily consist of agricultural and residential lands. A rural roadway (Duffy's Lane) was observed to intersect the Site. Several possible residential buildings (including a private access road/driveways) were observed within the Site.	Properties within the Phase I Study Area appeared to comprise agricultural/residential lands, and vacant or undeveloped lands (Humber River), with occasional residential and/or agricultural buildings observed within the Phase I Study Area. A rural roadway (Duffy's Lane) was observed to intersect the Site, and extended to the north, and to the west of the Site.
1951	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1946.
1960	No significant changes to the Site were observed since the 1946 photograph.	No significant changes observed since 1946.
1974	Several residential type buildings that were previously observed within the Site appeared to have been removed and the properties appeared to have been graded and cleared of trees.	Several residential type buildings that were observed within Phase I Study Area near the Site appeared to have been removed and the properties appeared to have been graded and cleared of trees.
1985	No significant changes to the Site were observed since the 1974 photograph.	No significant changes observed since 1974.
1995	The alignment of Duffy's Lane appeared to have been altered and widened. The realigned roadway appeared to traverse through the entire Site in a north-south orientation.	The alignment of Duffy's Lane within the Study Area appeared to have been altered and widened. A new bridge structure associated with the roadway was observed to cross over the

Aerial Photograph Observations		
Year	**Phase I Property**	**Surrounding Properties**
		Humber River, adjacent to the southwest of the Site.
2005	No significant changes to the Site were observed since the 1995 photograph.	No significant changes observed since 1995.
2015	A new roadway alignment (consistent with the present-day alignment of Emil Kolb Parkway) appeared to have been constructed adjacent to the west of the Site. The paved surface of the previous Duffy's Lane roadway appeared to have been removed, however, possible fill materials from the previous roadway appeared to remain within the Site.	A new roadway alignment (Emil Kolb Parkway) appeared to have been constructed which extended through the Phase I Study Area in a north-south orientation, to the west of the Site.
2022	No significant changes to the Site were observed since the 2015 photograph.	No significant changes observed since 2015.

A review of the aerial photographs indicated that the Site has been used for historical residential/agricultural land uses, community uses (roadways) and vacant lands. Review of the earliest available aerial photograph shows several residential and/or agricultural-type buildings were formerly located within the Site, and roadways appeared to intersect several portions of the Site. The residential/agricultural buildings appeared to have been removed, and the majority of the site was cleared and returned to a greenfield state. Potential sources of contamination include the potential application of pesticides to historical agricultural fields, importation of fill materials of unknown environmental quality for the construction of the roadways within the Site, and the potential for fuel oil use as a heating source at the residential/agricultural buildings historically located within the Site.

3.2 Fire Insurance Plans

Fire Insurance Plans (FIPs) for the Site were ordered through ERIS and completed by Verisk. The search returned no FIPs within the Site or neighboring Properties. A copy of the Verisk EnviroScan Report is included in Appendix C.

3.3 Chain of Title and Land Registry Information

Based on a review of the available chain of title and land registry information, the overall property was transferred from Crown Land to a private owner in 1835. Various private land owners were reported between 1835 to 1930. After 1930 the land was sold and transferred between several realty groups and additional private owners. The lands were sold to the Toronto and Region Conservation Authority (TRCA) in 1962. The land is currently owned by the TRCA. The Chain of Title and Land Registry documents for the Site are included in Appendix D.

3.4 City Directories

A search of City Directories for the Site and the Phase I Study Area was conducted by ERIS at the request of Thurber. In addition to the Site and Phase I Study Area, the City Directory Report includes information for a larger Study Area (beyond the limits of the Site and the Phase I Study Area) that included the proposed water and sewer infrastructure alignments for the overall Bolton Water and Wastewater Capacity Improvements Project. There were no relevant findings from the City Directory Report that resulted in the identification of potential sources of contamination within the Phase I Property. The City Directory search results are presented in Appendix E.

3.5 ERIS Database Report

A Database Report was obtained from ERIS to collect environmental source information for the Phase I Property, and surrounding properties within the Phase I Study Area. In addition to the Site and Phase I Study Area, the ERIS Database Report includes information for a larger Study Area (beyond the limits of the Site and the Phase I Study Area) that included the proposed water and sewer infrastructure alignments for the overall Bolton Water and Wastewater Capacity Improvements Project. The ERIS Database Report, which is presented in Appendix F, includes information collected from a search of available databases maintained by federal, provincial institutions and the private sector, including the Technical Standards and Safety Authority (TSSA). There were no relevant findings from the ERIS Database Report that resulted in the identification of potential sources of contamination within the Phase I Property.

3.6 Previous Reports

No previous environmental reports for the Phase I Property or surrounding properties within the Phase I Study Area were made available by the Client for Thurber to review. However, Thurber also completed an Assessment of Past Uses (APU) Report in support of the overall Bolton Water and Wastewater Capacity Improvements Class EA Assessment. The APU is presented under separate cover. Pertinent information from the report is summarized as follows:

- Observations made from historical aerial photos identified that various residential and agricultural properties were formerly located within the Phase I Property, and on adjacent properties within the Phase I Study Area. A former roadway (Duffy's Lane) was also observed to traverse through the Phase I Property. During the Site Reconnaissance evidence of the former Duffy's Lane roadway was observed in the form of a large fill embankment that generally appeared to follow the historical roadway alignment. No evidence of the former agricultural or residential property uses were observed during the Site Reconnaissance.

3.7 Topography, Hydrogeology, Geology

A topographic map was obtained and reviewed from The Atlas of Canada – Toporama, presented by Natural Resources Canada and supplemented with elevations presented in Google Earth Pro. A copy of the map is presented in Appendix G, which indicates that the ground surface within Phase I Property generally sloped down to the south from a maximum Elevation 245 m above sea level (masl) near the northern limits of the Site, to Elevation 225 masl at the southern limits of the Site near the Humber River.

The closest surface waterbody to the Site was the Humber River, which was observed adjacent to the south of the Site, and appeared to meander around the Phase I Property in a general u-shape. The Humber River was observed to flow in a general southeasterly direction. The inferred groundwater flow direction is southerly/southeasterly towards the Lake Ontario.

The regional physiography, geology and bedrock characteristics were reviewed from the maps provided by OGS Earth that were compiled by the Mines and Minerals Division of the Ministry of Energy, Northern Development and Mines. The maps are available to download from the Ministry's website and to view in Google Earth.

The Phase I Property is located within the Physiographic Region described as the South Slope which is generally comprised of drumlinized till plains. The surficial geology within the Site was described as clay to silt textured till derived from glaciolacustrine deposits or shale. Modern alluvial deposits comprised of clay, silt, sand, gravel and possible organics were reported along the Humber River. The underlying bedrock is mainly comprised of shale and limestone of the Georgian Bay Formation.

4. INTERVIEWS

An interview questionnaire was provided to the TRCA by the Client. Ms. Stella Ku, Property Agent of the TRCA provided a response as the Site Representative for the SPS Site.

Based on the interview questionnaire responses, no pertinent findings that resulted in the identification of potential sources of contamination were identified within the Phase I Property.

The Site Representative was not aware of previous environmental investigations, site assessments, asbestos containing material (ACM) surveys, the historical timeline of the uses of the site. The Site Representative was not aware of any existing buildings (and therefore no heating or cooling systems were present), below grade structures, current or historical tanks, wells, septic systems, or municipal services (watermains, sewers, gas lines etc.), easements,

spills, discharges that were located within the SPS Site. The Site Representative was not aware of past soil removals, soil treatments or remedial activities at the Site.

5. SITE RECONNAISSANCE

5.1 General

A reconnaissance of the Site and Phase I Study Area was conducted on November 28, 2024 by a Thurber representative, Mr. John Zoldy P.Eng., QP_{ESA}. The Site visit was conducted after a general review of the historical records and was focused on the surrounding properties that may contain potential sources of contamination. At the time of the Site visit, the weather was sunny to overcast, 6°C and the ground surfaces were dry and clear. Select photographs of the Site and surrounding properties are included in Appendix H.

5.2 Timing

Preliminary information obtained from the historical records review was considered prior to conducting the Site reconnaissance which allowed specific areas of the Site and adjacent properties to be targeted as part of the assessment.

5.3 Methodology

The Site reconnaissance was conducted through observations at the Site, and of surrounding properties from publicly accessible sidewalks and roadways.

5.4 Limitations

The Site Reconnaissance was limited to exterior observations of the Site and surrounding properties, made from publicly accessible locations.

5.5 Site Reconnaissance Observations

Table 5-1: Site Reconnaissance Observations

Topic	Observations
Property Use and Structures	The Site was observed to be vacant land with evidence of the former community use (fill embankment from the historical roadway) noted through the central portion of the Site. A small, covered trail map kiosk was observed in the southern portion of the Site. No other building structures were observed on the Site at the time of reconnaissance.
Hazardous Materials	None identified.
Unidentified Substances	None identified.

Topic	Observations
Aboveground and Underground Storage Tanks	None identified. However, based on information obtained during the completion of the Assessment of Past Uses prepared for the overall Class EA Assessment of the Bolton Water and Wastewater Capacity Improvements (provided under separate cover), residential properties in the area historically utilized fuel oil as a heating source. It is possible that the historical building located within the Site utilized fuel oil as a heating source.
Storage Containers	None identified.
Odours	None identified.
Potable Water Supply	None identified within the Site. Residential properties within the Phase I Study Area appeared to be serviced by domestic water supply wells.
Special Attention Items	None identified.
Interior Observations	No buildings were observed within the Site.
Exterior Observations	
General	The Site was observed to be vacant land with evidence of the former community use (fill embankment from the historical Duffy's Lane roadway) noted through the central portion of the Site.
Observations of Neighboring Properties	North • Properties to the north of the Site primarily consisted of vacant lands surrounding the Humber River. Portions of the Emil Kolb Parkway (roadway) extended in a general northerly direction within the Study Area. East • Properties to the east of the Site primarily consisted of vacant lands surrounding the Humber River. South • Properties to the south of the Site primarily consisted of vacant lands surrounding the Humber River. Portions of the Emil Kolb Parkway (roadway) extended in a general southerly direction within the Study Area. West • The Emil Kolb Parkway road ROW was located adjacent to the west of the Phase I Property. Asphalt paved multi-use paths were observed adjacent to the travelled roadway.
Topographic, Geologic, and Hydrogeologic Conditions	The ground surface was observed to generally slope down to the south from a topographic high near the northern limits of the Phase I Site, down to a topographic low at the southern limits of the Site near the Humber River. Localized variations to the ground surface topography were observed along the alignment of the former Duffy's Lane roadway, where a fill embankment was observed. Slope relief to the east and west was observed along the embankment. The ground surface generally consisted of topsoil and vegetation.

Topic	Observations
General description of Structures	No buildings were observed within the Site. A trail map kiosk for the Humber River Trail was observed within the southern portion of the Site. The structure comprised two wooden posts with a small, covered overhang “roof”.
Wells	No water supply or monitoring wells were observed within the Site.
Utilities and Sewage Works	None identified.
Pits and Lagoons	None identified.
Stained Materials	None identified.
Stressed Vegetation	None identified.
Fill	A fill embankment was observed within the proposed SPS Site property that appeared to be related to the historical alignment of Duffy’s Lane. Small stockpiles of asphalt and granular materials were observed to the south of the Site on the overall TRCA Lands. The asphalt and granular appeared to be excess materials from the multi-use path construction along the Humber River.
Waste Water	None identified.
Watercourses, Ditches, or Standing Water	The Humber River was observed adjacent to the south of the Site, and appeared to meander around the Phase I Property in a general u-shape. The Humber River was observed to flow in a general southeasterly direction.
Roads, Parking Facilities, and Rights of Way	Evidence of the historical Duffy’s Lane roadway (i.e., fill material embankment) was observed through the central portion of the Site. The bridge structure for the former Duffy’s Lane over the Humber River was observed to the southwest of the Site, and appeared to be used in connection with the multi-use paths along the Humber River.

6. FINDINGS

The Phase I ESA involved a desktop review and summary of available historical records, and included aerial photographs, fire insurance plans and federal, provincial and private environmental databases, geologic maps, well records, and the completion of an interview questionnaire provided by the Site Representative. The Site Reconnaissance included a visual assessment and walkthrough of the Site, and observations of the Phase I Study Area from publicly accessible locations.

The collective information was used to assess and evaluate past and present property uses, conditions and activities at the Site and within the Phase I Study Area to identify potential sources of contamination that may have a potential risk to impact the subsurface conditions at the Site.

The findings of the Phase I ESA indicated that the Site has been used for a variety of land uses including potential agricultural lands, residential properties, community uses (i.e., historical

Duffy's Lane roadway), and vacant uses. With respect to the Phase I Study Area, the surrounding properties were historically used in connection with residential and agricultural properties, and at the time of the Site Reconnaissance generally consisted of vacant lands surrounding the Humber River, and community use lands (i.e., Emil Kolb Parkway).

Potential sources of contamination have been identified at the Site and within the Phase I Study Area. Potential sources of contamination that are applicable to the Site involve the presence of potential pesticides that were applied to the historical agricultural fields, importation of fill materials of unknown environmental quality for the adjacent Emil Kolb Parkway, and for the historical Duffy's Lane Roadway alignments, and the potential for fuel oil storage and use as a heating source for the historical (former) residential/agricultural buildings.

6.1 Evaluation of Findings

The following factors were considered by Thurber to evaluate if historical and current activities at the Site and within the Phase I Study Area are identified as potential sources of contamination that may impact the soil and groundwater underlying the Site:

- Property use (i.e., agricultural/other, residential, parkland, institutional, industrial, commercial or community);
- Magnitude and nature of the activity (i.e., volume of spills, anticipated quantities of waste generation, presence of ASTs or USTs, quantities of PCB storage, anticipated housekeeping practices, age of facility / operation, etc.);
- Location (i.e., hydraulically upgradient or downgradient from the Site);
- Contaminant characteristics (i.e., toxicity, mobility in the subsurface, etc.);
- Contaminant migration potential (i.e., soil stratigraphy, depth to groundwater, vapour intrusion, etc.); and,
- Exposure (i.e., anticipated receptor and distance from potential sources of contamination, transport pathways, residence time of contaminant in the subsurface, etc.).

Based on the above-referenced criteria, the past and present activities on the Site and the surrounding properties that are considered as potential sources of contamination that may impact the subsurface conditions at the Site, their interpreted level of risk and associated contaminants of potential concern (COPCs) are listed in the following table and are presented on Drawing 48561-3 in Appendix A.

Table 6-1: Potential Sources of Contamination

Summarized Potential Sources of Contamination						
PSC #	**PSC Location**	**Source**	**Potential Sources of Contamination**	**Potential Contaminants of Concern**	**Area on Site**	**Risk Rating**
1	Entire Site	Aerial Photos	Possible application of pesticides to agricultural fields	M&I, OC Pesticides	Entire Site	Moderate
2	Entire Site	Site visit, Aerial Photos	Importation of fill materials of unknown quality	M&I, PHCs/BTEX, PAHs	Entire Site	Moderate
3	Entire Site	Aerial Photos	Potential storage and use of fuel oil as a heating source for the former buildings on Site	M&I, PHCs/BTEX, VOCs, PAHs	Eastern portion of the Site	Moderate

7. CONCLUSIONS

Based on the review and evaluation of information obtained through the Phase I ESA, historical activities were identified on-Site and within the Phase I Study Area for the Site that are considered potential sources of contamination that may impact the subsurface conditions at the Site.

The identified potential sources of contamination include the presence of potential pesticides that were applied to the historical agricultural fields, importation of fill materials of unknown environmental quality used to construct the historical roadway that previously traversed the Site (Duffy's Lane), and the potential for fuel oil storage and use as a heating source at the historical residential/agricultural buildings in the Phase I Study Area. In addition, impacts associated with the use of the adjacent Emil Kolb Parkway roadway (i.e. potential fill materials of unknown environmental quality, application of de-icing salts, and minor vehicle fluid leakage) were considered.

A subsurface investigation (i.e., Phase II ESA) involving sampling and analysis of soil and groundwater across the Phase I Property will be required to confirm or refute the presence of contamination from the identified potential sources of contamination at the site, and potential sources of contamination on surrounding properties within the Phase I Study Area. The Phase II ESA will target the collection of soil and groundwater samples within the excavation depths for the proposed construction works.

8. CLOSURE AND SIGNATURES

We trust that this report provides the information you require at this time. If you have any questions, please contact the undersigned at your earliest convenience.

THURBER ENGINEERING LTD.



John Zoldy, P.Eng., QP_{ESA}
Associate, Environmental Engineer



Renato Pasqualoni, P.Eng., QP_{ESA}
Review Engineer

THURBER

STATEMENT OF LIMITATIONS AND CONDITIONS

1. STANDARD OF CARE

This Report has been prepared in accordance with generally accepted engineering or environmental consulting practices in the applicable jurisdiction. No other warranty, expressed or implied, is intended or made.

2. COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report, which is of a summary nature and is not intended to stand alone without reference to the instructions given to Thurber by the Client, communications between Thurber and the Client, and any other reports, proposals or documents prepared by Thurber for the Client relative to the specific site described herein, all of which together constitute the Report.

IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. THURBER IS NOT RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT.

3. BASIS OF REPORT

The Report has been prepared for the specific site, development, design objectives and purposes that were described to Thurber by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the Report, subject to the limitations provided herein, are only valid to the extent that the Report expressly addresses proposed development, design objectives and purposes, and then only to the extent that there has been no material alteration to or variation from any of the said descriptions provided to Thurber, unless Thurber is specifically requested by the Client to review and revise the Report in light of such alteration or variation.

4. USE OF THE REPORT

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT THURBER'S WRITTEN CONSENT AND SUCH USE SHALL BE ON SUCH TERMS AND CONDITIONS AS THURBER MAY EXPRESSLY APPROVE. Ownership in and copyright for the contents of the Report belong to Thurber. Any use which a third party makes of the Report, is the sole responsibility of such third party. Thurber accepts no responsibility whatsoever for damages suffered by any third party resulting from use of the Report without Thurber's express written permission.

5. INTERPRETATION OF THE REPORT

a) Nature and Exactness of Soil and Contaminant Description: Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature. Comprehensive sampling and testing programs implemented with the appropriate equipment by experienced personnel may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and the Client and all other persons making use of such documents or records with our express written consent should be aware of this risk and the Report is delivered subject to the express condition that such risk is accepted by the Client and such other persons. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. If special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

b) Reliance on Provided Information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to Thurber. Thurber has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, Thurber does not accept responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of the Client or other persons providing information relied on by Thurber. Thurber is entitled to rely on such representations, information and instructions and is not required to carry out investigations to determine the truth or accuracy of such representations, information and instructions.

c) Design Services: The Report may form part of design and construction documents for information purposes even though it may have been issued prior to final design being completed. Thurber should be retained to review final design, project plans and related documents prior to construction to confirm that they are consistent with the intent of the Report. Any differences that may exist between the Report's recommendations and the final design detailed in the contract documents should be reported to Thurber immediately so that Thurber can address potential conflicts.

d) Construction Services: During construction Thurber should be retained to provide field reviews. Field reviews consist of performing sufficient and timely observations of encountered conditions in order to confirm and document that the site conditions do not materially differ from those interpreted conditions considered in the preparation of the report. Adequate field reviews are necessary for Thurber to provide letters of assurance, in accordance with the requirements of many regulatory authorities.

6. RELEASE OF POLLUTANTS OR HAZARDOUS SUBSTANCES

Geotechnical engineering and environmental consulting projects often have the potential to encounter pollutants or hazardous substances and the potential to cause the escape, release or dispersal of those substances. Thurber shall have no liability to the Client under any circumstances, for the escape, release or dispersal of pollutants or hazardous substances, unless such pollutants or hazardous substances have been specifically and accurately identified to Thurber by the Client prior to the commencement of Thurber's professional services.

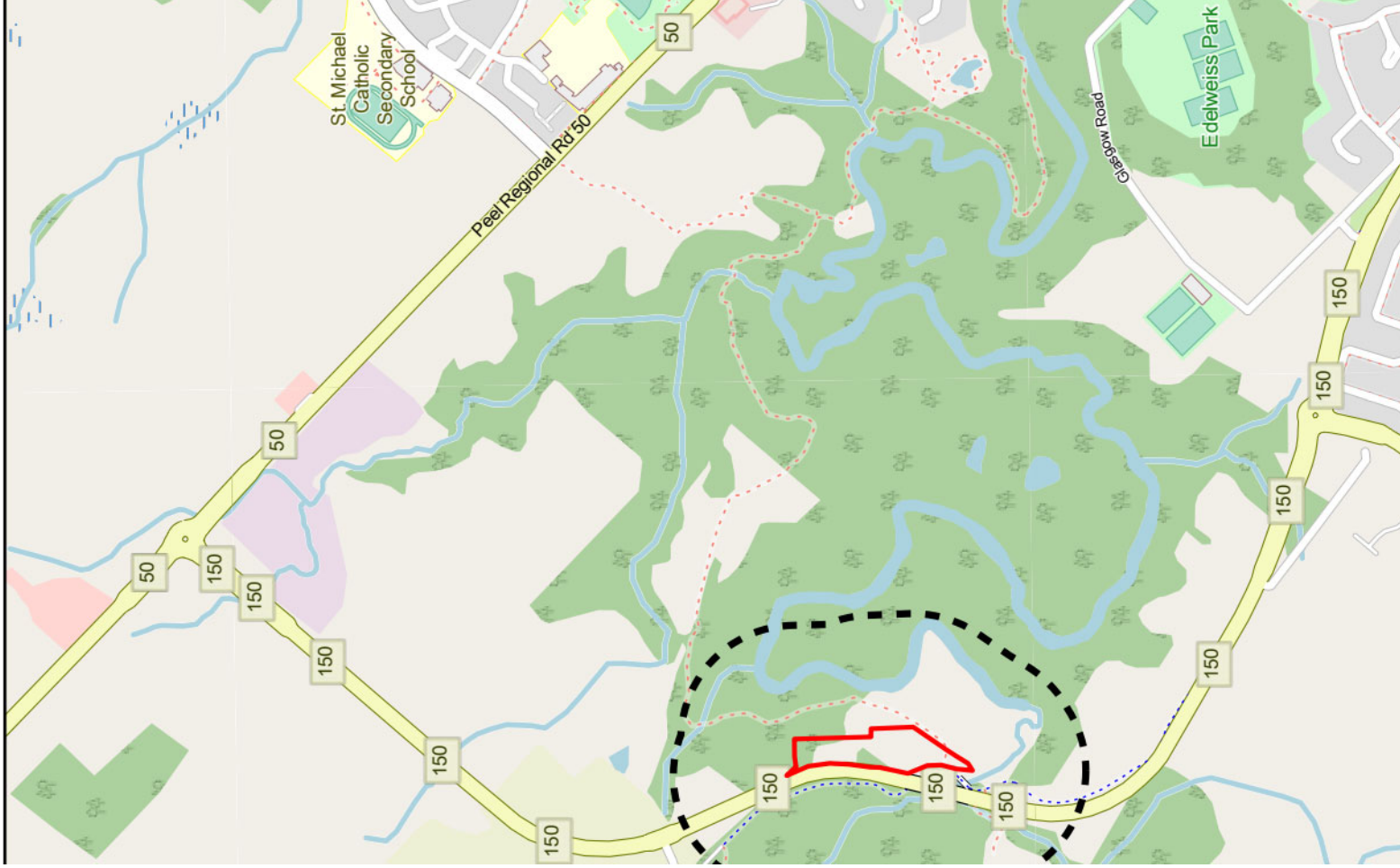
7. INDEPENDENT JUDGEMENTS OF CLIENT

The information, interpretations and conclusions in the Report are based on Thurber's interpretation of conditions revealed through limited investigation conducted within a defined scope of services. Thurber does not accept responsibility for independent conclusions, interpretations, interpolations and/or decisions of the Client, or others who may come into possession of the Report, or any part thereof, which may be based on information contained in the Report. This restriction of liability includes but is not limited to decisions made to develop, purchase or sell land.

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APPENDIX A

Drawings


St. Michael Catholic Secondary School
Peel Regional Rd
50
Glasgow Road
Edelweiss Park
150

VACANT (FORMER AGRICULTURAL)
VACANT (FORMER AGRICULTURAL/ RESIDENTIAL/ COMMUNITY [ROAD])
Humber River (rivière Humber)
4900278
7223051
EMIL KOLB PARKWAY


Humber River
(rivière
Humber)
3
2
1
2
3
1
2
3
EMIL KOLB PARKWAY

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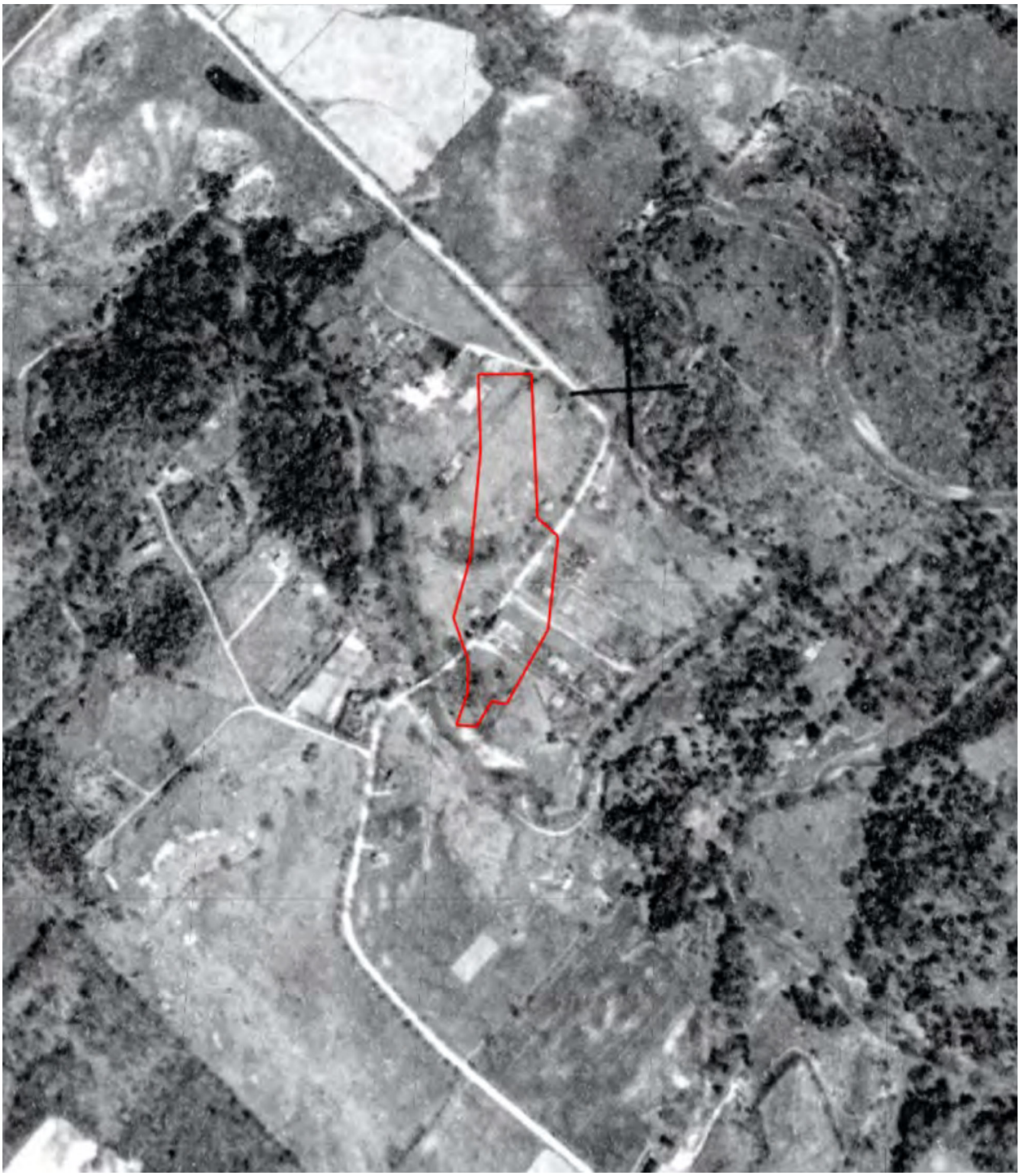
APPENDIX B

Aerial Photographs



Year: 1946

Source: ERIS



Year: 1951

Source: ERIS



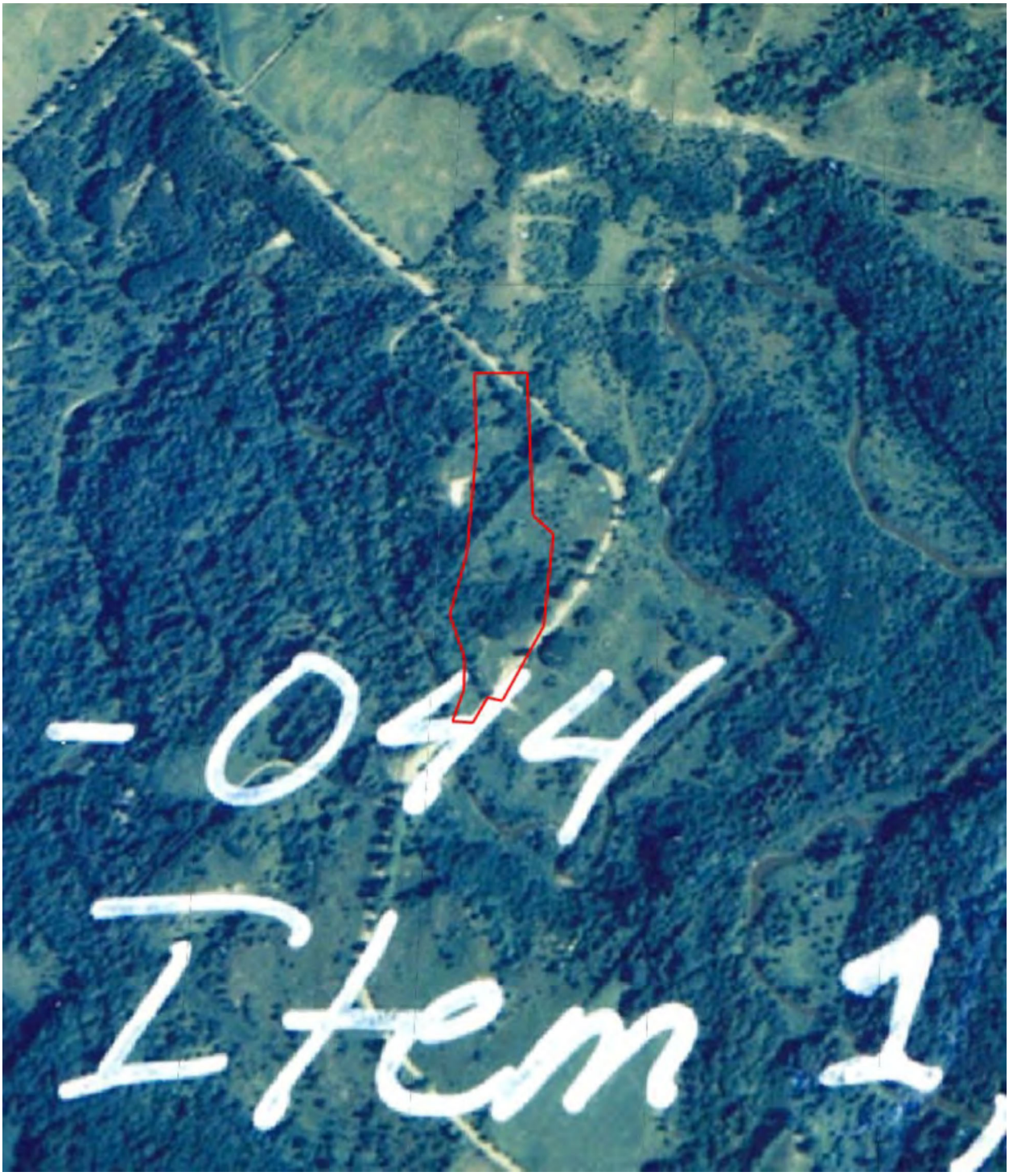
Year: 1960

Source: ERIS



Year: 1974

Source: ERIS



Year: 1985

Source: ERIS



Year: 1995

Source: ERIS



Year: 2005

Source: Google Earth Pro



Year: 2015

Source: Google Earth Pro



Year: 2022

Source: ERIS

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APPENDIX C

Fire Insurance Plans

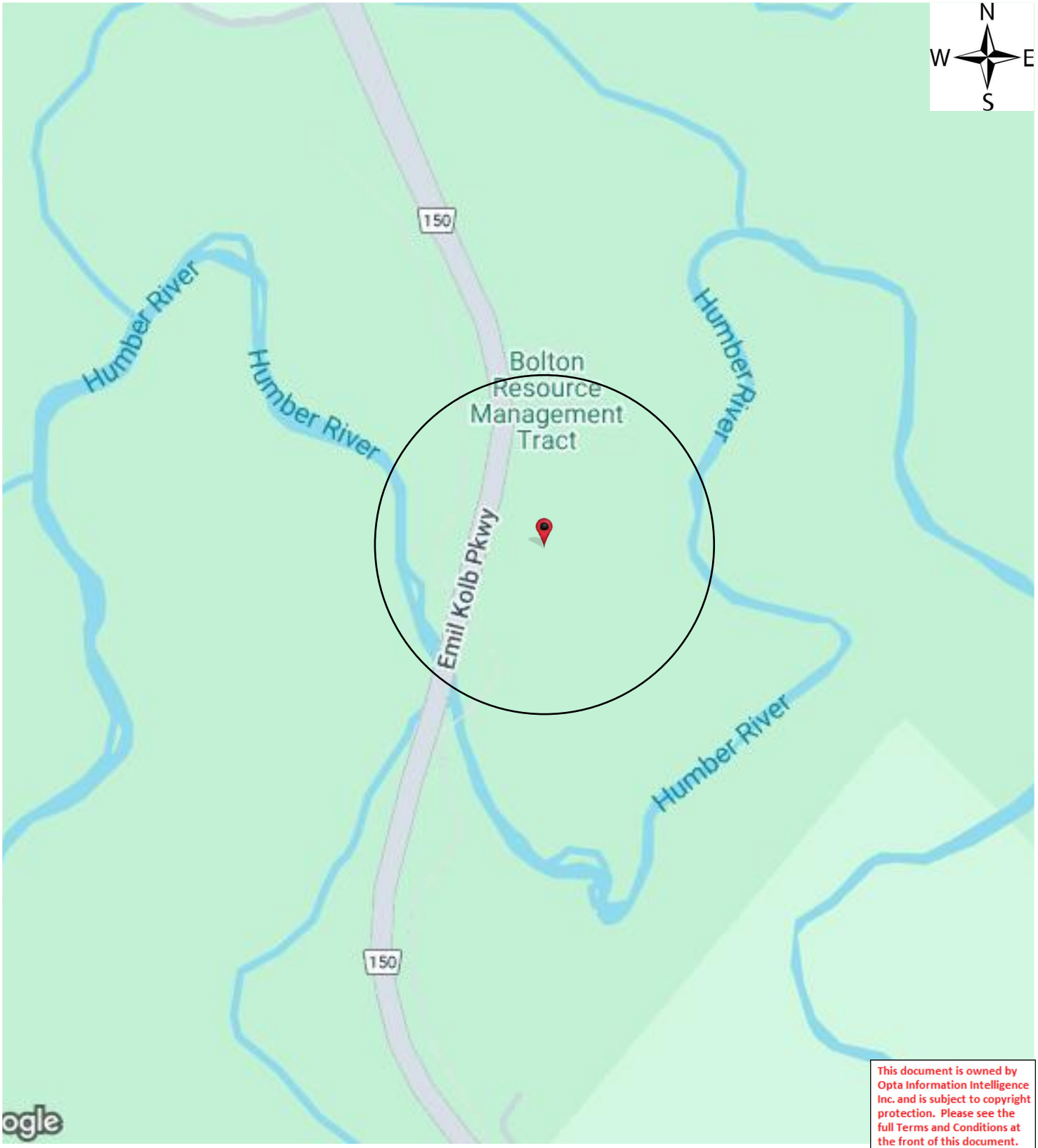
Enviroscan Report

Site address:	Kleinburg Station, ON
Project #:	25031400047
P.O. #:	156980
Requested by:	Eleanor Goolab
Date Completed:	3/20/2025 1:37:34 PM

CONFIDENTIAL

Project #: 25031400047 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:37:34

Search Area: Kleinburg Station, ON



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Project #: 25031400047 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:37:34

Historical Environmental Services Enviroscan Terms and Conditions

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 Verisk's records relating to the described property (hereinafter referred to as the "Property"). Verisk 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 Verisk'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. Verisk does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

Project #: 25031400047 | P.O. #: 48561
Requested by: Eleanor Goolab | Date Completed: 03/20/2025 13:37:34

No Records Found

Office

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

1.877.244.9437

optaintel.ca



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APPENDIX D

Chain of Title and Land Registry Information

CHAIN OF TITLE REPORT

Project #: 25031200162
Address: N/S Maple Trail, Bolton
Legal Description: Part Lot 12 Con 5 Albion

Searched at: Brampton
LRO #: 43

PIN #: 14329-0248 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (100 Acres - E1/2)	31 08 1835	Crown	**John SHORE**
28949	Deed	01 04 1847	John Shore	Robert SHORE
1418	Deed	24 02 1855	Robert Shore	George ELLIOTT, Sr.
2458	Deed	22 01 1880	George Elliott, Sr.	George ELLIOTT, Jr.
13160	Deed	10 04 1929	George Elliott, Jr. - Estate	Frank P. TEFFT
3266	Deed	14 02 1930	Frank P. Tefft	Bertram Realty Company Lin
14508	Deed (Chain 1)	20 05 1943	Bertram Realty Company Limited	Georgina P. THOMPSON
16690	Deed (Chain 2)	05 07 1954	Bertram Realty Company Limited	Marion HULL
16727	Deed	17 08 1954	Marion Hull	Joseph TITUS & Natalie TITU

Cont'd on Page 2

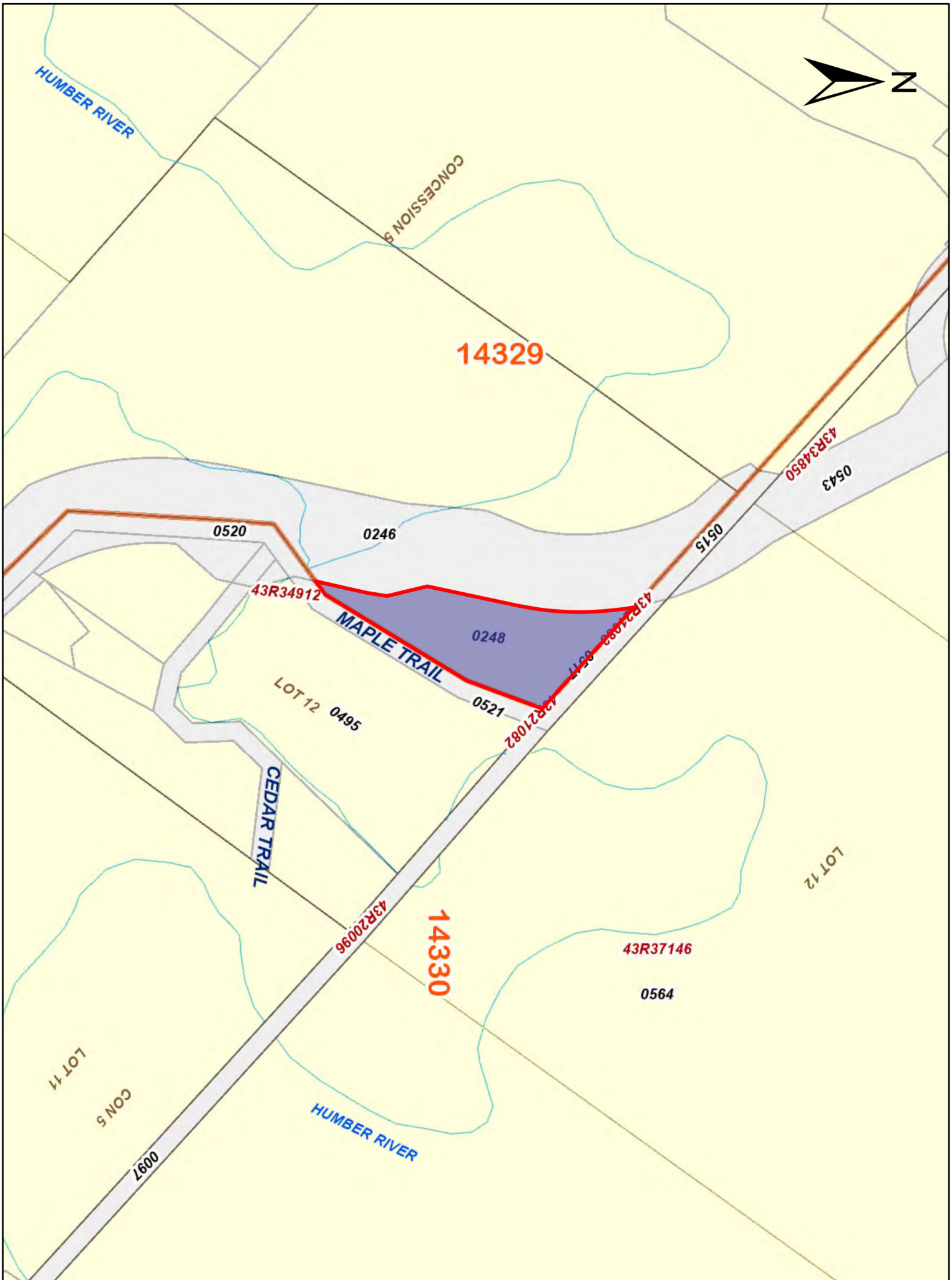
CHAIN OF TITLE REPORT

Project #: 25031200162
Address: N/S Maple Trail, Bolton
Legal Description: Part Lot 12 Con 5 Albion

Searched at: Brampton
LRO #: 43

PIN #: 14329-0248 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
18147	Deed	27 06 1958	Joseph Titus Natalie Titus	Herbert CHILDS Edna CHILDS
AL20331	Deed	12 11 1962	Herbert Childs Edna Childs	The Metropolitan Toronto an Region Conservation Autho
AL20913	Deed	16 10 1963	Georgina P. Thompson	The Metropolitan Toronto an Region Conservation Autho
PR2359273	Name Change **(Present Owner)**	23 04 2013	The Metropolitan Toronto and Region Conservation Authority	**Toronto and Region Cons**


N
HUMBER RIVER
CONCESSION 5
14329
0520
0246
43R34912
0543
43R34850
0515
MAPLE TRAIL
0248
0521
LOT 12
0495
CEDAR TRAIL
43R21082
43R20096
14330
43R37146
0564
LOT 12
LOT 11
CON 5
0097
HUMBER RIVER

PROPERTY DESCRIPTION: PT LT 12 CON 5 (ALB); TOWN OF CALEDON

PROPERTY REMARKS:

ESTATE/QUALIFIER:	RECENTLY:	PIN CREATION DAT
FEE SIMPLE LT CONVERSION QUALIFIED	DIVISION FROM 14329-0119	2013/04/30

OWNERS' NAMES	CAPACITY	SHARE
TORONTO AND REGION CONSERVATION AUTHORITY	BENO	

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES T
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2013/04/30 **					
**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: 1999/06/22 **					
AL20331	1962/11/12	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGI
	REMARKS: SKETCH ATTACHED				
	CORRECTIONS: 'TRANSFEREE' CHANGED FROM 'THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHROITY' TO 'THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY' ON 1999/06/10 BY LAND REGISTRAR # 6.				
AL20463	1963/01/25	TRANSFER	$30,000		THE METROPOLITAN TORONTO AND REGI
	REMARKS: SKETCH ATTACHED				
AL20491	1963/02/15	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGI
	REMARKS: SKETCH ATTACHED				
AL20528	1963/03/13	TRANSFER	$2,750		THE METROPOLITAN TORONTO AND REGI
	REMARKS: SKETCH ATTACHED				
AL20530	1963/03/14	TRANSFER	$7,150		THE METROPOLITAN TORONTO AND REGI
	REMARKS: SKETCH ATTACHED				
AL20613	1963/05/03	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGI

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPE
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES T
	REMARKS: SKETCH ATTACHED				
AL20806	1963/08/06	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL20913	1963/10/16	TRANSFER	$6,200		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL20956	1963/10/31	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL20990	1963/11/15	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL21014	1963/11/28	TRANSFER	$1		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL21170	1964/03/24	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL21229	1964/04/28	TRANSFER	$7,500		THE METROPOLITAN TORONTO AND REGIO
AL21367	1964/07/24	TRANSFER	$9,700		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL21403	1964/08/14	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL21478	1964/10/08	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
	CORRECTIONS: 'TRANSFEREE' CHANGED FROM 'THE METROPLITAN TORONTO AND REGION CONSERVATION AUTHORITY' TO 'THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY' ON 1999/06/10 BY LAND REGISTRAR # 6.				
AL21507	1964/10/28	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL21549	1964/11/09	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL21919	1965/05/20	TRANSFER	$7,200		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES T
AL22089	1965/08/04	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
AL22090	1965/08/04	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED.				
VS507	1966/01/10	TRANSFER	$3,500		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
VS29931	1967/01/12	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
VS40123	1967/05/25	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
VS64623	1968/02/02	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
VS65235	1968/02/09	TRANSFER	$1		THE METROPOLITAN TORONTO AND REGIO
VS65237	1968/02/09	TRANSFER	$1		THE METROPOLITAN TORONTO AND REGIO
VS85242	1968/09/26	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED.				
VS152224	1970/10/09	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
VS234627	1972/10/20	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
VS240297	1972/11/30	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	CORRECTIONS: 'TRANSFEREE' CHANGED FROM 'THE METROPOLITAN TORONTO AND REGION CONVERATION AUTHORITY' TO 'THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY' ON 1999/06/10 BY LAND REGISTRAR # 6.				
VS244508	1973/01/04	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
	REMARKS: SKETCH ATTACHED				
VS293645	1973/12/10	QUIT CLAIM TRNSFR	$2		THE METROPOLITAN TORONTO AND REGIO
RO441361	1977/08/03	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES T
RO702994	1985/01/11	TRANSFER	$2		THE METROPOLITAN TORONTO AND REGIO
43R20096	1993/10/25	PLAN REFERENCE			
PR2359273	2013/04/23	APL CH NAME OWNER		THE METROPOLITAN TORONTO AND REGION CONSERVATION AUTHORITY	TORONTO AND REGION CONSERVATION AU

THURBER

APPENDIX E

City Directory Report

ERIS

CITY DIRECTORY

Project Property:	*48561 Bolton EA* *n/a* *Caledon,ON*
Project No:	*48561*
Requested By:	*Thurber Engineering Ltd*
Order No:	*24112100344*
Date Completed:	*November 29, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.

November 29, 2024
RE: CITY DIRECTORY RESEARCH
n/a
Caledon,ON

Thank you for contacting ERIS regarding our City Directory Search services. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. When searching a range of addresses, all civic addresses within that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on highly developed areas, while newly developed areas may be covered in the more recent years, older directories tend to cover only "central" parts of the city. To complete the search, we have either utilized the Toronto Reference Library, Library & Archives Canada and multiple digitized directories. While these do not claim to be a complete collection of all reverse listing city directories produced, ERIS has made every effort to provide accurate and complete information. ERIS shall not be held liable for missing, incomplete, or inaccurate information. If you believe there are additional addresses or streets that require searching, please contact us.

Search Criteria:

9100-9730 of Columbia Way

14000-14575 of Duffys Lane

14000-14300 of Emil Kolb Parkway

14000-14820 of Highway 50

13900-14560 of Mt Hope Road

Search Notes:

Emil Kolb Parkway is also known as Peel Regional Road 150 in Bolton. Highway 50 is also known as Queen Street N in Bolton.

Search Results Summary

Data from 2012 to 2017 does not include residential information

Date	Source	Comment
2023	DIGITAL BUSINESS DIRECTORY	
2021	DIGITAL BUSINESS DIRECTORY	
2017	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	COLE	
2000-01	POLKS	
1995-96	MIGHTS	
1991	MIGHTS	
1985	MIGHTS	
1981	MIGHTS	
1975	MIGHTS	
1970-71	MIGHTS	
1966	MIGHTS	
1958	MIGHTS	

2023 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **JUST CATERING**...*CATERERS*
9130 **ST MICHAEL**...*SCHOOLS*
9706 **J CHABLUK**...*RESIDENTIAL*
9726 **A DISCENZA**...*RESIDENTIAL*

2023 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*CONSTRUCTION COMPANIES*
14068 **CALEDON CONTRACTING LTD**...*FEDERAL GOVERNMENT CONTRACTORS*
14068 **K CARLYON**...*RESIDENTIAL*

2023 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

14096 **A KARALASINGAM**...*RESIDENTIAL*
14105 **RICHARD ABEL**...*RESIDENTIAL*
14114 **A DEVITA**...*RESIDENTIAL*
14114 **C GONCALVES**...*RESIDENTIAL*

2023 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **MR SUB**...*FOODS-CARRY OUT*
14111 **MR SUB**...*RESTAURANTS*
14118 **A ZIMMER**...*RESIDENTIAL*
14118 **J GILLESPIE**...*RESIDENTIAL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*RECREATIONAL VEHICLES-RENTING & LEASING*
14124 **MOTOR HOME TRAVEL CANADA INC**...*RECREATIONAL VEHICLES*
14291 **CHRISTINA PILON**...*RESIDENTIAL*
14291 **LEO PILON**...*RESIDENTIAL*
14328 **C BOWLES**...*RESIDENTIAL*
14442 **CALEDON TRANSPORT**...*LOCAL TRUCKING, WITHOUT STORAGE*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE-READY MIXED*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE AGGREGATES (WHOLESALE)*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **BOLTON ESSO**...*SERVICE STATIONS-GASOLINE & OIL*
14445 **ESSO**...*SERVICE STATIONS-GASOLINE & OIL*
14445 **J WILSON**...*RESIDENTIAL*
14445 **MIKE THE MECHANIC**...*AUTOMOBILE REPAIRING & SERVICE*
14445 **S F SVC**...*VEHICLE INSPECTION SERVICE*
14445 **S F SVC**...*AUTOMOBILE INSPECTION STATIONS*
14445 **S AGNEW**...*RESIDENTIAL*
14600 **J SARKISIAN**...*RESIDENTIAL*
14600 **R SUMMERS**...*RESIDENTIAL*
14616 **K CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GARDEN EQUIP & SUPPLIES-RETAIL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN MOWERS*
14684 **J STAMOS**...*RESIDENTIAL*
14684 **K POLSINELLI**...*RESIDENTIAL*
14684 **P SHELL**...*RESIDENTIAL*
14684 **W TWEDDLE**...*RESIDENTIAL*
14685 **M MACKENZIE**...*RESIDENTIAL*
14685 **R FRENCH**...*RESIDENTIAL*
14766 **E FIALA**...*RESIDENTIAL*
14766 **KEN MCKAY**...*RESIDENTIAL*
14776 **JOE GUARAGNA**...*RESIDENTIAL*
14791 **H AUER**...*RESIDENTIAL*
14800 **A CIARALLO**...*RESIDENTIAL*
14815 **J SCHWEIGHOFER**...*RESIDENTIAL*
14816 **CHESSLAWN FARM**...*INDUSTRIAL EQUIPMENT & SUPPLIES (WHOL)*
14818 **DWIGHT MATSON**...*RESIDENTIAL*
14818 **HILLIARD MATSON**...*RESIDENTIAL*
14818 **S MATSON**...*RESIDENTIAL*

2023 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14190 **SMITH LAURA**...*RESIDENTIAL*
14195 **V CAVALIERI**...*RESIDENTIAL*
14320 **A WILLIAMS**...*RESIDENTIAL*
14320 **J BENOIT**...*RESIDENTIAL*
14383 **M BARTUCCI**...*RESIDENTIAL*
14395 **J PARETE**...*RESIDENTIAL*
14400 **JEFF BELISOWSKI**...*RESIDENTIAL*
14409 **C ACETO**...*RESIDENTIAL*
14414 **A BASSDNBEN**...*RESIDENTIAL*
14421 **J BUTLER**...*RESIDENTIAL*
14432 **DOMENIC IERULLO**...*RESIDENTIAL*
14461 **MURRAY MATSON**...*RESIDENTIAL*
14559 **P DEROSA**...*RESIDENTIAL*

2021 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **JUST CATERING**...*CATERERS*
9130 **ST MICHAEL**...*SCHOOLS*
9706 **J CHABLUK**...*RESIDENTIAL*
9726 **A DISCENZA**...*RESIDENTIAL*

2021 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*CONSTRUCTION COMPANIES*
14068 **CALEDON CONTRACTING LTD**...*FEDERAL GOVERNMENT CONTRACTORS*
14068 **K CARLYON**...*RESIDENTIAL*

2021 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

14096 **A KARALASINGAM**...*RESIDENTIAL*
14105 **RICHARD ABEL**...*RESIDENTIAL*
14114 **A DEVITA**...*RESIDENTIAL*
14114 **C GONCALVES**...*RESIDENTIAL*

2021 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **MR SUB**...*FOODS-CARRY OUT*
14118 **J GILLESPIE**...*RESIDENTIAL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*MOTOR HOMES-RETAIL*
14124 **MOTOR HOME TRAVEL CANADA INC**...*MOTOR HOMES-RENTING & LEASING*
14291 **CHRISTINA A PILON**...*RESIDENTIAL*
14291 **CHRISTINA PILON**...*RESIDENTIAL*
14291 **LEO PILON**...*RESIDENTIAL*
14328 **C BOWLES**...*RESIDENTIAL*
14442 **CALEDON TRANSPORT**...*GENERAL FREIGHT TRUCKING,LOCAL*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE MIXERS (WHLS)*
14442 **JAMES DICK CONSTRUCTION LTD**...*CONCRETE AGGREGATES (WHLS)*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **BOLTON ESSO**...*ALTERNATIVE FUELS*
14445 **J WILSON**...*RESIDENTIAL*
14445 **MIKE THE MECHANIC**...*AUTOMOBILE REPAIRING & SERVICE*
14445 **S F SVC**...*VEHICLE INSPECTION SERVICE*
14445 **S F SVC**...*AUTOMOBILE INSPECTION STATIONS-NEW/USED*
14600 **J SARKISIAN**...*RESIDENTIAL*
14616 **K CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN CHAMBERLAIN**...*RESIDENTIAL*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GROUNDS MAINTENANCE*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*LAWN & GARDEN EQUIP & SUPPLIES-RETAIL*
14684 **J STAMOS**...*RESIDENTIAL*
14684 **K POLSINELLI**...*RESIDENTIAL*
14684 **P SHELL**...*RESIDENTIAL*
14685 **M MACKENZIE**...*RESIDENTIAL*
14685 **R FRENCH**...*RESIDENTIAL*
14766 **E FIALA**...*RESIDENTIAL*
14766 **KEN MCKAY**...*RESIDENTIAL*
14776 **JOE GUARAGNA**...*RESIDENTIAL*
14791 **H J AUER**...*RESIDENTIAL*
14800 **A CIARALLO**...*RESIDENTIAL*
14815 **J SCHWEIGHOFER**...*RESIDENTIAL*
14818 **DWIGHT MATSON**...*RESIDENTIAL*
14818 **HILLIARD MATSON**...*RESIDENTIAL*
14818 **S MATSON**...*RESIDENTIAL*

2021 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14190 **SMITH LAURA**...*RESIDENTIAL*
14195 **V CAVALIERI**...*RESIDENTIAL*
14320 **A WILLIAMS**...*RESIDENTIAL*
14320 **J BENOIT**...*RESIDENTIAL*
14383 **M BARTUCCI**...*RESIDENTIAL*
14395 **J PARETE**...*RESIDENTIAL*
14400 **JEFF BELISOWSKI**...*RESIDENTIAL*
14409 **C ACETO**...*RESIDENTIAL*
14414 **A BASSDNBEN**...*RESIDENTIAL*
14421 **J BUTLER**...*RESIDENTIAL*
14432 **DOMENIC IERULLO**...*RESIDENTIAL*
14461 **MURRAY W MATSON**...*RESIDENTIAL*
14559 **P DEROSA**...*RESIDENTIAL*

2017 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

9130 **ST MICHAEL**...*ELEMENTARY & SECONDARY SCHOOLS*

2017 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*POURED CONCRETE STRUCTURE CONTRS*
14068 **MAJESTIC MEMORIALS**...*ALL OTHER SUPPORT SVCS*
14068 **MAJESTIC MEMORIALS**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2017 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2017 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14007 **BARRHAVEN RESTAURANTS**...*RESTAURANTS*
14111 **CALEDON CENTRE FOR RECREATION**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14111 **CALEDON CENTRE SWIMMING POOL**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14111 **MR SUB**...*FULLSERVICE RESTAURANTS*
14111 **MR SUB**...*LIMITEDSERVICE RESTAURANTS*
14118 **WOODY'S BUILDING PRODUCTS**...*HOME CENTERS*
14182 **NORTH HILL ANIMAL HOSPITAL**...*VETERINARIANS*
14218 **COLD CREEK LANDSCAPING & MNTNC**...*LAWN & GROUNDS MAINTENANCE*
14289 **ALBION AUTO CTR**...*GENERAL AUTOMOTIVE REPAIR*
14289 **ALBION AUTO SALES**...*USED CAR DEALERS*
14442 **CALEDON TRANSPORT**...*TRUCKING AND WAREHOUSING*
14442 **JAMES DICK AGGREGATES**...*MASONRY MATERIAL MERCHANT WHOLS*
14442 **JAMES DICK CONCRETE-AGGREGATES**...*POURED CONCRETE STRUCTURE CONTRS*
14442 **JAMES DICK CONSTRUCTION LTD**...*OTHER BUILDING MATERIAL DEALERS*
14442 **JAMES DICK CONSTRUCTION LTD**...*MASONRY MATERIAL MERCHANT WHOLS*
14444 **JAMES DICK CONSTRUCTION**...*OTHER BUILDING MATERIAL DEALERS*
14445 **BOLTON ESSO**...*OTHER GASOLINE STATIONS*
14445 **BOLTON ESSO**...*CONVENIENCE STORES*
14445 **MIKE THE MECHANIC**...*GENERAL AUTOMOTIVE REPAIR*
14445 **S F SVC**...*OTHER GASOLINE STATIONS*
14445 **S F SVC**...*GENERAL AUTOMOTIVE REPAIR*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*OUTDOOR POWER EQUIP STORES*

2017 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

14559 **JMD WOOD PRODUCTS LTD**...*LUMBER & WOOD MERCHANT WHOLS*
14559 **JMD WOOD PRODUCTS LTD**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2012 COLUMBIA WAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2012 DUFFYS LANE

SOURCE: DIGITAL BUSINESS DIRECTORY

14068 **CALEDON CONTRACTING LTD**...*POURED CONCRETE STRUCTURE CONTRS*
14068 **MAJESTIC MEMORIALS**...*STORE RETAILERS NOT SPECIFIED ELSEWHERE*

2012 EMIL KOLB PARKWAY

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2012 HIGHWAY 50

SOURCE: DIGITAL BUSINESS DIRECTORY

14111 **CALEDON CENTRE FOR RECREATION**...*FITNESS & RECREATIONAL SPORTS CENTERS*
14118 **VIA DIRECT**...*SUPPORT ACTIVITIES FOR RAIL TRANSPORTATION*
14118 **WOODY'S BUILDING PRODUCTS**...*HOME CENTERS*
14124 **WOODY'S BUILDING PRODUCTS**...*OTHER BUILDING MATERIAL DEALERS*
14124 **WOODYS HOME IMPROVEMENT CTR**...*RESIDENTIAL REMODELERS*
14182 **NORTH HILL ANIMAL HOSPITAL**...*VETERINARIANS*
14182 **ROTENBERG, ARTHUR DVM**...*VETERINARIANS*
14218 **COLD CREEK LANDSCAPING & MNTNC**...*LAWN & GROUNDS MAINTENANCE*
14220 **BEL AIR WOOD COMPONENTS**...*UNCLASSIFIED*
14289 **ALBION AUTO CTR**...*GENERAL AUTOMOTIVE REPAIR*
14289 **ALBION AUTO SALES**...*USED CAR DEALERS*
14289 **ALBION AUTO SALES & SVC INC**...*AUTOMOTIVE EXHAUST SYSTEM REPAIR*
14291 **HERITAGE GROUP LTD**...*OFFICES OF REAL ESTATE AGENTS & BROKERS*
14337 **BH FLOWERS WHOLESALE LTD**...*NURSERY & FLORIST MERCHANT WHOLS*
14442 **CALEDON TRANSPORT**...*TRUCKING AND WAREHOUSING*
14442 **JAMES DICK CONCRETE-AGGREGATES**...*POURED CONCRETE STRUCTURE CONTRS*
14442 **JAMES DICK CONSTRUCTION LTD**...*MASONRY MATERIAL MERCHANT WHOLS*
14444 **JAMES DICK CONSTRUCTION**...*OTHER BUILDING MATERIAL DEALERS*
14445 **AUTOPRO DEALER**...*GENERAL AUTOMOTIVE REPAIR*
14445 **BOLTON ESSO**...*OTHER GASOLINE STATIONS*
14445 **MIKE THE MECHANIC**...*GENERAL AUTOMOTIVE REPAIR*
14445 **S & F SVC**...*GENERAL AUTOMOTIVE REPAIR*
14600 **JAY-R'S AUTO GLASS**...*OTHER BUILDING MATERIAL DEALERS*
14616 **KEN'S LAWNMOWER REPAIRS LTD**...*OUTDOOR POWER EQUIP STORES*

2012 MT HOPE ROAD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2008 COLUMBIA WAY

SOURCE: COLE

9726	**RESIDENTIAL (1 TENANT)**

2008 DUFFYS LANE

SOURCE: COLE

14068	**CALEDON CEMETERY CONSTRUCTION**
14068	**CALEDON CONTRACTING LTD**
14068	**CALEDON MAUSOLEUM CORPORATION**
14068	**MAJESTIC MEMORIALS**
	ALL RESIDENTIAL

2008 EMIL KOLB PARKWAY

SOURCE: COLE

STREET NOT LISTED

2008 HIGHWAY 50

SOURCE: COLE

STREET NOT LISTED

2008 MT HOPE ROAD

SOURCE: COLE

ALL RESIDENTIAL

2000-01 COLUMBIA WAY

SOURCE: POLKS

9726 **TARMAC CANADA INC**
ALL RESIDENTIAL

2000-01 DUFFYS LANE

SOURCE: POLKS

14068 **CALEDON CEMETERY CONSTRUCTION**
14068 **CALEDON CONTRACTING LTD**
14068 **CALEDON MAUSOLEUM CORPORATION**

2000-01 EMIL KOLB PARKWAY

SOURCE: POLKS

STREET NOT LISTED

2000-01 HIGHWAY 50

SOURCE: POLKS

14218	COLD CREEK LANDSCAPING & MAINTENANCE
14245	RAVINE OF TAYLOR WOODS THE
14289	22 DOLLARS A DAY CAR RENTALS
14289	ALBION AUTO SALES
14442	CALEDON TRANSPORT
14442	JAMES DICK CONCRETE-AGGREGATES
14445	AUTOPRO
14445	MIKE THE MECHANIC
14445	S & F SERVICE
14445	STEVE MORELLOS SERVICE
14600	JAY-R'S AUTO GLASS
14616	KEN'S LAWNMOWER REPAIRS LTD
	ALL RESIDENTIAL

2000-01 MT HOPE ROAD

SOURCE: POLKS

ALL RESIDENTIAL

1995-96 COLUMBIA WAY

SOURCE: MIGHTS

9589 **RESIDENTIAL (1 TENANT)**
9683 **RESIDENTIAL (1 TENANT)**

1995-96 DUFFYS LANE

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1995-96 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1995-96 HIGHWAY 50

SOURCE: MIGHTS

ALL RESIDENTIAL

1995-96 MT HOPE ROAD

SOURCE: MIGHTS

ALL RESIDENTIAL

1991 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1991 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1991 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1991 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1991 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1985 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1985 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1985 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1985 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1985 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1981 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1981 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1981 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1981 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1981 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1975 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1975 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1975 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1975 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1975 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1970-71 HIGHWAY 50

SOURCE: MIGHTS

NO LISTINGS WITHIN RADIUS

1970-71 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1966 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1966 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1966 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1966 HIGHWAY 50

SOURCE: MIGHTS

STREET NOT LISTED

1966 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

1958 COLUMBIA WAY

SOURCE: MIGHTS

STREET NOT LISTED

1958 DUFFYS LANE

SOURCE: MIGHTS

STREET NOT LISTED

1958 EMIL KOLB PARKWAY

SOURCE: MIGHTS

STREET NOT LISTED

1958 HIGHWAY 50

SOURCE: MIGHTS

STREET NOT LISTED

1958 MT HOPE ROAD

SOURCE: MIGHTS

STREET NOT LISTED

THURBER

APPENDIX F

ERIS Database Report

DATABASE REPORT

Project Property:	*48561 Bolton EA* *n/a* *Caledon ON*
Project No:	*48561*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*24112100344*
Requested by:	*Thurber Engineering Ltd*
Date Completed:	*November 21, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:	*48561 Bolton EA* *n/a Caledon ON*
Project No:	*48561*

Order Information:

Order No:	*24112100344*
Date Requested:	*November 21, 2024*
Requested by:	*Thurber Engineering Ltd*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*Smart CD Search*
ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	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*	N	-	-	-
CA	*Certificates of Approval*	Y	0	2	2
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*	N	-	-	-
DTNK	*Delisted Fuel Tanks*	Y	0	9	9
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	0	0	0
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	N	-	-	-
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	5	5
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	5	5
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	32	32
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	4	4
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
NPR2	National Pollutant Release Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory - Historic	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	9	9
PFAS	Ontario PFAS Spills	Y	0	0	0
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	1	3	4
PPHA	Potential PFAS Handlers from EASR	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	N	-	-	-
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	1	1
RST	Retail Fuel Storage Tanks	Y	0	1	1
SCT	Scott's Manufacturing Directory	Y	0	6	6
SPL	Ontario Spills	Y	1	9	10
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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
WDSH	***Waste Disposal Sites - MOE 1991 Historical Approval Inventory***	*Y*	*0*	*0*	*0*
WWIS	***Water Well Information System***	*N*	*-*	*-*	*-*
		Total:	*2*	*87*	*89*

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	SPL	Enbridge Gas Distribution Inc.	Emil Colb Parkway @ King Street Caledon ON	S/0.0	-11.36	28
1	PINC	PIPELINE HIT 4"	EMIL KOLB PKWY & KING ST,,BOLTON, ON,,CA ON	S/0.0	-11.36	29

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	GEN	PEEL, REGION OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	ESE/14.1	4.58	29
2	GEN	PEEL, REGIONAL MUNICIPALITY OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	ESE/14.1	4.58	30
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	31
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	ESE/14.1	4.58	32
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	33
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	33
2	GEN	TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	ESE/14.1	4.58	34

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	34
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	35
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	35
2	GEN	TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	ESE/14.1	4.58	36
2	PES		14220 Hwy 50 HWY CALEDON ON L7E 3E2	ESE/14.1	4.58	36
2	PES	CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	ESE/14.1	4.58	37
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON L7E 5R8	ESE/20.1	4.61	37
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	38
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	38
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	39
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	39
3	DTNK	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	40
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	41
3	EXP	YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	ESE/20.1	4.61	42
4	SPL		60 Alderbrook Place, Bolton Caledon ON	ESE/21.3	1.52	42
5	SPL	CALEDON HYDRO	14442 HWY 50 (JAMES DICK CONSTRUCTION) TRANSFORMER/CAPACITOR CALEDON TOWN ON	NNE/26.9	-0.64	43
5	SCT	Caledon Sand & Gravel Inc.	14442 Regional Road 50 Bolton ON L7E 3E2	NNE/26.9	-0.64	44
5	SCT	James Dick Construction Ltd.	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	James Dick Concrete Aggregates	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	Hamilton Ready Mix Ltd.	14442 Highway 50 Bolton ON L7E 5R8	NNE/26.9	-0.64	44
5	SCT	James Dick Construction Ltd.	14442 Regional Road 50 Bolton ON L7E 3E2	NNE/26.9	-0.64	45
5	SPL	James Dick Construction Limited	14442 Hwy 50 Caledon ON	NNE/26.9	-0.64	45

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
6	RST	S & F SERVICE	14445 HWY 50 BOLTON ON L7E3H6	NNE/32.0	3.89	46
6	DTNK	YASHRAJ INC	14445 HWY 50 BOLTON ON L7E 3H6	NNE/32.0	3.89	46
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	47
6	SPL		by 14445 Regional Rd 50, Bolton Caledon ON	NNE/32.0	3.89	48
6	INC	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	48
6	SPL	Facility Maintenance & Construction Inc.	14445 Regional Rd. 50 Caledon ON NA	NNE/32.0	3.89	49
6	GEN	Petro V Plus	14445 Regional Rd 50 Bolton ON L7E3H6	NNE/32.0	3.89	50
6	INC	PETRO V PLUS LTD O/A ESSO	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA ON	NNE/32.0	3.89	50
6	FST	PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	NNE/32.0	3.89	51
7	SPL		14475 Highway 50 Caledon ON	N/35.6	5.61	51

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	INC		14475 HIGHWAY 50, CALEDON ON	N/35.6	5.61	52
8	RSC	PAPERTIOUS INVESTMENTS INC.	No Municipal Address Caledon ON	S/35.7	1.22	53
9	GEN	North Hill Animal Hospital	14182 Hwy 50 N. Bolton ON	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Hwy 50 N. Bolton ON L7E 5R8	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	ESE/39.0	2.61	54
9	GEN	North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	ESE/39.0	2.61	55
10	SPL	Enbridge Energy Distribution Inc.	151 Taylorwood Ave, Bolton Halton Hills ON	E/49.1	4.58	55
10	PINC	PIPELINE HIT 1/2"	151 TAYLORWOOD AVE,,BOLTON,ON, L7E 1S8,CA ON	E/49.1	4.58	56
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	56
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	57
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	58

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	58
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	59
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	59
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	60
11	GEN	DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	E/79.4	0.79	61
12	CA	WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	ESE/81.3	4.34	61
12	CA	WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	ESE/81.3	4.34	62
13	PINC		13 Foxbury Place, Caledon ON	E/89.3	-2.37	62
13	PINC	PIPELINE HIT 0.5"	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	E/89.3	-2.37	62
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	63
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	63
14	GEN	Grant Thornton	14124 Regional Road #50 Bolton ON	ESE/117.8	2.61	64
14	PES	WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	ESE/117.8	2.61	64

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	INC		7 Rotarian Way, Caledon ON	ESE/129.6	2.56	64
16	PES	CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	SE/137.9	2.44	65
17	GEN	Progreen Demolition Ltd.	14328 Hwy 50 Bolton ON	SE/161.0	0.55	65
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	66
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	66
18	HINC		14118 Hwy 50 BOLTON ON	SE/182.2	1.28	67
18	PES	CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	SE/182.2	1.28	67
19	SCT	THE NEEDLEWORKS	8 TAYLORWOOD AVE BOLTON ON L7E 1J2	E/188.7	0.83	67
20	SPL		22-80 Goodfellow Cres., Bolton Caledon ON	E/199.5	0.61	68
21	DTNK	RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	E/209.0	-0.39	68
21	DTNK	RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	E/209.0	-0.39	69
22	SPL	The Regional Municipality of Peel	16 Ewart St Caledon ON L7E 2T3	E/218.6	-0.39	70

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	81.3	12
WYNDCLIFFE DEVELOPMENTS INC.	COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	81.3	12

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Oct 2023 has found that there are 9 DTNK site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON L7E 5R8	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3

Site	Address	Distance (m)	Map Key
YASHRAJ INC	14445 HWY 50 BOLTON ON L7E 3H6	32.0	6
RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	209.0	21
RANDY E NOBES	20 EWART ST NORTHAM IND PARK COBOURG ON	209.0	21

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Oct 2023 has found that there are 5 EXP site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3
YG GAS BAR	14289 HWY 50 N LOT 12 C-7 BOLTON ON	20.1	3

FST - Fuel Storage Tank

A search of the FST database, dated Oct 2023 has found that there are 5 FST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 32 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PEEL, REGION OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2

Site	Address	Distance (m)	Map Key
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
TOWN OF CALEDON	14220 HIGHWAY 50 Caledon ON L7E 3E2	14.1	2
PEEL, REGIONAL MUNICIPALITY OF	BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	14.1	2
Petro V Plus	14445 Regional Rd 50 Bolton ON L7E3H6	32.0	6

Site	Address	Distance (m)	Map Key
North Hill Animal Hospital	14182 Hwy 50 N. Bolton ON	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Hwy 50 N. Bolton ON L7E 5R8	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	39.0	9
North Hill Animal Hospital Professional Corp.	14182 Regional Road 50 Bolton ON	39.0	9
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11

Site	Address	Distance (m)	Map Key
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD	St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	79.4	11
Grant Thornton	14124 Regional Road #50 Bolton ON	117.8	14
Progreen Demolition Ltd.	14328 Hwy 50 Bolton ON	161.0	17

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	14118 Hwy 50 BOLTON ON	182.2	18

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated 31 Oct, 2023 has found that there are 4 INC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PETRO V PLUS LTD O/A ESSO	14445 HWY 50 BOLTON ON	32.0	6
PETRO V PLUS LTD O/A ESSO	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA ON	32.0	6
	14475 HIGHWAY 50, CALEDON ON	35.6	7

Site	Address	Distance (m)	Map Key
	7 Rotarian Way, Caledon ON	129.6	15

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Sep 30, 2024 has found that there are 9 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	14220 Hwy 50 HWY CALEDON ON L7E 3E2	14.1	2
CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	14.1	2
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
WOODY'S BUILDING PRODUCTS	14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	117.8	14
CORPORATION OF THE TOWN OF CALEDON	14220 Hwy 50 HWY CALEDON ON L7E 3E2	137.9	16
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18

Site	Address	Distance (m)	Map Key
CALEDON GARDEN GALLERY INC	14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	182.2	18

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 4 PINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PIPELINE HIT 4"	EMIL KOLB PKWY & KING ST,,BOLTON, ON,,CA ON	0.0	1
PIPELINE HIT 1/2"	151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8,CA ON	49.1	10
PIPELINE HIT 0.5"	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	89.3	13
	13 Foxbury Place, Caledon ON	89.3	13

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Oct 2024 has found that there are 1 RSC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PAPERTIOUS INVESTMENTS INC.	No Municipal Address Caledon ON	35.7	8

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Apr 30, 2024 has found that there are 1 RST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
S & F SERVICE	14445 HWY 50 BOLTON ON L7E3H6	32.0	6

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 6 SCT site(s) within approximately 0.25 kilometers of the project property.

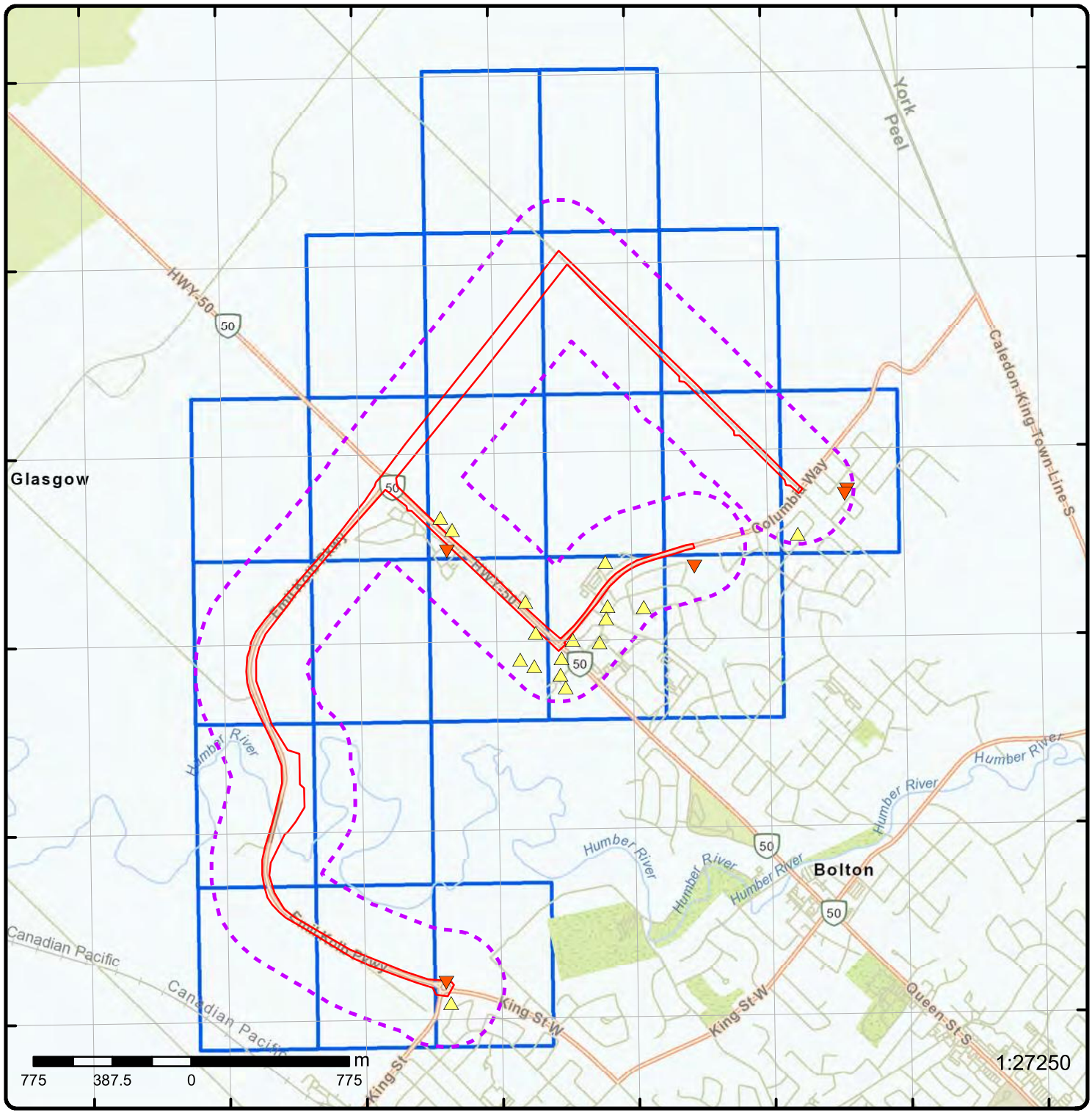
Site	Address	Distance (m)	Map Key
Caledon Sand & Gravel Inc.	14442 Regional Road 50 Bolton ON L7E 3E2	26.9	5
James Dick Construction Ltd.	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
Hamilton Ready Mix Ltd.	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
James Dick Construction Ltd.	14442 Regional Road 50 Bolton ON L7E 3E2	26.9	5
James Dick Concrete Aggregates	14442 Highway 50 Bolton ON L7E 5R8	26.9	5
THE NEEDLEWORKS	8 TAYLORWOOD AVE BOLTON ON L7E 1J2	188.7	19

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2024 has found that there are 10 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Enbridge Gas Distribution Inc.	Emil Colb Parkway @ King Street Caledon ON	0.0	1

Site	Address	Distance (m)	Map Key
	60 Alderbrook Place, Bolton Caledon ON	21.3	4
CALEDON HYDRO	14442 HWY 50 (JAMES DICK CONSTRUCTION) TRANSFORMER/CAPACITOR CALEDON TOWN ON	26.9	5
James Dick Construction Limited	14442 Hwy 50 Caledon ON	26.9	5
	by 14445 Regional Rd 50, Bolton Caledon ON	32.0	6
Facility Maintenance & Construction Inc.	14445 Regional Rd. 50 Caledon ON NA	32.0	6
	14475 Highway 50 Caledon ON	35.6	7
Enbridge Energy Distribution Inc.	151 Taylorwood Ave, Bolton Halton Hills ON	49.1	10
	22-80 Goodfellow Cres., Bolton Caledon ON	199.5	20
The Regional Municipality of Peel	16 Ewart St Caledon ON L7E 2T3	218.6	22



Map: 0.25 Kilometer Radius

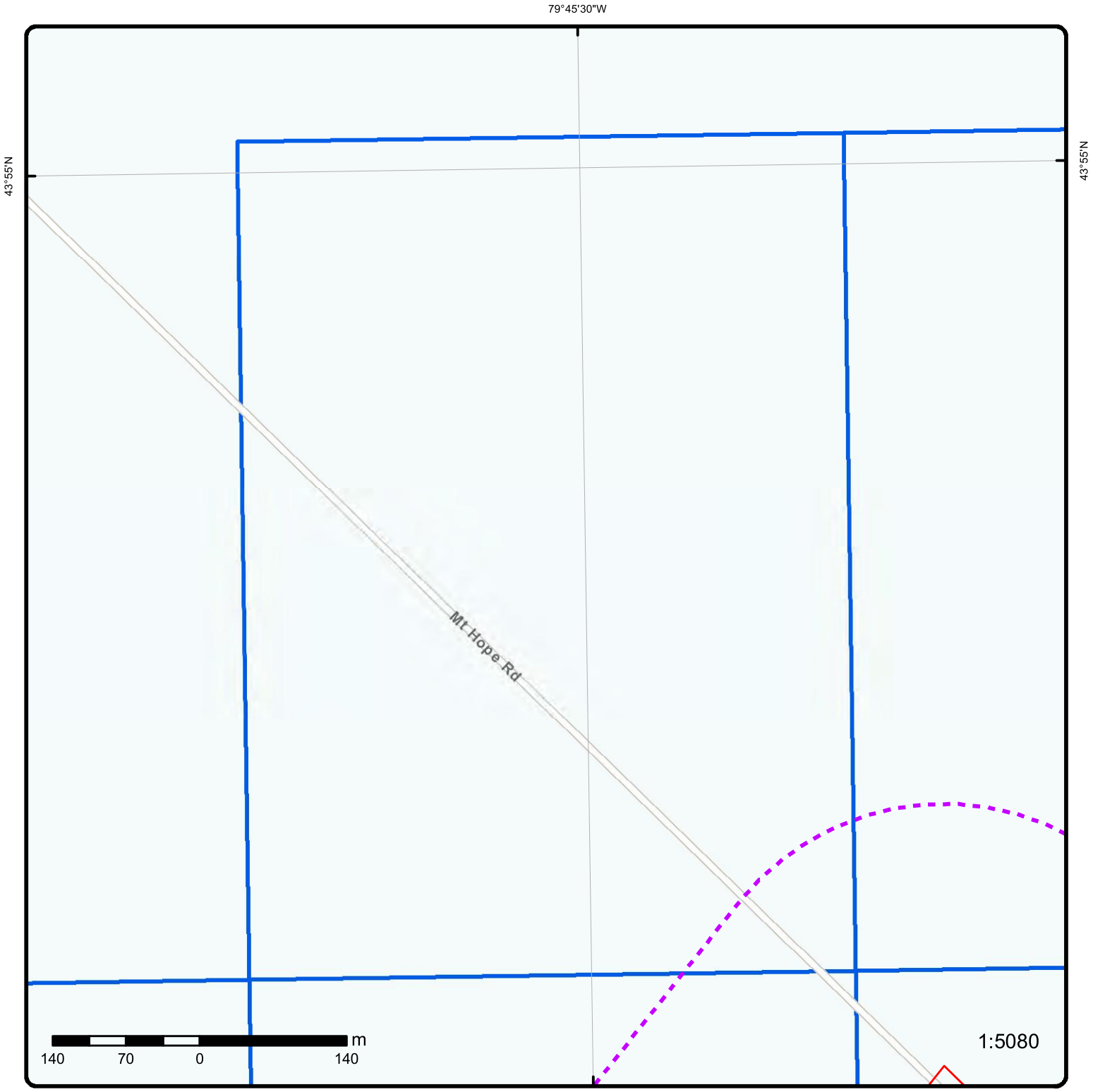
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 1

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

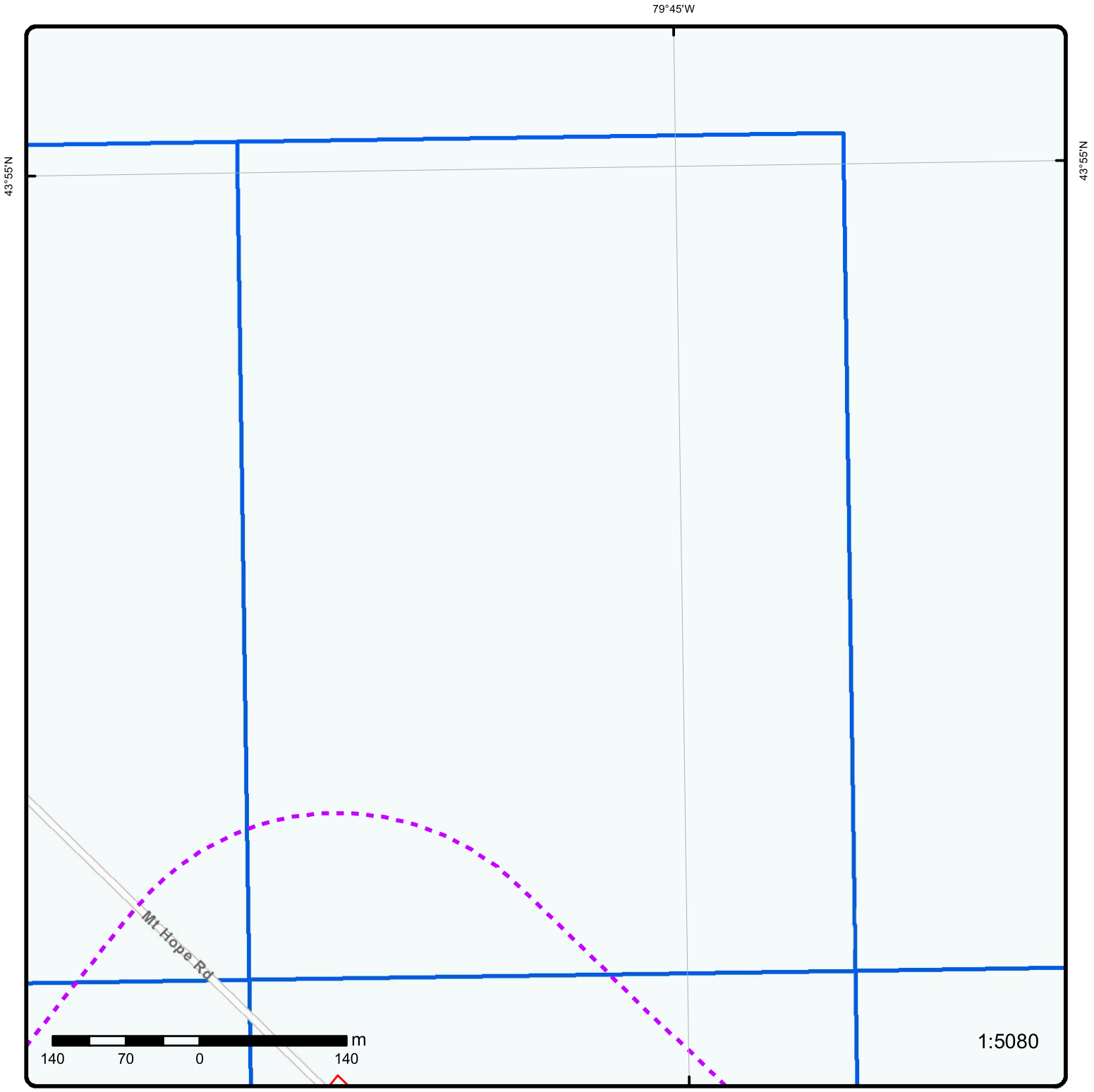
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

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Grid: 2

Order Number: 24112100344

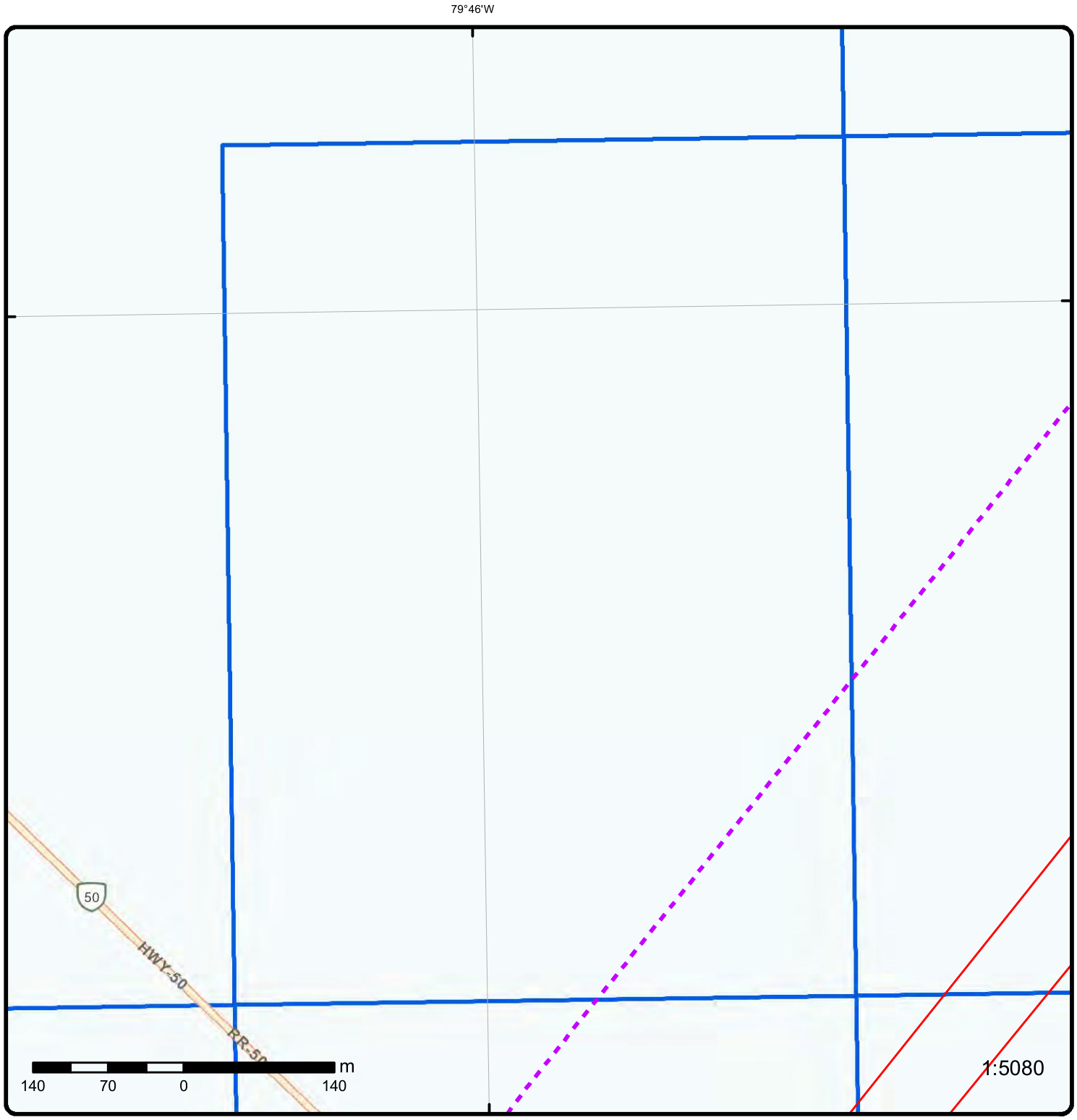
Address: n/a, Caledon, ON

ERIS

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

Source: © 2021 ESRI StreetMap Premium.

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Grid: 3

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

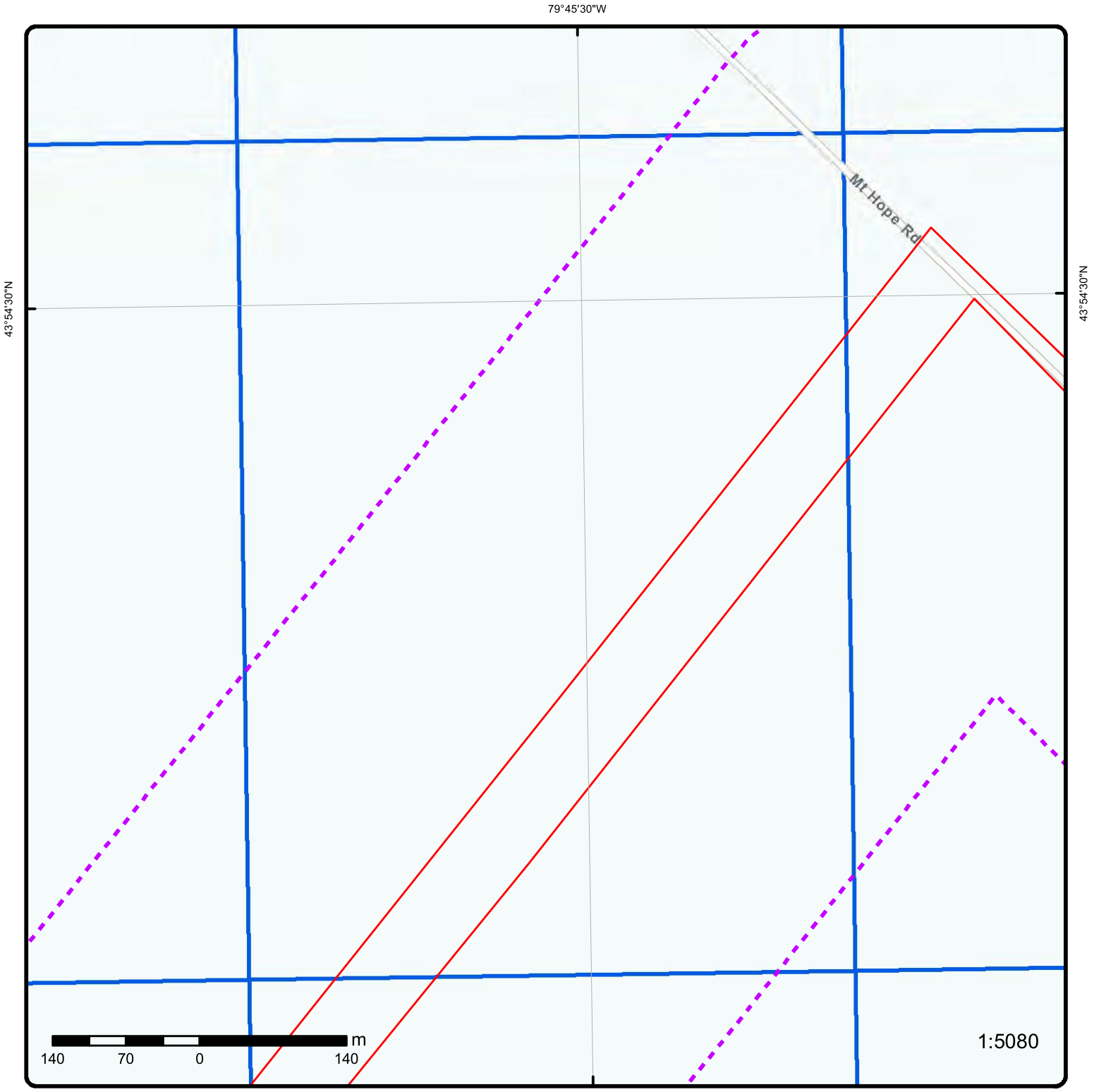
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 4

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

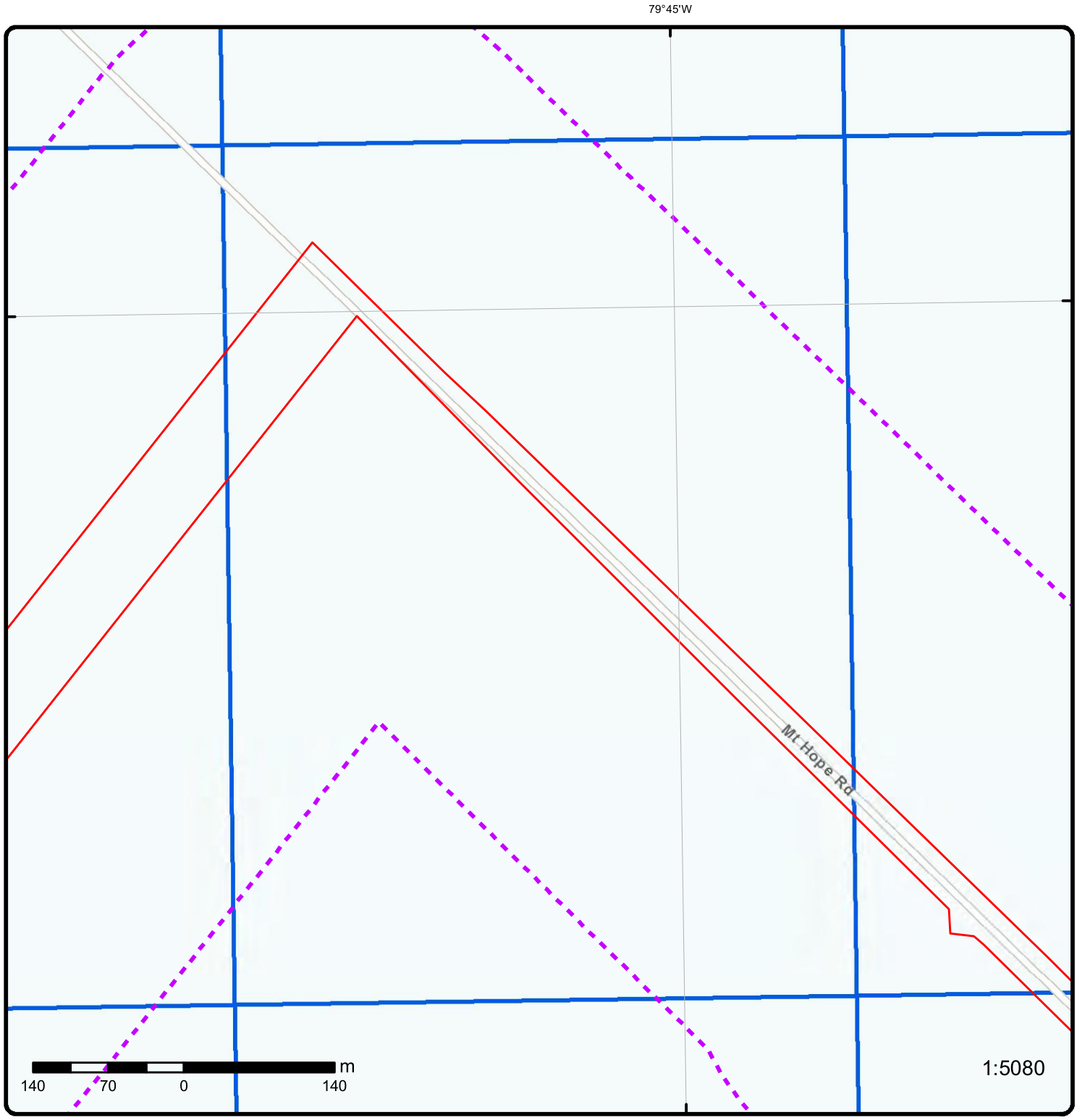
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

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Grid: 5

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

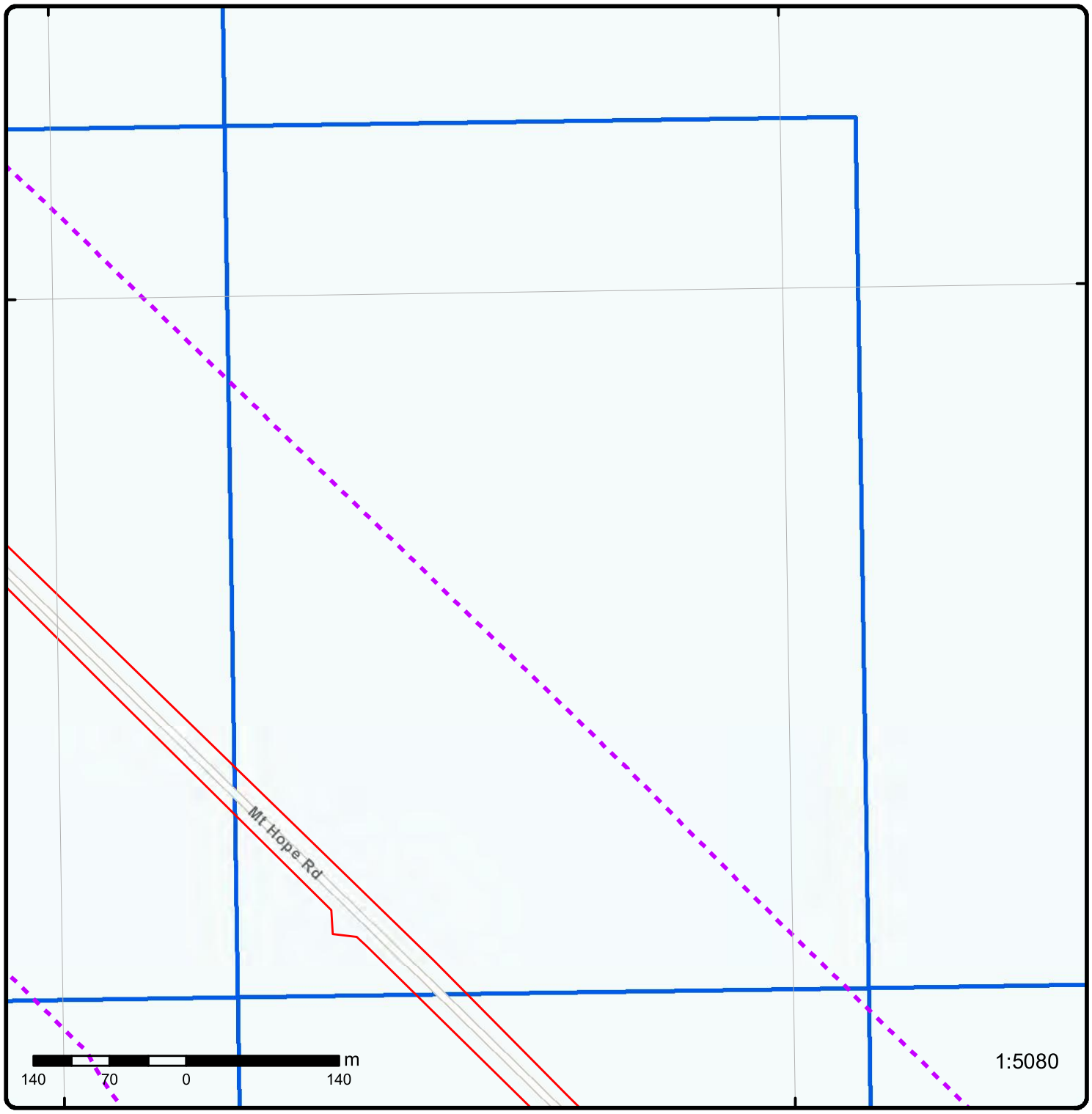
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 6

Order Number: 24112100344

Address: n/a, Caledon, ON

Project Property
Buffer Outline
Eris Sites with Higher Elevation
Eris Sites with Same Elevation
Eris Sites with Lower Elevation
Eris Sites with Unknown Elevation

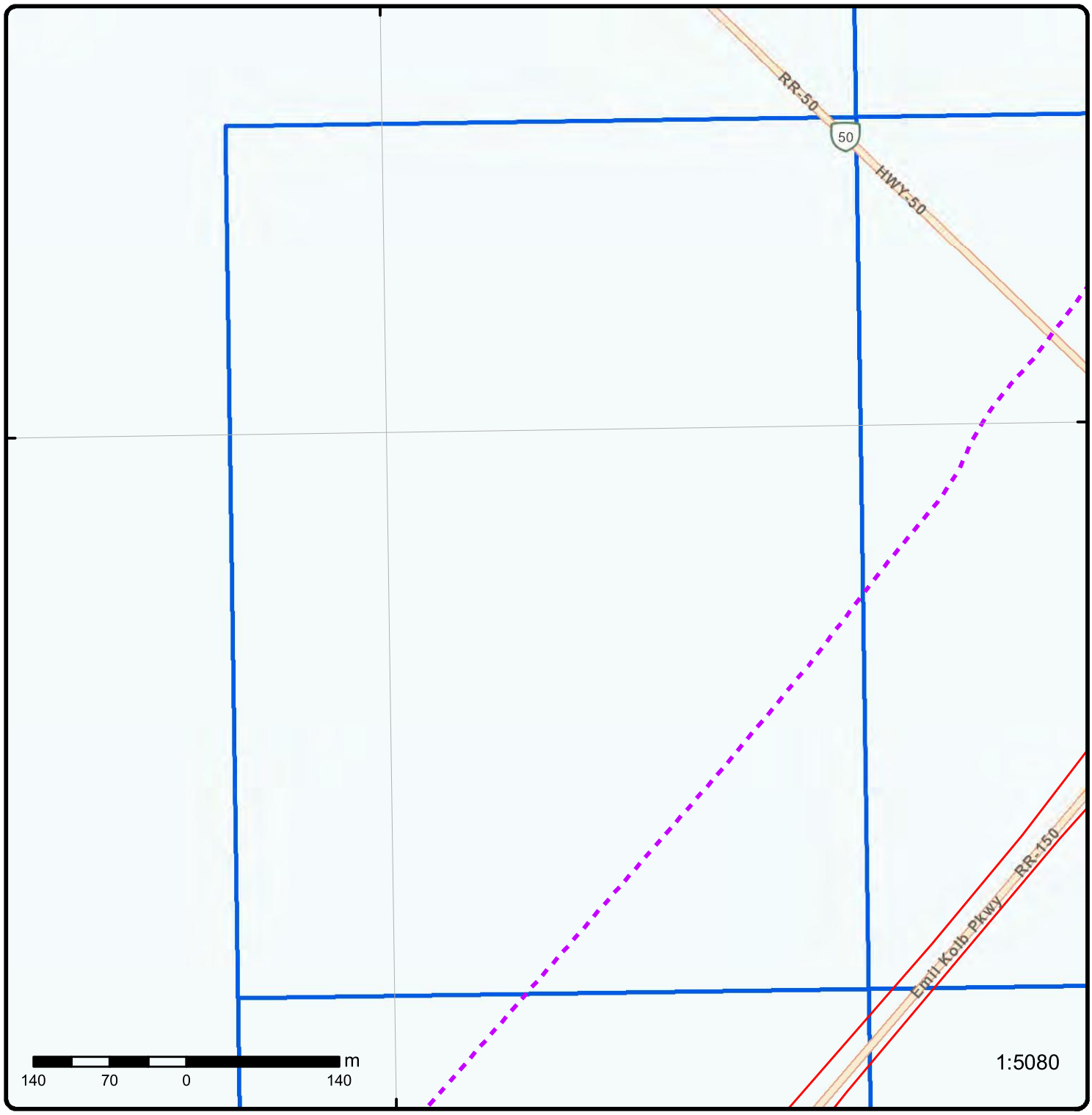
Freeways; Highways
Traffic Circle; Ramp
Major Arterial; Minor Arterial
Local Road
Service Road; Traffic Circle; Ramp
Rail

Beach
Airport
Industrial Area
Military Base
Aircraft Roads
Native Reservation
Hospital

Shopping & Sports Area
University/College
Cemetery; Golf Course
Parkt (National)
Park (City/County)

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Grid: 7

Order Number: 24112100344

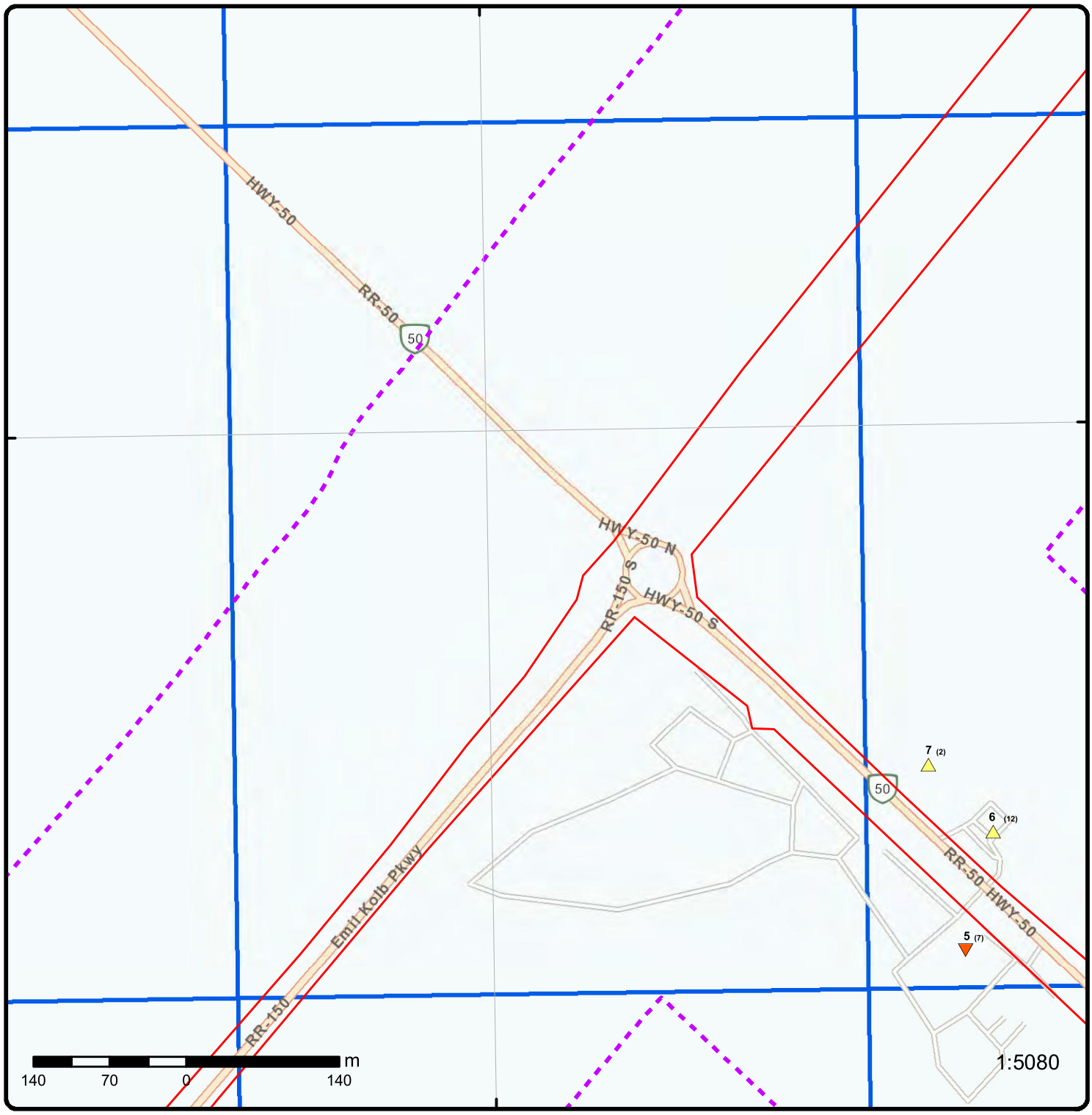
Address: n/a, Caledon, ON

ERIS

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

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Grid: 8

Order Number: 24112100344

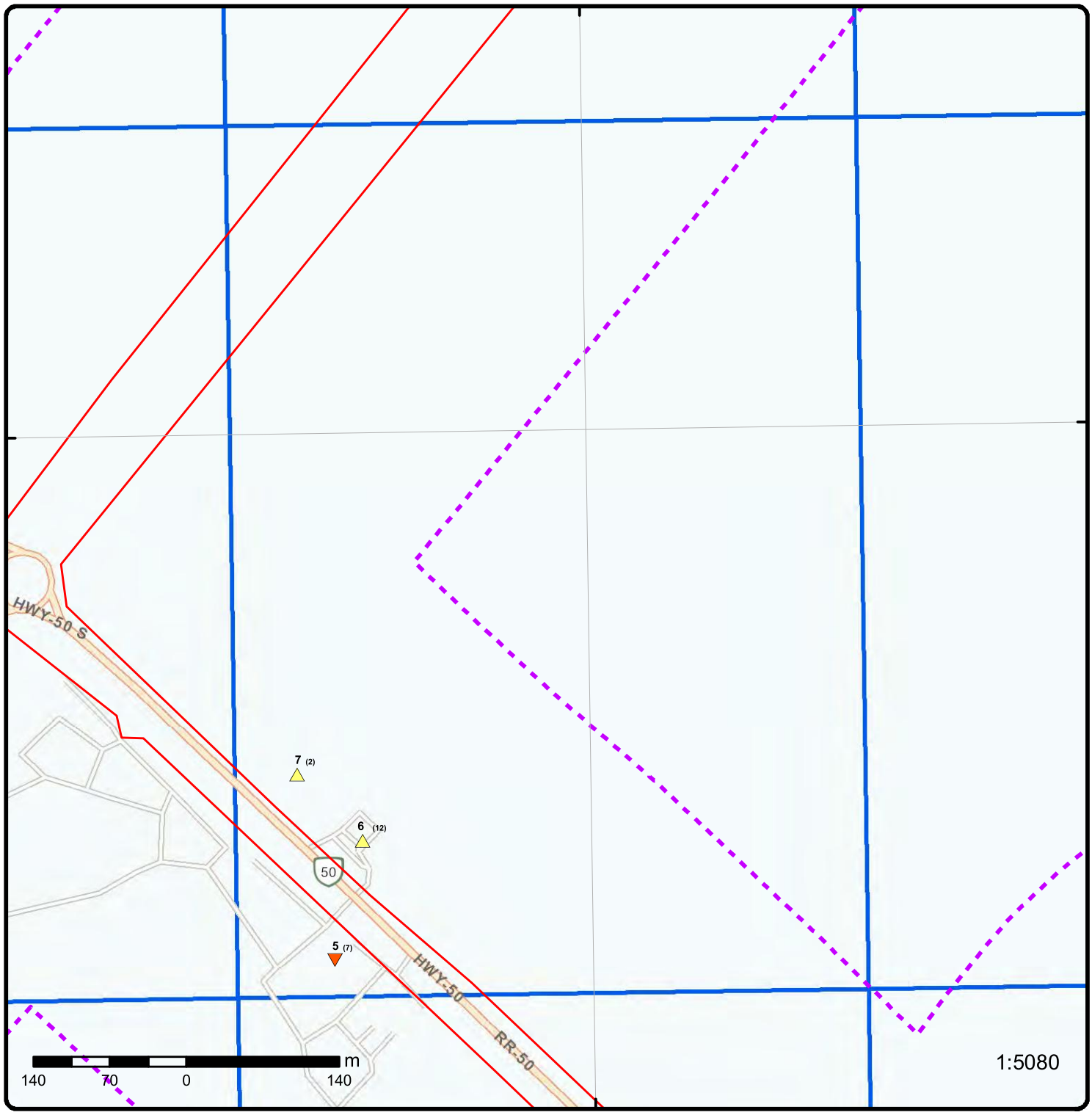
Address: n/a, Caledon, ON

ERIS

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

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Grid: 9

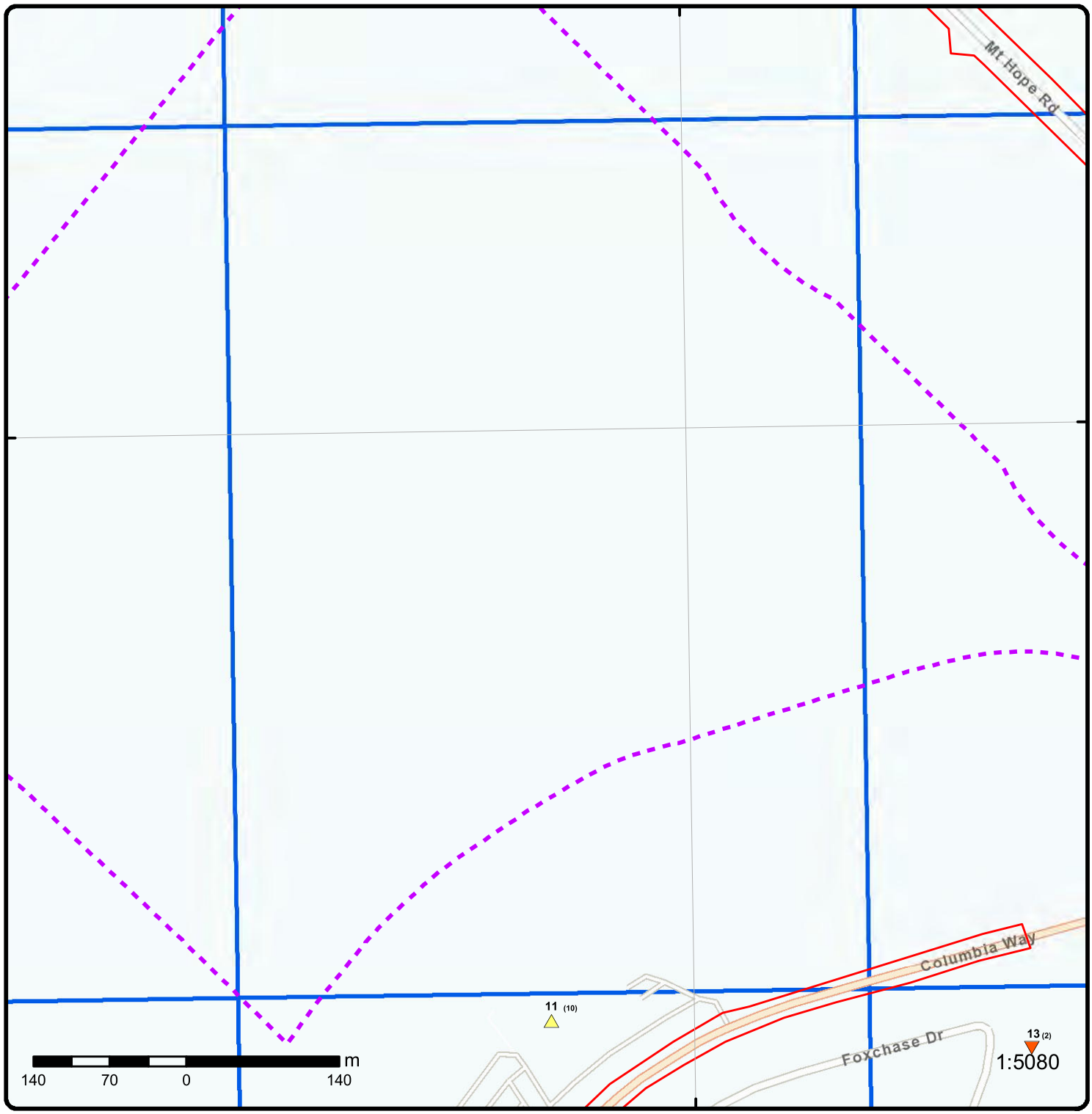
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 10

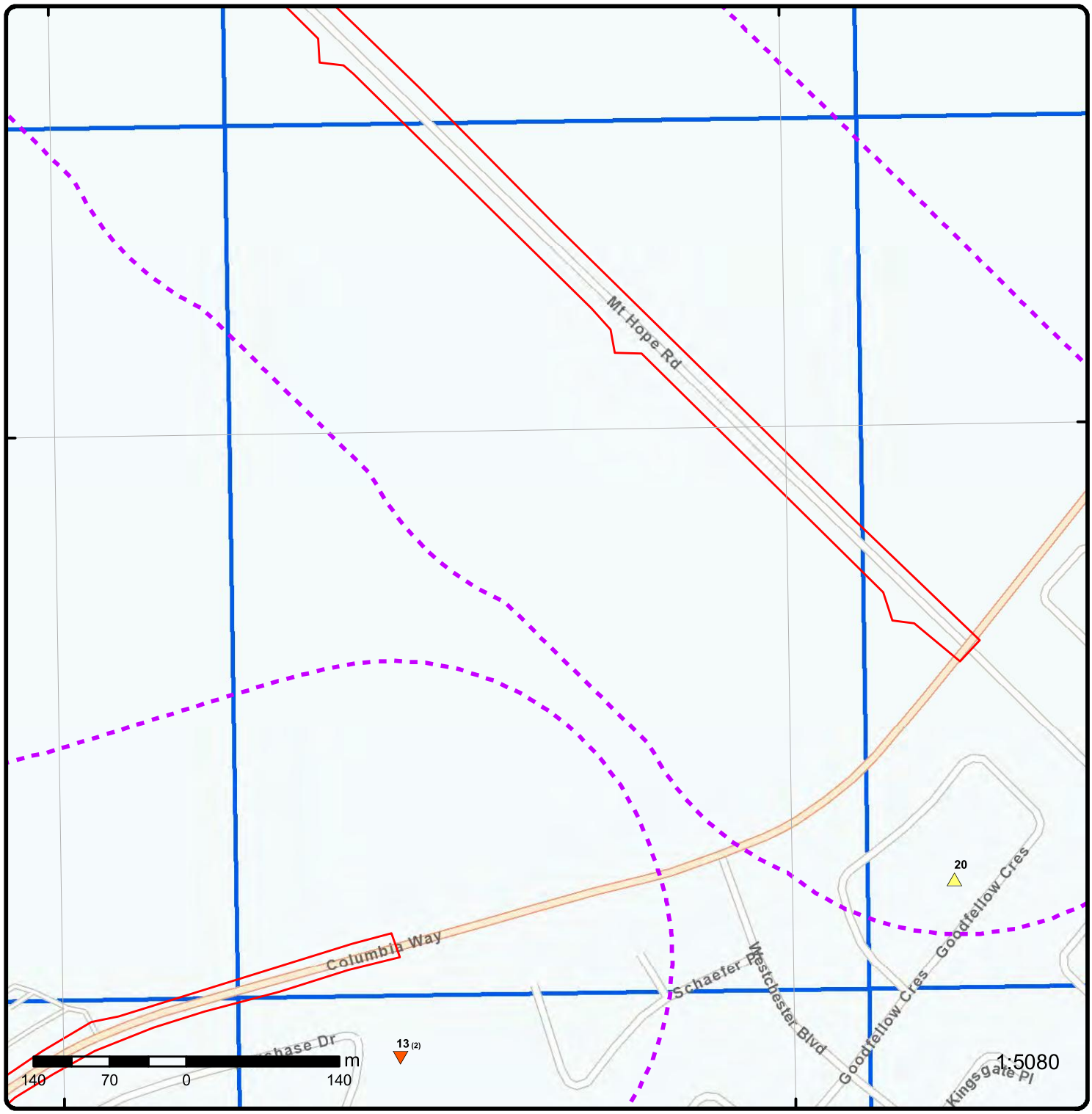
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 11

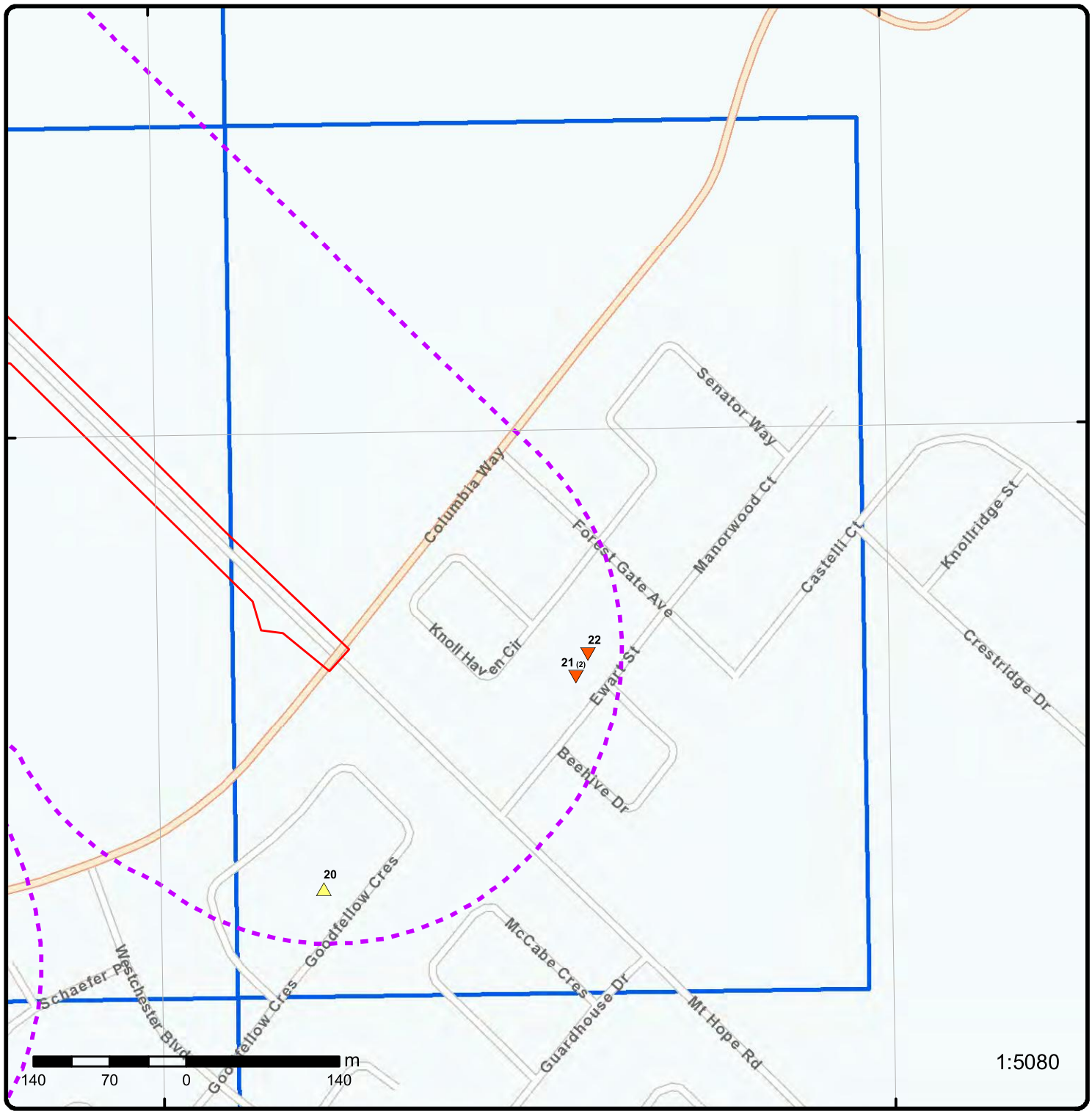
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 12

Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

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Grid: 13

Order Number: 24112100344

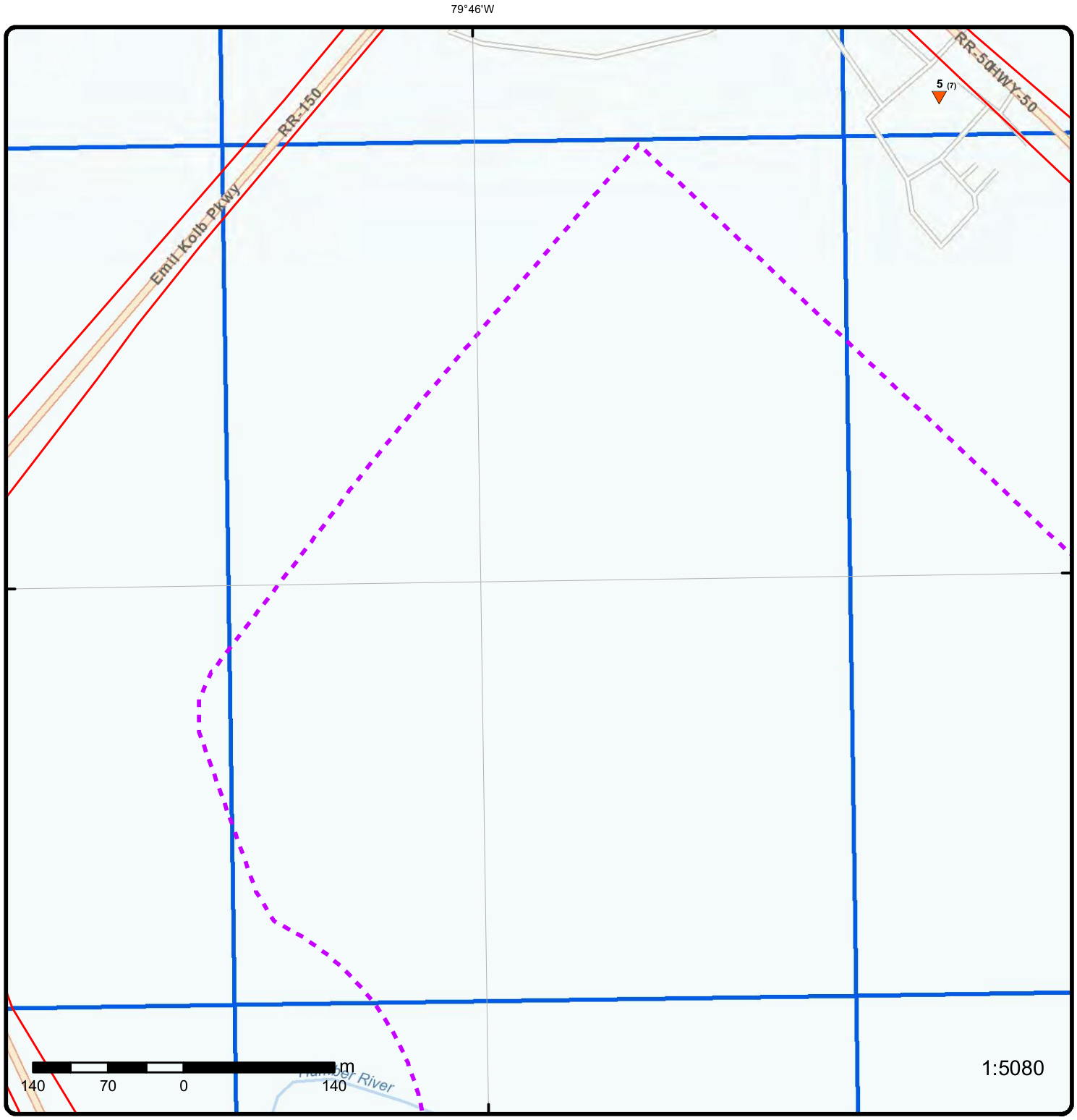
Address: n/a, Caledon, ON

ERIS

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

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Grid: 14

Order Number: 24112100344

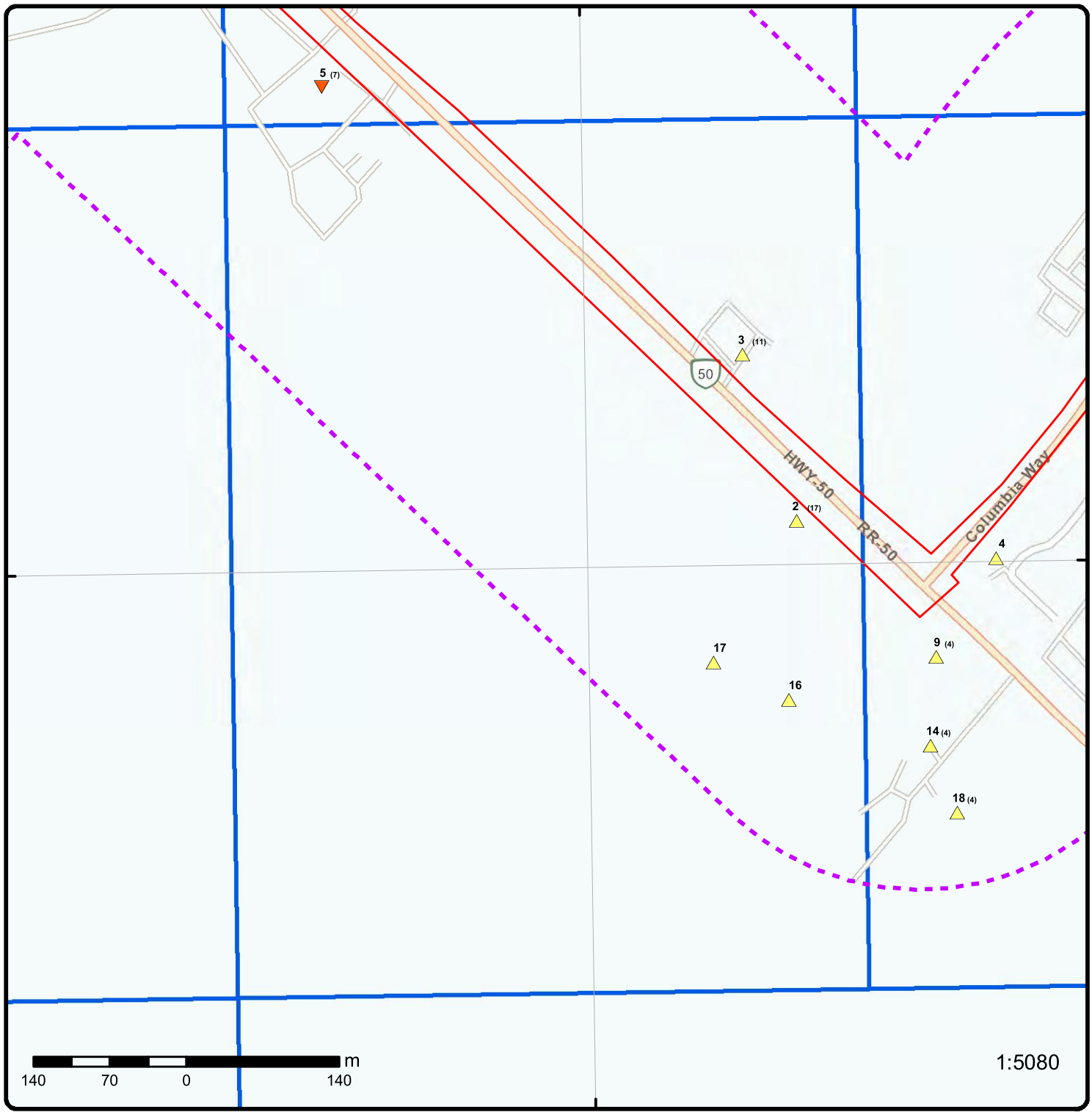
Address: n/a, Caledon, ON

ERIS

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

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Grid: 15

Order Number: 24112100344

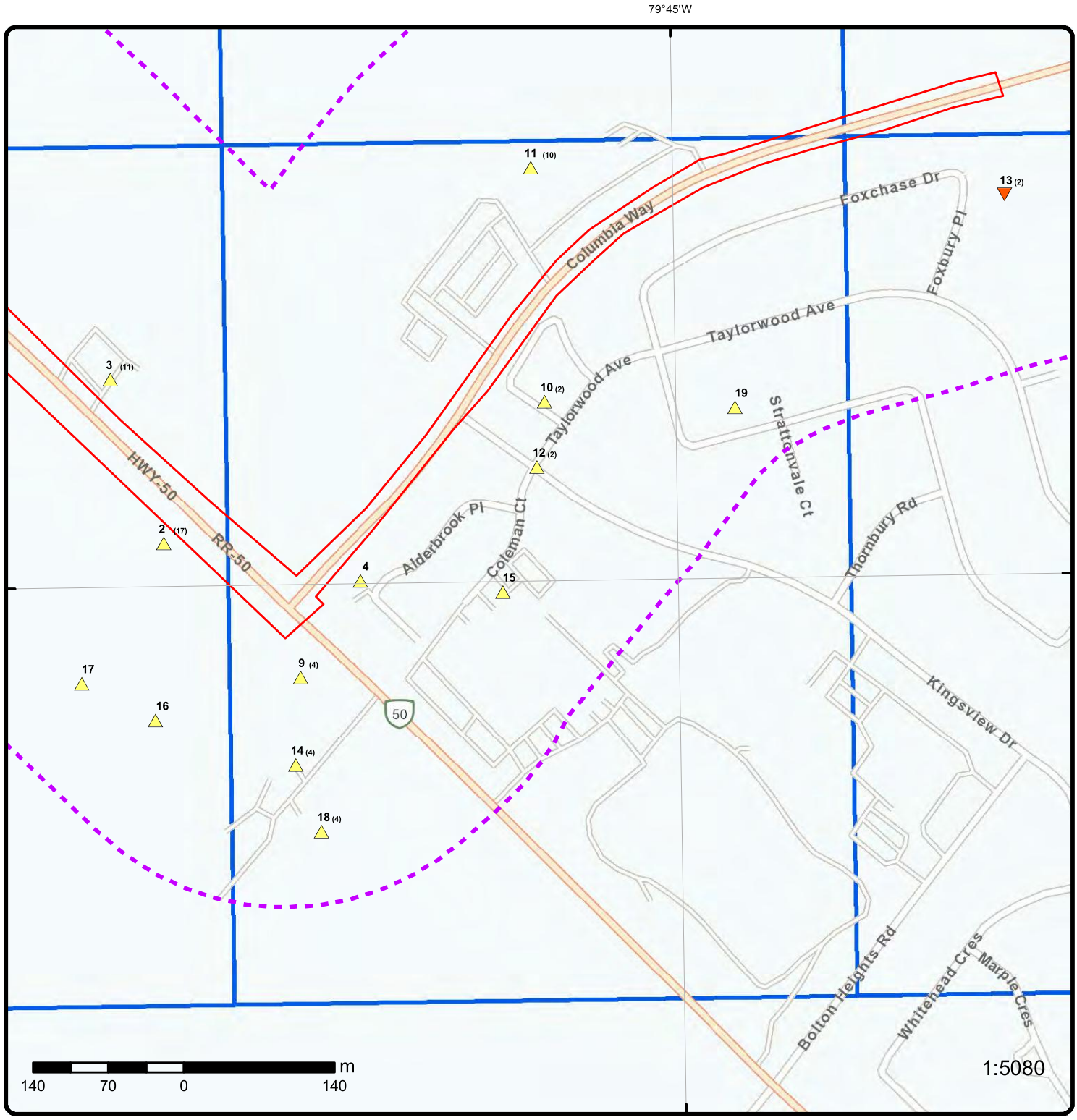
Address: n/a, Caledon, ON

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
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- Traffic Circle; Ramp
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- Native Reservation
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- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 16

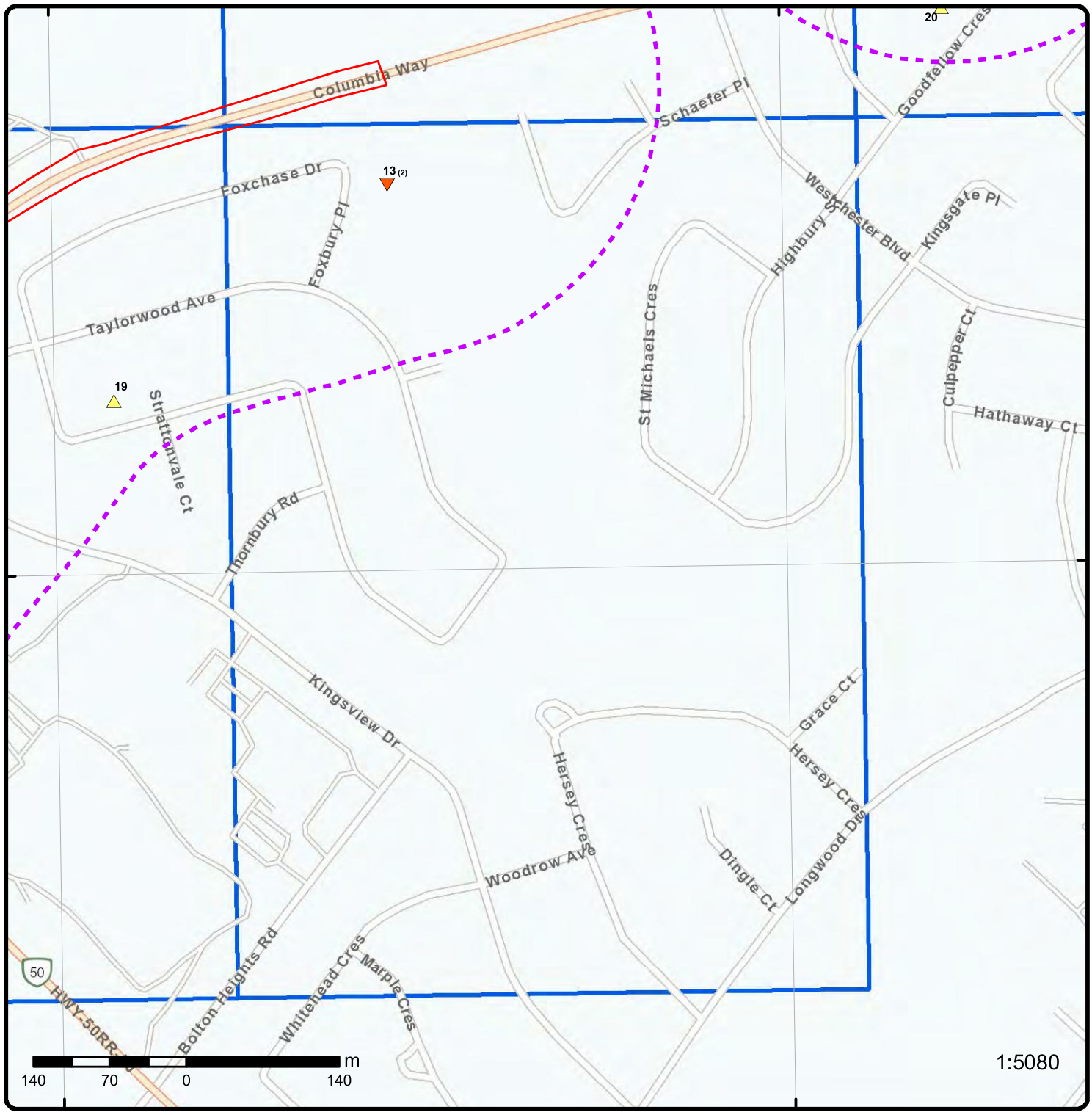
Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

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Grid: 17

Order Number: 24112100344

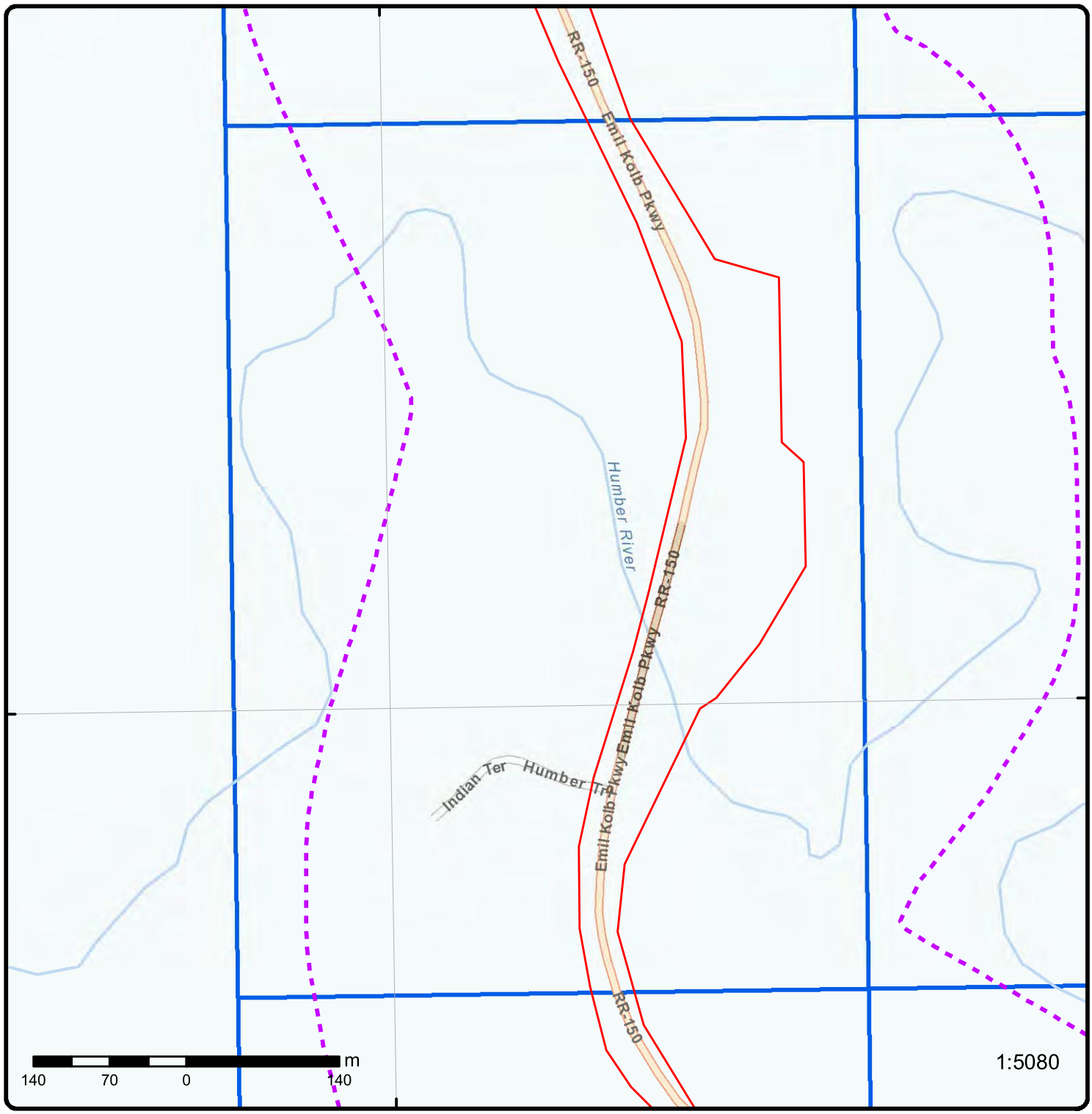
Address: n/a, Caledon, ON

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
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- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 18

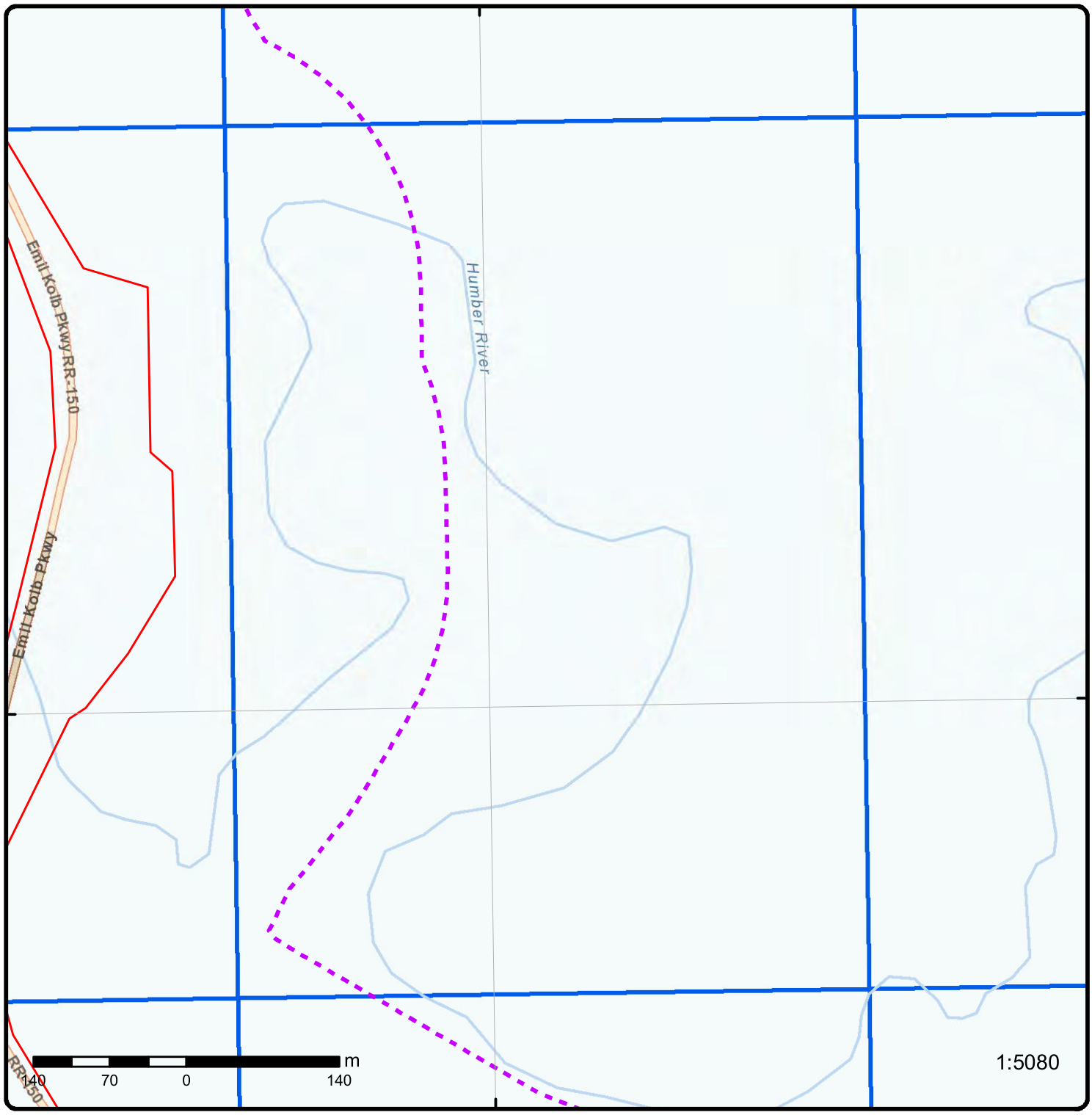
Order Number: 24112100344

Address: n/a, Caledon, ON

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

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Grid: 19

Order Number: 24112100344

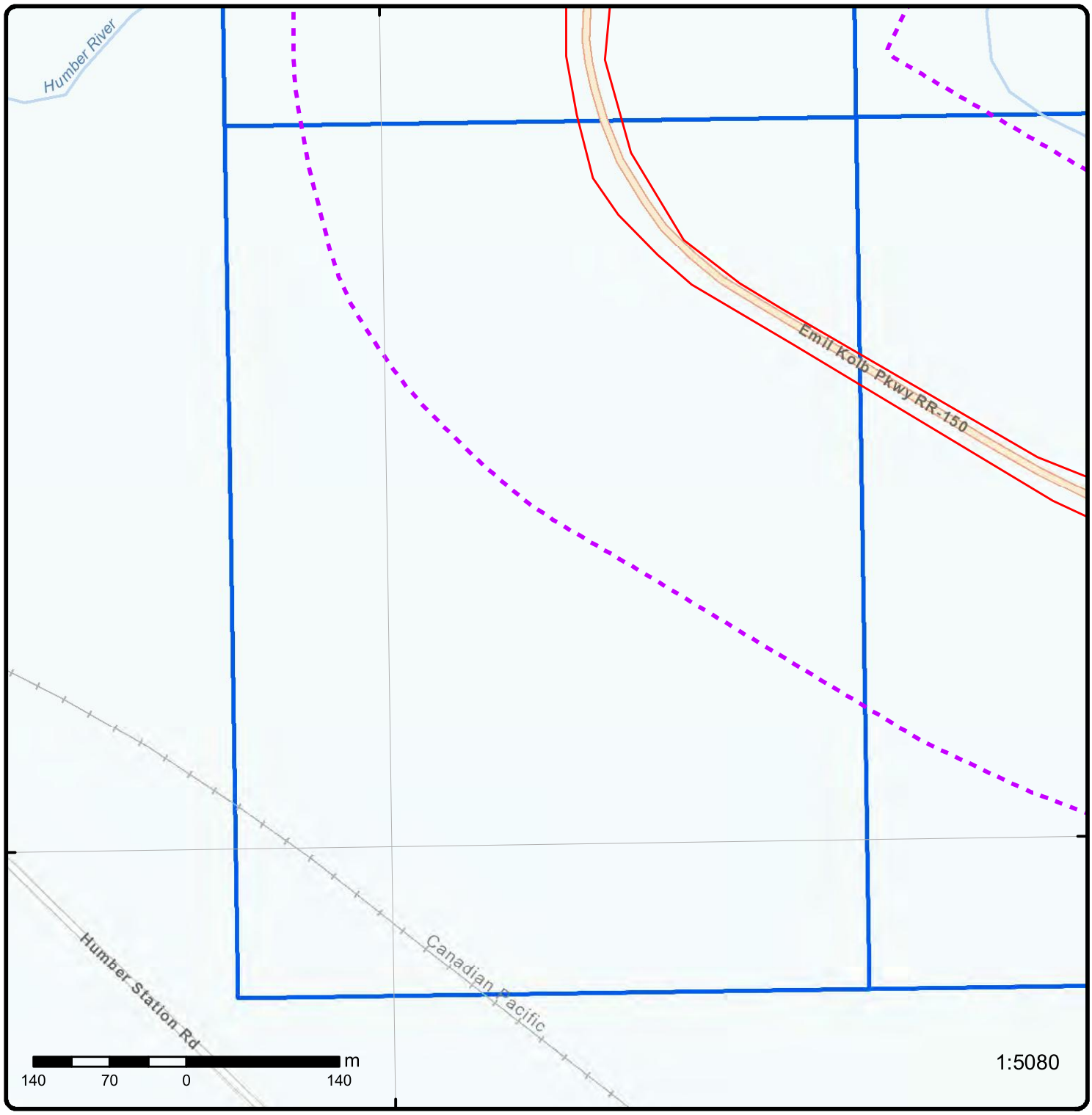
Address: n/a, Caledon, ON

ERIS

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

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Grid: 20

Order Number: 24112100344

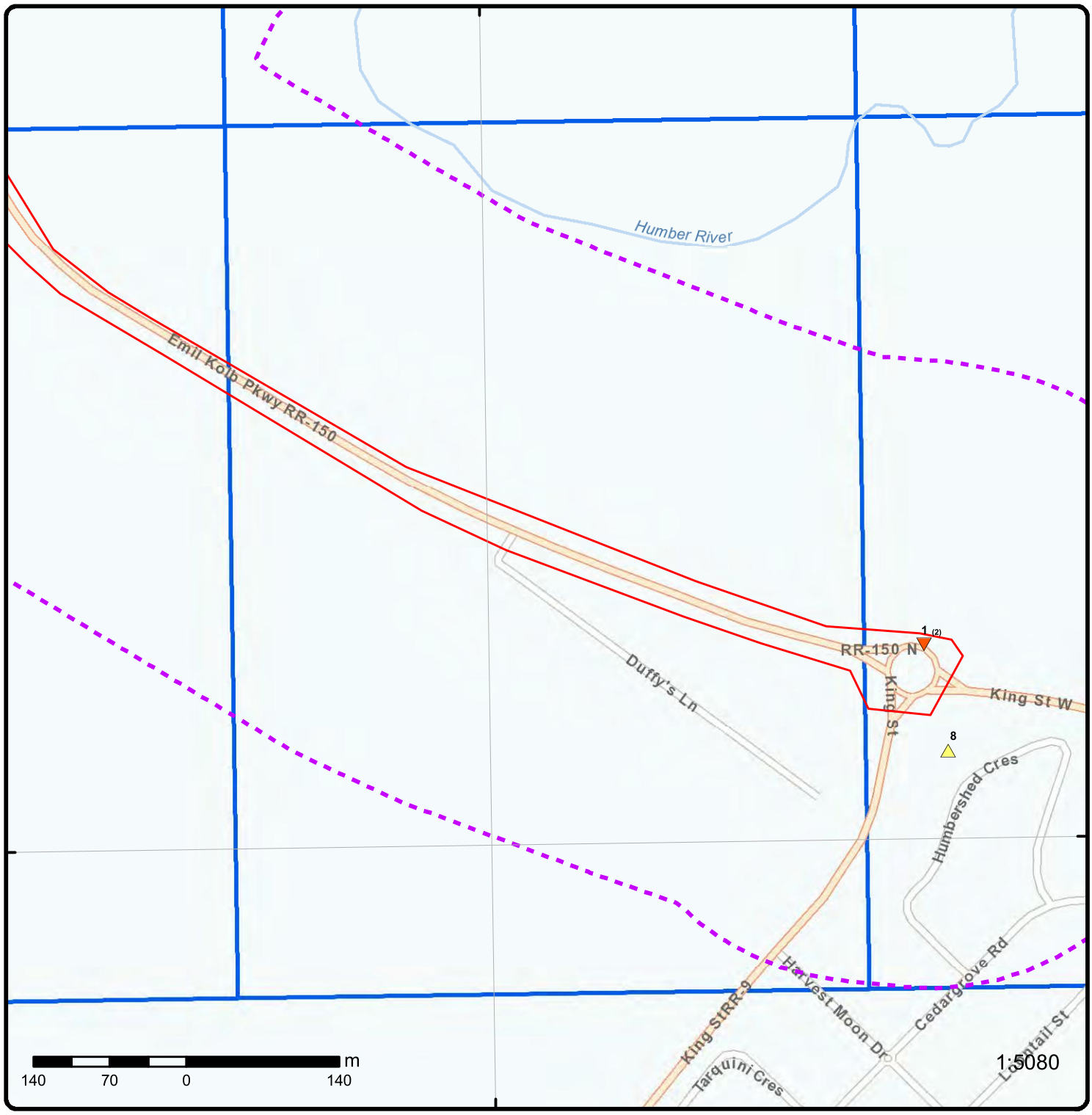
Address: n/a, Caledon, ON

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
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- Service Road; Traffic Circle; Ramp
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- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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Grid: 21

Order Number: 24112100344

Address: n/a, Caledon, ON

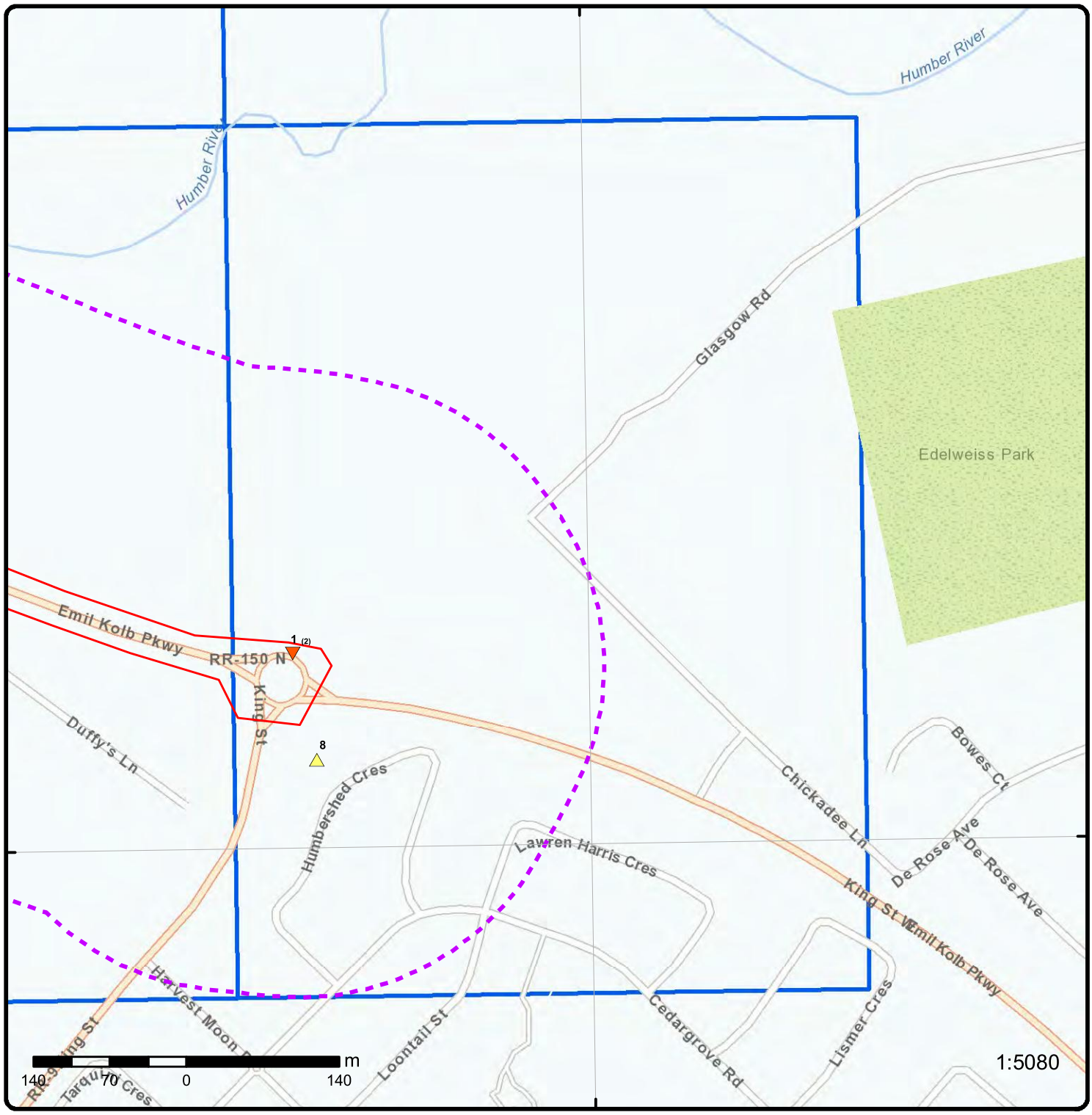
ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
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- Local Road
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- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

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79°45'30"W



43°52'30"N

43°52'30"N

Grid: 22

Order Number: 24112100344

Address: n/a, Caledon, ON

ERIS

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

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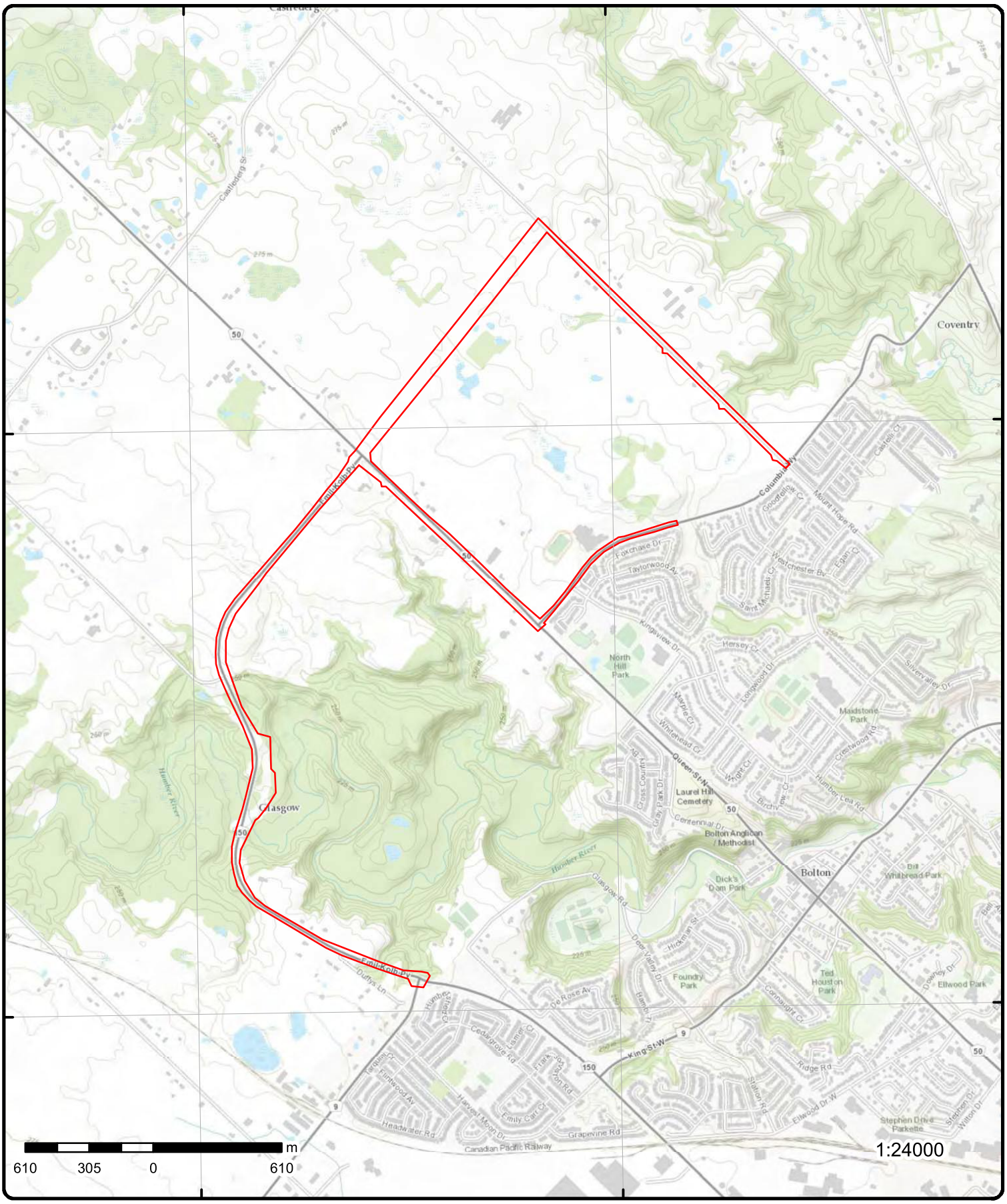
Aerial **Year: 2022**

Address: n/a, Caledon, ON

Source: ESRI World Imagery

Order Number: 24112100344

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Topographic Map

Address: n/a, ON

Source: ESRI World Topographic Map

Order Number: 24112100344

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 2	S/0.0	248.9 / -11.36	Enbridge Gas Distribution Inc. Emil Colb Parkway @ King Street Caledon ON	SPL

Ref No:	4331-AR4W27	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	9/11/2017	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	9/11/2017	**Impact to Health:**	2 - Minor Environment
Dt Document Closed:		**Agency Involved:**	

Site No:	NA
MOE Response:	No
Site County/District:	Regional Municipality of Peel
Site Geo Ref Meth:	
Site District Office:	Halton-Peel
Nearest Watercourse:	
Site Name:	New debelopment site <UNOFFICIAL>
Site Address:	Emil Colb Parkway @ King Street
Site Region:	Central
Site Municipality:	Caledon
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	1 other - see incident description
Contaminant Qty 1:	1
Contaminant Unit:	other - see incident description
Client Type:	Corporation
Source Type:	Valve/Fitting/Piping
Contaminant Code:	35
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	1075
Receiving Medium:	Air
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA FSB: 4" PL Strike, made safe
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Enbridge Gas Distribution Inc.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 2	S/0.0	248.9 / -11.36	PIPELINE HIT 4" EMIL KOLB PKWY & KING ST,,BOLTON,ON,,CA ON	PINC

Incident Id:
Incident No: 2152590
Incident Reported Dt: 9/12/2017
Type: FS-Pipeline Incident
Status Code:
Tank Status: Closed by Program
Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt:
Depth:
Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:
Attribute Category:
Regulator Location:
Method Details:
Customer Acct Name: PIPELINE HIT 4"
Incident Address: EMIL KOLB PKWY & KING ST,,BOLTON,ON,,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 17	ESE/14.1	264.8 / 4.58	PEEL, REGION OF BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50, R.R. #2 TOWN OF CALEDON ON L7E 5R2	GEN

Generator No: ON0148320
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.
Approval Years: 93,94,95,96,97
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 17	ESE/14.1	264.8 / 4.58	PEEL, REGIONAL MUNICIPALITY OF BOLTON PUBLIC WORKS YARD #3 14220 HIGHWAY 50- R.R. #2 TOWN OF CALEDON ON L7E 5R2	GEN

Generator No: ON0148320
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.
Approval Years: 98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	3 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOTLON ON L7E 5R8	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	4 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	5 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2010
PO Box No:
Country:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	6 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	7 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: Other Automotive Mechanical and Electrical Repair and Maintenance
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	8 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON	GEN

Generator No: ON0813202

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

2	9 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT
Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.21
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Name: LIGHT FUELS

2	10 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON PUBLIC WORKS YARD 3 14220 HIGHWAY 50 BOLTON ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT

Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.21
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

---

2 | ***11 of 17*** | ***ESE/14.1*** | ***264.8 / 4.58*** | ***TOWN OF CALEDON***
PUBLIC WORKS YARD 3 14220 HIGHWAY 50
BOLTON ON L7E 3E2 | ***GEN***

Generator No: ON0813202
SIC Code: 811119
SIC Description: OTHER AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: ANDREA BROWNSETT
Choice of Contact: CO_ADMIN
Phone No Admin: 519-927-3060 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

---

2 | ***12 of 17*** | ***ESE/14.1*** | ***264.8 / 4.58*** | ***TOWN OF CALEDON***
14220 HIGHWAY 50
Caledon ON L7E 3E2 | ***GEN***

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	13 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON 14220 HIGHWAY 50 Caledon ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	14 of 17	ESE/14.1	264.8 / 4.58	TOWN OF CALEDON 14220 HIGHWAY 50 Caledon ON L7E 3E2	GEN

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

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2 ***15 of 17*** ***ESE/14.1*** ***264.8 / 4.58*** ***TOWN OF CALEDON***
14220 HIGHWAY 50
Caledon ON L7E 3E2 ***GEN***

Generator No: ON0813202
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221 L
Waste Class Name: LIGHT FUELS

---

2 ***16 of 17*** ***ESE/14.1*** ***264.8 / 4.58*** ***14220 Hwy 50 HWY***
CALEDON ON L7E 3E2 ***PES***

Detail Licence No:
Licence No: L-240-5174126238
Status: Active
Approval Date: April 20, 2022
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 43.89055556
Longitude: -79.75611111
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Halton-Peel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

County: **SWP Area Name:** Toronto
Trade Name:
PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2626338

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2 | 17 of 17 | ESE/14.1 | 264.8 / 4.58 | **CORPORATION OF THE TOWN OF CALEDON**
14220 Hwy 50 HWY
CALEDON ON L7E 3E2 | PES

Detail Licence No:
Licence No: L-240-8263435917
Status: Active
Approval Date: July 3, 2024
Report Source: PEST-Operator
Licence Type: Operator
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 43.89055556
Longitude: -79.75611111
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3561182

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Halton-Peel
SWP Area Name: Toronto

---

3 | 1 of 11 | ESE/20.1 | 264.9 / 4.61 | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON L7E 5R8 | DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9707693
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:

Expired Date: 4/24/1996
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Description:					
Original Source:		EXP			
Record Date:		Up to May 2013			
3	2 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10582663	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	28365	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	3 of 11	ESE/20.1	264.9 / 4.61	YG GAS BAR 14289 HWY 50 N LOT 12 C-7 BOLTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10582713	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	28614	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012
Piping Underground:
Tank Underground:
Source:

3	*4 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10582634
Status: EXPIRED
Instance ID: 29342
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012
Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

3	*5 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance No:	10582582	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	29680	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

3	*6 of 11*	*ESE/20.1*	*264.9 / 4.61*	***YG GAS BAR*** ***14289 HWY 50 N LOT 12 C-7*** ***BOLTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10582760	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	29980	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

---

3 | 7 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582610
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 27200
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Diesel
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

3 | 8 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582690
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

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3 | 9 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582555
Inventory Status: EXPIRED
Installation Year: 1991
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Steel
Corrosion Protect: Sacrificial anode
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

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3 | 10 of 11 | ESE/20.1 | 264.9 / 4.61 | YG GAS BAR, 14289 HWY 50 N LOT 12 C-7, BOLTON ON | EXP

Inventory No: 10582650
Inventory Status: EXPIRED
Installation Year: 1988
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline

---

3 | **11 of 11** | **ESE/20.1** | **264.9 / 4.61** | **YG GAS BAR**
14289 HWY 50 N LOT 12 C-7
BOLTON ON | **EXP**

Inventory No: 10582737
Inventory Status: EXPIRED
Installation Year: 1988
Capacity: 22700
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline
Tank Material: Steel
Corrosion Protect: Sacrificial anode
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

4 | **1 of 1** | **ESE/21.3** | **261.8 / 1.52** | **60 Alderbrook Place, Bolton**
Caledon ON | **SPL**

Ref No: 8371-8U5PPY
Year:
Incident Dt: 09-MAY-12
Dt MOE Arvl on Scn:
MOE Reported Dt: 09-MAY-12
Dt Document Closed: 25-JUL-12
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Enbridge Gasline - 1/2 " plastic <UNOFFICIAL>
Site Address: 60 Alderbrook Place, Bolton
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Air Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: TSSA: 1/2 " gasline damage. made safe.
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Other
SAC Action Class: TSSA - Fuel Safety Branch
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

---

5 | ***1 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***CALEDON HYDRO***
14442 HWY 50 (JAMES DICK CONSTRUCTION)
TRANSFORMER/CAPACITOR
CALEDON TOWN ON | ***SPL***

Ref No: 168745 ***Municipality No:*** 21401
Year: ***Nature of Damage:***
Incident Dt: 6/10/1999 ***Discharger Report:***
Dt MOE Arvl on Scn: ***Material Group:***
MOE Reported Dt: 6/10/1999 ***Impact to Health:***
Dt Document Closed: ***Agency Involved:***
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: CALEDON TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: COOLING SYSTEM LEAK
Incident Preceding Spill:
Environment Impact: CONFIRMED
Health Env Consequence:
Nature of Impact: Multi Media Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: EQUIPMENT FAILURE
Incident Summary: CALEDON HYDRO-20 L NON- PCB X-FORMER OIL TO GND, OLD CAR. CLEANED.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	2 of 7	NNE/26.9	259.6 / -0.64	Caledon Sand & Gravel Inc. 14442 Regional Road 50 Bolton ON L7E 3E2	SCT

Established: 01-JUL-66
Plant Size (ft²):
Employment:

--Details--
Description: Sand and Gravel Mining and Quarrying
SIC/NAICS Code: 212323

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	3 of 7	NNE/26.9	259.6 / -0.64	James Dick Construction Ltd. 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	4 of 7	NNE/26.9	259.6 / -0.64	James Dick Concrete Aggregates 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	5 of 7	NNE/26.9	259.6 / -0.64	Hamilton Ready Mix Ltd. 14442 Highway 50 Bolton ON L7E 5R8	SCT

Established: 1967
Plant Size (ft²):
Employment: 15

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

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5 | ***6 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***James Dick Construction Ltd.***
14442 Regional Road 50
Bolton ON L7E 3E2 | ***SCT***

Established: 01-JUL-64
Plant Size (ft²): 10000
Employment:

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

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5 | ***7 of 7*** | ***NNE/26.9*** | ***259.6 / -0.64*** | ***James Dick Construction Limited***
14442 Hwy 50
Caledon ON | ***SPL***

Ref No: 2568-8P4D39
Year:
Incident Dt: 11/30/2011
Dt MOE Arvl on Scn: 11/30/2011
MOE Reported Dt: 11/30/2011
Dt Document Closed:
Site No:
MOE Response: Planned Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: James Dick Truck Storage Yard
Site Address: 14442 Hwy 50
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: NA
Easting: NA
Incident Cause:
Incident Preceding Spill:
Environment Impact: Possible
Health Env Consequence:
Nature of Impact: Soil Contamination; Surface Water Pollution
Contaminant Qty: 500 L
Contaminant Qty 1: 500
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: MVA: truck fire causing diesel and hyd.oil spill to road.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: James Dick Construction Limited

6	1 of 12	NNE/32.0	264.1 / 3.89	S & F SERVICE 14445 HWY 50 BOLTON ON L7E3H6	RST

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

6	2 of 12	NNE/32.0	264.1 / 3.89	YASHRAJ INC 14445 HWY 50 BOLTON ON L7E 3H6	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9771810
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description:

Expired Date: 12/7/2009 10:39
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Original Source:		EXP			
Record Date:		Up to May 2013			

6 **3 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64470999	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **4 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64471000	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **5 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64471001	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	25000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

6 **6 of 12** **NNE/32.0** **264.1 / 3.89** **PETRO V PLUS LTD O/A ESSO** **FST**
14445 HWY 50
BOLTON ON

Inventory No:	64470998	**Tank Material:**	Steel
Inventory Status:	active	**Corrosion Protect:**	Sacrificial Anode
Installation Year:	1989	**Overfill Protection:**	
Capacity:	50000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Single Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	7 of 12	NNE/32.0	264.1 / 3.89	by 14445 Regional Rd 50, Bolton Caledon ON	SPL

Ref No:	0241-9HTLC9	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	2014/03/20	**Discharger Report:**	
Dt MOE Arvl on Scn:	2014/04/28	**Material Group:**	
MOE Reported Dt:	2014/04/03	**Impact to Health:**	
Dt Document Closed:	2014/07/03	**Agency Involved:**	
Site No:	NA		
MOE Response:	Deferred Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	Bell manhole<UNOFFICIAL>		
Site Address:	by 14445 Regional Rd 50, Bolton		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Unknown / N/A		
Incident Preceding Spill:			
Environment Impact:	Confirmed		
Health Env Consequence:			
Nature of Impact:	Soil Contamination		
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:			
Source Type:			
Contaminant Code:	15		
Contaminant Name:	PETROLEUM OIL (N.O.S.)		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Oily black water in Bell manhole		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Unknown / N/A		
SAC Action Class:	Land Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	8 of 12	NNE/32.0	264.1 / 3.89	PETRO V PLUS LTD O/A ESSO 14445 HWY 50 BOLTON ON	INC

Incident No:	1776110	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:	49134275	**Service Intrp:**	
Status Code:		**Was Prop Damaged:**	
Incident Status:	Causal Analysis Complete	**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Task No:		**Indus App. Type:**	
Attribute Category:	FS-Incident	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	12/22/2015	**Operation Pressure:**	
Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:	12/22/2015	**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Leak	**Contam. Migrated:**	
Occur Type Rpt:	Leak	**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Gasoline	**Sub Surface Contam:**	
Fuel Type Reported:	Transportation Fuel	**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14445 HWY 50		
Invent Postal Code:	L7E 3H6		
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	Underground piping damaged while ashphalt being cut		
Operation Type Involved:	Retail Fuel Station (FS, SS, Multifunctional)		

6	9 of 12	NNE/32.0	264.1 / 3.89	**Facility Maintenance & Construction Inc.** **14445 Regional Rd. 50** **Caledon ON NA**	SPL

Ref No:	7830-A5FS4W	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	12/22/2015	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	12/22/2015	**Impact to Health:**	
Dt Document Closed:		**Agency Involved:**	
Site No:	5614-A5GNC8		
MOE Response:	No		
Site County/District:			
Site Geo Ref Meth:	NA		
Site District Office:			
Nearest Watercourse:			
Site Name:	Esso Gas Station		
Site Address:	14445 Regional Rd. 50		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:	NA		

Site Map Datum:	NA
Northing:	NA
Easting:	NA
Incident Cause:	
Incident Preceding Spill:	
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 L
Contaminant Qty 1:	0
Contaminant Unit:	L
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA FSB Esso: Product line cut by contractor
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Other
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Facility Maintenance & Construction Inc.

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6 | **10 of 12** | **NNE/32.0** | **264.1 / 3.89** | **Petro V Plus**
14445 Regional Rd 50
Bolton ON L7E3H6 | **GEN**

Generator No:	ON5794264
SIC Code:	447110
SIC Description:	447110
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Giulio Dinuzzo
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	416-2006268 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

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6 | **11 of 12** | **NNE/32.0** | **264.1 / 3.89** | **PETRO V PLUS LTD O/A ESSO**
14445 HWY 50,,BOLTON,ON,L7E 3H6,CA
ON | **INC**

Incident No:	1776104	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:		**Service Intrp:**	
Status Code:		**Was Prop Damaged:**	
Incident Status:		**Reside App. Type:**	

Incident Severity:		***Commer App. Type:***	
Task No:		***Indus App. Type:***	
Attribute Category:	FS-Incident	***Institut App. Type:***	
Context:		***Depth Ground Cover:***	
Date of Occurrence:	12/22/2015	***Operation Pressure:***	
Time of Occurrence:		***Equipment Type:***	
Occr Insp Start Dt:		***Equipment Model:***	
Incident Creat On:		***Serial No:***	
Instance Creat Dt:		***Cylinder Capacity:***	
Instance Install Dt:		***Cylinder Cap Units:***	
Approx Quant Rel:		***Cylinder Mat Type:***	
Tank Capacity:		***Pump Flow Rate Cap:***	
Fuels Occur Type:		***Contam. Migrated:***	
Occur Type Rpt:		***Near Body of Water:***	
Occur Category:		***Drainage System:***	
Fuel Type Involved:		***Sub Surface Contam:***	
Fuel Type Reported:		***Tank Material Type:***	
Enforcement Policy:		***Tank Storage Type:***	
Prc Escalation Req:		***Tank Location Type:***	
Item:	FS GASOLINE STATION - SELF SERVE		
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14445 HWY 50,,BOLTON,ON,L7E 3H6,CA		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:			
Operation Type Involved:			

6	***12 of 12***	***NNE/32.0***	***264.1 / 3.89***	***PETRO V PLUS LTD O/A ESSO*** ***14445 HWY 50*** ***BOLTON ON***	***FST***

Inventory No:	49134275	***Tank Material:***	
Inventory Status:	Active	***Corrosion Protect:***	
Installation Year:		***Overfill Protection:***	
Capacity:	125000	***Inventory Context:***	Liquid Fuels
Capacity Unit:	L	***Inventory Item:***	FS Gasoline Station - Self Serve
Tank Type:			
Manufacturer:			
Model:			
Description:			

7	***1 of 2***	***N/35.6***	***265.9 / 5.61***	***14475 Highway 50*** ***Caledon ON***	***SPL***

Ref No:	1388-9JHT3H	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	2014/04/25	***Discharger Report:***	

Dt MOE Arvl on Scn:	2014/04/29	**Material Group:**	
MOE Reported Dt:	2014/04/25	**Impact to Health:**	
Dt Document Closed:	2014/07/03	**Agency Involved:**	
Site No:	NA		
MOE Response:	Planned Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	diesel spill<UNOFFICIAL>		
Site Address:	14475 Highway 50		
Site Region:			
Site Municipality:	Caledon		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Unknown / N/A		
Incident Preceding Spill:			
Environment Impact:	Confirmed		
Health Env Consequence:			
Nature of Impact:	Soil Contamination		
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:			
Source Type:			
Contaminant Code:	15		
Contaminant Name:	OIL (PETROLEUM BASED, NOT SPECIFIED)		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Unknown source: oil coming up in excavation for cables		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Unknown / N/A		
SAC Action Class:	Primary Assessment of Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

7	2 of 2	N/35.6	265.9 / 5.61	14475 HIGHWAY 50, CALEDON ON	INC

Incident No:	1381602	**Any Health Impact:**	Unknown
Incident ID:		**Any Enviro Impact:**	Unknown
Instance No:		**Service Intrp:**	Unknown
Status Code:		**Was Prop Damaged:**	Unknown
Incident Status:		**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	
Task No:	4895060	**Indus App. Type:**	
Attribute Category:	FS-Perform L1 Incident Insp	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	2014/04/28 00:00:00	**Operation Pressure:**	
Time of Occurrence:	12:00:00	**Equipment Type:**	
Occr Insp Start Dt:	2014/04/28 00:00:00	**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	

Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Leak	**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Fuel Oil	**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:	NULL	**Tank Storage Type:**	
Prc Escalation Req:	NULL	**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:			
Pipeline Involved:			
Pipe Material:			
Regulator Location:			
Regulator Type:			
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	14475 HIGHWAY 50, CALEDON - LEAK		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	spill not confirmed of the origin		
Operation Type Involved:	Commercial (e.g. restaurant, business unit, etc)		

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8 | **1 of 1** | **S/35.7** | **261.5 / 1.22** | **PAPERTIOUS INVESTMENTS INC.**
No Municipal Address
Caledon ON | **RSC**

RSC No:	223186	**X:**	-79.7614996397065
RA No:		**Y:**	43.875729743163824
Status:	FILED	**Latitude:**	43.87572974
Filing Date:		**Longitude:**	-79.76149964
Date Ack:		**UTM Coordinates:**	
Date Returned:		**Latitude Longitude:**	
Approval Date:	April 26, 2017	**Accuracy Estimate:**	
Cert Date:		**Measurement Method:**	
Cert Prop Use No:		**Mailing Address:**	
Curr Property Use:		**Telephone:**	
Intended Prop Use:		**Fax:**	
Restoration Type:		**Email:**	
Soil Type:		**Postal Code:**	
Criteria:		**Ministry District:**	
Stratified (Y/N):		**MOE District:**	Halton-Peel
Audit (Y/N):		**SWP Area Name:**	Toronto
Entire Leg Prop. (Y/N):		**Qual Person Name:**	SIMON LAN
CPU Issu Sect 1686:		**Consultant:**	
Business Name:	PAPERTIOUS INVESTMENTS INC.		
Address:	No Municipal Address		
Legal Desc:			
Site Pin:	14326-1098 (LT), 14326-1099 (LT), 14326-1134 (LT), 14326-1331 (LT), 14326-1332 (LT), 14326-1333 (LT), 14326-1334 (LT), 14326-1335 (LT), 14326-1371 (LT), 14326-1372 (LT), 14326-1373 (LT), 14326-1374 (LT), 14326-1377 (LT), 14326-1378 (LT), 14330-0545 (LT)		
Asmt Roll No:			
Project Type:	POST2011		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type: RSC based on Phase One and Two ESAs
Applicable Standards:
PDF Link: https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=223186

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9 | ***1 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital*** ***14182 Hwy 50 N.*** ***Bolton ON*** | ***GEN***

Generator No: ON6173942
SIC Code:
SIC Description:
Approval Years: 03
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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9 | ***2 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital Professional Corp.*** ***14182 Hwy 50 N.*** ***Bolton ON L7E 5R8*** | ***GEN***

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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9 | ***3 of 4*** | ***ESE/39.0*** | ***262.9 / 2.61*** | ***North Hill Animal Hospital Professional Corp.*** ***14182 Regional Road 50*** ***Bolton ON*** | ***GEN***

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 321
Waste Class Name: EXPLOSIVE MANUFACTURING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	4 of 4	ESE/39.0	262.9 / 2.61	North Hill Animal Hospital Professional Corp. 14182 Regional Road 50 Bolton ON	GEN

Generator No: ON6173942
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	1 of 2	E/49.1	264.8 / 4.58	Enbridge Energy Distribution Inc. 151 Taylorwood Ave, Bolton Halton Hills ON	SPL

Ref No: 2548-AXR42E
Year:
Incident Dt: 2018/04/11
Dt MOE Arvl on Scn:
MOE Reported Dt: 2018/04/11
Dt Document Closed: 2018/05/18
Site No: NA
MOE Response: No
Site County/District: Regional Municipality of Halton
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: 1/2 inch plastic IP<UNOFFICIAL>
Site Address: 151 Taylorwood Ave, Bolton
Site Region: Central
Site Municipality: Halton Hills
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 other - see incident description
Contaminant Qty 1:	0
Contaminant Unit:	other - see incident description
Client Type:	Corporation
Source Type:	Pipeline/Components
Contaminant Code:	35
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Limit 1:	
Contam Limit Freq 1:	n/a
Contaminant UN No 1:	1075
Receiving Medium:	Air
Incident Reason:	Operator/Human Error
Incident Summary:	TSSA 1/2 inch plastic IP damage, made safe
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Enbridge Energy Distribution Inc.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	2 of 2	E/49.1	264.8 / 4.58	**PIPELINE HIT 1/2"** **151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8, CA** **ON**	PINC

Incident Id:		**Pipe Material:**	
Incident No:	2281852	**Fuel Category:**	
Incident Reported Dt:	4/12/2018	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT 1/2"		
Incident Address:	151 TAYLORWOOD AVE,,BOLTON,ON,L7E 1S8,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON L7E 4G6**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON6379064
SIC Code: 611110
SIC Description:
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

11	2 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON L7E 4G6**	GEN

Generator No: ON6379064
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

11	3 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD** **St. Michael S.S., 9130 Columbia Way** **Bolton ON**	GEN

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

11	4 of 10	E/79.4	261.0 / 0.79	**DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6	

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

11	***5 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Agnes Zielinska
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-662-0062 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

11	***6 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD St. Michael S.S., 9130 Columbia Way Bolton ON L7E 4G6***	***GEN***

Generator No: ON6379064
SIC Code: 611110

SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Agnes Zielinska
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905-662-0062 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

11	***7 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD*** ***St. Michael S.S., 9130 Columbia Way*** ***Bolton ON L7E 4G6***	***GEN***

Generator No:	ON6379064
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2018
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	148 B
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 C
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 I
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 L
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	263 B
Waste Class Name:	Misc. waste organic chemicals

11	***8 of 10***	***E/79.4***	***261.0 / 0.79***	***DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD***	***GEN***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				St. Michael S.S., 9130 Columbia Way *Bolton ON L7E 4G6*	

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

11	*9 of 10*	*E/79.4*	*261.0 / 0.79*	*DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD* *St. Michael S.S., 9130 Columbia Way* *Bolton ON L7E 4G6*	*GEN*

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

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11 | **10 of 10** | **E/79.4** | **261.0 / 0.79** | **DUFFERIN-PEEL CATHOLIC DISTRICT SCHOOL BOARD**
St. Michael S.S., 9130 Columbia Way
Bolton ON L7E 4G6 | **GEN**

Generator No: ON6379064
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 L
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 B
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

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12 | **1 of 2** | **ESE/81.3** | **264.6 / 4.34** | **WYNDCLIFFE DEVELOPMENTS INC.**
COLEMAN CT./KINGSVIEW DR.
CALEDON TOWN ON | **CA**

Certificate #: 3-1348-93-
Application Year: 93
Issue Date: 12/9/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	2 of 2	ESE/81.3	264.6 / 4.34	WYNDCLIFFE DEVELOPMENTS INC. COLEMAN CT./KINGSVIEW DR. CALEDON TOWN ON	CA

Certificate #: 7-1044-93-
Application Year: 93
Issue Date: 12/9/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 2	E/89.3	257.9 / -2.37	13 Foxbury Place, Caledon ON	PINC

Incident Id:
Incident No: 874068
Incident Reported Dt:
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Tank Status: RC Established
Task No: 4025164
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt: 2012/09/19
Depth:
Customer Acct Name:
Incident Address:
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 13 Foxbury Place, Caledon - 1/2" Pipeline Hit
Reported By: jamie.amodeo@enbridge.com
Affiliation:
Occurrence Desc:
Damage Reason: Notification to one call center made but not sufficient
Notes:

Pipe Material:
Fuel Category: Natural Gas
Health Impact:
Environment Impact:
Property Damage: Yes
Service Interrupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
PSIG:
Attribute Category: FS-Perform P-line Inc Invest
Regulator Location:
Method Details: E-mail

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	2 of 2	E/89.3	257.9 / -2.37	PIPELINE HIT 0.5" 13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA ON	PINC

Incident Id:
Incident No: 979246
Incident Reported Dt: 12/17/2012
Type: FS-Pipeline Incident
Status Code:
Tank Status: Pipeline Damage Reason Est

Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT 0.5"		
Incident Address:	13 FOXBURY PLACE,,BOLTON,ON,L7E 1H9,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Limited Vendor	**Oper Phone No:**	
Licence Type Code:	23	**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	2 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Vendor	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Trade Name:					
PDF URL:					

14	3 of 4	ESE/117.8	262.9 / 2.61	Grant Thornton 14124 Regional Road #50 Bolton ON	GEN

Generator No: ON7434239
SIC Code: 523990
SIC Description: All Other Financial Investment Activities
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

14	4 of 4	ESE/117.8	262.9 / 2.61	WOODY'S BUILDING PRODUCTS 14124 HIGHWAY # 50, RR 2 BOLTON ON L7E3E2	PES

Detail Licence No:
Licence No: 14279
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class: 01
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 9519944
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

15	1 of 1	ESE/129.6	262.8 / 2.56	7 Rotarian Way, Caledon ON	INC

Incident No: 466328
Incident ID: 2618220
Instance No:
Status Code: Causal Analysis Complete
Incident Status:
Incident Severity:
Task No:
Attribute Category: FS-Incident
Context:
Date of Occurrence:

Any Health Impact:
Any Enviro Impact:
Service Intrp:
Was Prop Damaged:
Reside App. Type:
Commer App. Type:
Indus App. Type:
Institut App. Type:
Depth Ground Cover:
Operation Pressure: IP

Time of Occurrence:		**Equipment Type:**	
Occr Insp Start Dt:		**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:		**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:		**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:		**Tank Storage Type:**	
Prc Escalation Req:		**Tank Location Type:**	
Item:			
Item Description:			
Device Installed Location:			
Venting Type:			
Vent Conn Mater:			
Vent Chimney Mater:			
Pipeline Type:	Service / Riser Distribution Pipeline		
Pipeline Involved:			
Pipe Material:	Plastic		
Regulator Location:	Outside		
Regulator Type:	Service Regulator (up to 60 psi intake)		
Liquid Prop Make:			
Liquid Prop Model:			
Liquid Prop Serial No:			
Liquid Prop Notes:			
Inventory Address:	7 Rotarian Way, Caledon - 1" Pipeline Hit		
Invent Postal Code:			
Notes:			
Contact Natural Env:			
Aff Prop Use Water:			
Occurence Narrative:	Contractor had exposed service with Vac Truck.Had valid locates.Operator error.		
Operation Type Involved:			

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16 | **1 of 1** | **SE/137.9** | **262.7 / 2.44** | **CORPORATION OF THE TOWN OF CALEDON**
14220 Hwy 50 HWY
CALEDON ON L7E 3E2 | **PES**

Detail Licence No:		**Operator Box:**	
Licence No:	L-240-6207315806	**Operator Class:**	
Status:	Active	**Operator No:**	
Approval Date:	January 11, 2023	**Operator Type:**	
Report Source:	PEST-Operator	**Oper Area Code:**	
Licence Type:	Operator	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:	43.89055556	**Operator Region:**	
Longitude:	-79.75611111	**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	Halton-Peel
County:		**SWP Area Name:**	Toronto
Trade Name:			
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2830780		

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17 | **1 of 1** | **SE/161.0** | **260.8 / 0.55** | **Progreen Demolition Ltd.**
14328 Hwy 50 | **GEN**

Bolton ON

Generator No: ON6458484
SIC Code: 236110
SIC Description: Residential Building Construction
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

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18 ***1 of 4*** ***SE/182.2*** ***261.5 / 1.28*** ***CALEDON GARDEN GALLERY INC***
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8 ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: General Vendor
Licence Type Code: 22
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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18 ***2 of 4*** ***SE/182.2*** ***261.5 / 1.28*** ***CALEDON GARDEN GALLERY INC***
14118 HIGHWAY 50, RR#2
CALEDON ON L7E5R8 ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
County:				**SWP Area Name:**	
Trade Name:					
PDF URL:					

18	3 of 4	SE/182.2	261.5 / 1.28	14118 Hwy 50 BOLTON ON	HINC

External File Num:	FS INC 0704-01940
Fuel Occurrence Type:	Pipeline Strike
Date of Occurrence:	4/19/2007
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Construction Site (pipeline strike)
Service Interruptions:	Yes
Property Damage:	Yes
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Peel
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

18	4 of 4	SE/182.2	261.5 / 1.28	CALEDON GARDEN GALLERY INC 14118 HIGHWAY 50, RR#2 CALEDON ON L7E5R8	PES

Detail Licence No:		**Operator Box:**	
Licence No:	13482	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	General Vendor	**Oper Phone No:**	8570416
Licence Type Code:	22	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

19	1 of 1	E/188.7	261.1 / 0.83	THE NEEDLEWORKS 8 TAYLORWOOD AVE BOLTON ON L7E 1J2	SCT

Established:	1994
Plant Size (ft²):	0
Employment:	0

--Details--
Description: PLEATING, DECORATIVE AND NOVELTY STITCHING, AND TUCKING FOR THE TRADE
SIC/NAICS Code: 2395

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20 | ***1 of 1*** | ***E/199.5*** | ***260.9 / 0.61*** | ***22-80 Goodfellow Cres., Bolton Caledon ON*** | ***SPL***

Ref No: 0163-6ATUN3
Year:
Incident Dt: 3/25/2005
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/25/2005
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: 16-20 Homes<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Unknown
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Surface Water Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason: Unknown - Reason not determined
Incident Summary: Small Qty oil in SS: Flushed to Humber
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Unknown
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Municipality No:
Nature of Damage:
Discharger Report: 0
Material Group: Oil
Impact to Health:
Agency Involved:

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21 | ***1 of 2*** | ***E/209.0*** | ***259.9 / -0.39*** | ***RANDY E NOBES 20 EWART ST NORTHAM IND PARK COBOURG ON*** | ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10462049	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	19733	***Facility Location:***	
Instance Type:	FS Highway Tank - Gas/Diesel	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS HIGHWAY TANK - GASOLINE/DIESEL		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

21	***2 of 2***	***E/209.0***	***259.9 / -0.39***	***RANDY E NOBES*** ***20 EWART ST NORTHAM IND PARK*** ***COBOURG ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10462043	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	20724	***Facility Location:***	
Instance Type:	FS Highway Tank - Gas/Diesel	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			

TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS HIGHWAY TANK - GASOLINE/DIESEL
Original Source: EXP
Record Date: Up to Mar 2012

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22 | ***1 of 1*** | ***E/218.6*** | ***259.9 / -0.39*** | ***The Regional Municipality of Peel***
16 Ewart St
Caledon ON L7E 2T3 | ***SPL***

Ref No: 5552-AE9HWP
Year:
Incident Dt: 9/28/2016
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/29/2016
Dt Document Closed: 10/3/2016
Site No: 0875-AEAHJQ
MOE Response:
Site County/District:
Site Geo Ref Meth: NA
Site District Office:
Nearest Watercourse:
Site Name: Residence
Site Address: 16 Ewart St
Site Region:
Site Municipality: Caledon
Site Lot:
Site Conc:
Site Geo Ref Accu: NA
Site Map Datum: NA
Northing: NA
Easting: NA
Incident Cause:
Incident Preceding Spill: Leak/Break
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 20 L
Contaminant Qty 1: 20
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason: Equipment Failure
Incident Summary: Region of Peel: swg to roadway and cb's; cleaned
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Municipal Sewage
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: The Regional Municipality of Peel

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Unplottable Summary

Total: 71 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 12 Con 5	Caledon ON	
CA	Vincos Corp.	Part of Lot 10, Concession 5	Caledon ON	
CA	James Dick Construction Limited	mobile facility	Caledon ON	
CA	Vincos Corp.	Part of Lot 10, Concession 5	Caledon ON	
CA	CALEDON SAND & GRAVEL INC.	R.R. #2	CALEDON TOWN ON	
CA	BETOMAT CONCRET PRODUCTS	PART LOT 10 CONC. V	CALEDON TOWN ON	
CA		Part of the West Half of Lot 10, Concession 8	Caledon ON	
CA		Part of the West Half of Lot 10, Concession 8	Caledon ON	
CA	Palgrave Well No. 3	Mount Hope Road	Caledon ON	
CA	Palgrave Well No. 3	Mount Hope Road	Caledon ON	
CA		Part of Lot 10, Concession 5	Caledon ON	
CA		Part of Lot 10, Concession 5	Caledon ON	
CA		Part of W.1/2 Lot 10, Conc. 8 (Albion)	Caledon ON	
CA		Part of W.1/2 Lot 10, Conc. 8 (Albion)	Caledon ON	
CA		Lots 9 and 10, Concession 5	Caledon ON	
CA		Lots 9 and 10, Concession 5	Caledon ON	
CA	CLINT DEVELOPMENTS INC.	PT.LOT 10/CONC. 8, ALBION TWP.	CALEDON TOWN ON	
CA	PAPERTIOUS INVESTMENTS	LOT 10,CON.5/STS.A/C&L	CALEDON ON	

	INC.			
CA	PAPERTIOUS INVESTMENTS INC.	PT.LOTS 9&10, CONC. 5, BOLTON	CALEDON ON	
CA	PAPERTIOUS INVESTMENTS INC.	LOT 10, CON.5/STS.A/C&L	CALEDON ON	
CA	WYNDCLIFFE ESTATES INC. PH. IV	KINGSVIEW DR. HUMBERVIEW HILLS	CALEDON TOWN ON	
CA	R.M. OF PEEL-BOLTON WELL PUMPING STATION	NO. 6 GLASGOW ROAD	CALEDON TOWN ON	
CA	SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS	GOODFELLOW CRES. PH.III ST. II	CALEDON TOWN ON	
CA	WYNDCLIFFE ESTATES INC. PH. IV	KINGSVIEW DR. HUMBERVIEW HILLS	CALEDON TOWN ON	
CA	R.M. OF PEEL ANN ST. /STATION ST.	KING STREET WEST	CALEDON TOWN ON	
CA	SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS	GOODFELLOW CRES.PH. III ST. II	CALEDON TOWN ON	
CA	R.M. OF PEEL	KING ST. WEST (BOLTON)	CALEDON TOWN ON	
CA	JAMES DICK CONSTRUCTION LIMITED	PT.LOT 13/CONC.6, BOLTON	CALEDON TOWN ON	
EBR	James Dick Construction Limited	Mobile facility Caledon, Regional Municipality of Peel TOWN OF CALEDON	ON	
ECA	The Corporation of the Town of Caledon	Columbia Way Lot 10-11 and Concession 7	Caledon ON	L7C 1J6
ECA	James Dick Construction Limited	mobile facility	Caledon ON	L7E 5R8
ECA	Papertious Investments Inc.		Caledon ON	L4K 4R1
FST	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FST	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FSTH	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
FSTH	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	Monterra Lumber Mills Limited	Highway 50	Bolton ON	L7E 1M5
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4

GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	
GEN	KEN'S LAWNMOWER REPAIRS LTD.	LOT 14, CONCESSION 6	CALEDON ON	
GEN	KEN'S LAWNMOWER REPAIRS LTD. 23-511	LOT 14, CONC6, TOWN OF CALEDON C/O R.R. #2	BOLTON ON	L7E 5R8
GEN	KEN'S LAWNMOWER REPAIRS LTD.	LOT 14, CONC6,	TOWN OF CALEDON ON	L7E 5R8
GEN	CALEDON, TOWN OF	PUBLIC WORKS YARD 3 LOT 11, CONCESSION 6	CALEDON EAST ON	L0N 1E0
GEN	JAMES DICK CONSTRUCTION LIMITED	P.O. BOX 470	BOLTON ON	L7E 5T4
GEN	JAMES DICK CONSTRUCTION LIMITED	LOT 13, CONCESSION 6	CALEDON ON	
GEN	JAMES DICK CONSTRUCTION LTD. 22-148	LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470	BOLTON ON	L0P 1A0
GEN	JAMES DICK CONSTRUCTION LTD.	LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470	BOLTON ON	L0P 1A0
PES	SAINT'S COLD CREEK NURSERY	R.R. #2, HWY. 50	BOLTON ON	L7E 5R8
PRT	S & F SERVICE DIV OF 490474 ONTARIO LTD	LOT 12 CON 7 HWY 50N	BOLTON ON	
PRT	MBH PETROLEUM SERVICES INC	LOT 13 CON 7	BOLTON ON	

PRT	JAMES DICK CONSTRUCTION LTD	LOT 13 CON 7	CALEDON ON	
SCT	James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.	Hwy 50	Bolton ON	L7E 5T4
SCT	JAMES DICK CONCRETE AGGREGATES	PO BOX 470 STN MAIN	ON	L7E 5T4
SCT	JAMES DICK CONCRETE AGGREGATES		BOLTON ON	L7E 5T4
SCT	James Dick Construction Ltd.		Bolton ON	
SCT	Caledon Sand & Gravel Inc.	Hwy 50	Bolton ON	L7E 5Z7
SCT	CALEDON SAND & GRAVEL INC.	HIGHWAY 50 RR 1	BOLTON ON	L7E 5Z7
SCT	JAMES DICK CONCRETE AGGREGATES	HWY 50	BOLTON ON	L7E 5T4
SPL	UNKNOWN	HWY 50,BOLTON	CALEDON TOWN ON	
SPL	James Dick Construction Limited	North West Corner	Caledon ON	
SPL	ROTHSAY	HWY 50, 1 KM NORTH OF KING ST IN BOLTON TRANSPORT TRUCK (CARGO)	CALEDON TOWN ON	

Unplottable Report

Site:
Lot 12 Con 5 Caledon ON

Database:
AAGR

Type:	Pit
Region/County:	Peel
Township:	Caledon
Concession:	5
Lot:	12
Size (ha):	0.1
Landuse:	
Comments:	

Site: ***Vincos Corp.***
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	5442-5NKPJW
Application Year:	2003
Issue Date:	6/17/2003
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: ***James Dick Construction Limited***
mobile facility Caledon ON

Database:
CA

Certificate #:	8517-7EDPJG
Application Year:	2008
Issue Date:	6/12/2008
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Vincos Corp.***
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	9272-5TLK7Y
Application Year:	2003
Issue Date:	12/9/2003
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: ***CALEDON SAND & GRAVEL INC.***
R.R. #2 CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3483-93-
Application Year: 93
Issue Date: 10/20/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: (2) WASTE OIL FURNACES MODEL GV-2000X
Contaminants:
Emission Control:

Site: ***BETOMAT CONCRET PRODUCTS***
PART LOT 10 CONC. V CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3038-87-
Application Year: 87
Issue Date: 6/25/1987
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: CONCRETE BRICK MFG.
Contaminants:
Emission Control:

Site:
Part of the West Half of Lot 10, Concession 8 Caledon ON

Database: ***CA***

Certificate #: 6203-4H7LEQ
Application Year: 00
Issue Date: 3/9/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Clint Developments Inc.
Client Address: 222 Lesmill Road
Client City: North York
Client Postal Code: M3B 2T5
Project Description: Watermains and all appurtenances to be constructed in conjunction with Project No. T-98002C.
Contaminants:
Emission Control:

Site:
Part of the West Half of Lot 10, Concession 8 Caledon ON

Database: ***CA***

Certificate #: 8654-4H7KTU
Application Year: 00
Issue Date: 3/9/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Clint Developments Inc.
Client Address: 222 Lesmill Road
Client City: North York
Client Postal Code: M3B 2T5
Project Description: Sanitary and storm sewers and all appurtenances to be constructed in conjunction with Project No.T-98002C.
Contaminants:
Emission Control:

Site: ***Palgrave Well No. 3***
Mount Hope Road Caledon ON

Database: ***CA***

Certificate #: 1565-5AUJGA
Application Year: 02
Issue Date: 6/13/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name: The Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive, Fourth Floor
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Amend CofA to extend GUDI deadline.
Contaminants:
Emission Control:

Site: ***Palgrave Well No. 3***
Mount Hope Road Caledon ON

Database: ***CA***

Certificate #: 4850-56XV22
Application Year: 02
Issue Date: 6/13/02
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: The system comprises of three (3) well pump houses, reservoir and booster station and distribution system
Contaminants:
Emission Control:

Site:
Part of Lot 10, Concession 5 Caledon ON

Database: ***CA***

Certificate #: 8804-4Q7LKE
Application Year: 00
Issue Date: 10/25/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Valleygrove Investments Inc.
Client Address: 2458 Dundas Street West
Client City: Mississauga
Client Postal Code: L5K 1R8
Project Description: Construction of watermains in the Town of Caledon (Bolton) under Project 21T-89037c.
Contaminants:
Emission Control:

Site:
Part of Lot 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	1503-4Q6QFE
Application Year:	00
Issue Date:	10/25/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Valleygrove Investments Inc.
Client Address:	2458 Dundas Street West
Client City:	Mississauga
Client Postal Code:	L5K 1R8
Project Description:	Construction of Sanitary sewers in the Town of Caledon (Bolton) under project 21T-89037c.
Contaminants:	
Emission Control:	

Site:
Part of W.1/2 Lot 10, Conc. 8 (Albion) Caledon ON

Database:
CA

Certificate #:	8324-4HNTLF
Application Year:	00
Issue Date:	3/30/00
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Worldcom Meadows Inc.
Client Address:	55 Blue Willow Drive
Client City:	Woodbridge
Client Postal Code:	L4L 9E8
Project Description:	North Hill Villas, Town of Caledon
Contaminants:	
Emission Control:	

Site:
Part of W.1/2 Lot 10, Conc. 8 (Albion) Caledon ON

Database:
CA

Certificate #:	1255-4HNT8Q
Application Year:	00
Issue Date:	3/30/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Worldcom Meadows Inc.
Client Address:	55 Blue Willow Drive
Client City:	Woodbridge
Client Postal Code:	L4L 9E8
Project Description:	North Hill Villas, Town of Caledon
Contaminants:	
Emission Control:	

Site:
Lots 9 and 10, Concession 5 Caledon ON

Database:
CA

Certificate #:	0036-4VVRH4
Application Year:	01
Issue Date:	5/3/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Papertious Investments Inc.

Client Address: 1700 Langstaff Road, Suite 2003
Client City: Vaughan
Client Postal Code: L4K 3S3
Project Description: Watermains to be constructed on Harvest Mood Drive, Cedar Grove Road, Streets: E, F, H, M, O, P, Lismer Crescent, Grapevine Road and King Street West
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Lots 9 and 10, Concession 5 Caledon ON

Certificate #: 6126-4VXLS2
Application Year: 01
Issue Date: 5/3/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Papertious Investments Inc.
Client Address: 1700 Langstaff Road, Suite 2003
Client City: Vaughan
Client Postal Code: L4K 3S3
Project Description: Storm sewers to be constructed on Harvest Moon Drive, Cedar Grove Road, Streets: E, F, H, M, O, P, Lismer Crescent and Grapevine Road
Contaminants:
Emission Control:

Site: ***CLINT DEVELOPMENTS INC.*** ***Database:*** ***CA***
PT.LOT 10/CONC. 8, ALBION TWP. CALEDON TOWN ON

Certificate #: 3-1213-99-
Application Year: 99
Issue Date: 10/21/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.*** ***Database:*** ***CA***
LOT 10,CON.5/STS.A/C&L CALEDON ON

Certificate #: 7-0382-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.*** ***Database:*** ***CA***
PT.LOTS 9&10, CONC. 5, BOLTON CALEDON ON

Certificate #: 3-0578-98-
Application Year: 98
Issue Date: 6/22/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PAPERTIOUS INVESTMENTS INC.***
LOT 10, CON.5/STS.A/C&L CALEDON ON

Database: ***CA***

Certificate #: 3-0581-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WYNDCLIFFE ESTATES INC. PH. IV***
KINGSVIEW DR. HUMBERVIEW HILLS CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0613-89-
Application Year: 89
Issue Date: 5/2/1989
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 PEEL-BOLTON WELL PUMPING STATION***
NO. 6 GLASGOW ROAD CALEDON TOWN ON

Database: ***CA***

Certificate #: 7-0818-91-
Application Year: 91
Issue Date: 11/13/1992
Approval Type: Municipal water
Status: Approved in 1992
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS***
GOODFELLOW CRES. PH.III ST. II CALEDON TOWN ON

Database: ***CA***

Certificate #:	7-0465-86-
Application Year:	86
Issue Date:	5/27/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***WYNDCLIFFE ESTATES INC. PH. IV***
KINGSVIEW DR. HUMBERVIEW HILLS CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0690-89-
Application Year:	89
Issue Date:	5/2/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.M. OF PEEL ANN ST./STATION ST.***
KING STREET WEST CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0469-89-
Application Year:	89
Issue Date:	3/29/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***SUMMERCOURT ESTATES INC.HUMBERVIEW HILLS***
GOODFELLOW CRES.PH. III ST. II CALEDON TOWN ON

Database: ***CA***

Certificate #:	3-0622-86-
Application Year:	86
Issue Date:	5/27/1986
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	

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

Site: ***R.M. OF PEEL***
KING ST. WEST (BOLTON) CALEDON TOWN ON

Database: ***CA***

Certificate #: 3-2104-87-
Application Year: 87
Issue Date: 11/30/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***JAMES DICK CONSTRUCTION LIMITED***
PT.LOT 13/CONC.6, BOLTON CALEDON TOWN ON

Database: ***CA***

Certificate #: 8-3465-93-
Application Year: 93
Issue Date: 11/18/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: (2) WASTE OIL FURNACES, MODEL GV-2000X
Contaminants: Nitrogen Oxides
Emission Control: No Controls

Site: ***James Dick Construction Limited***
Mobile facility Caledon, Regional Municipality of Peel TOWN OF CALEDON ON

Database: ***EBR***

EBR Registry No: 010-2453
Ministry Ref No: 5347-79LQFX
Notice Type: Instrument Final Decision
Notice Stage:
Notice Date: December 15, 2008
Proposal Date: January 03, 2008
Year: 2008
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: James Dick Construction Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address:
Comment Period:
URL:
Summary:

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

Site Location Details:

Site: ***The Corporation of the Town of Caledon***
Columbia Way Lot 10-11 and Concession 7 Caledon ON L7C 1J6

Database: ***ECA***

Approval No:	6896-BRKPD4	***MOE District:***	
Approval Date:	2020-08-25	***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 Corporation of the Town of Caledon		
Address:	Columbia Way Lot 10-11 and Concession 7		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5043-BMBHXN-14.pdf		
PDF Site Location:			

Site: ***James Dick Construction Limited***
mobile facility Caledon ON L7E 5R8

Database: ***ECA***

Approval No:	8517-7EDPJG	***MOE District:***	
Approval Date:	2008-06-12	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	James Dick Construction Limited		
Address:	mobile facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5347-79LQFX-13.pdf		
PDF Site Location:			

Site: ***Papertious Investments Inc.***
Caledon ON L4K 4R1

Database: ***ECA***

Approval No:	1915-ABCNPV	***MOE District:***	
Approval Date:	2016-06-29	***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:	Papertious Investments Inc.		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6966-AB8KBM-14.pdf		
PDF Site Location:			

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FST***

Inventory No:	10637623	***Tank Material:***	Steel
Inventory Status:	Active	***Corrosion Protect:***	Impressed Current
Installation Year:		***Overfill Protection:***	
Capacity:		***Inventory Context:***	FS Liquid Fuel Tank

Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Inventory Item: FS LIQUID FUEL TANK

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FST***

Inventory No: 10637579
Inventory Status: Active
Installation Year:
Capacity:
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FSTH***

License Issue Date: 12/10/1990
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***FSTH***

License Issue Date: 12/10/1990
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1984
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122 L
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221 I
Waste Class Name: LIGHT FUELS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

Site: ***Monterra Lumber Mills Limited***
Highway 50 Bolton ON L7E 1M5

Database: ***GEN***

Generator No: ON3263771
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 265 L
Waste Class Name: Graphic arts wastes

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 145 I

Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 212 L

Waste Class Name: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald
Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald
Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Matt MacDonald

Choice of Contact: CO_ADMIN
Phone No Admin: 905-857-3500 Ext.257
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: SAND AND GRAVEL MINING AND QUARRYING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2012
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 212323
SIC Description: Sand and Gravel Mining and Quarrying
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***KEN'S LAWNMOWER REPAIRS LTD.***
LOT 14, CONCESSION 6 CALEDON ON

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 99,00,01,02,03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***KEN'S LAWNMOWER REPAIRS LTD. 23-511***
LOT 14, CONC6, TOWN OF CALEDON C/O R.R.#2 BOLTON ON L7E 5R8

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 94,95,96
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***KEN'S LAWNMOWER REPAIRS LTD.***
LOT 14, CONC6, TOWN OF CALEDON ON L7E 5R8

Database: ***GEN***

Generator No: ON1432300
SIC Code: 9949
SIC Description: OTHER REPAIR SERV.
Approval Years: 92,93,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***CALEDON, TOWN OF***
PUBLIC WORKS YARD 3 LOT 11, CONCESSION 6 CALEDON EAST ON L0N 1E0

Database: ***GEN***

Generator No: ON0813202
SIC Code: 4999
SIC Description: OTHER UTILITY IND.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
P.O. BOX 470 BOLTON ON L7E 5T4

Database: ***GEN***

Generator No: ON0662801
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LIMITED***
LOT 13, CONCESSION 6 CALEDON ON

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LTD. 22-148***
LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470 BOLTON ON L0P 1A0

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***JAMES DICK CONSTRUCTION LTD.***
LOT 13, CONC. 6, TOWN OF CALEDON, REGION OF PEEL, C/O BOX 470 BOLTON ON L0P 1A0

Database: ***GEN***

Generator No: ON0662801
SIC Code: 4569
SIC Description: OTHER TRUCK./TRANS.
Approval Years: 86,87,88,89,90
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***SAINT'S COLD CREEK NURSERY***
R.R. #2, HWY. 50 BOLTON ON L7E 5R8

Database: ***PES***

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Site: ***S & F SERVICE DIV OF 490474 ONTARIO LTD***
LOT 12 CON 7 HWY 50N BOLTON ON

Database: ***PRT***

Location ID: 1754
Type: retail
Expiry Date: 1995-06-30
Capacity (L): 118136
Licence #: 0051035001

Site: ***MBH PETROLEUM SERVICES INC***
LOT 13 CON 7 BOLTON ON

Database: ***PRT***

Location ID: 1748
Type: retail
Expiry Date: 1995-10-31
Capacity (L): 27497
Licence #: 0053809001

Site: ***JAMES DICK CONSTRUCTION LTD***
LOT 13 CON 7 CALEDON ON

Database: ***PRT***

Location ID: 2533
Type: private
Expiry Date:
Capacity (L): 48600.00
Licence #: 0001046082

Site: ***James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.***
Hwy 50 Bolton ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***JAMES DICK CONCRETE AGGREGATES***
PO BOX 470 STN MAIN ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 220

--Details--
Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Description: MINERALS & EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***JAMES DICK CONCRETE AGGREGATES***
BOLTON ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 500

--Details--
Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***James Dick Construction Ltd.***
Bolton ON

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***Caledon Sand & Gravel Inc.***
Hwy 50 Bolton ON L7E 5Z7

Database: ***SCT***

Established: 1966
Plant Size (ft²):

Employment: 47

--Details--
Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Site: ***CALEDON SAND & GRAVEL INC.***
HIGHWAY 50 RR 1 BOLTON ON L7E 5Z7

Database: ***SCT***

Established: 1966
Plant Size (ft²): 0
Employment: 47

--Details--
Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***JAMES DICK CONCRETE AGGREGATES***
HWY 50 BOLTON ON L7E 5T4

Database: ***SCT***

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--
Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***UNKNOWN***
HWY 50,BOLTON CALEDON TOWN ON

Database: ***SPL***

Ref No: 106027
Year:
Incident Dt: 10/6/1994
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/6/1994
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: CALEDON TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: UNKNOWN
Incident Preceding Spill:

Municipality No: 21401
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved: FD

Environment Impact:	NOT ANTICIPATED
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	LAND
Incident Reason:	UNKNOWN
Incident Summary:	SOURCE UNKNOWN-UKN QTY DIESEL TO HWY 50,POOLED AT BTM OF HILL,CLEANED.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	
SAC Action Class:	
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	

Site: ***James Dick Construction Limited***
North West Corner Caledon ON

Database: ***SPL***

Ref No:	7788-8QKQQZ	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	16-JAN-12	***Discharger Report:***	
Dt MOE Arvl on Scn:	25-JAN-12	***Material Group:***	
MOE Reported Dt:	16-JAN-12	***Impact to Health:***	
Dt Document Closed:	25-MAY-12	***Agency Involved:***	

Site No:	
MOE Response:	Planned Field Response
Site County/District:	
Site Geo Ref Meth:	
Site District Office:	
Nearest Watercourse:	
Site Name:	Albion Vaughan rd and King St<UNOFFICIAL>
Site Address:	North West Corner
Site Region:	
Site Municipality:	Caledon
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	Other Transport Accident
Incident Preceding Spill:	
Environment Impact:	Confirmed
Health Env Consequence:	
Nature of Impact:	Soil Contamination
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	Sewage - Municipal/Private and Commercial

Incident Reason:	Spill
Incident Summary:	James Dick Construction:MVA, diesel to grass ~225L
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Motor Vehicle
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	James Dick Construction Limited

Site: ***ROTHSAY***
HWY 50, 1 KM NORTH OF KING ST IN BOLTON TRANSPORT TRUCK (CARGO) CALEDON TOWN ON

Database: ***SPL***

Ref No:	95576	***Municipality No:***	21401
Year:		***Nature of Damage:***	
Incident Dt:	1/22/1994	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	1/22/1994	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	REGION OF PEEL,CALEDON WORKS
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	CALEDON TOWN		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	CONTAINER OVERFLOW		
Incident Preceding Spill:			
Environment Impact:	CONFIRMED		
Health Env Consequence:			
Nature of Impact:	Multi Media Pollution		
Contaminant Qty:			
Contaminant Qty 1:			
Contaminant Unit:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	LAND		
Incident Reason:	ERROR		
Incident Summary:	ROTHSAY MEAT COMPANY- 5 M3 RENDERINGS TO HIGHWAY & SHOULDER.		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:			
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

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

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

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-Apr 2024

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-Apr 30, 2024

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 2022

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: Oct 2023

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-Apr 30, 2024

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 -May 2024

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-Oct 2024

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Sep 30, 2024

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database (ODHD) is offered by the Province of Ontario's Ministry of Mines. The dataset contains information for over 164,000 percussion, overburden, sonic and diamond-drill holes. The presence of assay results with cutoff values for gold, silver, copper, zinc, lead, nickel and platinum group elements is noted. Drill hole data are compiled from assessment files that have been submitted to the ministry in accordance with the Ontario Mining Act (OMA). Source assessment file numbers are captured for cross reference with the Ontario Assessment File Database (OAFD). 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. 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 - Aug 2024

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: Oct 2023

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-Sep 30, 2024

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 - Sep 30, 2024

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-Sep 30, 2024

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-Aug 31, 2024

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land 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, 2023

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: Oct 2023

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Sep 2024

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: Oct 31, 2021

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: Oct 2023

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-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2022

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 in 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: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Mar 31, 2022

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Feb 2024

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, 2022

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-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Feb 2024

National Pollutant Release Inventory - Historic: 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. This data holds historic records; current records are found in NPR2.

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-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the Ministry of Natural Resources (MNR) handed over to the Ontario Oil, Gas and Salt Resources (OGSR) 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 includes well owner/operator, location, permit issue date, and well cap date, license number, 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.

Government Publication Date: 1800-Aug 2024

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 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 - Sep 30, 2024

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-Sep 30, 2024

Ontario PFAS Spills: Provincial PFAS

This specific list of spills includes those incidents where one or more of the listed contaminants are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA), is originally sourced from the Ministry of the Environment, Conservation and Parks spills related data. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Mar 2024; May 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Feb 2024

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Feb 2024

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Feb 28, 2021

Potential PFAS Handlers from EASR: Provincial PPHA

The Ontario Environmental Activity and Sector Registry (EASR), described in Ontario Regulation 245/11, allows businesses with less complex operations - and hence not requiring an Environmental Compliance Approval - to register their activities with the Ontario Ministry of the Environment, Conservation and Parks (MECP). This list of potential PFAS handlers includes those EASR facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used.

Government Publication Date: Jun 30, 2024

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 PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Sep 30, 2024

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, 1992-2021

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). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Oct 2024

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-Apr 30, 2024

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

Government Publication Date: 1988-Jun 2024

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of 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.

Government Publication Date: 1990-Dec 31, 2021

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 - Apr 2024

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 - Sep 30, 2024

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: Dec 31 2023

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.'

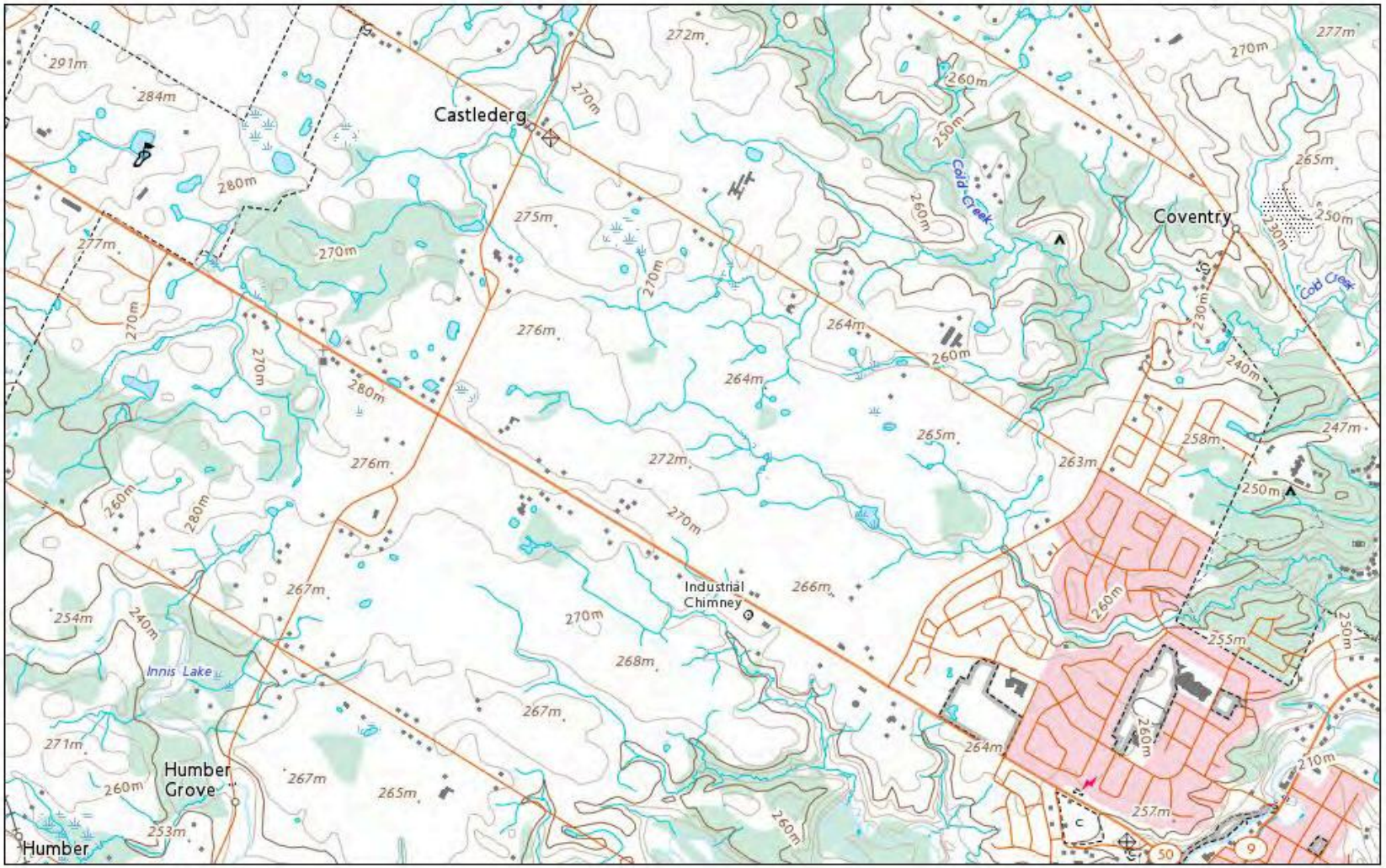
Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

THURBER

APPENDIX G

Topographic Map

Toporama



March 29, 2025

1:25,794

0 0.2 0.4 0.8 mi

0 0.35 0.7 1.4 km

Natural Resources Canada | Ressources naturelles Canada

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© Sa Majesté le Roi du chef du Canada, représentée par le ministre de Ressources naturelles Canada, 2025.

Canada

APPENDIX H

Site Photographs

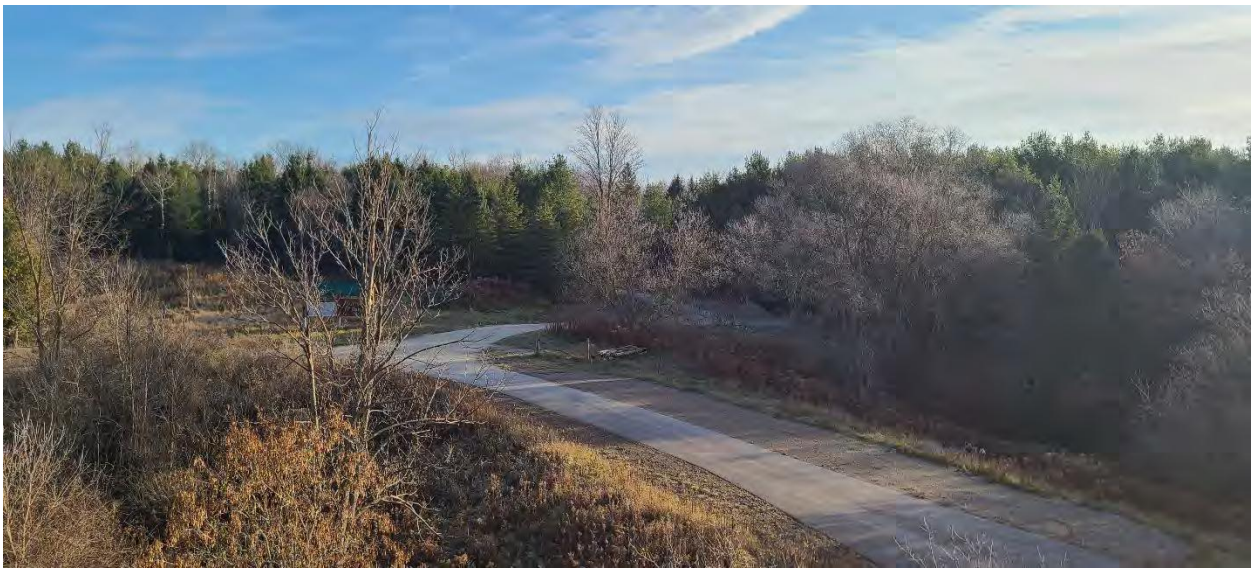


Photo 1: View to the northeast of the southern portion of the Phase I Property and the southern portion of the Phase I Study Area. A multi-use path (a portion of which appeared to be consistent with the historical Duffy's Lane Roadway alignment, to the south of the Site) was observed to intersect the southern portion of the Phase I Property. A trail map kiosk was observed near the southern limits of the Site.



Photo 2: View to the northeast of the berm and possible historical fill materials associated with the former Duffy's Lane alignment within the central portion of the Site. The berm was observed within the proposed SPS Site footprint.



Photo 3: View to the southwest of the southern portion of the Site and the Phase I Study Area. A multi-use path, and trail map kiosk were observed within the southern portion of the Site. A bridge structure that carries the Emil Kolb Parkway roadway over the Humber River was observed to the west/southwest of the Site.



Photo 4: View to the north of the northern portion of the Site and Phase I Study Area. A fill material embankment that appeared to be consistent with the historical location of Duffy's Lane was observed within the Phase I Property. The Emil Kolb Parkway roadway was observed adjacent to the west of the Site.



Photo 5: View to the south of the northern portion of the Site. Evidence of the previous alignments of Duffy's Lane (including possible fill embankments) were observed within the Site.



Photo 6: View of a small stockpile of granular materials that were observed near the southern portion of the Site. Additional piles of waste asphalt materials and fill materials were observed near the southern portion of the Phase I Property.



Photo 7: View to the southwest along Emil Kolb Parkway, and the bridge structure that crosses over the Humber River. The proposed SPS Site was located adjacent to the southeast of the roadway.



Photo 8: View to the northeast along Emil Kolb Parkway to the northwest of the proposed SPS Site. A possible berm of fill materials was observed near the historical location of the Duffy's Lane roadway (prior to the construction of Emil Kolb Parkway) to the southeast of the roadway.



Photo 9: View to the northwest of the Emil Kolb Parkway bridge structure that crossed the Humber River. Fill materials were likely imported for the construction of the bridge approach embankments. Asphalt paved multi-use paths were observed within the southern portion of the Phase I Study Area.



Photo 10: View to the southwest of Emil Kolb Parkway, and the bridge structure that crosses over the Humber River to the south of the Phase I Property. A second bridge structure was observed to the southeast of the Emil Kolb Parkway bridge that appeared to have been constructed for the historical Duffy's Lane roadway.

Appendix 1H

Agricultural Impact Assessment (AIA)

AGRICULTURAL IMPACT ASSESSMENT
FOR
BOLTON SCHEDULE C CLASS EA

PREPARED FOR:

3300 HIGHWAY 7, SUITE 402
VAUGHAN, ONTARIO
L4K 4M3

PREPARED BY:

432 NIAGARA STREET, UNIT 2
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C22032
JUNE 2025

COLVILLE CONSULTING INC.

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1. INTRODUCTION

1.1 Retainer

Colville Consulting Inc. was retained by GEI Consultants Inc. (GEI) to complete an Agricultural Impact Assessment (AIA) as part of the Municipal Class Environmental Assessment (Class EA) for water and wastewater improvements in Peel Region. The preferred location for the required water and wastewater infrastructure, including new watermain and sewer alignments, a new Sanitary Pumping Station (SPS), an associated access road, and construction compounds, have now been identified. The alignments primarily follow existing road networks and are proposed to be constructed within existing rights-of-way, with the exception of approximately 1.36 km of sewer and watermain alignments extending between Highway 50 and Mount Hope Road, north of Columbia Way. This section crosses two privately owned parcels and has a potential area of disturbance of approximately 7.34 ha (18.04 acres).

A potential construction compound was identified to support the construction of the Emil Kolb sewer and watermain. It is located on a parcel situated southwest of the intersection of Duffy's Lane and Emil Kolb Parkway, which is approximately 0.50 ha (1.24 acres) in size. The SPS is proposed to be located on a separate parcel located southeast of Emil Kolb Parkway, with a total area of approximately 3.90 ha (9.64 acres), and will include the construction of an associated access road, resulting in a total development footprint of approximately 0.78 ha.

For the purposes of this assessment, the Subject Lands are defined as the parcel on which the construction compound is proposed, the parcel on which the SPS and its associated access road is proposed, and the approximately 7.34 ha of land potentially impacted by the sewer and watermain alignment between Highway 50 and Mount Hope Road.

The Subject Lands are designated Prime Agricultural Area and Environmental Policy Area in the Town of Caledon Official Plan (March 2024 Consolidation), Rural Lands, Parks and Open Space, Natural Features and Areas, and New Community Area in the Future Caledon Official Plan, and Rural Land and 2051 New Urban Area in the Region of Peel Official Plan (2022). The lands are also designated Protected Countryside in the Greenbelt Plan.

1.2 Development in Ontario

1.2.1 Planning Framework

The *Provincial Planning Statement 2024 (PPS)* provides the framework for land use planning and *development* in Ontario. It provides policy direction on matters of provincial interest related to land use planning and *development*. The intent of the planning statement is to ensure "Ontario's vibrant agricultural sector and sensitive areas will continue to form part of the province's economic prosperity and overall identity. Growth and *development* will be prioritized within urban and rural settlements that will, in turn, support and protect the long-term viability of rural areas, local food production, and the agri-food network. In addition, resources, including natural areas, water, aggregates and agricultural lands will be protected."

1.2.2 Defined Terms and Meanings

Italicized terms throughout this AIA are often consistent with terms and definitions contained in the *Provincial Planning Statement* and provincial guidance documents. The definitions of these italicized terms are provided in the Glossary of Terms section of this report.

1.2.3 Guidance Documents

This AIA refers to several provincial guidance documents, materials, and technical criteria that are frequently considered when preparing an AIA. These guidance documents are meant to inform and assist planning authorities and decision-makers when implementing the policies of the *Provincial Planning Statement*. The guidance documents also provide practitioners with direction on what the Province considers important and how studies such as an AIA are to be undertaken. As stated in the *PPS*, "Information, technical criteria and approaches outlined in provincial guidance are meant to support implementation but not add to or detract from the policies of this Provincial Planning Statement".

1.3 Qualified Professionals

The Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) prepared the draft Agricultural Impact Assessment Guidance Document and published it in 2018[1]. This document provides guidance on how to prepare an AIA and the qualifications practitioners must have in order to prepare an AIA. It states that qualified persons should have knowledge in:

- Agri-businesses, agricultural supply chain linkages, rural/agricultural economic *development* in Ontario, and within the Greater Golden Horseshoe (GGH), the *agri-food network*, where relevant;
- Rural and agricultural land use planning;
- Canada Land Inventory (CLI) classifications of capability for agriculture assessment and, where relevant a practical understanding of soil science, including the ability to review technical information from non-agricultural disciplines and assess its relevance and utility in identifying potential agricultural impacts; and,
- Assessment and evaluation of the potential effectiveness of agricultural impact mitigation measures to reduce impacts.

The guidance document goes on to say that Qualified Persons (QPs) "should have demonstrable experience evaluating and assessing agricultural impacts and university or college degree(s) in one or more of the following: agriculture, soil science, geoscience, landscape architecture, resource management-related disciplines, environmental-related disciplines, agricultural engineering, or land use planning."

The guidance document states that the authors of the AIA, and those contributing to it, should have a "relevant academic base, Ontario experience, and preferably membership in a professional organization with a code of ethics and ongoing professional development requirements". As an example of such a professional organization, it specifically refers to the Ontario Institute of Agrologists (OAI) and registered

[1] The Ontario Ministry of Agriculture, Food and Rural Affairs is now two separate ministries. They are the Ontario Ministry of Agriculture, Food and Agribusiness (OMAFA) and the Ministry of Rural Affairs (MRA).

professional agrologists (P.Ag.). All QPs should have demonstrated experience providing objective, professional judgment, advice, and testimony as an expert witness.

Colville Consulting Inc. was established in 2003 and provides agricultural and environmental consulting services to both private and public sector clients throughout Ontario. Colville Consulting Inc. has extensive experience preparing Agricultural Impact Assessments for proposed *developments* related to *settlement area* boundary expansion applications across the province of Ontario.

This study was led by Sean Colville, B.Sc., P.Ag., has over 35 years of experience preparing Agricultural Impact Assessments in Ontario, and assisted with the preparation of the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) draft Agricultural Impact Assessment Guidance Document (2018).

John Liotta, B.Sc., P.Ag., was responsible for completing the field investigations and preparation of the AIA. John has over seven combined years of formal education in Environmental and Agricultural Planning and work experience preparing Agricultural Impact Assessments with Colville Consulting Inc.

Colville Consulting Inc. staff meet the guidance documents qualifications for QPs. The curriculum vitae (CV) of Sean Colville and John Liotta can be found in Appendix A.

1.4 Description of Proposed Development

Water and wastewater capacity improvements are required to service the new urban area in the Bolton settlement area. The preferred alignment and preferred location for the required water and wastewater infrastructure, including new watermain and sewer alignments, a new Sanitary Pumping Station (SPS), associated access road, and construction compounds, have now been identified. It is understood that the majority of the sewer will be tunnelled and the majority of the watermain will be open cut. The SPS and associated access road will have a development footprint of approximately 0.78 ha. A potential construction compound was also identified to support the construction of the Emil Kolb Parkway sewer and watermain. It will have a relatively small development footprint, although the exact area is not known at this time. It is understood that the area impacted by the sewer and watermain will be rehabilitated and returned to agricultural production following construction activities where applicable.

1.5 Purpose of Study

The Subject Lands are primarily located within the Greenbelt Plan area and the *prime agricultural area* of the Town of Caledon Official Plan. Section 4.3.5.2 of the *PPS* states that "impacts from any new or expanding non-agricultural uses on the agricultural system are to be avoided, or where avoidance is not possible, minimized and mitigated as determined through an agricultural impact assessment or equivalent analysis, based on provincial guidance." This AIA has been prepared in accordance with OMAFRA's Draft Agricultural Impact Assessment (AIA) Guidance Document (2018). The AIA assesses and evaluates the potential impacts of the proposed *development* on agricultural operations, the farming community, and the broader *Agricultural System*. In cases where impacts cannot be avoided, the AIA recommends ways to mitigate adverse impacts. The AIA also assesses whether the proposed *development* is consistent with provincial, regional, and municipal agricultural policies.

1.6 Study Area

To be consistent with the draft Agricultural Impact Assessment Guidance Document (2018), the AIA must identify a Primary Study Area and a Secondary Study Area. For this AIA, the Primary Study Areas include the Subject Lands, while all lands within 750 m of the Subject Lands' boundaries comprise the Secondary Study Areas. Figure 1 shows the Study Area, which includes the Primary and Secondary Study Areas.

1.6.1 Primary Study Area – Subject Lands

The Subject Lands are located in three non-contiguous areas and have been labelled Parcels 'A', 'B', and 'C'. The Subject Lands include the approximately 7.34 ha of land potentially impacted by the sewer and watermain alignment between Highway 50 and Mount Hope Road (Parcel A), the parcel on which the potential construction compound is proposed (Parcel B), and the parcel on which the SPS and its associated access road are proposed (Parcel C). Parcels A, B, and C are approximately 7.34 ha (18.04 acres), 0.50 ha (1.24 acres), and 3.9 ha (9.64 acres), respectively. Parcel A is primarily in agricultural production and is designated Prime Agricultural Area in the Town of Caledon Official Plan. Parcel B is designated Open Space Policy Area, and Parcel C is designated Environmental Policy Area, in the Town of Caledon Official Plan. The entirety of Parcels B and C, as well as a portion of Parcel A, are located within the Protected Countryside of the Greenbelt Plan.

1.6.2 Secondary Study Area – Study Area

The Secondary Study Area, herein referred to as the *Study Area*, includes all lands within 750 m of the Subject Lands' boundaries. The *Study Area* is generally bounded to the northwest by Castlederg Sideroad, to the northeast by Mount Pleasant Road, to the northeast by Columbia Way, and to the southwest by Humber Station Road. The Study Area is primarily designated Urban and Prime Agricultural Area in the Town of Caledon Official Plan. Portions of the Study Area are also designated Protected Countryside in the Greenbelt Plan.

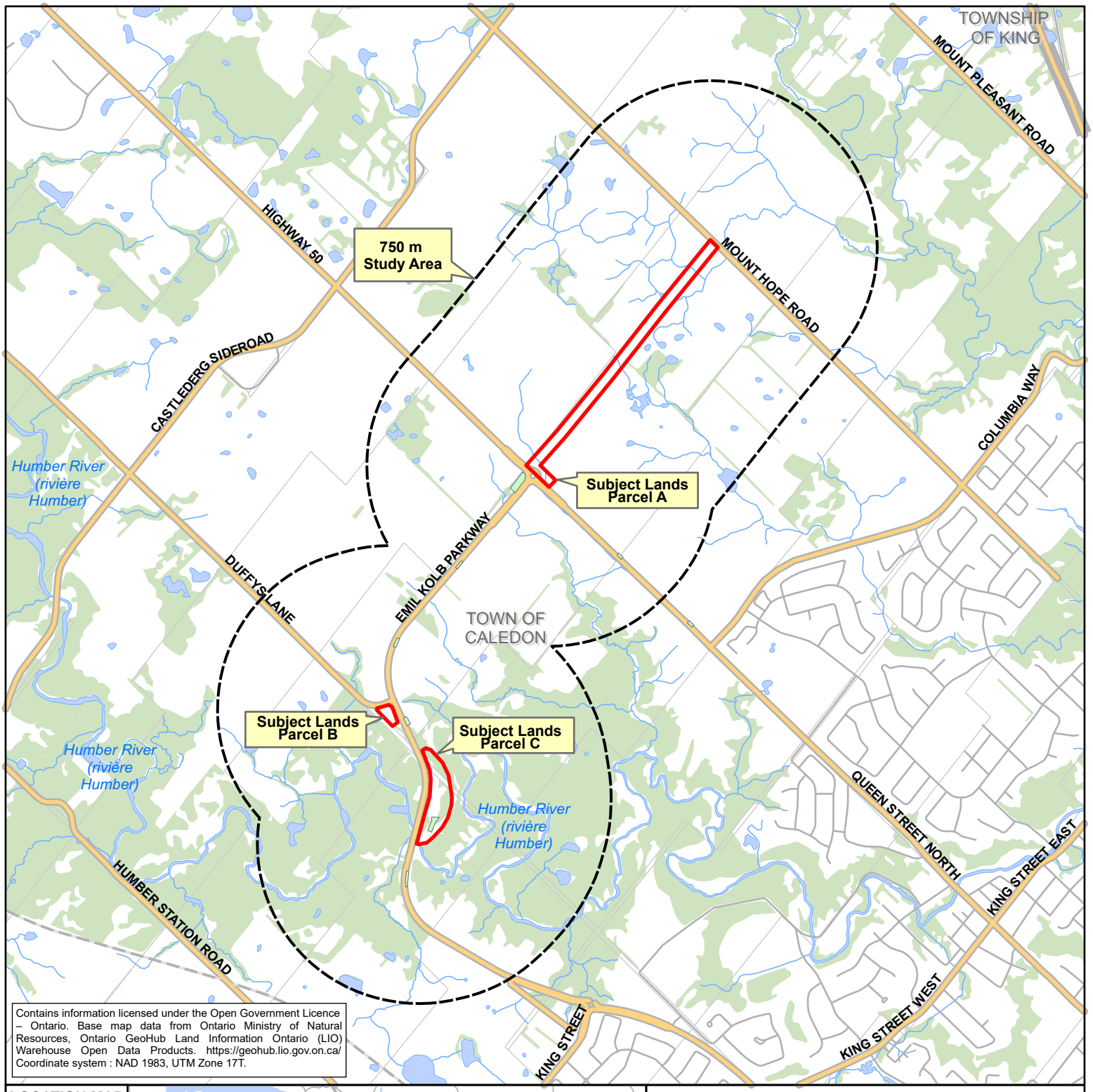




Figure 1
Location of Subject Lands

Agricultural Impact Assessment
Class EA Bolton

Prepared for: GEI Consultants Inc

Prepared by: COLVILLE CONSULTING INC.

0 0.5 KM
1:25,000

N

FILE: C22032

2. SCOPE OF STUDY

To be consistent with the Draft Agricultural Impact Assessment Guidance Document (2018), the study scope includes:

- a review of applicable agricultural policies and other background information and land use information for lands within the surrounding area (e.g., aerial photography);
- a review of data sources such as AgMaps and the Agricultural Systems Portal and OMAFA's digital soil resource database (for soil and CLI information, parcel fabric and land fragmentation, artificial drainage, agri-food components, etc.);
- a land use survey of all lands within 750 m of the Subject Lands and a characterization of the area;
- the identification of agricultural resources and investments in agricultural land improvements;
- the identification of *agricultural uses*, *agriculture-related uses*, *on-farm diversified uses*, and *non-agricultural uses*;
- an assessment of the level of fragmentation of agricultural lands in the *Study Area*;
- a review of agricultural statistical information and an assessment of the potential agricultural economic impacts on the regional economy;
- an assessment of the potential impacts of the proposed *development* on the *Agricultural System*, agricultural resources, farm operations, and the broader *agri-food network*;
- the recommendation of potential mitigation measures that can be implemented to avoid or minimize potential impacts to the extent feasible;
- an assessment of net impacts following the implementation of recommended mitigation measures; and,
- the preparation of a report summarizing our findings.

For *non-agricultural uses* in *prime agricultural areas*, the *Provincial Planning Statement (PPS)* requires an assessment of alternative locations. The purpose of this assessment is to show that there are no reasonable alternative locations which avoid *prime agricultural areas*. If *prime agricultural areas* are unavoidable, the assessment must show that there are no reasonable alternative locations on lower priority agricultural lands. An assessment of alternative locations was previously completed through the Class EA process and preferred locations have been determined; therefore, an assessment of alternative locations will not be included as part of this AIA. Additionally, Minimum Distance Separation (MDS) calculations have not been completed as part of this AIA, as Guideline #3 of the Minimum Distance Separation (MDS) Document exempts infrastructure projects from *MDS* setback requirements.

3. METHODOLOGY

The study methodology for the AIA was prepared in accordance with OMAFRA's draft Agricultural Impact Assessment Guidance Document (2018). It includes a review of relevant provincial, regional, and local, agricultural policies, other agricultural-related sources of information, and the completion of field inventories. Following the collection and assessment of the data, the potential impacts of the proposed *development* will be considered and recommendations to avoid and/or minimize potential impacts will be made. The AIA also assesses the proposed *development's* consistency with provincial and municipal agricultural policies.

3.1 Background Data Collection

Information sources reviewed for this study included:

- *Provincial Planning Statement* (2024);
- Greenbelt Plan (2016);
- Region of Peel Official Plan and Land Use Schedules (2022);
- Town of Caledon Official Plan and Land Use Schedules (2018);
- Future Caledon Official Plan and Land Use Schedules (Adopted March 26, 2024);
- Soil Survey of Peel County – Report No. 18 of the Ontario Soil Survey (1953);
- OMAFA's digital Soil Resource Database to obtain soil series and CLI agricultural capability mapping and data;
- OMAFA's Ontario business, agri-food, and farm data profiles catalog: West – Peel;
- OMAFA's Artificial Drainage Systems mapping;
- OMAFA's AgriSuite, AgMaps and Agri-Systems databases;
- OMAFRA's Draft Agricultural Impact Assessment (AIA) Guidance Document (2018);
- Government of Canada's Canadian Climate Normals – Albion Field Centre Station (1981-2010); and
- Ortho-rectified, digital aerial photography viewed using Google Earth™.

Aerial photography covering the *Study Area* and the parcel fabric were examined to assess the presence of *non-agricultural land uses*, *agricultural uses*, *agriculture-related uses*, *on-farm diversified uses*, and the level of fragmentation based on the lot fabric. The review of aerial photographic imagery provides a general impression of the agricultural activity and level of agricultural investments on the Subject Lands and in the surrounding *Study Area.*

3.2 Field Inventories

Field inventories were completed on March 27, 2025. Field inventories included a reconnaissance level land use survey of the *Study Area* identified the number and type of agricultural operations (both active and retired), *agriculture-related uses*, *on-farm diversified uses*, and the extent and type of *non-agricultural uses* in the

area. Field crops observed were identified and mapped. Visual evidence of agricultural land improvements was recorded where identified.

3.3 Evaluation of the Agricultural System

An *Agricultural System* includes a continuous and productive land base, comprised of *prime agricultural areas,* including *specialty crop areas*, and *rural lands*, as well as a complementary *agri-food network* that together enable the agri-food sector to thrive. An evaluation of the *Agricultural System* and associated features within the *Study Area* was completed through a reconnaissance level land use survey on March 27, 2025, and online review to assist in identifying agriculture-related features.

Potential agriculture-related features include regional infrastructure and transportation networks, on-farm buildings and infrastructure, agricultural services, as well as small towns and hamlets that are supportive of agriculture and are important to the viability of the agri-food sector. The evaluation of the *Agricultural System* within the *Study Area* is used to identify the features and provide insight into the significance of those features on the overall *Agricultural System* within the region.

3.4 Evaluation of Alternative Locations

The *PPS* directs *non-agricultural land uses* to avoid *prime agricultural areas*, where possible. Where *prime agricultural areas* cannot be avoided, policy directs *development* to lower priority agricultural lands. As previously stated, the Subject Lands are part of a *prime agricultural area*, however an assessment of alternative locations was previously completed through the Class EA process. Therefore, an additional assessment of alternative locations has not been completed as part of this AIA.

3.5 Identification of Potential Impacts and Mitigation Measures

Potential impacts of the proposed *development* were identified following an assessment of the agricultural resources on and adjacent to the Subject Lands. Direct impacts are those that directly impact the Subject Lands and can include:

a) Interim or permanent loss of agricultural land, including the quality and quantity of farmland lost;
b) The type of *agricultural, agriculture-related* or *on-farm diversified uses* being lost and the significance this has for supporting other agricultural production in the surrounding area;
c) The loss of existing and future farming opportunities;
d) The loss of infrastructure, services or assets important to the surrounding agricultural community and agri-food sector;
e) The loss of agricultural investments in structures and land improvements (e.g. artificial drainage);
f) The disruption or loss of function to artificial drainage and irrigation installations; and,
g) Changes to the soil drainage regime.

Indirect impacts can negatively affect adjacent lands, farm operations and farm practices. Indirect impacts can include:

a) Fragmentation of agricultural lands and operations;
b) *Minimum Distance Separation* changes (where applicable) that will constrain future farm operations;
c) Changes to surface drainage features which could have an effect on adjacent lands;

d) Changes to landforms, elevations and slope that could alter microclimatic conditions (e.g. modification to slopes that may reduce or improve cold air drainage opportunities and changes to elevation may have an impact on diurnal temperatures);
e) Changes to hydrogeological conditions that could affect neighboring municipal or private wells, sources of irrigation water and sources of water for *livestock*;
f) Disruption to surrounding farm operations, activities and management (e.g. temporary loss of productive agricultural lands, cultivation, seeding, spraying, harvesting, field access, use of road network);
g) The potential effects of noise, vibration, dust, traffic and vandalism and trespassing on agricultural operations, lands, activities and investments;
h) Potential compatibility concerns between agricultural operations employing *normal farm practices* and new non-farm *development* (e.g. nuisance complaints); and,
i) The inability or challenges to move farm vehicles and equipment along roads due to increased traffic caused by haul routes, changes in road design.

Mitigation measures will then be developed for both direct and indirect impacts identified, which avoid or minimize potential impacts on the *Agricultural System*.

3.6 Assessment of Consistency with Agricultural Policies

All planning decisions must be consistent with the *PPS* and comply with applicable provincial land use plans. Municipalities also have their own agricultural policies that are to be consistent with the *PPS*, and to which the proposed *development* must adhere. A background review of all applicable provincial and municipal policies relating to agriculture was undertaken. Policies applicable to the proposed *development* were identified and assessed for consistency as part of this AIA.

4. AGRICULTURAL POLICIES

4.1 Provincial Planning Statement (2024)

Land Use Policy and *development* in Ontario are directed by the *Provincial Planning Statement*. The *PPS* was issued under the authority of Section 3 of the Planning Act and came into effect on October 20, 2024. Section 3 of the Planning Act states that decisions affecting planning matters "shall be consistent with" policy statements issued under the Act.

4.1.1 Prime Agricultural Areas

Section 4.3 of the *Provincial Planning Statement* specifically deals with agricultural policy. Section 4.3.1.2 states that "As part of the agricultural land base, prime agricultural areas, including specialty crop areas, shall be designated and protected for long-term use for agriculture". The *Provincial Planning Statement* defines *prime agricultural areas* as areas where *prime agricultural lands* predominate. *Prime agricultural lands* include *specialty crop areas* and Canada Land Inventory (CLI) Classes 1, 2, and 3 soils, in this order of priority for protection.

4.1.2 Infrastructure in Prime Agricultural Areas

The *PPS* defines infrastructure as "physical structures (facilities and corridors) that form the foundation for development. Infrastructure includes: sewage and water systems, septage treatment systems, stormwater management systems, waste management systems, electricity generation facilities, electricity transmission and distribution systems, communications/telecommunications including broadband, transit and transportation corridors and facilities, active transportations systems, oil and gas pipelines and associated facilities."

Section 8 of the *PPS* includes infrastructure as part of the definition of the *agri-food network*, stating that "within the agricultural system, a network that includes elements important to the viability of the agri-food sector such as regional infrastructure and transportation networks; agricultural operations including on-farm buildings and primary processing; infrastructure; agricultural services, farm markets, and distributors; and vibrant, agriculture-supportive communities."

4.1.3 Non-Agricultural Use in Prime Agricultural Areas

Section 4.3.5 of the *PPS* deals specifically with policies for non-agricultural *development* in *prime agricultural areas*. Section 4.3.5.1 b) states that a planning authority may only permit *non-agricultural uses* in *prime agricultural areas* for "limited non-residential uses, provided that all of the following are demonstrated:

1. the land does not comprise a specialty crop area;
2. the proposed use complies with the *minimum distance separation formulae*;
3. there is an identified need within the planning horizon identified in the official plan as provided for in policy 2.3.1 for additional land to accommodate the proposed use; and,
4. alternative locations have been evaluated, and
    i. there are no reasonable alternative locations which avoid *prime agricultural areas*, and;
    ii. there are no reasonable alternative locations in *prime agricultural areas* with lower priority agricultural lands."

Section 4.3.5.2 of the *PPS* states that "Impacts from any new or expanding non-agricultural uses on the agricultural system are to be avoided, or where avoidance is not possible, minimized and mitigated as determined through an agricultural impact assessment or equivalent analysis, based on provincial guidance."

This AIA assesses the proposed *development* for consistency with Section 4.3.5 of the *PPS.*

4.2 Greenbelt Plan

The Greenbelt Plan came into effect on July 1, 2017, and amends the 2005 Greenbelt Plan. The Greenbelt Plan is a fundamental component of the Greater Golden Horseshoe, which establishes a land use planning framework for the Greater Golden Horseshoe that supports a thriving economy, a clean and healthy environment, and social equity. The Greenbelt Plan, together with the Oak Ridges Moraine Conservation Plan (the "ORMCP") and the Niagara Escarpment Plan (the "NEP"), identifies where urbanization should not occur in order to provide permanent protection of the agricultural land base and the ecological and hydrological features, areas, and functions, occurring on the landscape.

The Greenbelt Plan mapping (Schedule 4) shows that Parcels B and C, as well as the northeastern portion of Parcel A, are designated Protected Countryside – Natural Heritage System. Section 3 of the Greenbelt Plan states that "there are three types of geographic-specific policies that apply to specific lands within the Protected Countryside: Agricultural System, Natural System and settlement areas." The Agricultural System is comprised of *specialty crop areas*, *prime agricultural areas*, and *rural areas*. While the Greenbelt Plan identifies the boundaries of the *specialty crop areas*, it relies on municipal official plans to delineate *prime agricultural areas* and *rural areas*.

Section 4.2.1 of the Greenbelt Plan outlines "General Infrastructure Policies" and states in part that "for lands falling within the Protected Countryside, the following policies shall apply:

1. All existing, expanded or new infrastructure subject to and approved under the Canadian Environmental Assessment Act, the Environmental Assessment Act, the Planning Act, the Aggregate Resources Act or the Telecommunications Act or by the National or Ontario Energy Boards, or which receives a similar environmental approval, is permitted within the Protected Countryside, subject to the policies of the following two objectives:
    a. It supports agriculture, recreation and tourism, Town/Villages and Hamlets, resource use or the rural economic activity that exists and is permitted within the Greenbelt; or
    b. It serves the significant growth and economic development expected in southern Ontario beyond the Greenbelt by providing for the appropriate infrastructure connections and urban centres and between these centres and Ontario's boarders.
2. The location and construction of infrastructure and expansions, extensions, operations and maintenance of infrastructure in the Protected Countryside are subject to the following:
    a. Planning, design and construction practices shall minimize, wherever possible, the amount of the Greenbelt, and particularly the Natural Heritage System and Water Resources System, traversed and/or occupied by such infrastructure;

b. Planning, design and construction practices shall minimize, wherever possible, the negative impacts on and disturbance of the existing landscape, including, but not limited to, impacts caused by light intrusion, noise and road salt;
c. Where practicable, existing capacity and co-ordination with different infrastructure services shall be optimized so that the rural and existing character of the Protected Countryside and the overall hierarchy of areas where growth will be accommodated in the GGH established by the Greenbelt Plan and the Growth Plan are supported and reinforced;
d. New or expanding infrastructure shall avoid key natural heritage features, key hydrologic features or key hydrologic areas unless need has been demonstrated and it has been established that there is no reasonable alternative;
e. Where infrastructure does cross the Natural Heritage System or intrude into or result in the loss of a key natural heritage feature, key hydrologic feature or key hydrologic areas, including related landform features, planning, design and construction practices shall minimize negative impacts on and disturbance of the features or their related functions and, where reasonable, maintain or improve connectivity;
f. New or expanding infrastructure shall avoid specialty crop areas and other prime agricultural areas in that order of priority, unless need has been demonstrated and it has been established that there is no reasonable alternative;
g. Where infrastructure crosses prime agricultural areas, including specialty crop areas, an agricultural impact assessment or equivalent analysis as part of an environmental assessment shall be undertaken."

The AIA assesses the proposed *development* for consistency with Section 4.2.1 of the Greenbelt Plan.

4.3 Peel Region Official Plan

Section 3.3 of the Region of Peel Official Plan recognizes the *Agricultural System*, which includes lands designated as Prime Agricultural Area and Rural Lands. Schedules D-1 of the Region of Peel Official Plan designates Parcels B and C, as well as the northeastern portion of A, as Rural Land, while Schedule E-1 of designates the southwestern portion of Parcel A as 2051 New Urban Area. Additionally, the entirety of Parcels B and C, as well as a portion of Parcel A, are located within the Protected Countryside of the Greenbelt Plan.

It should be noted that on July 1, 2024, through Ontario Bill 23 and Bill 185, the Peel Region became an upper-tier municipality without planning authority. As of July 1, 2024, the Region of Peel Official Plan became a plan of the lower-tier municipalities, which includes the Town of Caledon. As such, the Town of Caledon is required to implement, and ensure applications conform to the Region of Peel Official Plan.

Section 2.12.16.9, General Infrastructure, of the Region of Peel Official Plan states:

> *Permit all existing, expanded or new infrastructure, that is subject to and approved under the Federal Impact Assessment Act, the Environmental Assessment Act, the Planning Act, the Aggregate Resources Act, or the Telecommunications Act or by the National or Ontario Energy Boards, or which receives a similar environmental approval, within the Protected Countryside provided it meets one of the following two objectives:*

a) *it supports agriculture, recreation and tourism, Villages and Hamlets, resource use or the rural economic activity that exists and is permitted within the Greenbelt; or*

b) *it serves the significant growth and economic development expected in southern Ontario beyond the Greenbelt by providing for the appropriate infrastructure connections among urban centres and between these centres and Ontario's borders.*

Section 3.3 of the Region of Peel Official Plan discusses the *Agricultural System* and states that "The Agricultural System consists of:

- *a continuous and productive agricultural land base comprised of Prime Agricultural Area and of Rural Lands linking Prime Agricultural Area, within Peel and beyond Peel's boundaries, and*
- *a complementary agri-food network of infrastructure, services and other elements important to the viability of the agri-food sector.*

Section 5.4.17 of the Region of Peel Official Plan states in part that it is the Region's policy to:

Ensure that planning for the development, optimization, or expansion of infrastructure, including infrastructure corridors and supporting facilities will, where applicable:

a) *demonstrate through an agricultural impact assessment or equivalent analysis as part of an environmental assessment, that negative impacts on the Agricultural System have been avoided or, if avoidance is not possible, minimized and to the extent feasible mitigated;*

Section 5.7.16 of the Region of Peel Official Plan states that the Region will:

Work with the Province and the local municipalities:

a) *to ensure that planning for new or expanded infrastructure assesses the impacts on the Agricultural System, and, where negative impacts cannot be avoided, incorporates measures to minimize or mitigate negative impacts to the extent possible.*

This AIA addresses the agricultural-related infrastructure policies of the Region of Peel Official Plan.

4.4 Town of Caledon Official Plan

Schedule C of the Town of Caledon Official Plan designates Parcel A as Prime Agricultural Area. Section 5.1.1.17 outlines policy relating to agricultural impact assessments within the *prime agricultural area*. Section 5.1.1.17.1 states that "Proposals in the Prime Agricultural Area that have the potential to negatively impact agricultural uses will require an Agricultural Impact Assessment."

Section 5.1.17.2 states in part that the AIA "must describe the proposed development including the need for the proposed development in the Town, the on-site and surrounding land uses and agricultural capabilities, the physical and socio-economic components of the agricultural resource base, the land use compatibility of the proposed use with the surrounding agricultural uses and agricultural community, must identify the direct and indirect impacts of the proposed development on existing agricultural uses, and on the flexibility of the area to support different types of agriculture, must provide an alternative location analysis, and must identify possible mitigative measures or methods of reducing any adverse impacts to the agricultural resource base and agricultural community."

This AIA addresses Sections 5.1.17.1 and 5.1.1.17.2 of the Town of Caledon Official Plan.

4.5 Future Caledon Official Plan

Schedule B4 of the Future Caledon Official Plan designates the Subject Lands as Parks and Open Space, Natural Features and Areas, New Community Area, and Rural Lands. Section 17.10.1 of the Future Caledon Official Plan outlines permitted uses in the Rural Area designation, and states in part that "the following uses may be permitted in the Rural Lands designation, as shown on Schedule B4 , Land Use Designations, and Schedule E1, Rural System:

i) all uses permitted in the Prime Agricultural Area designation"

Section 17.9.3 states in part that "Non-Agricultural uses are discouraged in the Prime Agricultural Area and may only be permitted in accordance with the policies of this Plan, applicable Provincial Plans and Provincial legislation and subject to the satisfactory completion of an agricultural impact assessment, for:

ii) infrastructure"

The Future Caledon Official Plan defines infrastructure as "physical structures (facilities and corridors) that form the foundation for development. Infrastructure includes: sewage and water systems, septage treatment systems, stormwater management systems, waste management systems, electricity generation facilities, electricity transmission and distribution systems, communications/telecommunications, transit and transportation facilities, oil and gas pipelines and associated facilities."

This AIA will address Section 17.9.3 of the Future Caledon Official Plan.

5. STUDY FINDINGS

5.1 Physiography

The Subject Lands are located within the South Slope Physiographic Region (Chapman and Putnam, 1984). This physiographic region lies between the Oak Ridges Moraine to the north, the Peel Plain to the south, and the Niagara Escarpment to the west. The lands gently slope towards Lake Ontario. The South Slope consists of a faintly drumlinized till plain with smooth slopes and is often deeply scoured at intervals by valleys tributary to the Humber River system.

The bedrock geology of the South Slope includes the limestones of the Verulam and Lindsay Formations, the grey shales of the Georgian Bay Formations, and the reddish shales of the Queenston Formation. The South Slope contains a variety of soils that have developed upon tills which are sandier in the east of the South Slope and more clayey and steeper slopes in the west. Bondhead Loam and Darlington Loam soils are the more desirable agricultural soils in the area, whereas the Chinguacousy Clay Loam, Oneida Clay Loam, and Jeddo Clay Loam soils have drainage and clayey *textures* that make it harder to work.

5.2 Climate

Climate data is available through Environment Canada's National Climate Data and Information Archive's online database. Climate Normals and Extremes for the Albion Field Centre Station (1981-2010) were obtained from the online database (Appendix B).

Environment Canada's Albion Field Centre Station is located approximately 282m from the Subject Lands. Records show that this area receives an average of 821.5 mm of precipitation annually; 681.0 mm of rainfall and 140.5 cm of snowfall. The daily average temperature in this area ranges from a high of 19.9°C to a low of -7.0°C.

The Ministry of Agriculture and Food Factsheets provide data on crop production and growing seasons across Ontario. The rate of development of crops from planting to maturity is mainly dependent upon temperature. Areas within Peel Region begin to experience average temperatures greater than 10°C starting May 7th before reaching temperatures greater than 12.8°C for 3 consecutive days around May 19th. During this time and up until the season's average ending date, September 30th, the area accumulates an average of 3200 crop heat units (CHU).

On average, the last spring frost in the Caledon area occurs on May 3rd. The first fall frost is expected on October 8th. This provides the surrounding area with a growing period of approximately 150-170 days. The climate in the Caledon area provides a good overall growing period that can support a wide range of crops.

5.3 Agricultural Crop Statistics

Agricultural crop statistics are available from OMAFA and Statistics Canada's Agriculture and Food Statistics Census of Agriculture. The Subject Lands are located within the Census West Ontario Region, Peel Region. Agricultural crop statistics were obtained from the online database and are included in Appendix C. This data provides a general overview of agriculture and agri-food operations in the area but is unlikely to be inclusive of all operations present at the time of this report.

5.3.1 Peel Region

The total number of farms in Peel Region decreased from 408 in 2016 to 377 in 2021, while total cropland increased from 67,480 acres in 2016 to 80,409 acres in 2021.

Field crops grown in Peel Region include winter wheat, oats for grain, barley for grain, mixed grains, corn for grain, corn for silage, hay, soybeans, and potatoes. According to census data, field crop production between 2016 and 2021 decreased for barley for grain, corn for silage, and potatoes, whereas all other major field crop production in Peel increased.

Fruit crops grown in Peel include apples, grapes, strawberries, and raspberries. Fruit crop acreage decreased from 403 acres in 2016 to 284 acres in 2021. Vegetable crops grown in Peel include sweet corn, tomatoes, green peas, and green or wax beans. Vegetable crop acreage increased from 377 acres in 2016 to 519 acres in 2021.

5.3.2 Town of Caledon

The total number of farms in the Town of Caledon decreased from 345 in 2016 to 309 in 2021, while total cropland area increased from 63,239 acres in 2016 to 37,460 acres in 2021.

Field crops grown in Caledon include winter wheat, oats for grain, barley for grain, mixed grains, corn for grain, corn for silage, hay, soybeans, and potatoes. According to census data, field crop production between 2016 and 2021 decreased for winter wheat and potatoes, while all other major field crop production increased.

Fruit crops in Caledon include apples, grapes, strawberries, and raspberries. Fruit crop acreage increased from 149 acres in 2016 to 196 acres in 2021. Vegetable crops in Caledon include sweet corn, tomatoes, green peas, and wax or green beans. Vegetable crop acreage increased from 240 acres in 2016 to 479 acres in 2021.

The Agricultural Systems Portal shows that there are a total of 345 farms reporting within the Town of Caledon Falls. These are summarized in Table 1 below. Of the 345 farms reporting in the Town of Caledon in 2016, only 141 reporting farms had *livestock*, of which cattle ranching and equestrian operations were the most common types.

Table 1. Reported Animal Farms in Caledon – 2016 Census

Farm Type	Number Reported
Total Number of Farms	345
Cattle Ranching	54
Hogs and Pigs	1
Poultry and Egg Production	9
Sheep and Goats	7
Dairy Cattle	18
Beef Cattle Ranching	36
Hogs and Pigs	1
Chichen and Egg production	3
Broilers and Other Chickens	6

Table 1. Reported Animal Farms in Caledon – 2016 Census

Farm Type	Number Reported
Turkey Production	0
Poultry Hatcheries	0
Apiculture	4
Horse Equine	69

5.4 Specialty Crop Areas

The *PPS* defines *specialty crop areas* as: "areas designated using guidelines developed by the Province, as amended from time to time. In these areas, specialty crops are predominantly grown such as tender fruits (peaches, cherries, plums), grapes, other fruit crops, vegetable crops, greenhouse crops, and crops from agriculturally developed organic soil, usually resulting from:

a) soils that have suitability to produce specialty crops, or lands that are subject to special climatic conditions, or a combination of both;

b) farmers skilled in the production of specialty crops; and

c) a long-term investment of capital in areas such as crops, drainage, infrastructure and related facilities and services to produce, store, or process specialty crops."

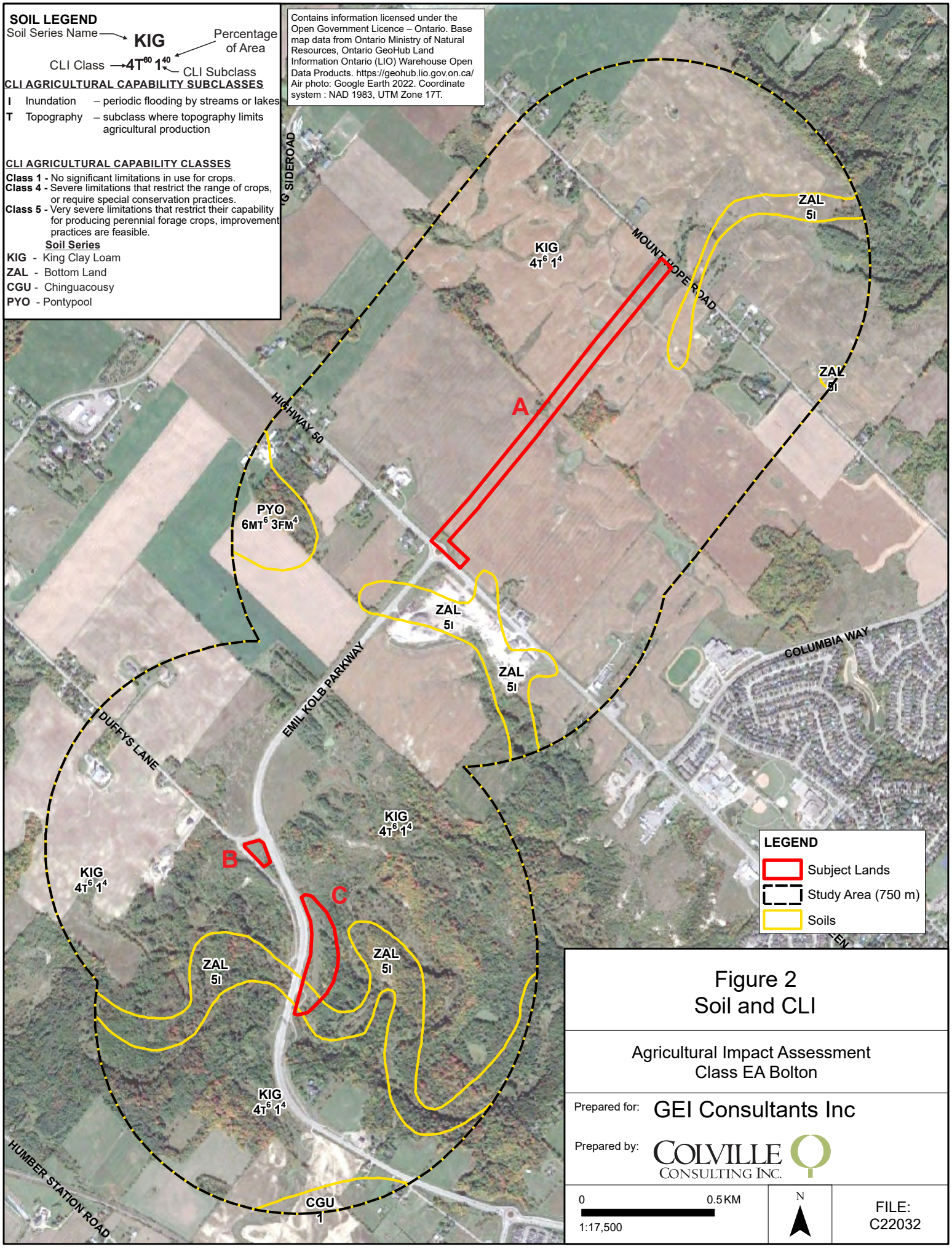
There are two *specialty crop areas* recognized by the Province through the Greenbelt Plan: the Niagara Peninsula Tender Fruit and Grape Area and the Holland Marsh. The province also recognizes *specialty crop areas* identified by municipalities which have included *specialty crop areas* in their land use schedules. The Town of Caledon has not identified any of the lands within the municipal boundaries as *specialty crop area*. Neither the Subject Lands, nor any portion of the *Study Area*, are located within a *specialty crop area*. Additionally, the Subject Lands do not exhibit any of the characteristics of a *specialty crop area.*

5.5 Regional Soils

5.5.1 Soil Series

The *Soil Survey of Peel County - Report No. 18 of the Ontario Soil Survey* (Hoffman, D.W. & Richards, N.R., 1953) includes a soil map that shows the distribution of the various soil series in the Peel Region. The digital Provincial Soil Resource database is compiled and administered by the Ontario Ministry of Agriculture, Food and Agribusiness (OMAFA) and includes most of the soil surveys completed in Ontario. Much of this information is accessible from the Province's Agricultural Information Atlas. The database was accessed in March 2025.

The *Soil Survey of Peel County* mapping shows that the soils within the Subject Lands are comprised primarily of King Clay Loam soils (94.51%), with smaller areas of Bottom Land soils (5.49%). Regional scale soil mapping is shown in Figure 2.


SOIL LEGEND
Soil Series Name
KIG
Percentage of Area
CLI Class
4T60 1*40
CLI Subclass
CLI AGRICULTURAL CAPABILITY SUBCLASSES
I Inundation – periodic flooding by streams or lakes
T Topography – subclass where topography limits agricultural production
CLI AGRICULTURAL CAPABILITY CLASSES
Class 1 - No significant limitations in use for crops.
Class 4 - Severe limitations that restrict the range of crops, or require special conservation practices.
Class 5 - Very severe limitations that restrict their capability for producing perennial forage crops, improvement practices are feasible.
Soil Series
KIG - King Clay Loam
ZAL - Bottom Land
CGU - Chinguacousy
PYO - Pontypool
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SIDEROAD
MOUNT HOPE ROAD
HIGHWAY 50
EMIL KOLB PARKWAY
DUFFYS LANE
COLUMBIA WAY
HUMBER STATION ROAD
KIG 4T6 1*4
ZAL 5I
PYO 6MT6 3FM4
CGU 1
A
B
C
LEGEND
Subject Lands
Study Area (750 m)
Soils
Figure 2
Soil and CLI
Agricultural Impact Assessment
Class EA Bolton
Prepared for: GEI Consultants Inc
Prepared by: COLVILLE CONSULTING INC.
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King Clay Loam

King Clay Loam soils are well drained soils developed from clayey till deposits in fine textured limestone and shale till, in areas of smooth, moderately sloping topography. Both internal and external drainage is good. Erosion is severe, especially in areas where slopes are steeper.

King Clay Loam soils are good agricultural soils and can be effectively cultivated for the production of most common field crops. Erosion limits production of some crops, however this can be effectively managed with additions of manure to the soil and maintaining plant cover for as long as possible.

Bottom Land

Bottom Land soils are low lying soils which occur along stream courses and are often subject to flooding. These soils are immature and show little differentiation between *soil horizons*. The *soil profile* usually consists of variable *soil textures,* and the drainage also often varies, but is usually poor.

Bottom Land soils are not good agricultural soils and are typically used for *pasture,* or are not farmed. In areas where large amounts of Bottom Land soils are mapped, other agricultural crops can be grown, but are dependant on the timing and extent of flooding in the area.

5.5.2 CLI Agricultural Land Classification

The Canada Land Inventory (CLI) is an interpretative system for assessing the effects of climate and soil characteristics on the limitations of land for growing common field crops. The CLI system has seven soil classes that descend in quality from Class 1, which has few limitations, to Class 7 soils which have no agricultural capability for common field crops. Class 2 through 7 soils have one or more significant limitations, and each of these are denoted by a capability subclass. There are thirteen subclasses described in CLI Report No. 2 (1971). Eleven of these subclasses have been adapted to Ontario soils. More information regarding the CLI Classification system is provided in Appendix D.

According to the provincial database, the majority of the Subject Lands are mapped as CLI Class 1 lands (37.50%) and CLI Class 4T lands (56.71%), with smaller areas mapped as CLI Class 5I lands (5.49%), as shown in Figure 2. CLI Class 1 soils have no or very minor limitations for common field crop production. CLI Class 4T soils have severe limitations for common field crop production due to topography. CLI Class 5I soils have very severe limitations for common field crop production due to inundation by streams or lakes. The composition of soils mapped within the Subject Lands and their associated CLI Class are summarized in Table 2 below.

Table 2. Regional Soil Series for Subject Lands

Soil Series	CLI Class	Area (Ha)	% of Subject Lands
King Clay Loam	1	4.44	37.80
	4T	6.66	56.71
Bottom Land	5I	0.64	5.49
Totals		**11.74**	**100.00%**

5.6 Land Use

A reconnaissance-level land use survey was completed March 27, 2025. The land use survey identified the number and type of agricultural operations (both active and inactive), *agriculture-related uses*, *on-farm diversified uses*, and the extent and type of *non-agricultural uses* within the *Study Area*. Inactive *livestock* operations were evaluated to determine whether they should be considered an *unoccupied livestock facility* or a *remnant* farm. *Remnant* farms have no infrastructure that is suitable for housing *livestock*, whereas the infrastructure for an *unoccupied livestock facility* is still in a condition that could permit the keeping of *livestock* with minimal investment. The crop types observed within the *Study Area* were recorded and mapped. Figure 3 shows the land uses and crop types observed. The purpose of the land use survey is to document the mix of *agricultural-* and *non-agricultural uses* within the Subject Lands and *Study Area* and identify agricultural operations that may be sensitive to the introduction of new land uses. Photographs from the land use survey can be found in Appendix E. All observed land uses are numbered, and short descriptions of these operations are included in the land use survey notes in Appendix F.

Seven *agricultural uses* were identified during the land use survey. The *agricultural uses* included one nursery operation, one *cash crop* operation, two *unoccupied livestock facilities,* and three *remnant* farms. One *agriculture-related use* was identified in the *Study Area*, which included a garden centre. No *on-farm diversified uses* were identified in the *Study Area.*

In addition to the approximately 27 *non-farm residences* observed, three *non-agricultural uses* were identified during the land use survey. These include one industrial use, and two commercial uses.

5.6.1 Agricultural Uses

The *PPS* defines *agricultural uses* as "the growing of crops, including nursery, biomass, and horticultural crops; raising of livestock; raising of other animals for food, fur or fibre, including poultry and fish; aquaculture; apiaries; agro-forestry; maple syrup production; and associated on-farm buildings and structures, including, but not limited to livestock facilities, manure storages, value-retaining facilities, and housing for farm workers, when the size and nature of the operation requires additional employment."

Within the *Study Area*, seven *agricultural uses* were identified. These include one nursery operation (#1), one *cash crop* operation (#5), two *unoccupied livestock facilities* (#6 and #8), and three *remnant* farms (#7, #9, and #10).

No *agricultural uses* were identified within the Subject Lands.

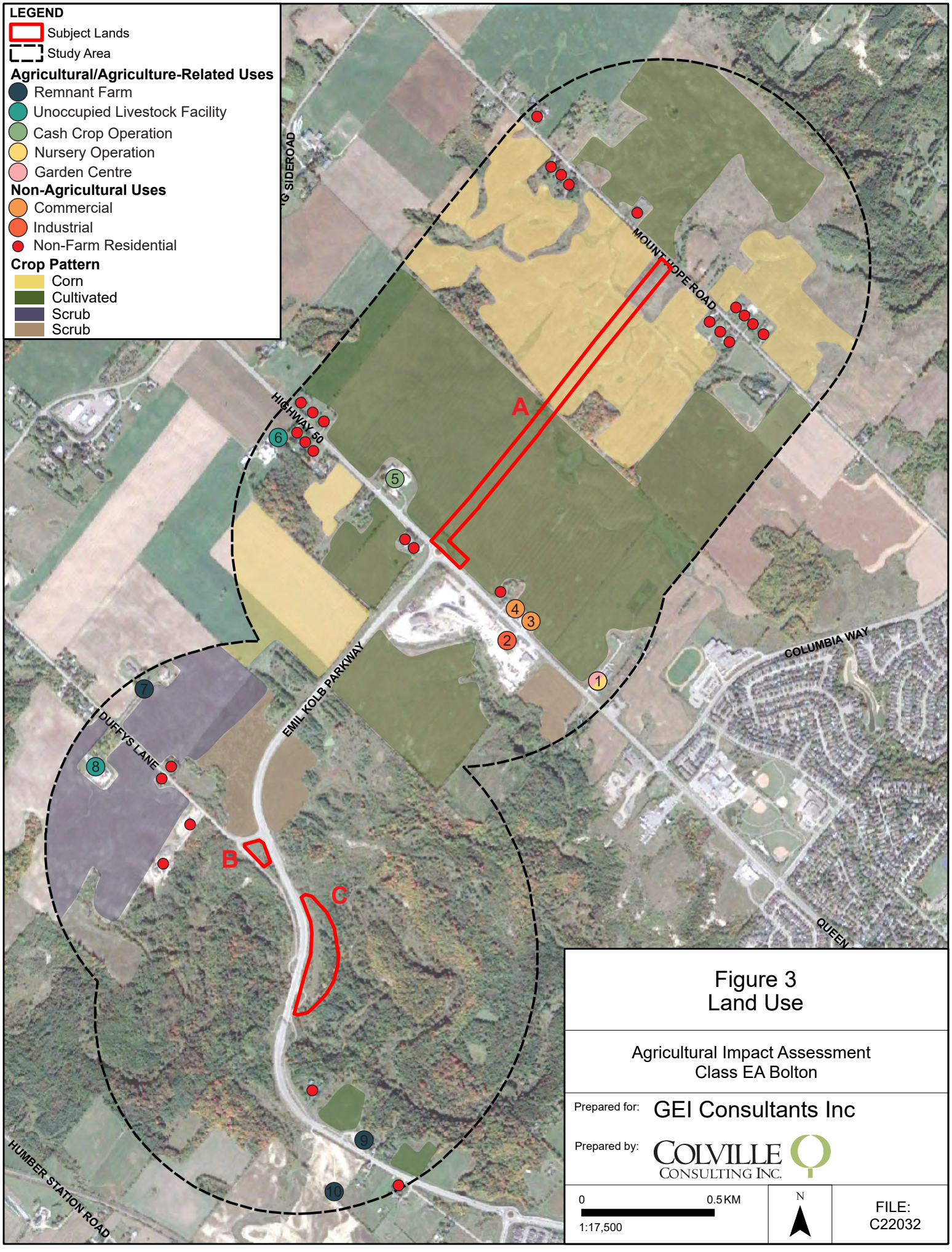


Figure 3
Land Use

Agricultural Impact Assessment
Class EA Bolton

Prepared for: GEI Consultants Inc

Prepared by: COLVILLE CONSULTING INC.

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5.6.2 Agriculture-Related Uses

Agriculture-related uses are farm-related commercial and industrial uses. As defined in the *PPS*, these are uses "that are directly related to farm operations in the area, support agriculture, benefit from being in close proximity to farm operations, and provide direct products and/or services to farm operations as a primary activity." These uses may include uses such as:

- retailing of agriculture-related products (e.g., farm supply co-ops, farmers' markets, and retailers of value-added products like wine or cider made from produce grown in the area);
- *livestock* assembly yards;
- farm equipment repair shops;
- industrial operations that process farm commodities from the area such as abattoirs, feed mills, grain dryers, cold/dry storage facilities and fertilizer storage facilities, which service agricultural area;
- distribution facilities;
- food and beverage processors (e.g., wineries and cheese factories); and
- agricultural biomass pelletizers.

One *agriculture-related use,* a garden centre (#1), was identified within the *Study Area*. The garden centre identified sells products grown at the nursery located on the same parcel. Therefore, Operation #1 includes both the nursery and the garden centre. No *agriculture-related uses* were identified within the Subject Lands.

5.6.3 On-Farm Diversified Uses

The *PPS* defines *on-farm diversified uses* as "uses that are secondary to the principal agricultural use of the property, and are limited in area. On-farm diversified uses include, but are not limited to, home occupations, home industries, Agri-tourism uses, uses that produce value-added agricultural products, and electricity generation facilities and transmission systems, and energy storage systems."

No *on-farm diversified uses* were identified within the Subject Lands, nor within the *Study Area*.

5.6.4 Non-Agricultural Uses

Non-agricultural land uses include *non-farm residences*, residential clusters, hamlets and *settlement areas*, municipal utilities, commercial and industrial operations, recreational uses, and institutional uses. Approximately 27 *non-farm residences* were observed within the *Study Area*.

Excluding the *non-farm residences*, three *non-agricultural uses* were identified within the *Study Area*. These include two commercial uses (#3 and #4), and one industrial use (#2).

No *non-agricultural uses* were identified within the Subject Lands.

5.6.5 Land Use Summary

Table 3 below summarizes the types of land uses observed within the Subject Lands and *Study Area*.

Table 3. Summary of Observed Land Uses

	Total Number	Active	Empty or Remnant
Agricultural	7	1 – Nursery Operation 1 – *Cash Crop* Operation	2 – *Unoccupied Livestock Facility* 3 – *Remnant* Farm
Agriculture-Related	1	1 – Garden Centre	0
On-farm Diversified	0	0	0
	Total Number	**Type**	
Non-Agricultural	30	1 – Industrial 2 – Commercial 27 – *Non-Farm Residence*	

5.6.6 Cropping Pattern

The land use survey completed on March 27, 2025, identified crops based on observations of crop stubble and other identifying features. As shown in Figure 3, the crops grown within the Subject Lands and *Study Area* are predominantly common field crops such as corn, as well as *cultivated* lands where the lands were being used for the production of agricultural crops, but the specific crops being grown were not readily identifiable. The land use survey also identified areas of natural heritage features, as well as scrub lands, and *idle lands*.

5.7 Land Improvements

OMAFA's Agricultural Information Atlas (AgMaps) provides artificial drainage mapping for the province. This online tool was accessed to obtain drainage mapping for the Subject Lands and *Study Area*. Figure 4, below, shows the drainage improvements within the Subject Lands and *Study Area*.

5.7.1 Drainage Improvements on Subject Lands

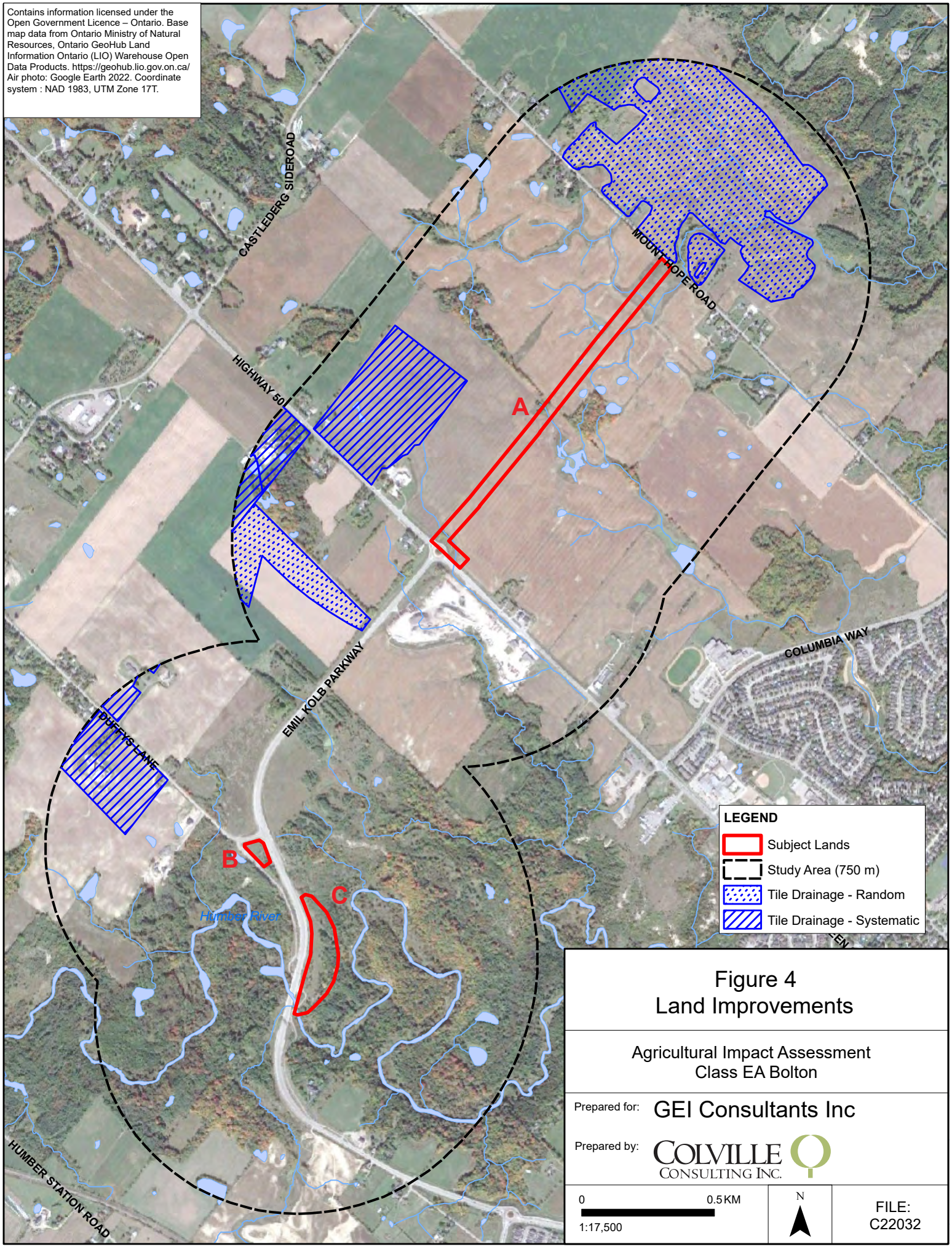
According to OMAFA's online mapping tool AgMaps, there are no investments in agricultural tile drainage and no installations of constructed drains within the Subject Lands.

5.7.2 Drainage Improvements in Study Area

According to OMAFA's online mapping tool, AgMaps, the Study Area contains both random and systemic tile drainage. Approximately 50.69 ha and 8.29 ha of random tile drainage are located in the northeast and western portions of the *Study Area,* respectively. Systemic tile drainage is present in both the western and southwestern portions of the *Study Area*, with a total area of approximately 32.17 ha. No constructed drains transverse the area, according to AgMaps.

5.7.3 Other Land Improvements

No other investments in land improvements within the Subject Lands nor *Study Area* were identified using the AgMaps Portal, or during the land use survey.


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CASTLEDERG SIDEROAD
MOUNT HOPE ROAD
HIGHWAY 50
A
EMIL KOLB PARKWAY
COLUMBIA WAY
DUFFYS LANE
B
C
Humber River
HUMBER STATION ROAD
LEGEND
Subject Lands
Study Area (750 m)
Tile Drainage - Random
Tile Drainage - Systematic
Figure 4
Land Improvements
Agricultural Impact Assessment
Class EA Bolton
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Prepared by: COLVILLE CONSULTING INC.
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5.8 Fragmentation of Agricultural Lands

Fragmentation of agricultural lands can have a negative impact on the viability of agricultural lands and its long-term preservation for agricultural purposes. Fragmentation of farmlands can diminish the economic viability of the agricultural area by reducing farming efficiency and increasing operating costs for farmers who must manage multiple small, separated parcels. Larger farm parcels can accommodate a wider range of agricultural activities and ensure long term viability of the property. In contrast, smaller farm parcels cannot offer the same flexibility and may not be viable as standalone parcels. Generally, smaller farm parcels cannot sustain a family farm without a secondary source of income (off farm) to maintain the agricultural operation.

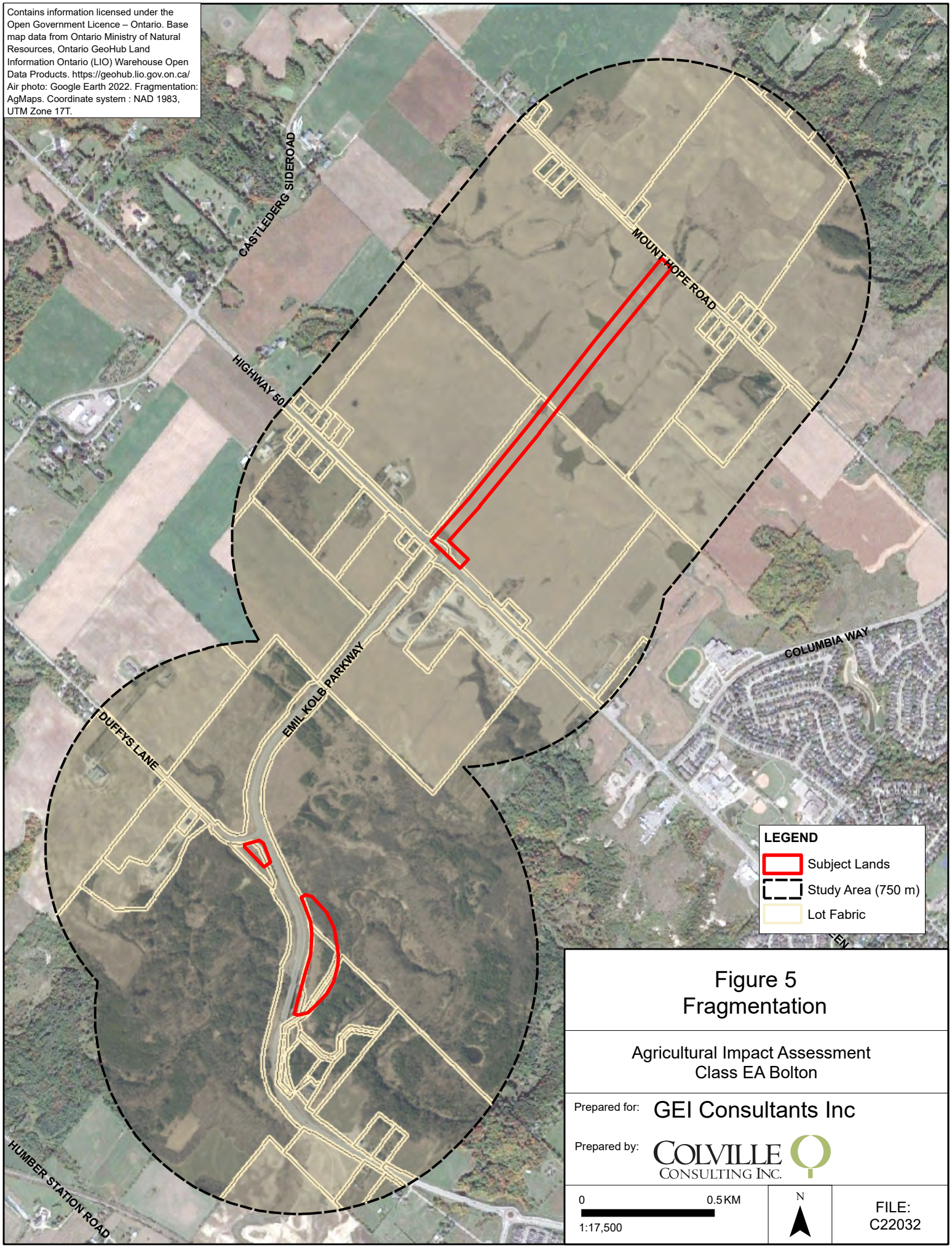
Additionally, agricultural areas which have been fragmented often have a higher occurrence of *non-agricultural land uses*, which in turn can result in more frequent occurrences of conflict arising between *agricultural uses* and *non-agricultural uses*. Agricultural areas with lower levels of fragmentation are considered to be more viable economically for *agricultural uses* and generally have fewer sources of non-agricultural land use conflicts. In most cases, these areas have a higher priority for protection. High levels of fragmentation in an agricultural area lowers the areas agricultural priority.

The *PPS* planning policies recognize the impact of fragmentation on agricultural lands and try to minimize the fragmentation of agricultural lands for *non-agricultural uses*. For example, the *PPS* policies do not permit lot creation in *prime agricultural areas* for residential purposes. New permitted *development* in *prime agricultural areas* should avoid further fragmentation of the agricultural land base whenever possible.

The Subject Lands are immediately adjacent to the current Bolton *settlement area,* in which there are a number of urban-related (i.e., *non agricultural*) uses. Areas in the western portion of the *Study Area* have also been included in the 2051 New Urban Area within the Region of Peel Official Plan. The *development* of the SPS will lead to the removal of these lands from the agricultural land base in this area. It is understood that the lands impacted by the *development* of the sewer, watermain and construction compound will be rehabilitated following construction. The lands within the *Study Area* have a relatively high level of fragmentation and have a high occurrence of *non-agricultural uses.* The lot fabric in the *Study Area* is shown in Figure 5 below.

5.9 Economic and Community Benefits of Agriculture

Identifying the economic and community benefits associated with agriculture in the *Study Area* is an important consideration and informs the impacts associated with future *development.* The agriculture and agri-food sector is one of the largest primary goods producing sectors and plays a key role in the Town of Caledon and Peel Region economies. According to Census of Agriculture data, the total number of farms in Peel Region decreased from 440 farms in 2011, to 408 farms in 2016, and 377 farms in 2021. The Town of Caledon observed a similar trend of decreasing farm numbers, with data showing 356 farms in 2011, 345 farms in 2016, and 308 farms in 2021. These farms employ residents from Peel Region and Town of Caledon, contributing economically to the area and supporting the *agri-food network.*


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CASTLEDERG SIDEROAD
MOUNT HOPE ROAD
HIGHWAY 50
COLUMBIA WAY
EMIL KOLB PARKWAY
DUFFYS LANE
HUMBER STATION ROAD
LEGEND
Subject Lands
Study Area (750 m)
Lot Fabric
Figure 5
Fragmentation
Agricultural Impact Assessment
Class EA Bolton
Prepared for: GEI Consultants Inc
Prepared by: COLVILLE CONSULTING INC.
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As of 2021, the agriculture, forestry, fishing and hunting industry employed approximately 1,465 individuals within Peel Region, which is a decrease from the 2,101 individuals employed in 2016. The Town of Caledon observed a similar decrease in individuals employed by the agriculture, forestry, fishing and hunting industry, with data showing that the industry employed 600 individuals in 2016 and 505 individuals in 2021. Within Peel Region, there were approximately 6,993 agri-food businesses in 2021, with 569 of these businesses located within the Town of Caledon. Both Peel Region and the Town of Caledon have experienced a slight increase in agri-food businesses between 2016 and 2021.

As of 2021, of the 308 total farms within the Town of Caledon, seven farms were valued under $200,000, three farms were valued between $200,000 and $499,999, 26 farms were valued between $500,000 and $999,999, and 272 farms were valued $1,000,000 and over. Over the past three census periods, the number of farms valued at $1,000,000 and over has increased, with the number of farms valued under $1,000,000 decreasing.

Of the seven *agricultural uses* identified within the *Study Area*, five were identified to be inactive agricultural operations (i.e., *unoccupied livestock facilities* or *remnant* farms). This is indicative of the waning influence the agricultural sector has in the area. With the implementation of mitigation measures to minimize indirect impacts on surrounding farm agricultural operations, it is expected that impacts from future *development* will have a negligible impact on the *agri-food network* of the area.

6. ASSESSMENT OF IMPACTS TO AGRICULTURE

Farm operations can be adversely impacted by new non-farm *development* on adjacent lands. Non-agricultural *development* adjacent to agricultural lands can cause disruptions to existing farm practices as a result of construction activity, an increase in non-farm traffic, incidence of trespass and vandalism, and increased levels of noise, dust, and lighting. Farmers may also experience an increase in nuisance complaints from residents and/or patrons of non-agricultural facilities. These complaints are often related to issues such as odour, light, dust, and noise generated through *normal farm practices*.

The proposed *development* will have direct impacts, however it is unlikely to have a significant, long-term negative impacts on the surrounding agricultural lands and community.

6.1 Direct Impacts

6.1.1 Prime Agricultural Lands

The Subject Lands are approximately 11.74 ha in size, of which approximately 4.44 ha are *prime agricultural lands.* The development of the sewer and watermain will result in the temporary loss of use of approximately 2.94 ha of *prime agricultural lands*. It is understood that these lands will be rehabilitated and capable of producing agricultural crops once construction is complete. To ensure these lands have similar agricultural capabilities pre- and post-construction, a Rehabilitation Plan should be developed.

The *development* of the SPS will result in the permanent loss of approximately 0.40 ha of *prime agricultural lands*. To mitigate this loss, any lands which are disturbed through construction activities that are not part of the SPS, associated access road, and construction compound should be rehabilitated. The lands on which the SPS and construction compound are proposed are not used for agriculture and the loss of

approximately 0.40 ha of prime agricultural lands is expected to have a negligible impact on the *Agricultural System*.

6.1.2 Agricultural Infrastructure

There is no agricultural infrastructure present on the Subject Lands and thus, there will be no impact associated with the loss of agricultural infrastructure.

6.1.3 Agricultural Land Improvements

No agricultural land improvements such as tile drainage have been installed on the Subject Lands. Therefore, there will be no impact associated with the loss of agricultural land improvements.

6.1.4 Loss of Crop Land

The majority of Parcel A is *cultivated* for the production of common field crops. This land will be unavailable for cultivation during the construction of the proposed sewer and watermain, resulting in the temporary loss of approximately 7.34 ha of land. To ensure the impacts of the proposed *development* are temporary, the areas disturbed by construction activity should be rehabilitated to an agricultural condition similar to, or better than, what is currently present. A Rehabilitation Plan should be developed to ensure lands within the Subject Lands can be *cultivated* post-construction.

6.2 Indirect Impacts

Potential impacts to adjacent farm operations and farm practices are considered to be indirect impacts. These would include changes to the surface drainage that could impact adjacent lands, disruption to farm traffic and access to adjacent agricultural fields, instances of trespass and vandalism, and conflicts arising from farm odour and other nuisance complaints often received by farmers in close proximity to *non-agricultural uses*.

6.2.1 Disruption to Surficial Drainage

The *development* of the Subject Lands has the potential to cause changes in surface runoff, which can have a potential negative impact on adjacent agricultural lands. It is recommended that a Grading Plan be prepared for the lands (Parcel C) on which the SPS is proposed to measure potential impacts to adjacent lands from surficial runoff. Impacts to surficial drainage associated with the proposed *development* are expected to be negligible.

6.2.2 Disruption to Farm Operations

The majority of the active agricultural operations in the *Study Area* are well removed from the Subject Lands. These farms are unlikely to experience any form of disruption to their operations. The lands surrounding the proposed sewer and watermain are cultivated and construction activities may disrupt their farming practices and access to fields. It is recommended that access points to these fields be maintained or options provided to ensure farm equipment can access the land on either side of the sewer and watermain during construction.

Noise, dust, and light can have a negative impact on some farm operations. Construction may temporarily generate greater levels of noise, dust, and lighting. No sensitive farm operations were identified that would be impacted by noise, dust, and lighting. However, it is recommended that these elements be controlled

and in compliance with Ministry of Environment, Conservation and Parks (MECP) guidelines. No negative indirect impacts are anticipated from construction activity.

6.2.3 Trespass and Vandalism

Farm operations within the *Study Area* may have to deal with the potential for trespass and vandalism due to the close proximity of the Bolton *settlement area* and the abundance of *non-agricultural uses* in the surrounding area. The potential for trespass and vandalism at farm operations is very limited by the nature of the proposed *development* as the *development* will not be accessed by members of the public. No impacts related to trespass and vandalism are anticipated as a result of the proposed *development.*

6.2.4 Transportation Impacts

The proposed *development* will not result in an increase in traffic within the Study Area. Therefore, no transportation-related impacts are anticipated as a result of the proposed *development*.

6.2.5 Economic and Community Impacts

Local and regional economies and agricultural communities can be adversely impacted by the introduction of new *development* on agricultural lands as a result of the loss of farmland, fragmentation, removal of agricultural investments, commodities, services, and impacts to other farming operations. Due to the low-intensity nature and limited footprint of the proposed *development,* impacts to regional economies and agricultural communities are anticipated to be negligible.

6.2.6 Land Use Compatibility

Development of the Subject Lands will result in a *non-agricultural use* in close proximity to *agricultural uses. Minimum Distance Separation* setbacks are not required for proposed infrastructure/utility developments, and human visitation will be limited. Therefore, no land use compatibility impacts are anticipated as a result of the proposed *development*.

6.3 Summary of Impacts

The potential direct and indirect impacts identified are summarized in Table 4 along with the potential degree of impact, mitigation measures to avoid or minimize the potential impact, and the resulting anticipated impact.

Table 4. Summary of Impacts			
Potential Impact	**Potential Degree of Impact**	**Mitigation Measure**	**Anticipated Net Impact**
Direct Impacts			
Loss of *prime agricultural land*	Low	• Continue farming lands until they are to be developed • Prepare Rehabilitation Plan to ensure Parcel A can be successfully *cultivated* following construction activities	Temporary loss of 2.94 ha and permanent loss of 0.40 ha of *prime agricultural land*
Loss of agricultural infrastructure	Low	• None required • No agricultural infrastructure within Subject Lands	No impact anticipated
Loss of agricultural land improvements	Low	• None required • No land improvements within Subject Lands	No impact anticipated
Loss of cropland	Low	• Continue farming adjacent lands to the extent possible • Prepare Rehabilitation Plan to ensure Parcel A can be successfully *cultivated* following construction activities	Potential intermittent and short-term disruption to approximately 7.34 ha of cultivatable lands
Indirect Impacts			
Surficial Drainage	Low	• Prepare a Grading Plan to ensure adjacent lands are not impacted by modified surficial runoff.	No impact anticipated
Disruption to Farm Operations	Low	• Ensure that access to farm operations and farm fields is maintained at all times throughout construction or access options are provided.	No impact anticipated
Non-farm traffic	Low	• None required	No impact anticipated
Trespass, Vandalism, and Stray Pets	Low	• None required	No impact anticipated
Noise, Dust & Light	Low	• Adhere to Ministry of the Environment, Conservation and Parks (MECP) guidelines	No impact anticipated

Table 4. Summary of Impacts

Potential Impact	Potential Degree of Impact	Mitigation Measure	Anticipated Net Impact
Land Use Compatibility	Low	• None required	No impact anticipated
Fragmentation	Low	• None required	No impact anticipated
Changes to Microclimatic Conditions	Low	• None required	No impact anticipated
Economic	Low	• None required	No impact anticipated

7. CONSISTENCY WITH AGRICULTURAL POLICIES

7.1 Provincial Planning Statement

Section 4.3.5.1 of the *PPS* states that under certain conditions, planning authorities may permit limited, *non-agricultural uses* in *prime agricultural areas*. Policy 4.3.5.1 b) states that a planning authority may only permit *non-agricultural uses* in *prime agricultural areas* for "limited non-residential uses, provided that all of the following are demonstrated:

1. the land does not comprise a specialty crop area;
2. the proposed use complies with the *minimum distance separation formulae*;
3. there is an identified need within the planning horizon identified in the official plan as provided for in policy 2.3.1 for additional land to accommodate the proposed use; and,
4. alternative locations have been evaluated, and
    i. there are no reasonable alternative locations which avoid prime agricultural areas, and;
    ii. there are no reasonable alternative locations in prime agricultural areas with lower priority agricultural lands."

The Subject Lands are not located within a *specialty crop area,* the *MDS formula* is not applicable to infrastructure/utility developments, and the need for the proposed *development* and the assessment of alternative locations were identified through the Class EA process. Therefore, the proposed *development* is consistent with the agricultural policies of the *PPS.*

7.2 Greenbelt Plan

The Greenbelt Plan mapping (Schedule 4) shows that Parcels B and C, as well as the northeastern portion of Parcel A, are designated Protected Countryside – Natural Heritage System.

Section 4.2.1 of the Greenbelt Plan outlines "General Infrastructure Policies" and states in part that "for lands falling within the Protected Countryside, the following policies shall apply:

1. All existing, expanded or new infrastructure subject to and approved under the Canadian Environmental Assessment Act, the Environmental Assessment Act, the Planning Act, the Aggregate Resources Act or the Telecommunications Act or by the National or Ontario Energy Boards, or which receives a similar environmental approval, is permitted within the Protected Countryside, subject to the policies of the following two objectives:
    a. It supports agriculture, recreation and tourism, Town/Villages and Hamlets, resource use or the rural economic activity that exists and is permitted within the Greenbelt; or
    b. It serves the significant growth and economic development expected in southern Ontario beyond the Greenbelt by providing for the appropriate infrastructure connections and urban centres and between these centres and Ontario's boarders.
2. The location and construction of infrastructure and expansions, extensions, operations and maintenance of infrastructure in the Protected Countryside are subject to the following:
    a. Planning, design and construction practices shall minimize, wherever possible, the amount of the Greenbelt, and particularly the Natural Heritage System and Water Resources System, traversed and/or occupied by such infrastructure;

b. Planning, design and construction practices shall minimize, wherever possible, the negative impacts on and disturbance of the existing landscape, including, but not limited to, impacts caused by light intrusion, noise and road salt;
c. Where practicable, existing capacity and co-ordination with different infrastructure services shall be optimized so that the rural and existing character of the Protected Countryside and the overall hierarchy of areas where growth will be accommodated in the GGH established by the Greenbelt Plan and the Growth Plan are supported and reinforced;
d. New or expanding infrastructure shall avoid key natural heritage features, key hydrologic features or key hydrologic areas unless need has been demonstrated and it has been established that there is no reasonable alternative;
e. Where infrastructure does cross the Natural Heritage System or intrude into or result in the loss of a key natural heritage feature, key hydrologic feature or key hydrologic areas, including related landform features, planning, design and construction practices shall minimize negative impacts on and disturbance of the features or their related functions and, where reasonable, maintain or improve connectivity;
f. New or expanding infrastructure shall avoid specialty crop areas and other prime agricultural areas in that order of priority, unless need has been demonstrated and it has been established that there is no reasonable alternative;
g. Where infrastructure crosses prime agricultural areas, including specialty crop areas, an agricultural impact assessment or equivalent analysis as part of an environmental assessment shall be undertaken."

The proposed *development* serves the significant growth and economic development expected in southern Ontario beyond the Greenbelt by providing for the appropriate infrastructure connections and urban centres and between these centres and Ontario's boarders. The proposed *development* will avoid *specialty crop areas*, key natural heritage features, key hydrologic features, and key hydrologic areas.

The Greenbelt Plan requires the completion of an AIA for the proposed *development* as a portion of the Subject Lands are located within a *prime agricultural area.* The AIA has identified the potential impacts of the proposed *development* on the *Agricultural System*, and recommended measures to minimize and mitigate those impacts. In our opinion, the proposed *development* is consistent with the policies of the Greenbelt Plan.

7.3 Peel Region Official Plan

As stated above, the proposed *development* serves the significant growth and economic development expected in southern Ontario beyond the Greenbelt by providing for the appropriate infrastructure connections and urban centres and between these centres and Ontario's boarders. This AIA has addressed the potential impacts of the proposed *development* on the *Agricultural System* and has recommended mitigation measures to avoid or minimize any identified impacts. The proposed *development* is consistent with the agricultural policies of the Region of Peel Official Plan.

7.4 Town of Caledon Official Plan

This AIA fulfills the requirement of completing an Agricultural Impact Assessment for non-agricultural *development* in the Town of Caledon's Prime Agricultural Area. The need for the proposed *development* was

identified through the Bolton Residential Expansion Study, which identified the need for expansion to the Bolton *settlement area,* and subsequent expansion to municipal servicing. The agricultural capability of the Subject Lands and the agricultural land base have been identified and described. Potential direct and indirect impacts of the proposed *development* on the agricultural land base have been identified, and recommendations have been made to avoid, minimize, or mitigate these impacts. As such, we believe that the proposed *development* is consistent with the agricultural policies of the Town of Caledon Official Plan.

7.5 Future Caledon Official Plan

Section 17.9.3 of the Future Caledon Official Plan states in part that "Non-Agricultural uses are discouraged in the Prime Agricultural Area and may only be permitted in accordance with the policies of this Plan, applicable Provincial Plans and Provincial legislation and subject to the satisfactory completion of an agricultural impact assessment, for:

i) infrastructure"

This AIA fulfills the requirement of completing an Agricultural Impact Assessment for non-agricultural *development* in the Town of Caledon's Prime Agricultural Area. This AIA has identified the potential impacts on the *Agricultural System* and has provided recommendations to avoid, minimize, or mitigate the identified impacts. Therefore, the proposed *development* is consistent with the agricultural policies of the Future Caledon Official Plan.

8. CONCLUSION

This AIA has identified and described the agricultural resources and farm operations within the Subject Lands and *Study Area*. The potential impacts associated with the proposed *development* have been assessed and we have determined the following:

1. The Subject Lands are not located within a *specialty crop* area, and *specialty crops* were not observed to be grown in the vicinity;
2. Parcels B and C are not in agricultural production, and based on aerial photographs, do not appear to have been *cultivated* historically;
3. There are no investments in agricultural tile drainage or agricultural infrastructure within the Subject Lands;
4. Potential impacts associated with the proposed *development* are primarily limited to the loss of a relatively small amount of *prime agricultural land,* the temporary disruption to cultivation, and the potential for impacts related to farm field access on either side of the sewer and watermain during construction activities. To mitigate these impacts, a Rehabilitation Plan should be developed to ensure the Subject Lands remain available for cultivation in areas disturbed by construction activities, excluding the lands within the *development* footprint of the Sanitary Pumping Station ;
5. Potential impacts from surficial drainage changes are anticipated to be negligible, however, it is recommended that a Grading Plan be prepared for Parcel C to ensure adjacent lands are not impacted by surficial runoff changes; and,
6. The proposed *development* is consistent with all relevant provincial and municipal agricultural policies.

Respectfully submitted by:





Sean Colville, B.Sc., P.Ag.
Colville Consulting Inc.

John Liotta, B.Sc.Env., P.Ag.
Colville Consulting Inc.

9. GLOSSARY OF TERMS

Agricultural uses:* - the growing of crops, including nursery, biomass, and horticultural crops; raising of *livestock*; raising of other animals for food, fur or fibre, including poultry and fish; aquaculture; apiaries; agro-forestry; maple syrup production; and associated on-farm buildings and structures, including, but not limited to *livestock facilities*, manure storages, value-retaining facilities, and housing for farm workers, when the size and nature of the operation requires additional employment.

Agriculture-related uses:* - those farm-related commercial and farm-related industrial uses that are directly related to farm operations in the area, support agriculture, benefit from being in close proximity to farm operations, and provide direct products and/or services to farm operations as a primary activity.

Agricultural system: - means a system comprised of a group of inter-connected elements that collectively create a viable, thriving agri-food sector. It has two components:

- An agricultural land base comprised of *prime agricultural areas*, including *specialty crop* areas. It may also include *rural lands* that help to create a continuous productive land base for agriculture.
- An *agri-food network* which includes agricultural operations, *infrastructure*, services, and assets important to the viability of the agri-food sector.

Agri-food network:* - a network within the *agricultural system* that includes elements important to the viability of the agri-food sector such as regional *infrastructure* and transportation networks; agricultural operations including on-farm buildings and primary processing; infrastructure; agricultural services, farm markets, and distributors; and vibrant, agriculture-supportive communities.

Agri-tourism uses:* - means those farm-related tourism uses, including limited accommodation such as a bed and breakfast, that promote the enjoyment, education or activities related to the farm operation.

Cash crop: - means a crop being produced for income purposes and not to supplement a *livestock* operation by contributing to feed requirements.

Cultivated: - means lands that have recently been under active agricultural production, however, depending on the season or growth stage of the crop during the land use survey or through aerial photographic interpretation the crop type could not be determined.

Development: - means the creation of a new lot, a change in land use, or the construction of buildings and structures, requiring approval under the Planning Act; but does not include activities that create or maintain infrastructure authorized under an environmental assessment process; or works subject to the Drainage Act.

Forage/Pasture: - means a crop that consists of either pastureland, including rough grazing, or hay crops including silage and haylage.

Livestock:* - includes dairy, beef, swine, poultry, horses, goats, sheep, ratites, fur-bearing animals, deer & elk, game animals, birds, and other animals.

Livestock facility:* - means one or more barns or permanent structures with livestock-occupied portions, intended for keeping or housing *livestock*. A livestock facility also includes all manure or material storages and anaerobic digesters.

Minimum Distance Separation (MDS) formulae: - formulae and guidelines developed by the province, as amended rom time to time, to separate uses so as to reduce incompatibility concerns about odour from *livestock* facilities.

Non-agricultural uses:* - Buildings designed or intended for a purpose other than an *agricultural use*; as well as land, vacant or otherwise not yet fully developed, which is zoned or designated such that the principal or long-term use is not intended to be an *agricultural use*, including, but not limited to: commercial, future urban development, industrial, institutional, *open space uses*, *recreational uses*, *settlement area*, *urban reserve*, etc.

Non-farm residential (NFR): - means residential buildings and lots not associated with a farm operation such as farm retirement lots/severances and/or other residences in the Agricultural and Rural Area. Second farm residences for farm help would be considered a farm residence if it is on an existing farm operation.

Normal farm practices:* - means a practice, as defined in the *Farming and Food Production Protection Act, 1998*, that is conducted in a manner consistent with proper and acceptable customs and standards as established and followed by similar agricultural operations under similar circumstances; or makes use of innovative technology in a manner consistent with proper advanced farm management practices. *Normal farm practices* shall be consistent with the Nutrient Management Act, 2002 and regulations made under that Act.

On-farm diversified uses:* uses that are secondary to the principal agricultural use of the property, and are limited in area. On-farm diversified uses include, but are not limited to, home occupations, home industries, *Agri-tourism uses*, uses that produce value-added agricultural products, and electricity generation facilities and transmission systems, and energy storage systems.

Prime agricultural area:* - means an area where *prime agricultural land* predominates. Prime agricultural areas may also be identified through an alternative agricultural land evaluation system approved by the Province.

Prime agricultural land:* - means land that includes *specialty crop lands* and/or Canada Land Inventory Class 1, 2 and 3 soils, in this order of priority for protection.

Provincial Planning Statement, 2024: - the Provincial Planning Statement (PPS), 2024 is a streamlined province-wide land use planning policy framework that replaces both the *Provincial Policy Statement, 2020* and *A Place to Grow: Growth Plan for the Greater Golden Horseshoe, 2019* while building upon housing-supportive policies from both documents. The PPS 2024 provides municipalities with the tools and flexibility they need to build more homes. It enables municipalities to:

- plan for support development, and increase the housing supply across the province;
- align development with infrastructure to build a strong and competitive economy that is investment-ready;
- foster the long-term viability of rural areas; and
- protect agricultural lands, the environment, public health and safety.

Remnant: - means a location where one or more farm buildings once stood. All or some of the buildings have fallen, are severely structurally unsound and/or been removed. No MDS would be applied to a remnant farm operation.

Rural areas:* - means a system of lands within municipalities that ma include *rural settlement areas*, *rural lands*, *prime agricultural areas*, natural heritage features and areas, and resource areas.
Rural lands:* - means lands which are located outside *settlement areas* and which are outside *prime agricultural areas*.
Settlement areas:* - means urban areas and rural settlement areas within municipalities (such as cities, towns, villages, and hamlets). Ontario's *settlement areas* vary significantly in terms of size, density, population, economic activity, diversity and intensity of land uses, service levels, and types of infrastructure available. Settlement areas are:

a) built up areas where development is concentrated and which have a mix of land uses; and

b) lands which have been designated in an official plan for development over the long term.

Soil horizon: - a layer of soil, approximately parallel to the land surface, that differs from adjacent layers in properties such as texture, colour, structure, etc. As an example, the surface horizon of a mineral soil is recorded as the "A" horizon. If the surface is ploughed then the suffix p is used (i.e., Ap) if the surface has not been ploughed, as in a forest soil, a humic layer generally develops and an eluviated light coloured soil horizon often forms immediately below. These horizons are identified with the suffix h is used (i.e., Ah) and e (i.e., Ae), respectively. The weathered portion of the profile below the A horizons is identified as the "B" horizon and the unweathered, parent material is the "C" horizon.

Soil profile: - a vertical section of the soil through all its horizons and extending into the soil parent material.

Soil texture: - the relative portion of particle sizes in soil (i.e., sand, silt, and clay) that are used to describe the soil textural class (e.g., clay, sandy clay loam, sandy loam, loam, clay loam, sand, loamy sand, etc.).

Specialty crop area:* - means areas within the agricultural land base designated based on provincial guidance. In these areas, specialty crops are predominantly grown such as *tender fruits* (peaches, cherries, plums), grapes, other fruit crops, vegetable crops, greenhouse crops and crops from agriculturally developed organic soil., usually resulting from:

a) soils that have suitability to produce specialty crops, or lands that are subject to special climatic conditions, or a combination of both;

b) farmers skilled in the production of specialty crops; and

c) a long-term investment of capital in areas such as crops, drainage, infrastructure and related facilities and services to produce, store, or process specialty crops.

Tender fruit: - a term applied to tree fruits such as peaches, apricots, and nectarines which are particularly sensitive to low winter and/or spring temperatures.

Unoccupied livestock Facility: - A livestock barn that does not currently house any livestock, but that housed livestock in the past and continues to be structurally sound and reasonably capable of housing livestock.

** Indicates that the definition is essentially derived from OMAFRA publications.*

10. REFERENCES

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APPENDIX A

Curriculum Vitae

SEAN M. COLVILLE, B.Sc., P.Ag.

432 Niagara St., Unit 2, St. Catharines, ON L2M 4W3
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EDUCATION

B.Sc.Geology, Acadia University, 1986
Soil Science, University of Guelph, 1984

PROFESSIONAL AFFILIATIONS

Ontario Institute of Agrology
Agricultural Institute of Canada

POSITIONS HELD

2003 – Present	**President** - Colville Consulting Inc., St. Catharines, Ontario
2001 – 2003	**Senior Project Manager** - ESG International Inc., St. Catharines, Ontario
1998 – 2001	**Senior Project Manager** - ESG International Inc., Guelph, Ontario
1988 – 1998	**Project Manager** - ESG International Inc., Guelph, Ontario
1984 – 1988	**Soil Scientist –** MacLaren Plansearch Ltd., Halifax, Nova Scotia
1982 – 1983	**Assistant Soil Scientist** – Nova Scotia Department of Agriculture and Marketing

EXPERIENCE

Colville Consulting Inc. (CCI) was established in June of 2003 by Sean Colville. CCI offers agricultural and environmental consulting services to clients across Ontario, catering to both public and private sectors. Sean has over 35 years of agricultural consulting experience, which includes agricultural resource evaluation studies, soil surveys, interpretations of agricultural capability, agricultural impact assessments, alternative site assessments, and soil and microclimatic rehabilitation/restoration projects. Sean has extensive experience interpreting agricultural land use policies for a wide variety of development applications.

Sean is a Professional Agrologist (P.Ag.), and a member of both the Ontario Institute of Agrology and the Agricultural Institute of Canada. Sean has been recognized by the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) as an expert in the identification of Prime Agricultural Areas and in the interpretation of the Minimum Distance Separation requirements for livestock operations.

Sean has presented expert testimony before the Ontario Land Tribunal (formerly OMB, LPAT), Consolidated Joint Board, Assessment Review Board, Ontario Superior Court, and the Normal Farm Practices Protection Board. Sean's testimonies have involved land use planning matters as they relate to agriculture, impact assessments, resource evaluations, soil science, and normal farm practices.

Agricultural Impact Assessments and Alternative Site Studies

Colville Consulting Inc. specializes in agricultural impact assessment and alternative site studies for development applications in Prime Agricultural Areas. Sean has prepared over 200 agricultural impact assessments for a wide variety of development projects, including settlement area boundary expansions, linear facilities (Class EAs), new and expanding aggregate operations, and residential, commercial, recreational, industrial, and institutional developments. The majority of these projects required the interpretation of agricultural land use policies, an inventory and assessment of the agricultural resources,

land use, land tenure, an assessment of conflict potential including determination of minimum distance separation requirements, interpretation of the agricultural priority, and development of mitigation measures to avoid or minimize potential impacts. Justification of the location for development proposals in agricultural areas is required by the Provincial Policy Statement and can often be addressed by an alternative site study.

Recent examples of Sean Colville's agricultural work include:

- Agricultural Impact Assessment for Stubbes New Durham Precast Plant (2021)
- Agricultural Impact Assessment for New Tecumseth Community Builders Inc., County of Simcoe (2021)
- Agricultural Impact Assessment for Caledon Costco (2021)
- Agricultural Impact Assessment for Walker Industries' Redford Pit Expansion, West Grey (2022)
- Agricultural Impact Assessment for Milton Business Park (2022)
- Minimum Distance Separation for Mono Hills Corporation (2022)
- Land Evaluation and Area Review for Norfolk County (2022)

Publications

Rees, H.W.; Duff, J.P.; Colville, S.; Soley, T and Chow T.L. 1995. Soils of selected agricultural areas of Moncton Parish, Westmoreland County, New Brunswick. New Brunswick. Soil Survey Report No. 15. CLBRR Contribution No. 95-13, Research Branch, Agriculture AND Agri-Food Canada, Ottawa, Ontario

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JOHN LIOTTA, B.Sc. (Env.), EMA, P.Ag.

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EDUCATION

Bachelor of Science in Environmental Sciences, University of Guelph, 2018
Environmental Management and Assessment Graduate Certificate, Niagara College, 2022

PROFESSIONAL AFFILIATIONS

Eco Canada – Environmental Professional in Training
Ontario Institute of Agrologists – Professional Agrologist

POSITIONS HELD

2022 – Present – Colville Consulting Inc., St. Catharines, Agrologist/Ecologist

EXPERIENCE

John Liotta, Agrologist and Ecologist at Colville Consulting Inc., has over 5 years of formal educational training and experience in Environmental and Agricultural Planning. John has completed Agricultural Impact Assessments, Minimum Distance Separation (MDS) Requirements, and Agricultural Characterization Reports in his role as at Colville Consulting Inc.

Through his education at the University of Guelph and Niagara College, John has gained a broad base knowledge of Environmental and Agricultural Planning and Management, which he has applied in his current role at Colville Consulting Inc. His work at Colville Consulting Inc. includes the interpretation of provincial, regional, and local land use policies, creation and interpretation of land use maps, regional soils mapping, and agricultural protection policies. He has participated in the completion of Agricultural Impact Assessments, Minimum Distance Separation Assessments, and Agricultural Characterization Reports. His field work activities include land use surveys and post-construction avian and bat mortality monitoring for wind turbines in the County of Haldimand, Ontario.

A selection of projects John has been involved with at Colville Consulting Inc. include:

- Post-Construction Avian and Bat Mortality Monitoring for Pattern Energy, Korea Electric Power Corporation, and Samsung Renewable Energy Inc., Grand Renewable Energy Park, County of Haldimand, Ontario
- Agricultural Impact Assessment for landowner group, City of Pickering
- Agricultural Impact Assessment for landowner, Township of North Dumfries, Ontario
- Agricultural Characterization Report for landowner, Township of Beckwith, Ontario
- Agricultural Characterization Report for landowner, Town of Carleton Place, Ontario
- Minimum Distance Separation Report for landowner, Town of Caledon, Ontario
- Agricultural and Rural Lands Discussion Paper for municipality, Town of Blue Mountain, Ontario
- Agricultural Impact Assessment for Wildfield Village, Town of Caledon
- Agricultural Impact Assessment for Redford Pit Expansion, West Grey

ADDITIONAL TRAINING AND WORKSHOPS

Standard First Aid, CPR C, AED – St. John's Ambulance (2023)
Workplace Hazardous Materials Information System
Natural Gas Pipeline Safety Training – TC Energy (2022)
Excavation Safety Training – TC Energy (2022)
Supervisor (Level 2) Ground Disturbance Training (2022)

APPENDIX B

Climate Normals Data

Climate Normals 1981-2010 Station Data

Metadata including Station Name, Province or Territory, Latitude, Longitude, Elevation, Climate ID, WMO ID, TC ID

STATION_NAME	PROVINCE	LATITUDE	LONGITUDE	ELEVATION	CLIMATE_ID	WMO_ID	TC_ID
ALBION FIELD CENTRE	ON	43°55'00.000" N	79°50'00.000" W	281.9 m	6150103		

Legend

A = WMO "3 and 5 rule" (i.e. no more than 3 consecutive and no more than 5 total missing for either temperature or precipitation)

B = At least 25 years

C = At least 20 years

D = At least 15 years

1981 to 2010 Canadian Climate Normals station data

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Code
Temperature														
Daily Average (°C)	-7	-5.9	-1.4	6.1	12.4	17.3	19.9	19.1	14.3	8.1	2.1	-3.9	6.7	D
Standard Deviation	3.1	2.5	2.2	1.6	2	1.3	1.4	1.5	1	1.6	1.2	3.1	2.6	D
Daily Maximum (°C)	-2.8	-1.4	3.7	11.6	18.8	23.7	26.3	25.1	19.9	13.2	5.8	-0.3	12	D
Daily Minimum (°C)	-11.2	-10.4	-6.6	0.5	5.9	10.9	13.5	13	8.6	2.9	-1.7	-7.4	1.5	D
Extreme Maximum (°C)	12	14.5	24.5	30	33	34.5	36.1	35	34.4	30.6	22.2	19.5		
Date (yyyy/dd)	1988/31	1984/23	1986/30	1990/25	1998/15	1988/25	1975/31	Jan-75	Mar-73	Feb-71	Jan-74	Mar-82		
Extreme Minimum (°C)	-36.5	-35	-31.5	-21.1	-6.1	-1.5	1.7	-0.5	-5	-11.5	-19	-32		
Date (yyyy/dd)	1994/16	1979/18	Aug-84	Jul-72	Apr-74	Dec-80	May-72	1982/29	1973/21	1978/17	1989/22	Nov-77		
Precipitation														
Rainfall (mm)	24	22.2	27.3	63	76.1	75.5	81.8	77.4	75	64.9	67.8	25.9	681	D
Snowfall (cm)	36.4	28	23	4	0	0	0	0	0	3.4	13.8	31.9	140.5	D
Precipitation (mm)	60.4	50.2	50.3	67	76.1	75.5	81.8	77.4	75	68.3	81.7	57.7	821.5	D
Average Snow Depth (cm)		27		0	0	0	0	0	0	0	0			
Median Snow Depth (cm)		29		0	0	0	0	0	0	0	0			
Snow Depth at Month-end (cm)	22	4		0	0	0	0	0	0	0	0			
Extreme Daily Rainfall (mm)	26	33	42.5	50.5	58	68	68.9	58	48.2	56	47.4	31		
Date (yyyy/dd)	1996/26	1984/13	1997/25	2000/21	Dec-00	2000/24	1985/15	Apr-89	Oct-86	May-95	Dec-92	1979/24		
Extreme Daily Snowfall (cm)	20.3	33	20	16.5	0.6	0	0	0	0	20	19	33		
Date (yyyy/dd)	1976/13	Oct-81	Sep-80	Feb-75	1984/14	Jan-69	Jan-69	Jan-69	Jan-69	1997/26	1986/20	Oct-92		
Extreme Daily Precipitation (mm)	26	61	43.5	50.5	58	68	68.9	58	48.2	56	47.4	36.8		
Date (yyyy/dd)	1996/26	Oct-81	1997/25	2000/21	Dec-00	2000/24	1985/15	Apr-89	Oct-86	May-95	Dec-92	Dec-72		
Extreme Snow Depth (cm)	42	43		5	0	0	0	0	0	20	4	7		
Date (yyyy/dd)	1985/20	Dec-85		Mar-85	Jan-83	Jan-83	Jan-83	Jan-83	Jan-83	1981/23	1984/19	1984/20		
Days with Rainfall														
>= 0.2 mm	3.3	3.6	5.2	9.9	10.3	10.2	9	9.8	10.8	11.2	9.3	3.7	96.2	D
>= 5 mm	1.7	1.5	2.2	4.2	5	4.4	4.9	4.5	4.5	4.2	4.2	1.9	43.2	D
>= 10 mm	0.89	0.76	0.78	2	2.3	2.9	2.6	2.8	2.5	2.4	2.4	1	23.5	D
>= 25 mm	0.16	0.1	0.11	0.37	0.53	0.61	0.68	0.63	0.68	0.33	0.53	0.11	4.8	D
Days With Snowfall														
>= 0.2 cm	9.8	6.4	5.3	1.4	0.05	0	0	0	0	0.58	4	6.8	34.3	D
>= 5 cm	2.6	2	1.5	0.26	0	0	0	0	0	0.21	0.68	2.3	9.4	D
>= 10 cm	0.89	0.65	0.74	0.11	0	0	0	0	0	0.11	0.32	0.89	3.7	D
>= 25 cm	0.06	0.05	0	0	0	0	0	0	0	0	0	0.11	0.22	D
Days with Precipitation														
>= 0.2 mm	12.4	9.4	9.6	10.8	10.3	10.2	9	9.8	10.8	11.3	12.1	9.8	125.5	D
>= 5 mm	4.4	3.4	3.7	4.5	5	4.4	4.9	4.5	4.5	4.3	5	3.9	52.5	D
>= 10 mm	1.9	1.5	1.7	2.1	2.3	2.9	2.6	2.8	2.5	2.5	2.9	2	27.9	D
>= 25 mm	0.22	0.15	0.16	0.37	0.53	0.61	0.68	0.63	0.68	0.39	0.53	0.21	5.2	D
Days with Snow Depth														
>= 1 cm				0	0	0	0	0	0	0				
>= 5 cm				0	0	0	0	0	0	0				
>= 10 cm				0	0	0	0	0	0	0				
>= 20 cm				0	0	0	0	0	0	0				
Wind														
Speed (km/h)		9.4		9	8.9	8.9	7.2	5.4		7.7				
Most Frequent Direction		NW			NW	NW	NW	NW		NW				
Maximum Hourly Speed (km/h)	56	63	64	50	48	45	35	37	39	42	60	66	66	
Date (yyyy/dd)	1974/31	1971/27	May-76	1975/19	Jan-70	1971/29	Jan-77	Apr-83	Oct-70	1973/14	Feb-71	1972/13	1972/13	
Direction of Maximum Hourly Speed	NW	SW	W	NW	SW	W	SW	S	W	NW	W	W	W	
Bright Sunshine														
Total Hours		85.6			240.9	240.2	255.9	197		130	71.8	19.4		
Days with measurable		18.3			26	29	28	31		28	18.8	7		
% of possible daylight hours		29.3			52.8	52	54.6	45.5		38	24.7	7		
Extreme Daily	8.9	10.1	10.7	13.5	14.3	15	14.9	14.3	11.7	10.6	9.5	9		
Date (yyyy/dd)	1970/30	1979/27	1981/25	1972/27	1971/22	Aug-76	1970/22	Feb-70	Jan-70	1985/27	Mar-71	Mar-69		

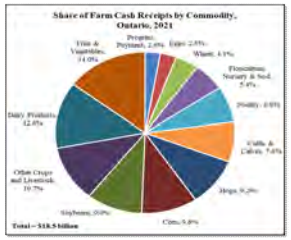
APPENDIX C

Agricultural Crop Statistics

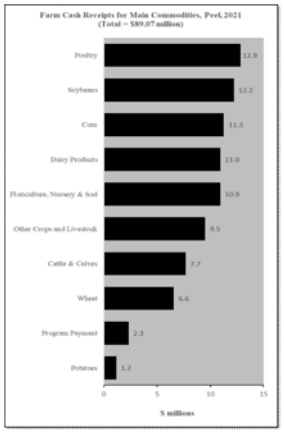
County & Township Ag Profile - Peel Regional Municipality; Townships: Brampton, Caledon

Peel Regional Municipality at a Glance - 2021

Item	Peel	Province	Percent of province	Percent from 2016
Farms, 2021 Census (number)				
Total	377	48,346	0.78%	-7.60%
Under 10 acres	52	3,217	1.62%	-1.89%
10 to 69 acres	122	12,686	0.96%	-23.27%
70 to 129 acres	70	10,924	0.64%	0.00%
130 to 179 acres	22	4,422	0.50%	-12.00%
180 to 239 acres	22	3,981	0.55%	4.76%
240 to 399 acres	18	5,366	0.33%	-5.26%
400 to 559 acres	24	2,865	0.84%	4.35%
560 to 759 acres	12	1,698	0.71%	50.00%
760 to 1,119 acres	16	1,600	1.00%	0.00%
1,120 to 1,599 acres	8	720	1.11%	100.00%
1,600 to 2,239 acres	5	451	1.11%	-44.44%
2,240 to 2,879 acres	5	173	2.89%	-
2,880 to 3,519 acres	0	95	0.00%	-
3,520 acres and over	1	118	0.85%	0.00%
Land Use, 2021 Census (acres)				
Land in crops	80,409	9,051,011	0.89%	19.29%
Summerfallow land	384	13,964	2.75%	412.00%
Tame or seeded pasture	2,722	400,480	0.68%	-11.97%
Natural land for pasture	2,859	626,366	0.46%	-26.10%
Christmas trees, woodland & wetland	4,703	1,269,535	0.37%	-17.23%
All other land	4,506	404,714	1.11%	40.24%
Total area of farms	95,583	11,766,071	0.81%	14.69%
Greenhouse Area, 2021 Census (square feet)				
Total area in use	571,719	201,055,888	0.28%	-34.27%
Farm Capital Value, 2021 Census (farms reporting)				
Under $200,000	11	1,212	0.91%	-54.17%
$200,000 to $499,999	5	3,223	0.16%	-68.75%
$500,000 to $999,999	40	8,699	0.46%	-43.66%
$1,000,000 and over	321	35,212	0.91%	8.08%
Total Gross Farm Receipts, 2021 Census (farms reporting)				
Under $10,000	74	7,277	1.02%	-16.85%
$10,000 to $24,999	55	7,429	0.74%	-28.57%
$25,000 to $49,999	48	6,263	0.77%	-15.79%
$50,000 to $99,999	31	6,093	0.51%	-20.51%
$100,000 to $249,999	48	6,817	0.70%	-27.27%
$250,000 to $499,999	35	4,448	0.79%	6.06%
$500,000 to $999,999	32	3,954	0.81%	39.13%
$1,000,000 to $1,999,999	9	2,452	0.37%	-47.06%
$2,000,000 and over	10	1,696	0.59%	42.86%
Farms by Industry Group, 2021 Census (number of farms)				
Beef cattle ranching and farming	53	7,986	0.66%	35.90%
Dairy cattle and milk production	13	3,168	0.41%	-31.58%
Hog and pig farming	3	1,189	0.25%	200.00%
Poultry and egg production	13	2,061	0.63%	44.44%
Sheep and goat farming	4	1,309	0.31%	-50.00%
Other animal production	64	4,556	1.40%	-36.63%
Oilseed and grain farming	112	18,194	0.62%	6.67%
Vegetable and melon farming	29	1,562	1.86%	-9.38%
Fruit and tree nut farming	18	1,211	1.49%	0.00%
Greenhouse, nursery and floriculture	23	1,672	1.38%	-28.13%
Other crop farming	45	5,418	0.83%	2.27%



Item	Peel	Province	Percent of province	Percent from 2016
Major Field Crops, 2021 Census (acres)				
Winter wheat	10,343	1,144,406	0.90%	21.54%
Oats for grain	344	84,320	0.41%	64.59%
Barley for grain	1,016	68,756	1.48%	-42.31%
Mixed grains	453	59,961	0.76%	6.59%
Corn for grain	19,631	2,202,465	0.89%	45.98%
Corn for silage	1,571	289,678	0.54%	-8.50%
Hay	14,066	1,704,017	0.82%	8.31%
Soybeans	29,915	2,806,255	1.07%	21.65%
Potatoes	7	39,193	0.02%	-76.67%
Major Fruit Crops, 2021 Census (acres)				
Total fruit crops	284	48,661	0.58%	-29.53%
Apples	132	16,008	0.82%	7.32%
Sour Cherries	0	1,383	0.00%	-
Peaches	0	4,608	0.00%	-
Grapes	60	18,432	0.33%	-
Strawberries	59	2,633	2.24%	5.36%
Raspberries	17	438	3.88%	-
Major Vegetable Crops, 2021 Census (acres)				
Total vegetables	519	127,893	0.41%	37.67%
Sweet corn	126	20,518	0.61%	85.29%
Tomatoes	32	14,614	0.22%	0.00%
Green peas	28	14,044	0.20%	180.00%
Green or wax beans	18	8,709	0.21%	157.14%
Livestock Inventories, 2021 Census (number)				
Total cattle and calves	8,987	1,604,810	0.56%	-1.38%
Steers	1,949	299,540	0.65%	0.78%
Beef cows	1,294	224,194	0.58%	-6.44%
Dairy cows	1,700	327,272	0.52%	-3.74%
Total pigs	165	4,071,902	0.00%	189.47%
Total sheep and lambs	542	322,508	0.17%	-49.58%
Poultry Inventories, 2021 Census (number)				
Total hens and chickens	422,313	53,802,772	0.78%	118.96%
Total turkeys	2,107	2,453,126	0.09%	1887.74%

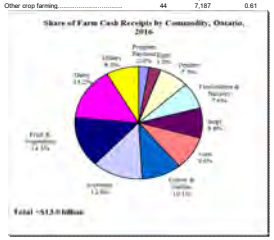


F - too unreliable to be published
Sources: 2021 & 2016 Census of Agriculture, OMAFRA
2022-08-21

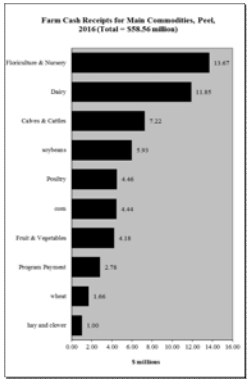
County & Township Ag Profile - Peel Regional Municipality; Townships: Brampton, Caledon

Peel Regional Municipality at a Glance - 2016

Item	Peel	Province	Percent of province	Percent from 2011
Farms, 2016 Census (number)				
Total	408	49,600	0.82	-7.27
Under 10 acres	53	3,051	1.74	17.78
10 to 69 acres	159	12,625	1.26	-2.45
70 to 129 acres	70	10,742	0.65	-13.58
130 to 179 acres	25	4,592	0.54	-3.85
180 to 239 acres	21	4,282	0.49	-12.50
240 to 399 acres	19	6,008	0.32	-42.42
400 to 559 acres	23	3,093	0.74	4.55
560 to 759 acres	8	1,990	0.40	-42.86
760 to 1,119 acres	16	1,593	1.00	-23.81
1,120 to 1,599 acres	4	801	0.50	33.33
1,600 to 2,239 acres	9	457	1.97	50.00
2,240 to 2,879 acres	0	168	0.00	-100.00
2,880 to 3,519 acres	0	88	0.00	-
3,520 acres and over	1	110	0.91	0.00
Land Use, 2016 Census (acres)				
Land in crops	67,408	9,021,298	0.75	-9.15
Summerfallow land	75	15,885	0.47	-56.90
Tame or seeded pasture	3,092	514,168	0.60	-30.25
Natural land for pasture	3,869	783,566	0.49	0.36
Christmas trees, woodland & wetland	5,682	1,542,837	0.37	-20.75
All other land	3,213	470,909	0.68	-20.03
Total area of farms	83,339	12,348,463	0.67	-11.19
Greenhouse Area, 2016 Census (square feet)				
Total area in use	869,770	158,511,328	0.55	-24.82
Farm Capital Value, 2016 Census (farms reporting)				
Under $200,000	24	2,142	1.12	41.18
$200,000 to $499,999	16	7,433	0.22	-52.94
$500,000 to $999,999	71	12,500	0.57	-25.26
$1,000,000 and over	297	27,525	1.08	1.02
Total Gross Farm Receipts, 2016 Census (farms reporting)				
Under $10,000	89	9,536	0.93	-17.59
$10,000 to $24,999	77	8,376	0.92	2.67
$25,000 to $49,999	57	6,755	0.84	-6.56
$50,000 to $99,999	39	6,263	0.62	11.43
$100,000 to $249,999	66	7,022	0.94	-14.29
$250,000 to $499,999	33	4,707	0.70	-19.51
$500,000 to $999,999	23	3,689	0.62	4.55
$1,000,000 to $1,999,999	17	2,019	0.84	30.77
$2,000,000 and over	7	1,233	0.57	-12.50
Farms by Industry Group, 2016 Census (number of farms)				
Beef cattle ranching and farming	39	6,786	0.57	-15.22
Dairy cattle and milk production	19	3,439	0.55	-24.00
Hog and pig farming	1	1,229	0.08	-
Poultry and egg production	9	1,816	0.50	12.50
Sheep and goat farming	8	1,097	0.73	-11.11
Other animal production	101	5,902	1.71	10.99
Oilseed and grain farming	105	16,876	0.62	-2.78
Vegetable and melon farming	32	1,856	1.72	60.00
Fruit and tree nut farming	18	1,362	1.32	-18.18
Greenhouse, nursery and floriculture	32	2,050	1.56	-31.91
Other crop farming	44	7,187	0.61	-31.25



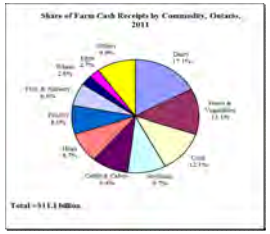
Item	Peel	Province	Percent of province	Percent from 2011
Major Field Crops, 2016 Census (acres)				
Winter wheat	8,510	1,080,378	0.79	-26.33
Oats for grain	209	82,206	0.25	-24.82
Barley for grain	1,761	103,717	1.70	-47.48
Mixed grains	425	92,637	0.46	-32.97
Corn for grain	13,448	2,162,004	0.62	1.54
Corn for silage	1,717	295,660	0.58	-15.75
Hay	12,931	1,721,214	0.75	-26.05
Soybeans	24,592	2,783,443	0.88	8.45
Potatoes	30	34,685	0.09	-44.44
Major Fruit Crops, 2016 Census (acres)				
Total fruit crops	403	51,192	0.79	-6.06
Apples	123	15,893	0.77	-58.16
Sour Cherries	0	2,121	0.00	-100.00
Peaches	0	5,232	0.00	-100.00
Grapes	x	18,718	-	-
Strawberries	56	2,915	1.92	-29.11
Raspberries	x	680	-	-
Major Vegetable Crops, 2016 Census (acres)				
Total vegetables	377	135,420	0.28	-22.11
Sweet corn	68	22,910	0.30	-46.46
Tomatoes	32	15,744	0.20	-39.62
Green peas	10	16,268	0.06	25.00
Green or wax beans	7	9,732	0.07	-22.22
Livestock Inventories, 2016 Census (number)				
Total cattle and calves	9,113	1,623,710	0.56	-23.62
Steers	1,934	305,514	0.63	-0.92
Beef cows	1,383	256,253	0.59	-22.48
Dairy cows	1,766	311,980	0.57	-30.53
Total pigs	57	3,534,104	-	-
Total sheep and lambs	1,075	321,495	0.33	2.67
Poultry Inventories, 2016 Census (number)				
Total hens and chickens	192,868	50,759,994	0.38	-11.08
Total turkeys	106	3,772,146	-	-



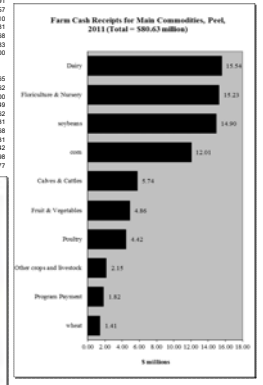
x Suppressed data
Sources: 2016 & 2011 Census of Agriculture and Strategic Policy Branch, OMAFRA
2017-06-02

Peel Regional Municipality at a Glance - 2011

Item	Peel	Province	Percent of province
Farms, 2011 Census (number)			
Total	440	51,950	0.85
Under 10 acres	45	2,741	1.64
10 to 69 acres	163	12,681	1.29
70 to 129 acres	81	11,779	0.69
130 to 179 acres	26	4,969	0.52
180 to 239 acres	24	4,801	0.50
240 to 399 acres	33	6,460	0.51
400 to 559 acres	22	3,359	0.65
560 to 759 acres	14	2,026	0.69
760 to 1,119 acres	21	1,587	1.32
1,120 to 1,599 acres	3	788	0.38
1,600 to 2,239 acres	6	436	1.38
2,240 to 2,879 acres	1	152	0.66
2,880 to 3,519 acres	0	79	0.00
3,520 acres and over	1	92	1.09
Land Use, 2011 Census (acres)			
Land in crops	74,193	8,929,947	0.83
Summerfallow land	174	23,450	0.74
Tame or seeded pasture	4,433	648,758	0.68
Natural land for pasture	3,855	984,809	0.39
Christmas trees, woodland & wetland	7,170	1,612,444	0.44
All other land	4,018	468,828	0.86
Total area of farms	93,843	12,668,236	0.74
Greenhouse Area, 2011 Census (square feet)			
Total area in use	1,156,880	133,520,541	0.87
Farm Capital Value, 2011 Census (farms reporting)			
Under $200,000	17	2,562	0.66
$200,000 to $499,999	34	12,994	0.26
$500,000 to $999,999	95	15,276	0.62
$1,000,000 and over	294	21,118	1.39
Total Gross Farm Receipts, 2011 Census (farms reporting)			
Under $10,000	108	12,263	0.88
$10,000 to $24,999	75	9,098	0.82
$25,000 to $49,999	61	6,720	0.91
$50,000 to $99,999	35	6,189	0.57
$100,000 to $249,999	77	6,985	1.10
$250,000 to $499,999	41	5,086	0.81
$500,000 to $999,999	22	3,248	0.68
$1,000,000 to $1,999,999	13	1,568	0.83
$2,000,000 and over	8	803	1.00
Farms by Industry Group, 2016 Census (number of farms)			
Beef cattle ranching and farming	46	7,105	0.65
Dairy cattle and milk production	25	4,036	0.62
Hog and pig farming	0	1,235	0.00
Poultry and egg production	8	1,619	0.49
Sheep and goat farming	9	1,446	0.62
Other animal production	91	6,966	1.31
Oilseed and grain farming	108	15,818	0.68
Vegetable and melon farming	20	1,531	1.31
Fruit and tree nut farming	22	1,548	1.42
Greenhouse, nursery and floriculture	47	2,372	1.98
Other crop farming	64	8,274	0.77



Item	Peel	Province	Percent of province
Major Field Crops, 2011 Census (acres)			
Winter wheat	11,552	1,100,003	1.05
Oats for grain	278	71,040	0.39
Barley for grain	3,353	126,881	2.64
Mixed grains	634	106,162	0.60
Corn for grain	13,244	2,032,356	0.65
Corn for silage	2,038	271,701	0.75
Hay	17,485	2,077,911	0.84
Soybeans	22,676	2,464,870	0.92
Potatoes	54	37,384	0.14
Major Fruit Crops, 2011 Census (acres)			
Total fruit crops	429	52,740	0.81
Apples	294	15,830	1.86
Sour Cherries	1	2,342	0.04
Peaches	4	6,455	0.06
Grapes	x	18,383	-
Strawberries	79	3,283	2.41
Raspberries	15	902	1.66
Major Vegetable Crops, 2011 Census (acres)			
Total vegetables	484	129,595	0.37
Sweet corn	127	25,540	0.50
Tomatoes	53	16,558	0.32
Green peas	8	15,121	0.05
Green or wax beans	9	9,186	0.10
Livestock Inventories, 2011 Census (number)			
Total cattle and calves	11,931	1,741,381	0.69
Steers	1,952	291,263	0.67
Beef cows	1,784	282,062	0.63
Dairy cows	2,542	318,158	0.80
Total pigs	x	3,088,646	-
Total sheep and lambs	1,047	352,807	0.30
Poultry Inventories, 2011 Census (number)			
Total hens and chickens	216,909	46,902,316	0.46
Total turkeys	x	3,483,828	-



Caledon Township at a Glance - 2021

Item	Caledon	Province	Percent of province	Percent from 2016
Farms, 2021 Census (number)				
Total	308	48,346	0.64%	-10.72%
Under 10 acres	32	3,217	0.99%	10.34%
10 to 69 acres	97	12,886	0.76%	-27.61%
70 to 129 acres	59	10,924	0.54%	-7.81%
130 to 179 acres	22	4,422	0.50%	-8.33%
180 to 239 acres	22	3,981	0.55%	22.22%
240 to 399 acres	14	5,396	0.26%	-26.32%
400 to 559 acres	21	2,865	0.73%	5.00%
560 to 759 acres	10	1,698	0.59%	25.00%
760 to 1,119 acres	13	1,600	0.81%	-18.75%
1,120 to 1,599 acres	7	720	0.97%	75.00%
1,600 to 2,239 acres	5	451	1.11%	-37.50%
2,240 to 2,879 acres	5	173	2.89%	-
2,880 to 3,519 acres	0	95	0.00%	-
3,520 acres and over	1	118	0.85%	0.00%
Land Use, 2021 Census (acres)				
Land in crops	73,480	9,051,011	0.81%	16.16%
Summerfallow land	357	13,964	2.56%	376.00%
Tame or seeded pasture	2,135	400,480	0.53%	-29.95%
Natural land for pasture	2,159	626,366	0.34%	-42.64%
Christmas trees, woodland & wetland	3,860	1,269,535	0.30%	-25.08%
All other land	3,680	404,714	0.91%	35.89%
Total area of farms	85,652	11,786,071	0.73%	9.83%
Greenhouse Area, 2021 Census (square feet)				
Total area in use	112,279	201,055,888	0.06%	-61.84%
Farm Capital Value, 2021 Census (farms reporting)				
Under $200,000	7	1,212	0.58%	-22.22%
$200,000 to $499,999	3	3,223	0.09%	-89.66%
$500,000 to $999,999	26	8,699	0.30%	-67.90%
$1,000,000 and over	272	35,212	0.77%	10.57%
Total Gross Farm Receipts, 2021 Census (farms reporting)				
Under $10,000	64	7,277	0.88%	-12.33%
$10,000 to $24,999	43	7,429	0.58%	-33.85%
$25,000 to $49,999	43	6,263	0.69%	-10.42%
$50,000 to $99,999	26	6,093	0.43%	-23.53%
$100,000 to $249,999	41	6,817	0.60%	-26.79%
$250,000 to $499,999	32	4,448	0.72%	6.67%
$500,000 to $999,999	26	3,954	0.66%	44.44%
$1,000,000 to $1,999,999	9	2,452	0.37%	-40.00%
$2,000,000 and over	8	1,696	0.47%	33.33%
Farms by Industry Group, 2021 Census (number of farms)				
Beef cattle ranching and farming	43	7,986	0.54%	19.44%
Dairy cattle and milk production	12	3,188	0.38%	-33.33%
Hog and pig farming	3	1,189	0.25%	200.00%
Poultry and egg production	10	2,061	0.49%	11.11%
Sheep and goat farming	4	1,309	0.31%	-42.86%
Other animal production	55	4,556	1.21%	-38.20%
Oilseed and grain farming	93	18,194	0.51%	-3.13%
Vegetable and melon farming	27	1,562	1.73%	42.11%
Fruit and tree nut farming	10	1,211	0.83%	-16.67%
Greenhouse, nursery and floriculture	14	1,672	0.84%	-12.50%
Other crop farming	37	5,418	0.68%	-11.90%

Item	Caledon	Province	Percent of province	Percent from 2016
Major Field Crops, 2021 Census (acres)				
Winter wheat	9,822	1,144,406	0.86%	-
Oats for grain	344	84,320	0.41%	-
Barley for grain	916	68,756	1.33%	-
Mixed grains	443	59,961	0.74%	4.24%
Corn for grain	18,776	2,202,465	0.85%	-
Corn for silage	1,471	289,678	0.51%	-
Hay	12,656	1,704,017	0.74%	45.35%
Soybeans	26,211	2,806,255	0.93%	15.48%
Potatoes	4	39,193	0.01%	-83.33%
Major Fruit Crops, 2021 Census (acres)				
Total fruit crops	196	48,661	0.40%	31.54%
Apples	55	16,008	0.34%	-
Sour Cherries	0	1,383	0.00%	-
Peaches	0	4,608	0.00%	-
Grapes	54	18,432	0.29%	-
Strawberries	56	2,633	2.13%	-
Raspberries	16	438	3.65%	-
Major Vegetable Crops, 2021 Census (acres)				
Total vegetables	479	127,893	0.37%	99.58%
Sweet corn	112	20,518	0.55%	-
Tomatoes	28	14,614	0.19%	7.69%
Green peas	28	14,044	0.20%	211.11%
Green or wax beans	18	8,709	0.21%	260.00%
Livestock Inventories, 2021 Census (number)				
Total cattle and calves	8,356	1,604,810	0.52%	-5.48%
Steers	1,940	299,540	0.65%	1.15%
Beef cows	1,184	224,194	0.53%	-
Dairy cows	1,505	327,272	0.46%	-
Total pigs	165	4,071,902	0.00%	189.47%
Total sheep and lambs	542	322,508	0.17%	-42.40%
Poultry Inventories, 2021 Census (number)				
Total hens and chickens	351,400	53,802,772	0.65%	82.51%
Total turkeys	2,098	2,453,126	0.09%	1879.25%

Caledon Township at a Glance - 2016

Item	Caledon	Province	Percent of province	Percent from 2011
Farms, 2016 Census (number)				
Total	345	49,600	0.70	-5.48
Under 10 acres	29	3,051	0.95	45.00
10 to 69 acres	134	12,625	1.06	-5.63
70 to 129 acres	64	10,742	0.60	-7.25
130 to 179 acres	24	4,592	0.52	-4.00
180 to 239 acres	18	4,282	0.42	-18.18
240 to 399 acres	19	6,008	0.32	-29.63
400 to 559 acres	20	3,093	0.65	11.11
560 to 759 acres	8	1,990	0.40	-33.33
760 to 1,119 acres	16	1,593	1.00	-20.00
1,120 to 1,599 acres	4	801	0.50	33.33
1,600 to 2,239 acres	8	457	1.75	33.33
2,240 to 2,879 acres	0	168	0.00	-
2,880 to 3,519 acres	0	88	0.00	-
3,520 acres and over	1	110	0.91	0.00
Land Use, 2016 Census (acres)				
Land in crops	63,239	9,021,298	0.70	-2.29
Summerfallow land	75	15,885	0.47	-9.64
Tame or seeded pasture	3,048	514,168	0.59	-23.82
Natural land for pasture	3,794	783,566	0.48	4.64
Christmas trees, woodland & wetland	5,152	1,542,637	0.33	-23.37
All other land	2,708	470,909	0.58	-23.22
Total area of farms	77,986	12,346,463	0.63	-5.65
Greenhouse Area, 2016 Census (square feet)				
Total area in use	294,236	158,511,328	0.19	-55.12
Farm Capital Value, 2016 Census (farms reporting)				
Under $200,000	9	2,142	0.42	-18.18
$200,000 to $499,999	29	7,433	0.39	93.33
$500,000 to $999,999	81	12,500	0.65	28.57
$1,000,000 and over	246	27,525	0.89	-3.91
Total Gross Farm Receipts, 2016 Census (farms reporting)				
Under $10,000	73	9,536	0.77	-21.51
$10,000 to $24,999	65	8,376	0.78	1.56
$25,000 to $49,999	48	6,755	0.71	-2.04
$50,000 to $99,999	34	6,263	0.54	13.33
$100,000 to $249,999	56	7,022	0.80	-13.85
$250,000 to $499,999	30	4,707	0.64	-3.23
$500,000 to $999,999	18	3,689	0.49	20.00
$1,000,000 to $1,999,999	15	2,019	0.74	25.00
$2,000,000 and over	6	1,233	0.49	0.00
Farms by Industry Group, 2016 Census (number of farms)				
Beef cattle ranching and farming	36	6,786	0.53	-18.18
Dairy cattle and milk production	18	3,439	0.52	-18.18
Hog and pig farming	1	1,229	0.08	-
Poultry and egg production	9	1,816	0.50	12.50
Sheep and goat farming	7	1,097	0.64	0.00
Other animal production	89	5,902	1.51	8.54
Oilseed and grain farming	96	16,876	0.57	7.87
Vegetable and melon farming	19	1,856	1.02	35.71
Fruit and tree nut farming	12	1,362	0.88	0.00
Greenhouse, nursery and floriculture	16	2,050	0.78	-44.83
Other crop farming	42	7,187	0.58	-27.59

Item	Caledon	Province	Percent of province	Percent from 2011
Major Field Crops, 2016 Census (acres)				
Winter wheat	0	1,080,378	0.00	-100.00
Oats for grain	0	82,206	0.00	-
Barley for grain	0	103,717	0.00	-
Mixed grains	425	92,837	0.46	-
Corn for grain	0	2,162,004	0.00	-100.00
Corn for silage	0	295,660	0.00	-100.00
Hay	8,707	1,721,214	0.51	-45.23
Soybeans	22,698	2,783,443	0.82	14.98
Potatoes	24	34,685	0.07	-51.02
Major Fruit Crops, 2016 Census (acres)				
Total fruit crops	149	51,192	0.29	-22.80
Apples	x	15,893	-	-
Sour Cherries	0	2,121	0.00	-
Peaches	0	5,232	0.00	-
Grapes	x	18,718	-	-
Strawberries	x	2,915	-	-
Raspberries	x	680	-	-
Major Vegetable Crops, 2016 Census (acres)				
Total vegetables	240	135,420	0.18	-30.43
Sweet corn	x	22,910	-	-
Tomatoes	26	15,744	0.17	-27.78
Green peas	9	16,268	0.06	-
Green or wax beans	5	9,732	0.05	-44.44
Livestock Inventories, 2016 Census (number)				
Total cattle and calves	8,840	1,623,710	0.54	-21.98
Steers	1,918	305,514	0.63	-0.47
Beef cows	x	236,253	-	-
Dairy cows	x	311,980	-	-
Total pigs	57	3,534,104	-	-
Total sheep and lambs	941	321,495	0.29	-2.79
Poultry Inventories, 2016 Census (number)				
Total hens and chickens	192,538	50,759,994	0.38	-11.16
Total turkeys	106	3,772,146	-	-

Caledon Township at a Glance - 2011

Item	Caledon	Province	Percent of province
Farms, 2011 Census (number)			
Total	365	51,950	0.70
Under 10 acres	20	2,741	0.73
10 to 69 acres	142	12,681	1.12
70 to 129 acres	69	11,779	0.59
130 to 179 acres	25	4,969	0.50
180 to 239 acres	22	4,801	0.46
240 to 399 acres	27	6,460	0.42
400 to 559 acres	18	3,359	0.54
560 to 759 acres	12	2,026	0.59
760 to 1,119 acres	20	1,587	1.26
1,120 to 1,599 acres	3	788	0.38
1,600 to 2,239 acres	6	436	1.38
2,240 to 2,879 acres	0	152	0.00
2,880 to 3,519 acres	0	79	0.00
3,520 acres and over	1	92	1.09
Land Use, 2011 Census (acres)			
Land in crops	64,724	8,929,947	0.72
Summerfallow land	83	23,450	0.35
Tame or seeded pasture	4,001	648,758	0.62
Natural land for pasture	3,597	984,809	0.37
Christmas trees, woodland & wetland	6,723	1,612,444	0.42
All other land	3,527	468,828	0.75
Total area of farms	82,655	12,668,236	0.65
Greenhouse Area, 2011 Census (square feet)			
Total area in use	655,620	133,520,541	0.49
Farm Capital Value, 2011 Census (farms reporting)			
Under $200,000	11	2,562	0.43
$200,000 to $499,999	15	12,994	0.12
$500,000 to $999,999	63	15,276	0.41
$1,000,000 and over	256	21,118	1.21
Total Gross Farm Receipts, 2011 Census (farms reporting)			
Under $10,000	93	12,263	0.76
$10,000 to $24,999	64	9,098	0.70
$25,000 to $49,999	49	6,720	0.73
$50,000 to $99,999	30	6,189	0.48
$100,000 to $249,999	65	6,985	0.93
$250,000 to $499,999	31	5,086	0.61
$500,000 to $999,999	15	3,248	0.46
$1,000,000 to $1,999,999	12	1,558	0.77
$2,000,000 and over	6	803	0.75
Farms by Industry Group, 2011 Census (number of farms)			
Beef cattle ranching and farming	44	7,105	0.62
Dairy cattle and milk production	22	4,036	0.55
Hog and pig farming	0	1,235	0.00
Poultry and egg production	8	1,619	0.49
Sheep and goat farming	7	1,446	0.48
Other animal production	82	6,966	1.18
Oilseed and grain farming	89	15,818	0.56
Vegetable and melon farming	14	1,531	0.91
Fruit and tree nut farming	12	1,548	0.78
Greenhouse, nursery and floriculture	29	2,372	1.22
Other crop farming	58	8,274	0.70

Item	Caledon	Province	Percent of province
Major Field Crops, 2011 Census (acres)			
Winter wheat	9,686	1,100,003	0.88
Oats for grain	0	71,040	0.00
Barley for grain	0	126,881	0.00
Mixed grains	0	106,162	0.00
Corn for grain	12,292	2,032,356	0.60
Corn for silage	1,973	271,701	0.73
Hay	15,898	2,077,911	0.77
Soybeans	19,741	2,464,870	0.80
Potatoes	49	37,384	0.13
Major Fruit Crops, 2011 Census (acres)			
Total fruit crops	193	52,740	0.37
Apples	102	15,830	0.64
Sour Cherries	x	2,342	-
Peaches	x	6,455	-
Grapes	x	18,383	-
Strawberries	54	3,283	1.64
Raspberries	x	902	-
Major Vegetable Crops, 2011 Census (acres)			
Total vegetables	345	129,595	0.27
Sweet corn	61	25,540	0.24
Tomatoes	36	16,558	0.22
Green peas	x	15,121	-
Green or wax beans	9	9,186	0.10
Livestock Inventories, 2011 Census (number)			
Total cattle and calves	11,331	1,741,381	0.65
Steers	1,927	291,263	0.66
Beef cows	1,717	282,062	0.61
Dairy cows	2,356	319,158	0.73
Total pigs	x	3,088,646	-
Total sheep and lambs	968	352,807	0.27
Poultry Inventories, 2011 Census (number)			
Total hens and chickens	216,721	46,902,316	0.46
Total turkeys	x	3,483,826	-

APPENDIX D

Canada Land Inventory Information

Canada Land Inventory Soil Capability Classification for Agriculture

The Canada Land Inventory (CLI) classification system was developed to classifying soil capability for agricultural use for use across Canada. CLI is an interpretative system which assesses the effects of climate and soil characteristics on the limitations of land for growing common field crops. It classifies soils into one of seven capability classes based on the severity of their inherent limitations to field crop production. Soils descend in quality from Class 1, which is highest, to Class 7 soils which have no agricultural capability for the common field crops. Class 1 soils have no significant limitations. Class 2 through 7 soils have one or more significant limitations, and each of these are denoted by a capability subclass.

In Ontario the document, "Classifying Prime and Marginal Agricultural Soils and Landscapes: Guidelines for Application of the Canada Land Inventory in Ontario" (OMAFRA, 2008) provides a Provincial interpretation of the CLI classification system. These guidelines are based on the "Canada Land Inventory, Soil Capability Classification for Agriculture" (ARDA Report No. 2, 1965) and have been modified for use in Ontario. In Ontario, CLI Classes 1 to 4 lands are generally considered to be arable lands and Classes 1 to 3 soils and specialty crop lands are considered to be prime agricultural lands.

The following definitions were taken from Classifying Prime and Marginal Agricultural Soils and Landscapes: Guidelines for Application of the Canada Land Inventory in Ontario (2008).

Definitions of the Capability Classes

Class 1 - Soils in this class have no significant limitations in use for crops. Soils in Class 1 are level to nearly level, deep, well to imperfectly drained and have good nutrient and water holding capacity. They can be managed and cropped without difficulty. Under good management they are moderately high to high in productivity for the full range of common field crops

Class 2 - Soils in this class have moderate limitations that reduce the choice of crops, or require moderate conservation practices. These soils are deep and may not hold moisture and nutrients as well as Class 1 soils. The limitations are moderate and the soils can be managed and cropped with little difficulty. Under good management they are moderately-high to high in productivity for a wide range of common field crops.

Class 3 - Soils in this class have moderately severe limitations that reduce the choice of crops or require special conservation practices. The limitations are more severe than for Class 2 soils. They affect one or more of the following practices: timing and ease of tillage; planting and harvesting; choice of crops; and methods of conservation. Under good management these soils are fair to moderately high in productivity for a wide range of common field crops.

Class 4 - Soils in this class have severe limitations that restrict the choice of crops, or require special conservation practices and very careful management, or both. The severe limitations seriously affect one or more of the following practices: timing and ease of tillage; planting and harvesting; choice of crops; and methods of conservation. These soils are low to medium in productivity for a narrow to wide range of common field crops, but may have higher productivity for a specially adapted crop.

Class 5 - Soils in this class have very severe limitations that restrict their capability to producing perennial forage crops, and improvement practices are feasible. The limitations are so severe that the soils are not capable of use for sustained production of annual field crops. The soils are capable of producing native or tame species of perennial forage plants and may be improved through the use of farm machinery. Feasible improvement practices may include clearing of bush, cultivation, seeding, fertilizing or water control.

Class 6 - Soils in this class are unsuited for cultivation, but are capable of use for unimproved permanent pasture. These soils may provide some sustained grazing for farm animals, but the limitations are so severe that improvement through the use of farm machinery is impractical. The terrain may be unsuitable for the use of farm machinery, or the soils may not respond to improvement, or the grazing season may be very short.

Class 7 - Soils in this class have no capability for arable culture or permanent pasture. This class includes marsh, rockland and soil on very steep slopes.

Definitions of the Prime and Non-prime Agricultural Lands

In Ontario, CLI Classes 1, 2 and 3 and specialty crop lands are considered prime agricultural lands. Non-prime agricultural lands are comprised of CLI Class 4-7 lands.

Organic soils (Muck) are not classified under the CLI system but are mapped and identified as O in the provincial mapping.

Definitions of the Capability Subclasses

Capability Subclasses indicate the kinds of limitations present for agricultural use. Thirteen Subclasses were described in CLI Report No. 2. Eleven of these Subclasses have been adapted to Ontario soils.

Subclass Definitions:

Subclass C - Adverse climate: This subclass denotes a significant adverse climate for crop production as compared to the "median" climate which is defined as one with sufficiently high growing-season temperatures to bring common field crops to maturity, and with sufficient precipitation to permit crops to be grown each year on the same land without a serious risk of partial or total crop failures. In Ontario this subclass is applied to land averaging less than 2300 Crop Heat Units.

Class	Crop Heat Units
1	>2300
2C	1900-2300
3C	1700-1900
4C	<1700

Subclass D - Undesirable soil structure and/or low permeability*:* This subclass is used for soils which are difficult to till, or which absorb or release water very slowly, or in which the depth of rooting zone is restricted by conditions other than a high water table or consolidated bedrock. In Ontario this subclass is based on the existence of critical clay contents in the upper soil profile.

Class	Soil Characteristics
2D	The top of a clayey horizon >15 cm thick occurs within 40 cm of the soil surface. Clayey materials in this case must have >35% clay content.
3D	The top of a very fine clayey (clay content >60%) horizon >15 cm thick occurs within 40 cm of the soil surface

Subclass E - Erosion*:* Loss of topsoil and subsoil by erosion has reduced productivity and may in some cases cause difficulties in farming the land e.g. land with gullies.

Class	Soil Characteristics
2E	Loss of the original plough layer, incorporation of original B horizon material into the present plough layer, and general organic matter losses have resulted in moderate losses to soil productivity.
3E	Loss of original solum (A and B horizons) has resulted in a plough layer consisting mostly of

	Loamy or Clayey parent material. Organic matter content of the cultivated surface is less than 2%.
4E	Loss of original solum (A and B horizons) has resulted in a cultivated layer consisting mainly of Sandy parent material with an organic matter content of less than 2%; shallow gullies and occasionally deep gullies which cannot be crossed by machinery may also be present.
5E	The original solum (A and B horizons) has been removed exposing very gravelly material and/or frequent deep gullies are present which cannot be crossed by machinery.

Subclass F - Low natural fertility*:* This subclass is made up of soils having low fertility that is either correctable with careful management in the use of fertilizers and soil amendments or is difficult to correct in a feasible way. The limitation may be due to a lack of available plant nutrients, high acidity, low exchange capacity, or presence of toxic compounds.

Class	Upper Texture Group (>40 and <100 cm from surface)	Lower Texture Group (remaining materials to 100 cm depth)	Drainage Class	Additional Soil Characteristics[1]
2F	Sandy	Sandy or very gravelly	Rapid to imperfect	Neutral or alkaline parent material with a Bt horizon within 100 cm of the surface
3F	Sandy	Sandy or very gravelly	Any drainage class	Neutral or alkaline parent material with no Bt horizon present within 100 cm of surface
3F	Sandy	Loamy or Clayey	Any drainage class	Acid parent material
3F	Loamy or clayey	Any Texture Group	Any drainage class	Acid parent material
4F	Sandy	Sandy or very gravelly	Any drainage class	Acid parent material
4F	Very gravelly	Any texture	Rapid to imperfect	Neutral to alkaline parent material
5F	Very Gravelly	Any texture	All drainage classes	Acid parent material

[1] "Acid" means pH<5.5; "Neutral" pH 5.5 to 7.4; "Alkaline" pH>7.4 as measured in 0.01 M CaCl2 (CSSC, 1998). PH 's measured in distilled water tend to be slightly higher (up to 0.5 units).

Bt horizon should be fairly continuous and average more than 10cm thickness

Subclass I - Inundation by streams or lakes: Flooding by streams and lakes causes crop damage or restricts agricultural use.

Class	Soil Characteristics
3I	Frequent inundation with some crop damage; estimated frequency of flooding is less than once every 5 years (Floodplain); includes higher floodplain-terraces on which cultivated field crops can be grown.
5I	Very frequent inundation with some crop damage; estimated frequency of flooding is at least once every 5 years (Floodplain); includes active floodplain areas on which forage crops can be grown primarily for pasture.
7I	Land is inundated for most of the growing season; often permanently flooded (Marsh)

Subclass M – Moisture deficiency: Soils in this subclass have lower moisture holding capacities and are more prone to droughtiness.

Class	Soil Texture Groups		Drainage	Additional Soil Characteristics
	Upper materials1	Lower materials2		
2M	15 to 40 cm of loamy or finer materials	Sandy to Very Gravelly	Well	
2M	40 to < 100 cm of sandy to very gravelly material.	Loamy to Very Fine Clayey	Well	
2M	Sandy		Rapid to well	Well developed Bt3 horizon occurs within 100 cm of surface
3M	Sandy material to > 100cm		Rapid	Bt horizon absent within 100 cm of surface
4M	Very Gravelly to > 100 cm		Rapid	Bt horizon present within 100 cm of surface
5M	Very gravelly to > 100cm		Very rapid	Bt horizon absent within 100cm

Subclass P - Stoniness: This subclass indicates soils sufficiently stony to hinder tillage, planting, and harvesting operations.

Class	Soil Characteristics
2P	Surface stones cause some interference with tillage, planting and harvesting; stones are 15-60 cm in diameter, and occur in a range of 1-20 m apart, and occupy <3% of the surface area. Some stone removal is required to bring the land into production.
3P	Surface stones are a serious handicap to tillage, planting, and harvesting; stones are 15-60 cm in diameter, occur 0.5-1m apart (20-75 stones/100 m^2), and occupy 3-15% of the surface area. The occasional boulder >60 cm in diameter may also occur. Considerable stone removal is required to bring the land into production. Some annual removal is also required.
4P	Surface stones and many boulders occupy 3-15% of the surface. Considerable stone and boulder removal is needed to bring the land into tillable production. Considerable annual removal is also required for tillage and planting to take place.
5P	Surface stones 15-60 cm in diameter and/or boulders >60 cm in diameter occupy 15-50% of the surface area (>75 stones and/or boulders/100 m2).
6P	Surface stones 15-60 cm in diameter and/or boulders >60 cm in diameter occupy >50% of the surface area.

Subclass R - Shallowness to Consolidated Bedrock: This subclass is applied to soils where the depth of the rooting zone is restricted by consolidated bedrock. Consolidated bedrock, if it occurs within 100 cm of the surface, reduces available water holding capacity and rooting depth. Where physical soil data were available, the water retention model of McBride and Mackintosh was used to assist in developing the subclass criteria.

Class	Soil Characteristics
3R	Consolidated bedrock occurs at a depth of 50-100 cm from the surface causing moderately severe restriction of moisture holding capacity and/or rooting depth.
4R	Consolidated bedrock occurs at a depth of 20-50 cm from the surface causing severe restriction of moisture holding capacity and/or rooting depth.
5R	Consolidated bedrock occurs at a depth of 10 to 20 cm from the surface causing very severe restrictions for tillage, rooting depth and moisture holding capacity. Improvements such as tree removal, shallow tillage, and the seeding down and fertilizing of perennial forages for hay and grazing may be feasible.

6R	Consolidated bedrock occurs at a depth of 10-20 cm from the surface but improvements as in 5R are unfeasible. Open meadows may support grazing.
7R	Consolidated bedrock occurs at < 10cm from the surface.

Subclass S - Adverse soil characteristics: This subclass denotes a combination of limitations of equal severity. In Ontario it has often been used to denote a combination of F and M when these are present with a third limitation such as T, E or P.

Subclass T - Topography

The steepness of the surface slope and the pattern or frequency of slopes in different directions are considered topographic limitations if they: 1) increase the cost of farming the land over that of level or less sloping land; 2) decrease the uniformity of growth and maturity of crops; and 3) increase the potential of water and tillage erosion.

Determination of Subclass T for Very Gravelly and Sandy Soils

Slope %	<2		2-5		5-9		9-15		15-30		30-60		>60	
Slope type	S	C	S	C	S	C	S	C	S	C	S	C	S	C
Class				2T	2T	3T	3T	4T	5T	5T	6T	6T	7T	7T

Slope %	<2		2-5		5-9		9-15		15-30		30-60		>60	
Slope type	S	C	S	C	S	C	S	C	S	C	S	C	S	C
Class				2T	3T	3T	4T	4T	5T	5T	6T	6T	7T	7T

S = Simple Slopes >50 m in length

C =Complex Slopes <50 m in length

Subclass W - Excess water:

The presence of excess soil moisture, other than that brought about by inundation, is a limitation to field crop agriculture. Excess water may result from inadequate soil drainage, a high water table, seepage or runoff from surrounding areas.

Soil Textures and Depths	**Depth to Bedrock** (cm)	**Soil Class** (Drainage in place or feasible)	**Soil Class** (Drainage not feasible)
Very gravelly, sandy, or loamy extending >40 cm from the surface, or, <40 cm of any other textures overlying very gravelly, sandy or loamy textures	>100	2W	4W, 5W
>40 cm depth of clayey or very fine clayey textures, or, <40 cm of any other texture overlying clayey or very fine clayey textures	>100	3W	5W
<40 cm of peaty material overlying any texture	>100	3W	5W
All textures	50-100	4W	5W
All textures	0-50	NA	5W

APPENDIX E

Site Photographs



Photo 1: Operation #1 – Sign for John's Nursery Garden



Photo 2: Operation #1 – John's Nursery Garden, gated entry.



Photo 3: Operation #2 – James Dick Construction Ltd., aggregate storage in plastic Quonset huts.

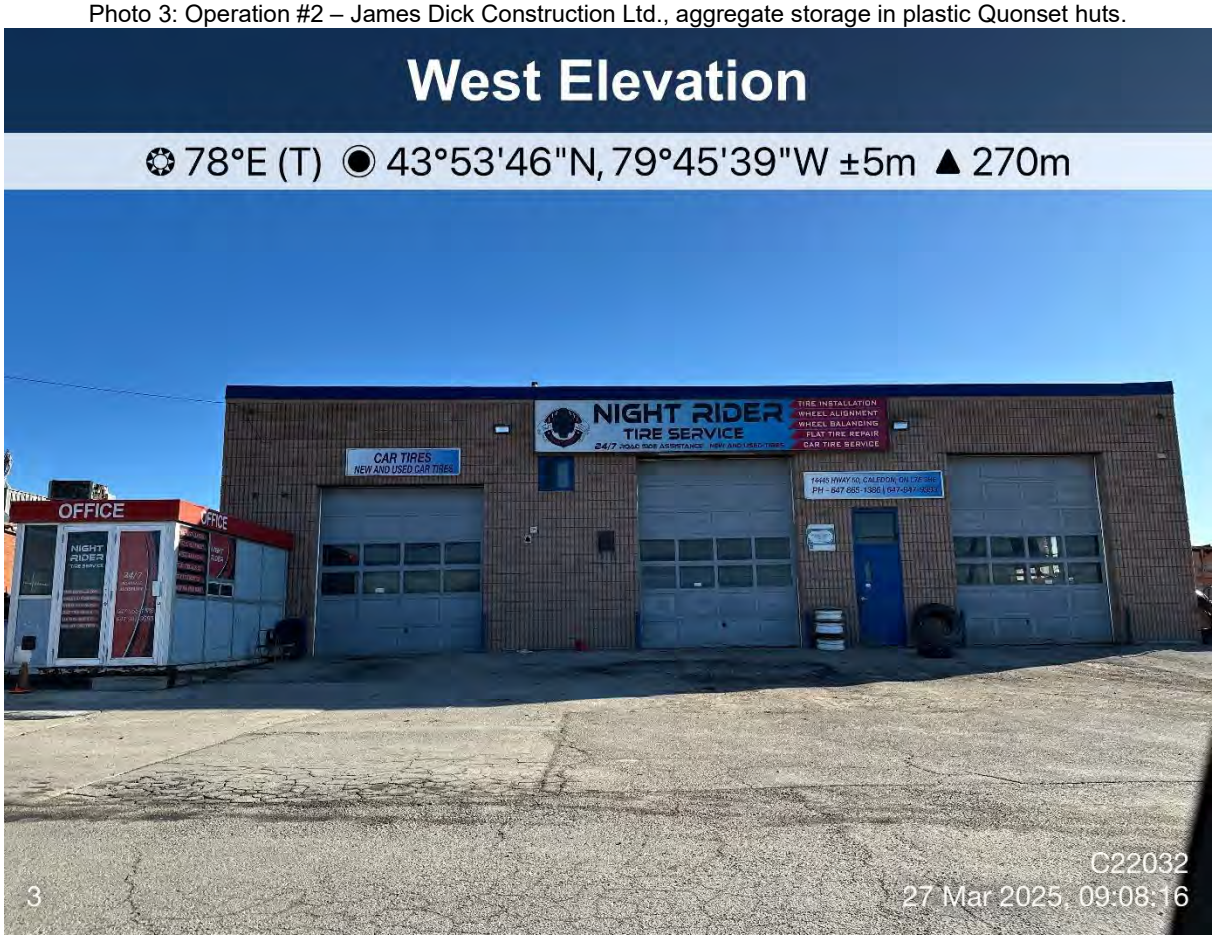


Photo 4: Operation #3 – Commercial operation, Night Rider Tire Service.



Photo 5: Operation #4 – Esso gas station, mechanic in rear of building.



Photo 6: Operation #5 – Fromer livestock operation, barns storing hay, manure storage with construction manterials.



Photo 7: Operation #6 – Unoccupied livestock operation, former dairy. Implement shed and barn in good condition.

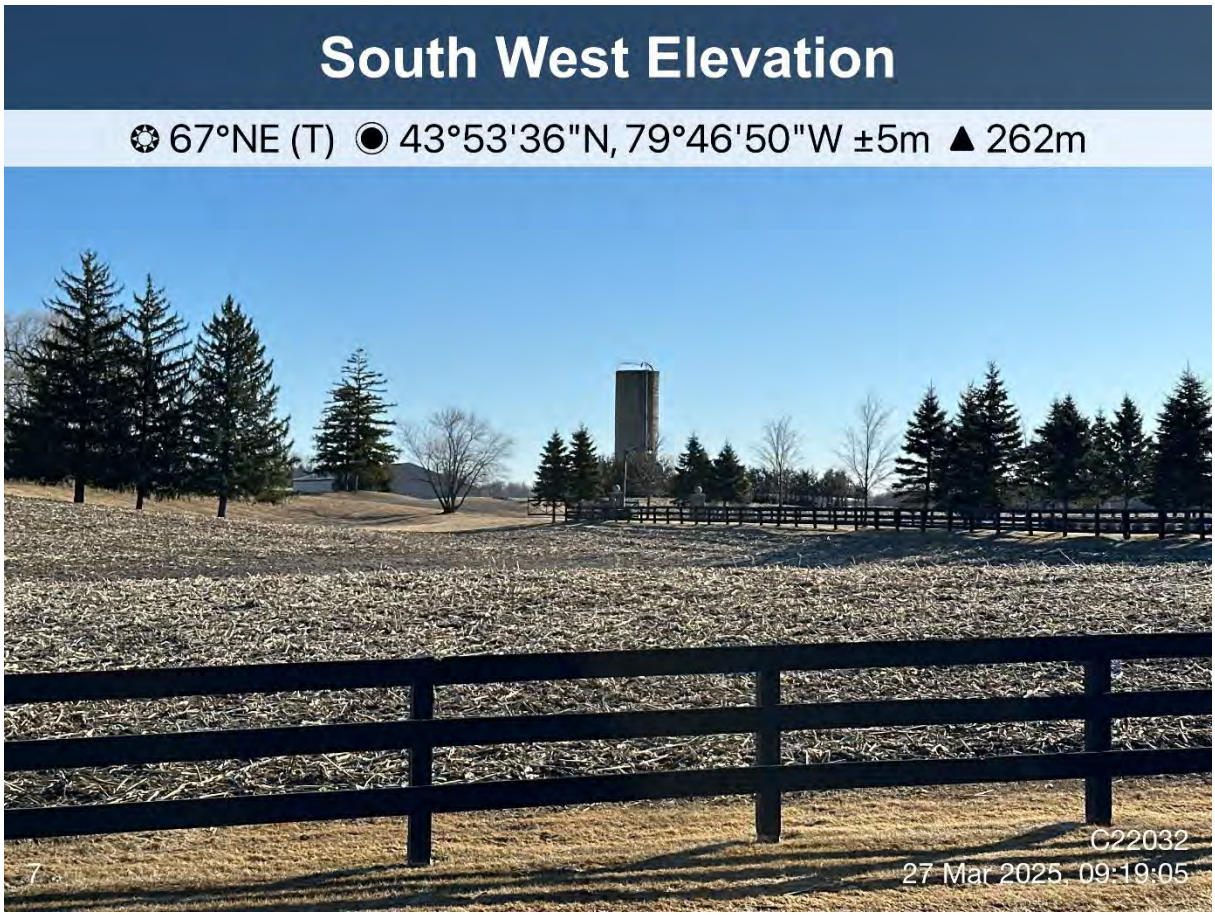


Photo 8: Operation #7 – Remnant farm, uncapped silo. Gated entry.

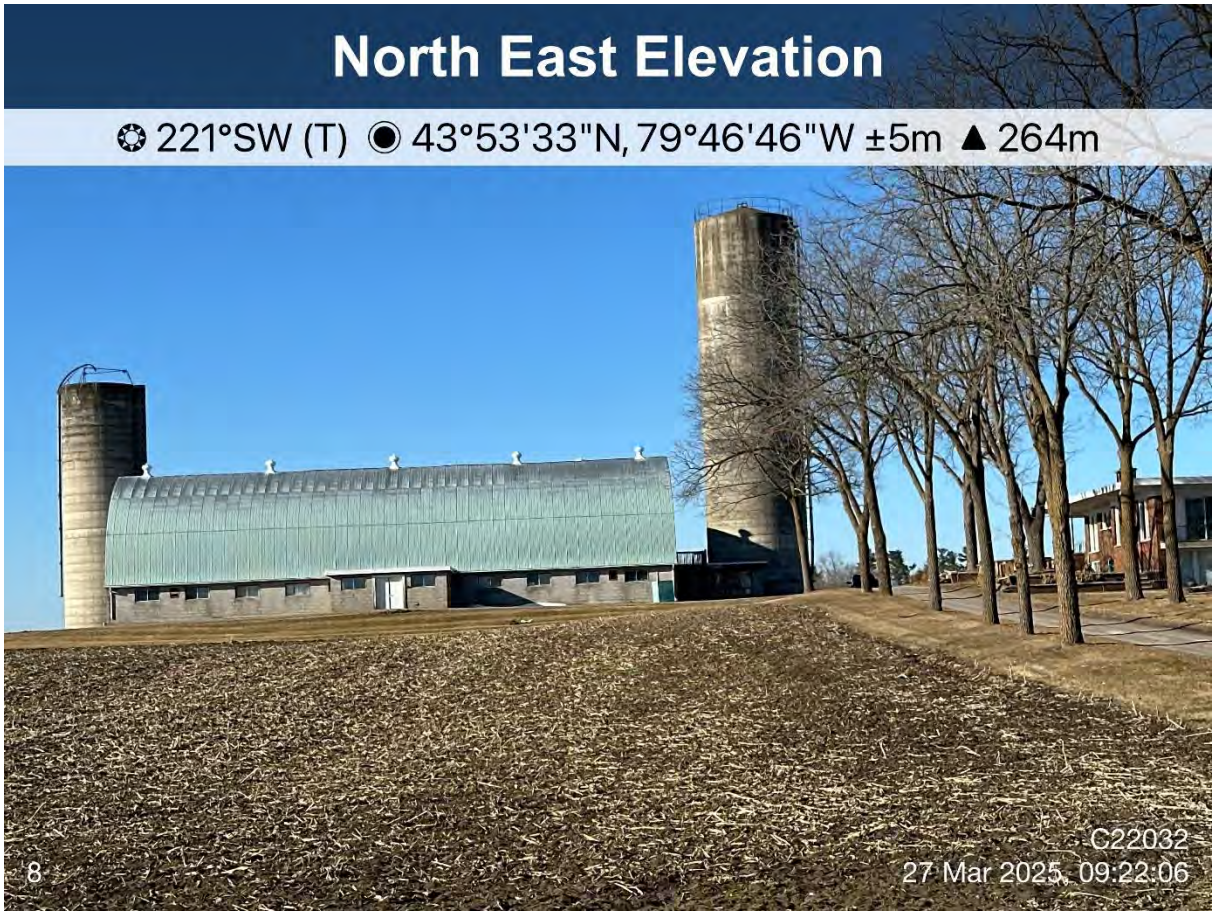


Photo 9: Operation #8 – Unoccupied livestock operation, barn in good condition.



Photo 10: Subject Lands – Parcel B, scrub.



Photo 11: Parcel C – Vegetated berm following road.



Photo 12: Operation #9 – Duffy Homestead, museum display.

APPENDIX F

Land Use Notes

Land Use Survey Notes – AIA for Bolton Class EA			
Weather	Sunny	**Date (s)**	March 27, 2025
Temperature	8°C	**File**	C22032

Site No.	Type of Use	Type of Operation	MDS Calculation Required?	Description of Operation
1	Agricultural/ Agriculture-Related	Nursery Operation/Garden Centre	No	John's Nursery Garden. 6 greenhouses growing plant with garden centre selling garden plants and soil mix.
2	Non-Agricultural	Industrial	No	James Dick Construction Ltd. Aggregate storage in plastic Quonset huts, mix of industrial and office buildings. Site is heavily disturbed.
3	Non-Agricultural	Commercial	No	Night Rider Tire Service.
4	Non-Agricultural	Commercial	No	Esso gas station. Mechanic in rear of building.
5	Agricultural	Cash Crop Operation	No	Former livestock operation, all barns now used for hay storage. Manure storage being used for construction storage.
6	Agricultural	Unoccupied Livestock Facility	Yes	Chesslawn Farm. Two capped cement silos, one capped cement silo. Two implement sheds wooden bank barn in good condition. Spoke with landowner in 2023, OFA member, former dairy operation currently empty. M1 manure storage.
7	Agricultural	Remnant Farm	No	Gated, no trespassing, uncapped cement silo, implement shed, barn demolished in 2004, no sign of livestock, not capable of housing livestock.

8	Agricultural	Unoccupied Livestock Facility	Yes	Spoke with tenant in 2023, unoccupied livestock facility, capped cement silo, barn in good condition, large harvester outside, no livestock for at least the past 15 years, barn currently used for storage of snow removal equipment, lands owned by developer and tenant farmed
9	Non-Agricultural	Remnant Farm	No	Duffy Homestead Museum. Wooden bank barn, converted for museum display.
10	Agricultural	Remnant Farm	No	Appears to be part of former agricultural operation, now used for outdoor industrial storage.

	Total Number	**Active**	**Retired or Remnant**
Agricultural	7	1 – Nursery Operation 1 – Cash Crop Operation	2 – Unoccupied Livestock Facility 3 – Remnant Farm
Agriculture-related	1	1 – Garden Centre	0
On-farm Diversified	0	0	0
	Total Number	**Type**	
Non-Agricultural	3	1 – Industrial 2 – Commercial	