



Welton & Innes Limited Partnership

**PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT**

299 LYNDEN ROAD, BRANTFORD, ONTARIO

DRAFT REPORT

MAY 19, 2022

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1.0 EXECUTIVE SUMMARY

Terrapex Environmental Ltd. (Terrapex) was retained by Welton & Innes Limited Partnership (Welton & Innes G.P. Inc.) to conduct a Phase One environmental site assessment (ESA) of the property located at 299 Lynden Road, Brantford, Ontario (the Phase One property, hereinafter referred to as the Site). It is understood that the study documented herein is being undertaken for the purposes of filing a Record of Site Condition per Ontario Regulation (O. Reg.) 153/04 under the Environmental Protection Act, *Records of Site Condition - Part XV.1 of the Act*.

The objective of the investigation was to identify actual and potential sources of contamination associated with the Site arising from current and/or historical activities on the Site and on properties within the Phase One study area in order to satisfy the following Phase One ESA general objectives listed in O. Reg. 153/04:

- to develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One property;
- to determine the need for a Phase Two ESA; and,
- to provide a basis for carrying out any Phase Two ESA required.

The Site is located at the intersection of Welton Road and Lynden Road. The majority of the Site is used for agricultural purposes, with the exception of a steel structure in the southeast portion of the Site. The Site is bounded by residential properties to the west, a tributary of Fairchild Creek and forested land to the north and forested land to the east, CN railway to the southeast, Lynden Road, commercial and residential properties to the south. Welton Road road allowance runs north/south along the middle of the Site. There's a wetland/pond area in the west side of the Site and southeast portion of the site. A small stream also runs northwest to southeast through the middle of the Site.

The Site is currently owned by Welton & Innes G.P. Inc. and is used for agricultural purposes. Based on the historical review, the site has always been used for agricultural purposes.

Following the completion of the preliminary records review, Terrapex determined the following:

- The Site is not an enhanced investigation property.
- The Phase One study area consists of the Site and properties located wholly or partly within 250 metres from the nearest point on a boundary of the Site. It need not include any properties beyond this distance.

Based on the above, the property is known to have been used as a PCA since at least 1945. As per section 22 of O.Reg.153/04, since the date of this PCA first occurred is not known, the date of first developed use is 1875.

Based on the review, evaluation, and interpretation of the information obtained from the records review, interviews, and site reconnaissance, two potentially contaminating activities (PCAs), as listed in Table 2 of Schedule D of O. Reg. 153/04, were identified at the Site. Overall, a total of ten PCAs were identified on the Phase One property and within the Phase One Study Area, of which nine, may be contributing to a total of nine areas of potential environmental concern (APECs) at the Site.

As a result of the PCAs and other considerations, the following APECs and associated Contaminants of Potential Concern (COPCs) were identified at the Site:

APEC¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 1	Entire property	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site (PCA 1)	OCPs	Soil Groundwater
APEC 2	Southeastern portion of property	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	On-Site (PCA 2)	BTEX PHCs VOCs PAHs Metals	Soil Groundwater
APEC 3	Western property boundary	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-Site (PCA 3)	OCPs	Groundwater
APEC 4	Southeastern property line	46 - Rail Yards, Tracks and Spurs	Off-Site (PCA 4)	Metals SVOCs	Groundwater
APEC 5	Southeastern property line	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-Site (PCA 5)	OCPs	Groundwater

APEC¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 6A	Southern property line	30 - Importation of Fill Material of Unknown Quality	Off-Site (PCA 6A)	BTEX PHCs VOCs PAHs 1.2.3 Metals, Hydride-Forming 1.2.1 Calcium and Magnesium 1.3 Other Regulated Parameters (ORPs) 1.2.4 Sodium	Groundwater
APEC 6B	Southern property line	30 - Importation of Fill Material of Unknown Quality	Off-Site (PCA 6B)	BTEX PHCs VOCs PAHs 1.2.3 Metals, Hydride-Forming 1.2.1 Calcium and Magnesium 1.3 Other Regulated Parameters (ORPs) 1.2.4 Sodium	Groundwater
APEC 7	Southeastern property line	28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site (PCA 7)	BTEX PHCs	Groundwater
APEC 8	Southwestern property line	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-Site (PCA 8)	BTEX PHCs VOCs PAHs Metals	Groundwater

¹ Areas of potential environmental concern (APEC) means the area on, in or under a Phase One property where one or more contaminants are potentially present, as determined through the Phase One environmental site assessment, including through,
(a) identification of past or present uses on, in or under the Phase One property, and
(b) identification of potentially contaminating activity.

² As set out in Column A of Table 2 of Schedule D.

³ Contaminants of potential concern (COPC) according to the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", March 9, 2004, amended as of July 1, 2011:

BTEX: benzene, toluene, ethylbenzene, xylenes
PHCs: petroleum hydrocarbons (F1-F4)
VOCs: volatile organic compounds
PAHs: polycyclic aromatic hydrocarbons

Hg: mercury
B (hws): boron, hot water soluble
Cr (VI): chromium (hexavalent)
CN-: cyanide

As: arsenic
Sb: antimony
Se: selenium
Na: sodium
Cl: chloride
EC: electrical conductivity
SAR: sodium adsorption ratio
PCBs: polychlorinated biphenyls

Based on the findings and results of the Phase One ESA, several APECs have been identified at the Site; therefore, a Phase Two ESA is required in order to file a RSC for the Phase One Property, in accordance with the requirements of O. Reg. 153/04.

A RSC cannot be filed for the Phase One Property based solely on this Phase One ESA.

2.0 INTRODUCTION

Terrapex Environmental Ltd. (Terrapex) was retained by Welton & Innes Limited Partnership (Welton & Innes G.P. Inc.) to conduct a Phase One Environmental Site Assessment (ESA) of the property located at 299 Lynden Road, Brantford, Ontario (the Phase One property, hereinafter referred to as the Site). It is understood that the study documented herein is being undertaken for the purposes of filing a Record of Site Condition per Ontario Regulation (O. Reg.) 153/04 under the Environmental Protection Act, *Records of Site Condition - Part XV.1 of the Act*.

2.1 OBJECTIVE

The objective of the investigation was to identify actual and potential sources of contamination associated with the Site arising from current and/or historical activities on the Site and on properties within the "Phase One Study Area" (refer to Section 4.1.1), in order to satisfy the following Phase One ESA general objectives listed in O. Reg. 153/04:

- to develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One property;
- to determine the need for a Phase Two ESA;
- to provide a basis for carrying out any Phase Two ESA required; and,
- if necessary, to provide adequate preliminary information about environmental conditions in the land or water on, in or under the Phase One property for the conduct of a Risk Assessment following completion of a Phase Two ESA.

2.2 PHASE ONE PROPERTY INFORMATION

Information regarding the location and identification of the Phase One property and the party authorizing this study is provided in Table 1 below.

The Site is located at the intersection of Welton Road and Lynden Road. The majority of the Site is used for agricultural purposes, with the exception of a steel structure in the southeast portion of the Site. The Site is bounded by residential properties to the west, a tributary of Fairchild Creek and forested land to the north and forested land to the east, CN railway to the southeast, Lynden Road, commercial and residential properties to the south. Welton Road road allowance runs north/south along the middle of the Site. There's a wetland/pond area in the west side of the Site and southeast portion of the site. A small stream also runs northwest to southeast through the middle of the Site.

The Site is currently owned by Welton & Innes G.P. Inc. and is used for agricultural purposes. Based on the historical review, the site has always been used for agricultural purposes.

Refer to Figure 1 for the location of the Site, and to Figure 2 for the general layout of the Site at the time of the site reconnaissance.

TABLE 1: PHASE ONE PROPERTY INFORMATION

Municipal Address:	299 Lynden Road, Brantford, Ontario
Property Identification Number (PIN):	32269-0008 (LT) 32269-0045 (LT)
Legal Description:	PIN 32269-0008 (LT) - PT LT 43 CON 2 BRANTFORD, DESIGNATED AS PART 1 ON 2R-6728; COUNTY OF BRANT PIN 32269-0045 (LT) - PT LT 42, CON 2, GEOGRAPHIC TWP OF BRANTFORD, DESIGNATED AS PART 1 ON 2R-6745; COUNTY OF BRANT
UTM Coordinates (centre of site, NAD83):	17T East: 563568.317 North: 4781309.754
Name and Address of Owner:	Welton & Innes G.P. Inc. 3700 Steeles Ave W, Suite 800 Vaughan, Ontario L4L 8M9
Name and Address of Authorizing Party:	Natalie Shurigina 3700 Steeles Avenue West, Suite 800 Vaughan, Ontario L4L 8M9
Site Area (m ²):	650,862 m ²
Structures:	metal barn shed
Occupants (current):	vacant
Other facilities of note:	None

2.3 PLAN OF SURVEY

Welton & Innes G.P. Inc. provided two plans of surveys below, prepared by MacDonald Tamblyn Lord Surveying, plotted June 10, 2019.

- Plan of Survey Illustrating Topography of Part of the South Half of Lot 42, Concession 2, Geographic Township of Brant, now in the City of Brantford, County of Brant
- Plan of Survey Illustrating Topography of Part of the South Half of Lot 43, Concession 2, Geographic Township of Brant, now in the City of Brantford, County of Brant

A copy of the plan of surveys are included in Appendix I.

2.4 ENHANCED INVESTIGATION PROPERTY

An enhanced investigation property is defined in O. Reg. 153/04 as a property that is being used or has been used, in whole or in part, for an industrial use or for commercial use as a garage, a bulk liquid dispensing facility (including a gasoline outlet), or for the operation of dry cleaning equipment.

The Site is not an enhanced investigation property.

3.0 SCOPE OF INVESTIGATION

3.1 GENERAL

The Phase One ESA was conducted in accordance with the current requirements of O. Reg. 153/04 and as outlined in the Terrapex proposal to Welton & Innes G.P. Inc. dated April, 12, 2022. The Phase One ESA also meets or exceeds the requirements of a Phase I ESA as prescribed by the Canadian Standards Association Standard Z768-01 (R2012). The five main components of the Phase One ESA scope of work are described below.

Records Review: A review was conducted of available historic and current environmental information pertaining to the Site and the Phase One study area in accordance with Schedule D (Phase One Environmental Site Assessments) of O. Reg. 153/04.

Interviews: An interview was conducted with a representative of the current owner of the Site. Representatives of the previous owners were not available.

Site Reconnaissance: A reconnaissance of the Site and accessible properties within the Phase One study area was conducted for evidence of potential environmental concerns.

Evaluation: The information obtained from the records review, interviews, and Site reconnaissance was reviewed, evaluated and interpreted by the Qualified Person (QP) for this project (see Section 3.2 below) in consideration of the Phase One ESA general objectives and any uncertainty associated with the data sources.

Reporting: In accordance with the requirements of Schedule D of O. Reg. 153/04, this report documents the findings, conclusions, and recommendations of the Phase One ESA and includes:

- a table of the current and past uses of the Phase One property;
- a table of identified potentially contaminating activities (PCAs) and a table of associated areas of potential environmental concern (APECs);
- a Phase One conceptual Site model (CSM); and,
- conclusions and recommendations made based on the evaluation and interpretation of information obtained for the Phase One ESA.

3.2 QUALIFIED PERSON

The Phase One ESA was supervised by Jeff Stevenson, Senior Project Manager of Terrapex, located at 65 Nebo Road in Hamilton, Ontario. Jeff Stevenson is a licensed Professional Geoscientist in Ontario and meets the qualifications as a QP with the Ministry of the Environment, Conservation and Parks (MECP, formerly known as the Ministry of Environment and Climate

Change, MOECC, and Ministry of the Environment, MOE) for the purpose of creating and submitting RSCs for filing on the Brownfields Environmental Site Registry (ESR).

3.3 LIMITATIONS

It should be noted that although Terrapex has attempted to verify information wherever possible, except where explicitly noted, we have relied upon the accuracy of information collected during the records review and interview components.

The general limitations of the study are provided in Section 8.3. Specific limitations of this Phase One ESA are as follows:

- the roof of the building was not accessible for safety reasons;
- no personnel with knowledge of the Site prior to 2000 were available for interviews;
- a response has not been received to our request for file information from the MECP and the City of Brantford.

In the opinion of the QP, none of the above limitations are considered to have compromised the objectives of the Phase One ESA.

4.0 RECORDS REVIEW

4.1 GENERAL

Terrapex obtained and reviewed records relating to the Site and surrounding properties within the Phase One Study Area, in accordance with Schedule D (Phase One Environmental Site Assessments) of O. Reg. 153/04. The records and sources of information reviewed are summarized below, and a list of all documents and data cited in this report is provided in Section 9.0.

4.1.1. PHASE ONE STUDY AREA DETERMINATION

To determine the Phase One Study Area, Terrapex conducted a preliminary records review to identify any conditions that might warrant an expansion of the Phase One Study Area beyond the minimum required by O. Reg. 153/04. This review included searches / reviews of the following information:

- aerial photographs and satellite images;
- Provincial waste disposal site inventory documents; and,

The preliminary review did not identify any potential concerns warranting an expansion of the Phase One Study Area.

Accordingly, the Phase One Study Area was established as comprising the Site as well as properties located within a 250 m radius of the Site boundaries.

The boundary of the Phase One Study Area is depicted in Figure 3. Note that all distances are calculated from the nearest property boundary of the site to the nearest boundary of the feature/site in question and are approximate.

4.1.2. FIRST DEVELOPED USE DETERMINATION

Information obtained during the records review portion of the work program was used to determine the date of the first developed use of the Site, as defined in O. Reg. 153/04, summarized in Table 2 below:

TABLE 2: FIRST DEVELOPED USE

YEAR	SITE FEATURES	POTENTIALLY CONTAMINATING ACTIVITY ¹	REFERENCE/SOURCE
1945	4 structures and agricultural land	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	1945 aerial photo

¹As set out in Table 2 in Schedule D of O. Reg. 153/04.

Based on the above, the property is known to have been used as a PCA since at least 1945. As per section 22 of O.Reg.153/04, since the date of this PCA first occurred is not known, the date of first developed use is 1875.

4.1.3. FIRE INSURANCE PLANS

ERIS Environmental Risk Information Services Ltd. (ERIS) provided an Enviroscan™ search (provided by Opta Information Intelligence) for the site and surrounding properties. No fire insurance plans, underwriters' reports or underwriters' plans for the Site were located.

4.1.4. CHAIN OF TITLE

The records review indicated that the Site has always been used for agricultural purposes. Therefore, it was determined by the QP overseeing the Phase One ESA study, in accordance with Clause 3 (2) 1 of Schedule D of O. Reg. 153/04, that a title search back to the date of first developed use would not contribute significant additional information regarding the environmental condition of the Phase One property. However, an electronic search of the Parcel Register database was provided by the Client, which showed the following owners and dates of ownership:

PIN 32269-0008 (LT)

- 2106842 Ontario Inc., prior to 2007/01/08;
- Welton & Innes G.P. Inc., 2007/01/08

PIN 32269-0045 (LT)

- 2115997 Ontario Inc., prior to 2007/01/08;
- Welton & Innes G.P. Inc., 2007/01/08

A copy of the Parcel Register information is included in Appendix II.

4.1.5. ENVIRONMENTAL REPORTS

No previous environmental reports for the Site were available for review.

4.1.6. PROPERTY USE RECORDS

A municipal directory search was conducted for the Site and select neighbouring properties within 250 m for years between 1972 and 2012. Municipal directory information was obtained by ERIS.

Based on a review of the information obtained, no listings indicative of PCAs, or otherwise of potential environmental concern to the Site, were identified.

A copy of the municipal directory search results is provided in Appendix III.

4.2 ENVIRONMENTAL SOURCE INFORMATION

4.2.1. ERIS ENVIRONMENTAL DATABASE

Terrapex ordered a RSC Report (Rural) from Environmental Risk Information Services Information Limited Partnership. (ERIS) for any records associated with properties within the Phase One study area. ERIS searched government and privately owned databases for environmental source information, including the information and documents listed in paragraph 7 of subsection 3 (2) in Schedule D of O. Reg. 153/04. The report included geological maps and a map of Areas of Natural and Scientific Interest (ANSIs).

The report from ERIS is included in Appendix IV and includes a detailed report which presents information for the records found, a Site diagram which plots the locations of the properties for which records were found (provided sufficient address information was available), as well as an appendix which contains a list and descriptions of the databases ERIS searched.

The ERIS report indicated no relevant listings for the Site and one relevant listing within the phase one study area. Relevant listings are summarized in Table 3 below:

TABLE 3 - SUMMARY OF RELEVANT ERIS FINDINGS

ADDRESS	PROXIMITY ¹	DATABASE	YEAR(S) ²	DETAILS	PCA ³ s/POTENTIAL CONCERNS
294 Lynden Road	Southwest-55m	GEN - Ontario Regulation 347 Waste Generators Summary	As of 2019	Generator of waste crank case oils and lubricants, light fuels, and aliphatic solvents and residues	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems

¹ direction and approximate distance to nearest Site boundary

² For SCT listings, the year is the year the company was established.

³ As set out in Table 2 in Schedule D of O. Reg. 153/04.

4.2.2. OTHER GOVERNMENT AND REGULATORY DOCUMENTATION

Terrapex contacted representatives of provincial and municipal government agencies to request any environmental information in their files related to the Site, and/or any available information pertaining to nearby water bodies and areas of natural significance within the Phase One Study Area. Terrapex also conducted searches of available information provided on government websites. The responses received from the government agencies, as well as the additional information obtained through website searches, are summarized in the following sections. Copies of relevant documents and maps are included in Appendix V.

Ontario Ministry of the Environment, Conservation and Parks (MECP): Terrapex submitted a Freedom of Information (FOI) request regarding documented environmental concerns related to the address of 299 Lynden Road, Brantford, Ontario including orders, spills, investigations, waste generator registrations and certificates of approval, as well as general environmental concerns. A request was sent to the MECP on May, 13, 2022. A written response from the MECP typically requires several weeks. If upon receipt of the response from the MECP any significant environmental issues are identified, Terrapex will forward the response as an addendum to this report.

MECP Source Water Protection: Terrapex conducted a search of the information provided on the MECP on-line map of Source Water Protection Areas to determine whether the Phase One property is located in a well-head protection area or another area designated as an area for the protection of groundwater. The Site is located within an area under the jurisdiction of the Grand River Conservation Authority (GRCA) . The review indicates the Site is not within a well-head protection area..

Ontario Ministry of Northern Development, Mines, Natural Resources (MNDMRF): Terrapex conducted a search of the information provided on the Ministry of Northern Development, Mines, Natural Resources (MNDMRF) on-line map of Natural Heritage Areas to identify any environmentally sensitive areas or areas of natural significance within the Phase One Study Area.

Search results identified the following:

- Wetlands are identified adjacent to the north of the site;
- The northern portion of the Site and surrounding areas to the north and east are situated in an area of a natural heritage system.

Technical Standards & Safety Authority (TSSA): The TSSA was contacted regarding records of fuel storage tanks at the Site and neighbouring sites. Terrapex received a response from TSSA on May 13, 2022. No records were found for the Site and neighbouring properties.

Grand River Conservation Authority (GRCA): A search was conducted on the GRCA interactive mapping website to determine if the Site is within an area regulated by the GRCA. The results indicated the Site is within the GRCA Regulated Areas. The Site is located within the Fairchild Creek Watershed, which is the nearest water body. A tributary of Fairchild Creek is located adjacent to the north of the Site.

Municipal Records: Requests were sent to the City of Brantford for documented environmental concerns, sewer-use by-law infractions, spills, site remediation, former waste sites, potentially sensitive areas, complaints, orders or known contamination. A written response from the City of Brantford has yet to be received. If upon receipt of the response from the MECP any significant environmental issues are identified, Terrapex will forward the response as an addendum to this report.

Official Plan: Terrapex conducted a search of the information provided on the City of Brantford's August 2021 Official Plan to determine whether the Phase One property is located in a well-head protection area or another area designated as an area for the protection of groundwater. The review indicated the Site is not within a well-head protection area or within an area of groundwater protection.

4.2.3. CLIENT FILE INFORMATION

No other file information relating to the Site was available.

4.3 PHYSICAL SETTING SOURCES

4.3.1. AERIAL PHOTOGRAPHS

Aerial photographs were selected (based on availability, quality, and scale) for review to identify changes to topographic features, as well as development of the site and surrounding properties within the Phase One Study Area over the years. The earliest aerial photograph obtained for review was from the year 1945, from ERIS.

Terrapex reviewed aerial photographs as well as satellite images available for the years 1945 to 2019 from the following sources:

- National Air Photo Library,
- Google Earth; and,
- VuMap mapping applications.

An approximate 10-year intervening time frame between successive photographs/images was considered to be sufficient to permit a reasonable evaluation of the area development and apparent land use history.

The relevant features identified in the aerial photographs and satellite images are summarized in Table 4 below. It should be noted that identification of some specific features at the Site and surrounding areas was precluded by the scale and resolution of the aerial photographs. Copies of the aerial photographs and the satellite images are included in Appendix VI.

TABLE 4 SUMMARY OF AERIAL PHOTOGRAPHS AND SATELLITE IMAGES

YEAR	SOURCE	KEY FEATURES - SITE	KEY FEATURES - SURROUNDINGS	POSSIBLE PCA's/APECs
1945	ERIS	The majority of land appears to be agricultural. Four structures are visible on the southeast portion of the Site.	Surroundings properties to the east and west are agricultural. There are rural residential properties with agricultural land to the south and a railway runs adjacent to the southeast portion. A creek is visible to adjacent to the north.	46 - Rail Yards, Tracks and Spurs 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
1951	ERIS	Similar to 1945. Welton Road is visible.	Similar to 1945	46 - Rail Yards, Tracks and Spurs 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
1964	ERIS	Similar to 1951, however only three structures are visible from the	Similar to 1951	46 - Rail Yards, Tracks and Spurs 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
1975	ERIS	Similar to 1964, however there appears to be another structure south of the three structures identified in the 1964 photo.	Similar to 1964	46 - Rail Yards, Tracks and Spurs 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents)

				Manufacturing, Processing, Bulk Storage and Large-Scale Applications
1982	ERIS	Similar to 1975, however there appears to be another structure west of the structure identified in the 1975 photo	Residential development appears to be underway adjacent to the west of the site and the site adjacent to the south appears to no longer be agricultural.	46 - Rail Yards, Tracks and Spurs 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
2003	Google Earth	Similar to 1982, however only one structure is visible.	Residential development appears to be completed adjacent to the west of the site. There is also a park adjacent to the west of the Site. The property adjacent to the south appears to have soil piles, similar to current operation. Properties southwest of the site appear to be commercial.	46 - Rail Yards, Tracks and Spurs 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
2010	First Base Solutions (VuMap)	Similar to 2003.	Similar to 2003.	46 - Rail Yards, Tracks and Spurs 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
2019	Google Earth	Similar to 2010.	Similar to 2010.	46 - Rail Yards, Tracks and Spurs 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

¹As set out in Table 2 in Schedule D of O. Reg. 153/04.

4.3.2. TOPOGRAPHY, HYDROLOGY, GEOLOGY

The following maps, and/or databases were reviewed in order to document the topography, geology and hydrogeology of the Site and the Phase One study area:

- ANSI March 2012, Ontario Ministry of Natural Resources
- Ontario Geological Survey 2011, Bedrock Geology of Ontario
- Ontario Geological Survey 2010, Surficial Geology of Southern Ontario
- Ontario Base Mapping 2010, Ontario Ministry of Natural Resources
- Chapman, L.J. and Putnam, D.F. 2007. Physiography of Southern Ontario; Ontario Geological Survey
- Version 3 Detailed Soil Survey National Database (NSDB), Agriculture and Food Canada, 2014

A summary of reviewed information are presented in Table 5 below:

TABLE 5 – SUMMARY OF TOPOGRAPHY, HYDROLOGY AND GEOLOGY

SITE FEATURE	DESCRIPTION / DETAILS
REGIONAL TOPOGRAPHY	Site is uneven but generally slopes to the southeast
APPROX ELEVATION (masl)	220
PHYSIOGRAPHIC REGION	The Site and Phase One Study Area are located in the physiographic region known as the Norfolk Sand Plains, which consists of sand plains.
OVERBURDEN SOIL STRATIGRAPHY	Silt and clay, minor sand; locally overlain by veneer of sand and low permeability.
BEDROCK AND APPROXIMATE DEPTH	Upper Silurian to lower Devonian sandstone, shale, dolostone, and siltstone of the Guelph Formation and is anticipated to be more than 40 m below grade (bg)

Copies of reviewed information are provided in Appendix VII.

4.3.3. FILL MATERIALS

Fill materials are not suspected to be present at the Site.

4.3.4. WATER BODIES, AREAS OF NATURAL SIGNIFICANCE AND GROUNDWATER INFORMATION

Based on a review of information and records in the preceding sections, a summary of water bodies, areas of natural significance, if any, and groundwater information within the Phase One study area are summarized in Table 6 below:

TABLE 6 – SUMMARY OF WATER BODIES, AREAS OF NATURAL SIGNIFICANCE, GROUNDWATER INFORMATION

FEATURE	WITHIN PHASE ONE PROPERTY	WITHIN PHASE ONE STUDY AREA	DESCRIPTION/ DETAILS
WATER BODY	YES	YES	Ponds located in the central and southeast portion of the site. A stream also runs northwest to southeast through the central portion of the site. A tributary of Fairchild Creek also runs adjacent to the north of the site.
ANSI	NO	NO	N/A
WELL-HEAD PROTECTION AREA	NO	NO	N/A
MUNICIPAL DRINKING WATER SYSTEM	NO	NO	N/A
WELL FOR CONSUMPTION/ AGRICULTURAL USE	YES	NO	See Section 4.3.5 below

4.3.5. WELL RECORDS

Based on a review of information and records in the preceding sections, there is one well on Site and five wells within the Phase One Study Area. The location of the wells are indicated in the ERIS report (Appendix IV) and on Figure 3. A summary of relevant water well records with sufficient information on the hydrogeological and geological characteristics of the Phase One Study Area are summarized in Table 7 below:

TABLE 7 – SUMMARY OF SELECTED WATER WELL RECORDS

WELL ID/ TAG	YEAR	TYPE OF WELL	LOCATION	GENERAL STRATIGRAPHY	APPROXIMATE DEPTH TO WATER TABLE
7041625	2007	Test Well	Site	Topsoil to 0.3 m bg, silt and clay to 3 m bg, clay to 7.6 m bg; bedrock was not encountered	N/A
1300182	1947	Irrigation Well	East - 105 m	Clay from 0 to 3.7 m bg. Sandy clay to 10.7 m bg. Running sand to 37.8 m bg. Bedrock was encountered at 37.8 m bg.	2.4 m bg
1300183	1964	Water Well	Southeast - 145 m	Clay from 0 to 9.1 m bg. Silt to 14.6 m bg. Clay to 15.8 m bg. Silt and clay to 18.9 m bg. Bedrock was not encountered.	9.1 m bg
1304601	1993	Water Well	Southeast - 240 m	Topsoil from 0 to 0.3 m bg. Sandy clay to 4.6 m bg. Clay to 18.3 m bg. Bedrock was not encountered.	4.6 m bg
1300231	1966	Water Well	Southeast - 80 m	Topsoil from 0 to 0.3 m bg. Clay to 6.1 m bg. Clay and silt to 13.4 m bg. Bedrock was not encountered.	6.1 m bg
7347715	1958	Oil and Gas	Southeast - 136 m	160 m deep. Gas encountered but has not been proven to be productive. Drilled for the	N/A

WELL ID/ TAG	YEAR	TYPE OF WELL	LOCATION	GENERAL STRATIGRAPHY	APPROXIMATE DEPTH TO WATER TABLE
				purpose of discovering a pool of oil or gas. Abandoned.	

4.4 SITE OPERATING RECORDS

As the site was determined not to constitute an Enhanced Investigation Property as defined in O. Reg. 153/04, a review of site operating records was not required by the regulation.

5.0 INTERVIEWS

5.1 SITE REPRESENTATIVE

Welton & Innes G.P. Inc. representative with knowledge of the Site was interviewed by Terrapex. Relevant information obtained during the interview is summarized below.

Ms. Natalie Shurigina, Development Manager of Welton & Innes G.P. Inc.: Ms. Natalie Shurigina completed an interview questionnaire by email for this study on May 18, 2022, and provided the following information:

- Ms. Shurigina has been involved with the Site for since 2020.
- Land is leased to a farmer.
- As far as Ms. Shurigina was aware, the Site has always been agricultural.

The statements and information provided by Ms. Natalie Shurigina were consistent with information obtained from other sources as part of the Phase One ESA investigation. No additional information pertaining to the site could be provided.

6.0 SITE RECONNAISSANCE

6.1 GENERAL REQUIREMENTS

The reconnaissance of the Site and the Phase One Study Area was conducted by Mr. Siratha Chhan of Terrapex, as follows:

TABLE 8 SITE RECONNAISSANCE PARTICULARS

DATE, TIME and DURATION	WEATHER CONDITIONS	GUIDE	OCCUPANT/ USE OF FACILITY	ENHANCED INVESTIGATION PROPERTY ¹	NAMES and QUALIFICATIONS of PERSONS CONDUCTING INVESTIGATION
May 17, 2021 11:00 am to 1:30 pm	Sunny 20 °C	N/A	Agricultural	No	Mr. Siratha Chhan

¹ As per clause 32 (1) of O. Reg. 153/04.

Cursory observations of the surrounding properties within the Phase One Study Area made during the Site reconnaissance were limited to areas visible from the Site or from publicly accessible areas and vantage points. During the Site reconnaissance, Terrapex photographed the general Site layout, as well as any specific environmental concerns identified on the site or on surrounding properties within the Phase One Study Area.

Specific limitations encountered during the Site reconnaissance are provided in Section 3.3.

The site location plan is shown on Figure 1. The site layout is shown on Figure 2. Selected photographs including general descriptions are provided in Appendix VIII.

6.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

6.2.1. SITE DESCRIPTION AND STRUCTURES

The Site is located at the intersection of Welton Road and Lynden Road. The majority of the Site is used for agricultural purposes, with the exception of a steel structure in the southeast portion of the Site. The Site is bounded by residential properties to the west, a tributary of Fairchild Creek and forested land to the north and forested land to the east, CN railway to the southeast, Lynden Road, commercial and residential properties to the south. Welton Road road allowance runs north/south along the middle of the Site. There's a wetland/pond area in the west side of the Site and southeast portion of the site. A small stream also runs northwest to southeast through the middle of the Site.

The Site is currently owned by Welton & Innes G.P. Inc. and is used for agricultural purposes. Based on the historical review, the site has always been used for agricultural purposes.

Summary of observations from the Site reconnaissance presented in Table 9 below:

TABLE 9 SITE STRUCTURE OBSERVATIONS

SITE FEATURES	QUANTITY	AGE	DESCRIPTION	LOCATION
BUILDINGS	1	Unknown	Metal barn-like structure. Appears to be historically used as equipment repair shop.	southeast portion of site
OTHER STRUCTURES	0	N/A	-	-
BELOW GRADE STRUCTURES	0	N/A	-	-
POTABLE/ NON-POTABLE WATER SOURCES	N/A	N/A	-	-

No above ground storage tanks (ASTs) and/or underground storage tanks (USTs) were observed during the Site reconnaissance.

6.2.2. UNDERGROUND UTILITIES

Summary of utilities from inquiries and site observations presented in Table 10 below:

TABLE 10 UTILITY DETAILS

UTILITY	PRESENCE ON SITE	APPROXIMATE LOCATION
ELECTRICAL	Yes	Overhead utility lines to metal building from Lynden Road
GAS	No	N/A
SEWER	No	N/A
WATER	No	N/A

6.2.3. INTERIOR OF STRUCTURES

Details of structures observed are summarized in the table below.

TABLE 11 STRUCTURE DETAILS

ITEM	BUILDING 1
CONSTRUCTION DETAILS	Metal structure
EXIT/ENTRY POINTS	East and west entry points
HEATING SYSTEM	None
COOLING SYSTEM	None
DRAIN/PITS/SUMPS	None
UNIDENTIFIED SUBSTANCES	Unlabelled cans and drums
STAINS/CORROSION ON FLOORS	None

6.2.4. EXTERIOR OBSERVATIONS

Summary of observations of the exterior of the Site are presented in Table 12 below:

TABLE 12 SITE DETAILS

ITEM	DETAILS	APPROXIMATE LOCATION
SEWAGE WORKS	Unknown	N/A
OIL/GAS or WATER WELLS	None observed	N/A
GROUND SURFACE	Topsoil and grass cover	N/A
RAILWAY LINES/ SPURS	None observed	N/A
STAINED SOIL/ VEGETATION/ PAVEMENT	None observed	N/A
STRESSED VEGETATION	None observed	N/A
POTENTIAL PCA ¹	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Entire property
UNIDENTIFIED SUBSTANCES	Storage drum	North side of building

¹As set out in Table 2 in Schedule D of O. Reg. 153/04.

6.2.5. ENHANCED INVESTIGATION PROPERTY

The Site is not considered an Enhanced Investigation Property.

6.3 PHASE ONE STUDY AREA, OTHER THAN PHASE ONE PROPERTY

Observations from the site reconnaissance of the Phase One Study Area, are listed below.

FEATURE/DETAILS	DESCRIPTION	ADDRESS	PROXIMITY
WATER BODY	A tributary of Fairchild Creek runs adjacent to the northern portion.	N/A	Adjacent to the north
ANSI	NONE	-	-
MUNICIPAL DRINKING WATER SYSTEM	N/A	-	-
WELL FOR CONSUMPTION/ AGRICULTURAL USE	NONE OBSERVED	-	-
PCA ¹	Vacant lot that appears to be former garage. 52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	294 Lynden Road	55 m southwest of site
	Fill yard with 4 fuel ASTs and multiple soil piles	326 Lynden Road	Adjacent to the south

	28 - Gasoline and Associated Products Storage in Fixed Tanks		
	30 - Importation of Fill Material of Unknown Quality		

¹As set out in Table 2 in Schedule D of O. Reg. 153/04.

6.4 WRITTEN DESCRIPTION OF INVESTIGATION

The site reconnaissance was conducted to identify, describe, and document specific items at the Site and at surrounding properties within the Phase One Study Area, in accordance with Schedule D of O. Reg. 153/04. Written descriptions detailing the observations made by Terrapex personnel during the site reconnaissance are provided above in Sections 6.2 and 6.3, for the Site and the Phase One Study Area, respectively.

Discussions regarding the identification of PCAs on the Site and on surrounding properties with the Phase One Study Area are provided below in Section 7.2.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 CURRENT AND PAST USES

A summary of the current and past uses of the Phase One property is provided in Table 13, below.

7.2 POTENTIALLY CONTAMINATING ACTIVITY

A potentially contaminating activity as defined in O. Reg. 153/04 is a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in the Phase One property and/or Phase One study area. Details regarding the PCAs that may be contributing to an area of potential environmental concern are provided below in Tables 14.1 and 14.2.

Based on the review, evaluation, and interpretation of the information obtained from the records review, interviews, and site reconnaissance, two PCAs, as listed in Table 2 of Schedule D of O. Reg. 153/04, were identified at the Site. Overall, a total of ten PCAs were identified on the Phase One property and within the Phase One Study Area, of which nine, may be contributing to a total of nine areas of potential environmental concern (APECs) at the Site.

7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

An area of potential environmental concern, as defined in O. Reg. 153/04, is the area on, in, or under a Phase One property where one or more contaminants are potentially present, as determined through the Phase One environmental site assessment, including through, (a) identification of past or present uses on, in or under the Phase One property and (b) identification of potentially contaminating activity.

APECs are summarized in Table 15, and shown on Figure 5.

A discussion and description of how any uncertainty or absence of information obtained in each of the components of the Phase One environmental site assessment could affect the conclusion is provided in Section 7.4, Phase One conceptual model.

7.4 PHASE ONE CONCEPTUAL SITE MODEL

The Phase One ESA conceptual site model (CSM) developed based on the results of the Phase One site assessment is provided in Appendix IX and summarized in Figures 3, 4, and 5. The referenced figures show the Phase One property and Phase One study area including:

- any existing buildings and structures,
- water bodies located in whole or in part on the Phase One study area,
- any areas of natural significance located in whole or in part on the Phase One study area,
- any drinking water wells at the Phase One property,
- roads, including names, within the Phase One study area,
- uses of properties adjacent to the Phase One property,
- areas where any potentially contaminating activity has occurred, including tanks in such areas, and
- any areas of potential environmental concern.

8.0 CONCLUSIONS

8.1 WHETHER PHASE TWO ESA REQUIRED BEFORE RSC SUBMITTED

Based on the findings and results of the Phase One ESA, several APECs have been identified at the Site; therefore, a Phase Two ESA is required in order to file a RSC for the Phase One Property, in accordance with the requirements of O. Reg. 153/04.

8.2 RSC BASED ON PHASE ONE ESA ALONE

A RSC cannot be filed for the Phase One Property based solely on this Phase One ESA.

8.3 SIGNATURES

The environmental assessment described herein was conducted in accordance with the terms of reference for this project, as agreed upon by Welton & Innes Limited Partnership and Terrapex Environmental Ltd.

The Phase One Environmental Site Assessment of the property located at 299 Lynden Road, Brantford, Ontario which included the review, evaluation, and interpretation of the information obtained from the records review, interviews, and site reconnaissance has been conducted in accordance with Ontario Regulation 153/04 (Records of Site Condition – Part XV.1 of the Environmental Protection Act), made under the *Environmental Protection Act*, by or under the supervision of a Qualified Person. The qualifications of the assessors are included in Appendix X.

Terrapex has exercised due care, diligence, and judgement in the performance of this assessment; however, studies of this nature have inherent limitations. This report is intended to provide only a general assessment of the environmental conditions encountered at the site. By necessity, the findings and observations regarding actual or potential contamination of the property are based solely on the extent of observations and information gathered during the assessment, and subsequent investigations of differing scope may reveal conflicting results. Findings and observations may also change with the passage of time. Where applicable, observations of nearby properties were limited to areas visible from the site or from publicly accessible areas and vantage points.

Terrapex has relied in good faith on information and representations obtained from the Client and third parties and, except where specifically identified, has made no attempt to verify such information. Terrapex accepts no responsibility for any deficiency or inaccuracy in this report as a result of any misstatement, omission, misrepresentation, or fraudulent act of those providing information. Terrapex shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time of the study.

This report has been prepared for the sole use of Welton & Innes Limited Partnership, Terrapex Environmental Ltd. accepts no liability for claims arising from the use of this report, or from actions taken or decisions made as a result of this report, by parties other than Welton & Innes Limited Partnership.

Respectfully submitted,
TERRAPEX ENVIRONMENTAL LTD.

DRAFT

Siratha Chhan, Dipl., EP.
Project Manager

DRAFT

Jeff Stevenson, P.Geo, QP_{ESA}
Senior Project Manager

9.0 REFERENCES

Regulations and Guidelines

Ontario Regulation 153/04, *Records of Site Condition – Part XV.1 of the Environmental Protection Act*

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011

Property Use Information:

Parcel Register sales history information.

Vernon's Brantford & Paris, Ontario City Directory, various years, 1972 – 2012.

Site Plans:

Plan of Survey Illustrating Topography of Part of the South Half of Lot 42, Concession 2, Geographic Township of Brant, now in the City of Brantford, County of Brant

Plan of Survey Illustrating Topography of Part of the South Half of Lot 43, Concession 2, Geographic Township of Brant, now in the City of Brantford, County of Brant

Environmental Source Information:

Ontario Ministry of the Environment (MOE), Ministry of the Environment and Climate Change (MOECC) and Ministry of the Environment, Conservation and Parks (MECP) documents and databases:

- Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume II (April 1987), prepared for MOE by Intera Technologies Ltd. (Intera)
- Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume I (November 1988), prepared for MOE by Intera
- Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume II (November 1988), prepared for MOE by Intera
- Waste Disposal Site Inventory (June 1991)
- MOECC *Brownfields Environmental Site Registry* website

Federal government, provincial government, and private source database records available through ERIS Information Inc. (ERIS) for locations within 300 m of the Site.

Regulatory file information and documentation regarding environmental concerns related to the site, and/or information pertaining to water bodies and areas of natural significance within the Phase One Study Area, available from:

- Ontario Ministry of Natural Resources and Forestry (MNRF) Natural Heritage Area on-line mapping

- Technical Standards & Safety Authority (TSSA) Fuels Safety Division
- Grand River Conservation Authority
- City of Brantford

City of Brantford, Official Plan 2021: Schedule 3 Land Use Plan, Schedule 6 Natural Heritage Systems

Physical Setting Sources:

Aerial photographs for the years 1945, 1951, 1964, 1975, 1982 from ERIS, and for the years 2003, 2010, and 2019 available from the Google Earth website (<http://earth.google.com/>), and from Vumap website, provided by First Base Solutions: (<http://vumap.firstbasesolutions.com/index.php>).

Topographic Map: ESRI, 1:24,000 scale.

Ontario Base Map: MNR 1:22,000 scale Ontario Base Map (OBM), Ontario Ministry of Natural Resources, 2010.

The Physiography of Southern Ontario, Third Edition, Ontario Geological Survey Special Volume 2 (1984), Chapman and Putnam, map provided by ERIS.

Ontario Geological Survey map entitled *Surficial Geology of southern Ontario*, map provided by ERIS.

Ontario Geological Survey map entitled *Bedrock Geology of Ontario*, map provided by ERIS.

Ontario Ministry of Agriculture and Food, Ministry of Natural Resources, Soil Survey Complex (ON Soils), Soil Survey Complex (ON Soils), map provided by ERIS.

Well record information available from ERIS on the Water Well Information System databases and from the MOECC Environmental Monitoring and Reporting Branch Water Well Information System, on-line mapping application

Interviews:

Interview on May 18, 2022, with Ms. Natalie Shurigina, Development Manager of Sorbara, by e-mail.

TABLE 13 CURRENT AND PAST USES OF THE PHASE ONE PROPERTY

YEAR	NAME OF OWNER	DESCRIPTION OF PROPERTY USE	PROPERTY USE ¹	OTHER OBSERVATIONS FROM AERIAL PHOTOGRAPHS, FIRE INSURANCE PLANS, ETC.
Pre-1945 to prior to 2007	Unknown	Agricultural	Agriculture or other use	aerial photos
Prior to 2007	PIN 32269-0008 (LT) 2106842 Ontario Inc.	Agricultural	Agriculture or other use	aerial photos parcel register
	PIN 32269-0045 (LT) 2115997 Ontario Inc.	Agricultural	Agriculture or other use	aerial photos parcel register
2007 - present	Welton & Innes G.P. Inc.	Agricultural	Agriculture or other use	aerial photos site inspection

¹as defined in O.Reg. 153/04

TABLE 14.1 POTENTIALLY CONTAMINATING ACTIVITIES ON, IN OR UNDER THE PHASE ONE PROPERTY

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	DESCRIPTION	SOURCE/REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 1	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Current and historical use of the site for agricultural purposes.	Aerial photographs Site Inspection Interviews	Yes	Low
PCA 2	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	The structure was vacant/abandoned however unidentified drums and oil containers were observed inside the structure during the site inspection.	Site inspection	Yes	Moderate

¹ As shown on Figure 4.

² As set out in Table 2 in Schedule D of O. Reg. 153/04.

³ Area of potential environmental concern (APEC)

TABLE 14.2 POTENTIALLY CONTAMINATING ACTIVITIES WITHIN THE PHASE ONE STUDY AREA

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	ADDRESS/LOCATION	DESCRIPTION	SOURCE/REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 3	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Adjacent properties to west	Former use of these lands for agricultural purposes.	Aerial photographs	Yes	Moderate

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	ADDRESS/ LOCATION	DESCRIPTION	SOURCE/ REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 4	46 - Rail Yards, Tracks and Spurs	Adjacent to the southeast	CN railway visible since 1945.	Aerial photograph Site inspection	Yes	Moderate
PCA 5	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	347 Lynden Road / 50 m southeast	Current and historical use of the site for agricultural purposes.	Aerial photograph Site inspection	Yes	Moderate
PCA 6A	30 - Importation of Fill Material of Unknown Quality	347 Lynden Road / 45 m southeast	Soil fill piles visible in construction yard.	Site inspection	Yes	Moderate
PCA 6B	30 - Importation of Fill Material of Unknown Quality	No municipal address / 45 m south	Soil fill piles visible which appears to be associated with 347 Lynden Road construction yard.	Site inspection	Yes	Moderate
PCA 7	28 - Gasoline and Associated Products Storage in Fixed Tanks	347 Lynden Road / 50 m southeast	Four ASTs observed on construction yard.	Site inspection	Yes	Moderate

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	ADDRESS/ LOCATION	DESCRIPTION	SOURCE/ REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 8	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	294 Lynden Road / 45 m southwest	Historical use of the site as a commercial autobody shop.	Site inspection ERIS	Yes	Moderate
PCA 9	55 - Transformer Manufacturing, Processing and Use	Adjacent to the south	A pole-mounted transformer is present adjacent to 347 Lynden Road.	Site inspection	No – no staining observed	Low

¹ As shown on Figure 4.

² As set out in Table 2 in Schedule D of O. Reg. 153/04.

³ Area of potential environmental concern (APEC)

TABLE 15 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

APEC¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 1	Entire property	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site (PCA 1)	OCPs	Soil Groundwater
APEC 2	Southeastern portion of property	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	On-Site (PCA 2)	BTEX PHCs VOCs PAHs Metals	Soil Groundwater
APEC 3	Along western property boundary	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-Site (PCA 3)	OCPs	Groundwater
APEC 4	Along southeastern property line	46 - Rail Yards, Tracks and Spurs	Off-Site (PCA 4)	Metals SVOCs	Groundwater
APEC 5	Along southeastern property line	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-Site (PCA 5)	OCPs	Groundwater

APEC¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 6A	Along southern property line	30 - Importation of Fill Material of Unknown Quality	Off-Site (PCA 6A)	BTEX PHCs VOCs PAHs Metals Metals, Hydride-Forming Calcium and Magnesium Other Regulated Parameters (ORPs) Sodium	Groundwater
APEC 6B	Along southern property line	30 - Importation of Fill Material of Unknown Quality	Off-Site (PCA 6B)	BTEX PHCs VOCs PAHs Metals Metals, Hydride-Forming Calcium and Magnesium Other Regulated Parameters (ORPs) Sodium	Groundwater
APEC 7	Along southeastern property line	28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site (PCA 7)	BTEX PHCs	Groundwater

APEC ¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY ²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN ³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 8	Along southwestern property line	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-Site (PCA 8)	BTEX PHCs VOCs PAHs Metals	Groundwater

¹ Areas of potential environmental concern (APEC) means the area on, in or under a Phase One property where one or more contaminants are potentially present, as determined through the Phase One environmental site assessment, including through,
(a) identification of past or present uses on, in or under the Phase One property, and
(b) identification of potentially contaminating activity.

² As set out in Column A of Table 2 of Schedule D.

³ Contaminants of potential concern (COPC) according to the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", March 9, 2004, amended as of July 1, 2011:

BTEX: benzene, toluene, ethylbenzene, xylenes
PHCs: petroleum hydrocarbons (F1-F4)
VOCs: volatile organic compounds
PAHs: polycyclic aromatic hydrocarbons

Hg: mercury
B (hws): boron, hot water soluble
Cr (VI): chromium (hexavalent)
CN-: cyanide

As: arsenic
Sb: antimony
Se: selenium
Na: sodium

Cl: chloride
EC: electrical conductivity
SAR: sodium adsorption ratio
PCBs: polychlorinated biphenyls

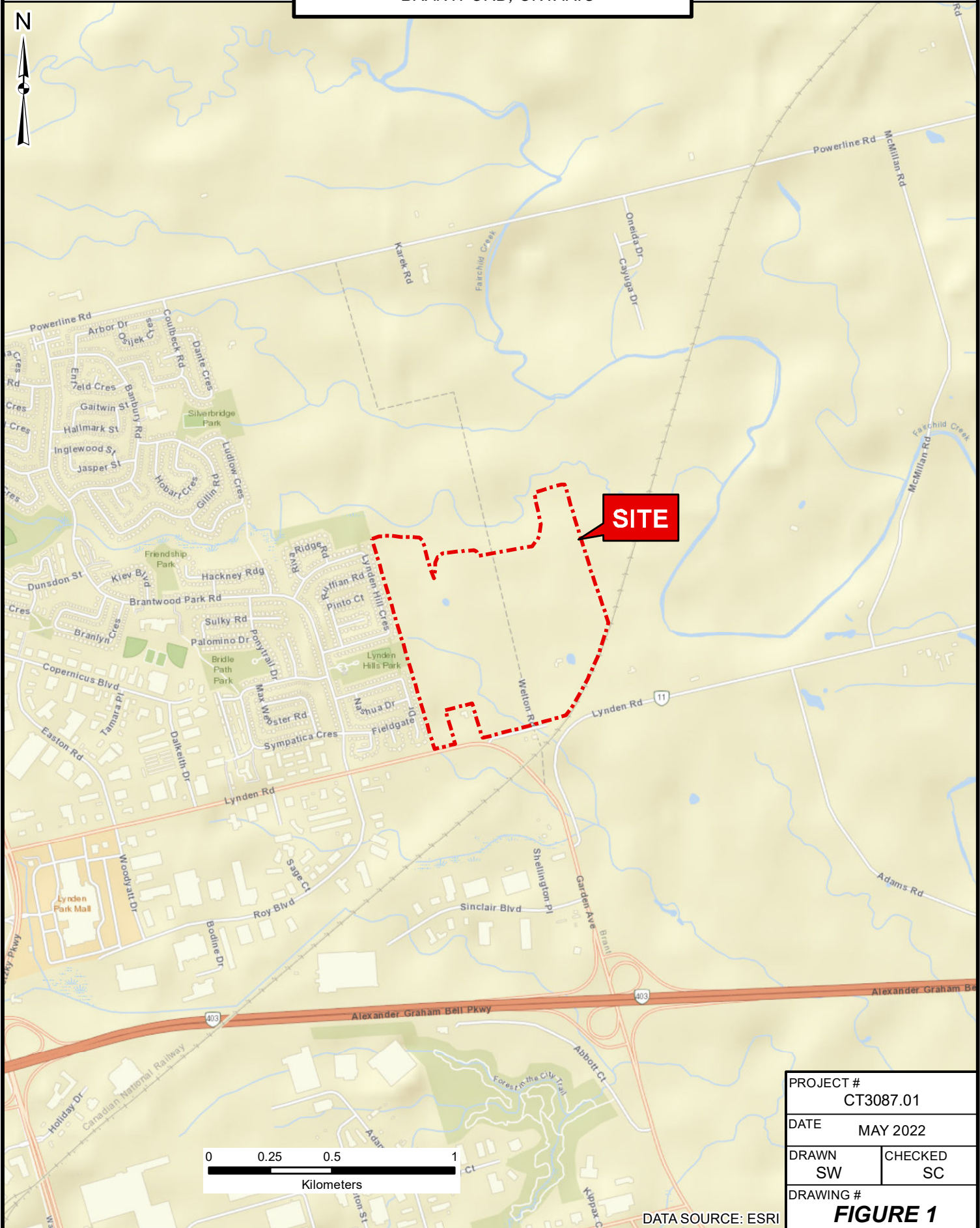
FIGURES

SITE LOCATION

299 LYNDEN ROAD
BRANTFORD, ONTARIO

CLIENT

WELTON & INNES
LIMITED PARTNERSHIP





GENERAL SITE LAYOUT

299 LYNDEN ROAD
BRANTFORD, ONTARIO

CLIENT

WELTON & INNES LIMITED PARTNERSHIP



LEGEND

- APPROXIMATE SITE BOUNDARY
- WELTON ROAD ROAD ALLOWANCE

PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE 2	

DATA SOURCE: ESRI



CONCEPTUAL SITE MODEL - PHASE ONE STUDY AREA

299 LYNDEN ROAD
BRANTFORD, ONTARIO

CLIENT

WELTON & INNES LIMITED PARTNERSHIP



PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE 3	

DATA SOURCE: ESRI

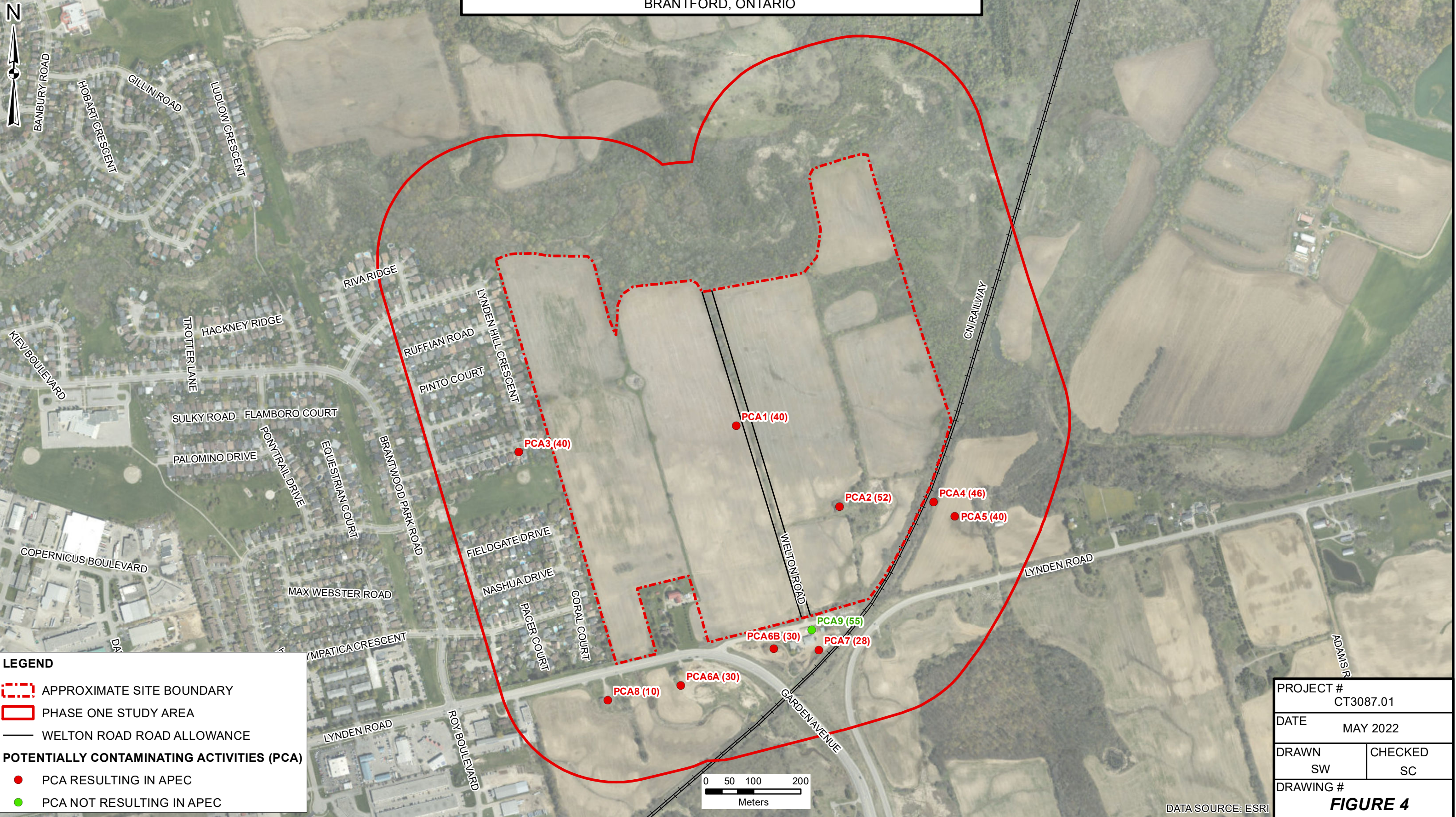


CONCEPTUAL SITE MODEL POTENTIALLY CONTAMINATING ACTIVITIES

299 LYNDEN ROAD
BRANTFORD, ONTARIO

CLIENT

WELTON & INNES LIMITED PARTNERSHIP



LEGEND

APPROXIMATE SITE BOUNDARY

PHASE ONE STUDY AREA

WELTON ROAD ROAD ALLOWANCE

POTENTIALLY CONTAMINATING ACTIVITIES (PCA)

PCA RESULTING IN APEC

PCA NOT RESULTING IN APEC

PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE 4	

DATA SOURCE: ESRI

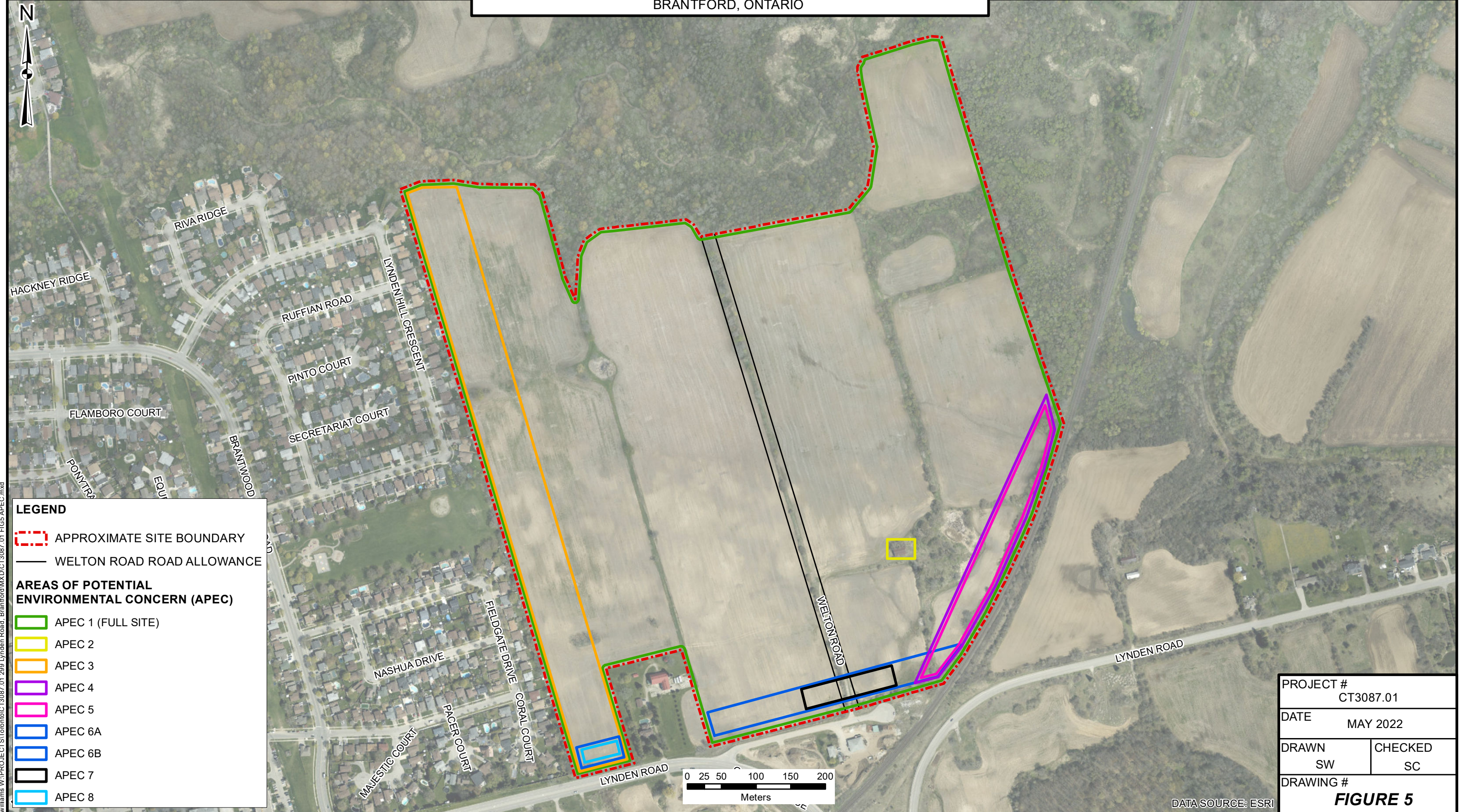


CONCEPTUAL SITE MODEL AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

299 LYNDEN ROAD
BRANTFORD, ONTARIO

CLIENT

WELTON & INNES LIMITED PARTNERSHIP



LEGEND

- APPROXIMATE SITE BOUNDARY
- WELTON ROAD ROAD ALLOWANCE

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

- APEC 1 (FULL SITE)
- APEC 2
- APEC 3
- APEC 4
- APEC 5
- APEC 6A
- APEC 6B
- APEC 7
- APEC 8

PROJECT # CT3087.01	
DATE MAY 2022	
DRAWN SW	CHECKED SC
DRAWING # FIGURE 5	

DATA SOURCE: ESRI

APPENDIX I
PLAN OF SURVEY

LOT

4 2

LOT

4 3

PART 2, PLAN 2R-7992

2

PIN 32269 - 0009 (LT)

PLAN OF SURVEY ILLUSTRATING TOPOGRAPHY OF
PART OF THE SOUTH HALF
OF LOT 43
CONCESSION 2
GEOGRAPHIC TOWNSHIP OF BRANT
NOW IN THE
CITY OF BRANTFORD
COUNTY OF BRANT

SCALE 1 : 1000
0 10 20 30 40 50 metres

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

NOTES

BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A AND B, BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99992.
FOR BEARING COMPARISONS, A ROTATION OF XXX'XXX" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON PLAN X0R-XXXXX.

INTEGRATION DATA			
OBSERVED REFERENCE POINTS (ORPs): XTM ZONE XX, NAD83 (CSRS) (2010.0) COORDINATES TO URBAN ACCURACY PER SECTION 14 (2) OF OREG 216/10.			
POINT ID	EASTING	NORTHING	
ORP (A)	XXX XXX.XX	4 XXX XXXX.XX	
ORP (B)	XXX XXX.XX	4 XXX XXXX.XX	
ORP (C)	XXX XXX.XX	4 XXX XXXX.XX	
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.			

ELEVATION NOTE

ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE MNR BENCH MARK NO. 17B0061.
ELEVATION=208.33

PRIMARY CONTOURS ARE AT 1.00m INTERVALS.
SECONDARY CONTOURS ARE AT 0.25m INTERVALS.

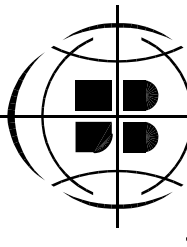
LEGEND

■ DENOTES SURVEY MONUMENT FOUND
□ DENOTES SURVEY MONUMENT SET
□ DENOTES STANDARD IRON BAR
SMB DENOTES SHORT STANDARD IRON BAR
RIB DENOTES RIB BAR
PB DENOTES PLASTIC BAR
WIT DENOTES WITNESS
P1 DENOTES PLAN 26-6913
P2 DENOTES PLAN 26-7702
P3 DENOTES INSTRUMENT A54382
P4 DENOTES PLAN 26-6940
□ CB DENOTES DOUBLE CATCHBASIN
□ CB DENOTES SINGLE CATCHBASIN
○ GM DENOTES GAS MARKER
○ MH DENOTES MANHOLE
○ HP DENOTES HYDRO POLE
○ LS DENOTES LIGHT STANDARD
— E— DENOTES OVERHEAD HYDRO CABLE
* DENOTES CONIFEROUS TREE
DIA=DIAMETER OF TRUNK IN METRES
* DENOTES DECIDUOUS TREE
DIA=DIAMETER OF TRUNK IN METRES

SURVEYOR'S CERTIFICATE

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON 201 .

DATE _____ ONTARIO LAND SURVEYOR



MacDONALD TAMBLYN LORD SURVEYING
A Division of J.D. Barnes Limited
50 FLEMING DRIVE, UNIT 2, CAMBRIDGE, ONT N1T 2S1
T: (519) 621-9600 F: (519) 621-4480 www.jdbarnes.com

DRAWN BY: VT
CHECKED BY: JE
REFERENCE NO: 19-40-619-00-L07A3
FILE: G:\19-40-619\001\2-cambridge\19-40-619-00 - L07A3.dwg
PLOTTED: 6/10/2019

PLAN OF SURVEY ILLUSTRATING TOPOGRAPHY OF
PART OF THE SOUTH HALF
OF LOT 42
CONCESSION 2
GEOGRAPHIC TOWNSHIP OF BRANT
NOW IN THE
CITY OF BRANTFORD
COUNTY OF BRANT

SCALE 1 : 1000

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

NOTES

BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A AND B, BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).
DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99962.
FOR BEARING COMPARISONS, A ROTATION OF 3°12'20" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON PLAN 2R-6940.

INTEGRATION DATA

OBSERVED REFERENCE POINTS (ORP): XTM ZONE XX, NAD83 (CSRS) (2010.0).
COORDINATES TO URBAN ACCURACY PER SECTION 14 (2) OF SRES 216/10.
POINT ID EASTING NORTHING
ORP (A) XXX XXX.XX 4 XXX XXX.XX
ORP (B) XXX XXX.XX 4 XXX XXX.XX
ORP (C) XXX XXX.XX 4 XXX XXX.XX
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

ELEVATION NOTE

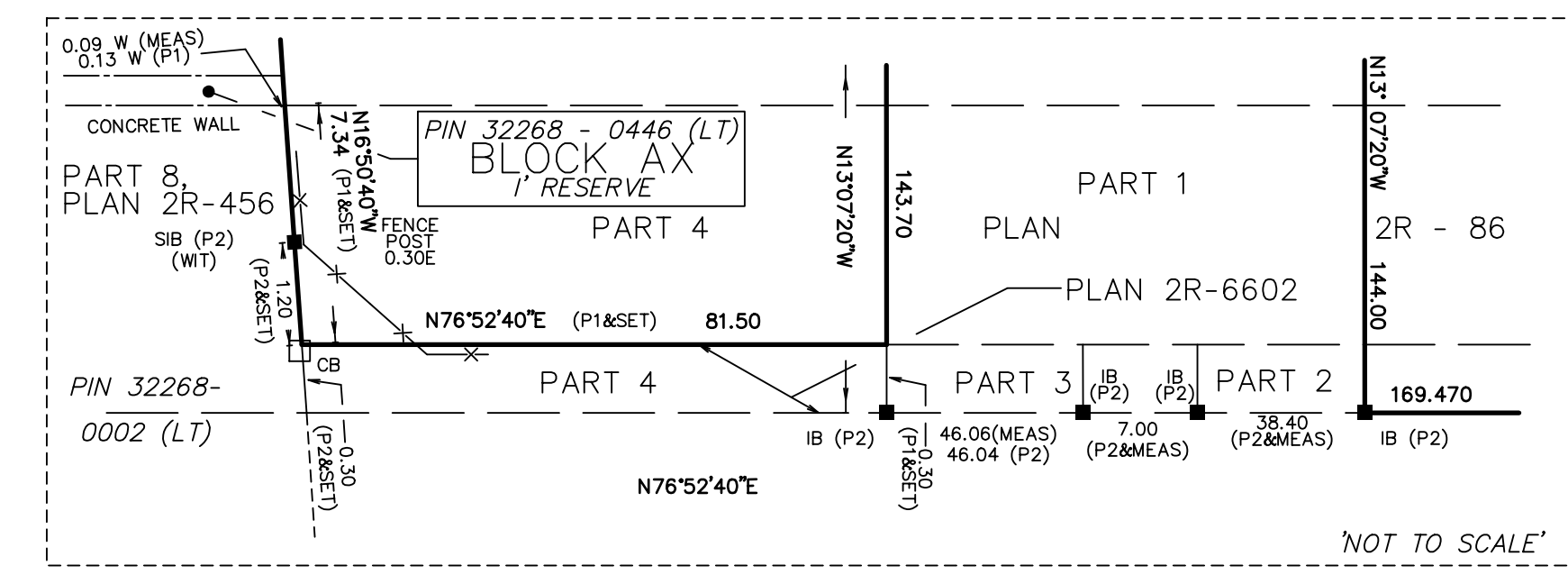
ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE MNR BENCH MARK No. 115670501.
ELEVATION=208.33

PRIMARY CONTOURS ARE AT 1.00m INTERVALS.
SECONDARY CONTOURS ARE AT 0.25m INTERVALS.

LEGEND

■ DENOTES SURVEY MONUMENT FOUND
□ DENOTES SURVEY MONUMENT SET
SB DENOTES STANDARD IRON BAR
SSB DENOTES SHORT STANDARD IRON BAR
B DENOTES IRON BAR
PB DENOTES PLASTIC BAR
WT DENOTES WITNESS
P1 DENOTES PLAN 2R-6940
P2 DENOTES PLAN 2R-6602
P3 DENOTES REGISTERED PLAN 1470
P4 DENOTES C/A PLAN 159
PB DENOTES PLAN 2R-657
PB DENOTES PLAN 2R-66
CB DENOTES DOUBLE CATCHBASIN
DM DENOTES SINGLE CATCHBASIN
MH DENOTES MANHOLE
HP DENOTES HYDRO POLE
LS DENOTES LIGHT STANDARD
E DENOTES OVERHEAD HYDRO CABLE
T DENOTES CONIFEROUS TREE
DIA=DIAMETER OF TRUNK IN METRES
D DENOTES DECIDUOUS TREE
DIA=DIAMETER OF TRUNK IN METRES

ALL SET SSB AND PB MONUMENTS WERE USED DUE TO LACK OF OVERBURDEN AND/OR PROXIMITY OF UNDERGROUND UTILITIES IN ACCORDANCE WITH SECTION 11 (4) OF OREG 220/91.



BEFORE DIGGING, UNDERGROUND SERVICES SHOULD BE LOCATED ON SITE BY THE RESPECTIVE AGENCIES.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON 201 .

DATE _____
ONTARIO LAND SURVEYOR

MacDONALD TAMBLYN
LORD SURVEYING
A Division of J.D. Barnes Limited
50 FLEMING DRIVE, UNIT 2, CAMBRIDGE, ON N1T 2H1
T: (519) 621-9600 F: (519) 621-6480 www.jdbarnes.com

DRAWN BY: VT CHECKED BY: JE REFERENCE NO.: 19-40-619-00-42
FILE: C:\19-40-619-00\Drawings\19-40-619-00-Lot 42.dwg DATE: 09/02/19 PLOTTED: 6/10/2019



LYNDEN ROAD
ROAD ALLOWANCE BETWEEN CONCESSIONS 2 AND 3
PIN 32269 - 0001 (LT)

APPENDIX II
PARCEL REGISTERS

PROPERTY DESCRIPTION: PT LT 43 CON 2 BRANTFORD, DESIGNATED AS PART 1 ON 2R-6728; COUNTY OF BRANT

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

FIRST CONVERSION FROM BOOK

PIN CREATION DATE:

2002/03/11

OWNERS' NAMES

WELTON & INNES G.P. INC.

CAPACITY

SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
**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: 2002/03/11 **						
NOTE: THIS PROPERTY WAS RETIRED ON 2007/10/26. THIS PROPERTY IS NOW RE-ENTERED INTO THE FOLLOWING PROPERTY: 32269-0046						
2R6728	2006/08/08	PLAN REFERENCE				C
BC102408	2007/01/08	TRANSFER	\$6,862,500	2106842 ONTARIO INC.	WELTON & INNES G.P. INC.	C
REMARKS: PLANNING ACT STATEMENT						
BC103190	2007/01/15	CHARGE	\$50,000,000	WELTON & INNES G.P. INC.	ANTICA INVESTMENTS LIMITED	C
BC117495	2007/07/12	NO APL ABSOLUTE		WELTON & INNES G.P. INC.		C
2R6913	2007/10/26	PLAN REFERENCE				C
BC125766	2007/10/26	APL ABSOLUTE TITLE		WELTON & INNES G.P. INC.	WELTON & INNES G.P. INC.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

PROPERTY DESCRIPTION: PT LT 42, CON 2, GEOGRAPHIC TWP OF BRANTFORD, DESIGNATED AS PART 1 ON 2R-6745; COUNTY OF BRANT

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

DIVISION FROM 32269-0043

PIN CREATION DATE:

2006/03/10

OWNERS' NAMES

WELTON & INNES G.P. INC.

CAPACITY

SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
**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: 2002/03/11 **						
NOTE: THIS PROPERTY WAS RETIRED ON 2007/12/21. THIS PROPERTY IS NOW RE-ENTERED INTO THE FOLLOWING PROPERTY: 32269-0047						
2R86	1971/12/13	PLAN REFERENCE				C
2R6602	2005/11/29	PLAN REFERENCE				C
2R6745	2006/09/08	PLAN REFERENCE				C
BC102407	2007/01/08	TRANSFER	\$6,862,500	2115997 ONTARIO INC.	WELTON & INNES G.P. INC.	C
REMARKS: PLANNING ACT STATEMENT						
BC103190	2007/01/15	CHARGE	\$50,000,000	WELTON & INNES G.P. INC.	ANTICA INVESTMENTS LIMITED	C
BC122976	2007/09/21	NO APL ABSOLUTE		WELTON & INNES G.P. INC.		C
2R6940	2007/12/21	PLAN REFERENCE				C
BC130382	2007/12/21	APL ABSOLUTE TITLE		WELTON & INNES G.P. INC.	WELTON & INNES G.P. INC.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

APPENDIX III
DIRECTORY SEARCH

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



CITY
DIRECTORY

Project Property: *299 Lynden Road, Brantford, Ontario*
Report Type: *City Directory*
Order No: *22041800237*
Information Source: *Vernon's Brantford & Paris, Ontario City Directory*
Date Completed: *19/04/2022*

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City Directory Information Source	
Vernon's Brantford & Paris, Ontario City Directory	

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 2012	
Site Listing:	-No Return
Adjacent Properties:	
253 Lynden Road	-Address Not Listed
260 Lynden Road	-Brantford Medical Imaging -Investors Group Financial Services -Lynden Hill Dentistry
266 Lynden Road	-Address Not Listed
274 Lynden Road	-Accelerated Connections -RBC Dominion Securities Inc. -Medical Office
294 Lynden Road	-No Return

308 Lynden Road	-No Return
324 Lynden Road	-Address Not Listed
326 Lynden Road	-Alpine Construction -Res (1 Tenant)
347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Elite Stainless Exhaust -Racer's Choice -Transmissions & Gears -U-Haul Co Ltd.

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 2007-08	
Site Listing:	-Res (1 Tenant; Welton, M)
Adjacent Properties:	

253 Lynden Road	-Address Not Listed
260 Lynden Road	-Address Not Listed
266 Lynden Road	-Carol's Kitchen's Dance Centre
274 Lynden Road	-Accelerated Connections -RBC Dominion Securities Inc. -Medical Office
294 Lynden Road	-Res (1 Tenant)
308 Lynden Road	-No Return
324 Lynden Road	-Address Not Listed
326 Lynden Road	-Res (2 Tenants)
347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Elite Stainless Exhaust -Racer's Choice -Transmissions & Gears

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 2002-03	
Site Listing:	-Res (1 Tenant; Welton, M)
Adjacent Properties:	
253 Lynden Road	-Address Not Listed
260 Lynden Road	-Address Not Listed
266 Lynden Road	-No Return
274 Lynden Road	-Medical Office
294 Lynden Road	-Res (2 Tenants)
308 Lynden Road	-No Return
324 Lynden Road	-Address Not Listed
326 Lynden Road	-Res (2 Tenants)

347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Elite Stainless Exhaust -Transmissions & Gears

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 1997-98	
Site Listing:	-Res (1 Tenant; Welton, M)
Adjacent Properties:	
253 Lynden Road	-Address Not Listed
260 Lynden Road	-Address Not Listed
266 Lynden Road	-No Return
274 Lynden Road	-Address Not Listed
294 Lynden Road	-Res (2 Tenants)

308 Lynden Road	-Res (1 Tenant)
324 Lynden Road	-Address Not Listed
326 Lynden Road	-Res (2 Tenants)
347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Address Not Listed

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 1992	
Site Listing:	-Address Not Listed
Adjacent Properties:	
253 Lynden Road	-Address Not Listed
260 Lynden Road	-Address Not Listed
266 Lynden Road	-No Return

274 Lynden Road	-Address Not Listed
294 Lynden Road	-Address Not Listed
308 Lynden Road	-Address Not Listed
324 Lynden Road	-Address Not Listed
326 Lynden Road	-Address Not Listed
347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Address Not Listed

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 1987	
Site Listing:	-Address Not Listed
Adjacent Properties:	

253 Lynden Road	-Address Not Listed
260 Lynden Road	-Address Not Listed
266 Lynden Road	-Res (1 Tenant)
274 Lynden Road	-Address Not Listed
294 Lynden Road	-Address Not Listed
308 Lynden Road	-Address Not Listed
324 Lynden Road	-Address Not Listed
326 Lynden Road	-Address Not Listed
347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Address Not Listed

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 1982	

Site Listing:	-Address Not Listed
Adjacent Properties:	
253 Lynden Road	-Address Not Listed
260 Lynden Road	-Address Not Listed
266 Lynden Road	-Res (2 Tenants)
274 Lynden Road	-Address Not Listed
294 Lynden Road	-Address Not Listed
308 Lynden Road	-Address Not Listed
324 Lynden Road	-Address Not Listed
326 Lynden Road	-Address Not Listed
347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Address Not Listed

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 1977	
Site Listing:	-Address Not Listed
Adjacent Properties:	
253 Lynden Road	-Address Not Listed
260 Lynden Road	-Address Not Listed
266 Lynden Road	-Address Not Listed
274 Lynden Road	-Address Not Listed
294 Lynden Road	-Address Not Listed
308 Lynden Road	-Address Not Listed
324 Lynden Road	-Address Not Listed
326 Lynden Road	-Address Not Listed

347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Address Not Listed

PROJECT NUMBER: 22041800237	
Site Address:	299 Lynden Road, Brantford, Ontario
Year: 1972	
Site Listing:	-Address Not Listed
Adjacent Properties:	
253 Lynden Road	-Address Not Listed
260 Lynden Road	-Address Not Listed
266 Lynden Road	-Address Not Listed
274 Lynden Road	-Address Not Listed
294 Lynden Road	-Address Not Listed
308 Lynden Road	-Address Not Listed

324 Lynden Road	-Address Not Listed
326 Lynden Road	-Address Not Listed
347 Lynden Road	-Address Not Listed
11 Roy Boulevard	-Address Not Listed

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

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

APPENDIX IV
ERIS REPORT



DATABASE REPORT

Project Property:	<i>CT3087.00 299 Lynden Road Brantford ON N3T 5L8</i>
Project No:	<i>CT3087.00</i>
Report Type:	<i>RSC Report - Quote</i>
Order No:	<i>22041800237</i>
Requested by:	<i>Terrapex Environmental Ltd.</i>
Date Completed:	<i>April 21, 2022</i>

Environmental Risk Information Services

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Executive Summary

Property Information:

Project Property: CT3087.00
299 Lynden Road Brantford ON N3T 5L8

Project No: CT3087.00

Order Information:

Order No: 22041800237
Date Requested: April 18, 2022
Requested by: Terrapex Environmental Ltd.
Report Type: RSC Report - Quote

Historical/Products:

Aerial Photographs Aerials - National Collection
City Directory Search CD - Subject Site plus 10 Adjacent Properties
ERIS Xplorer [ERIS Xplorer](#)
Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans
Topographic Map RSC Maps

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	4	4
CA	Certificates of Approval	Y	0	3	3
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	3	3
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	4	4
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	1	1
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	1	1
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	1	1
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	7	8
Total:			1	26	27

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		299 LYNDEN RD con 2 BRANTFORD ON Well ID: 7041625	SE/0.0	0.00	17

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<u>2</u>	BORE		ON	SE/12.1	1.95	<u>20</u>
<u>3</u>	BORE		ON	SE/16.0	1.95	<u>20</u>
<u>4</u>	BORE		ON	SE/26.3	1.71	<u>21</u>
<u>5</u>	CA	Garden Avenue Realignment	Garden Avenue and Lynden Road Brantford ON	S/29.0	-2.31	<u>22</u>
<u>5</u>	CA	Garden Avenue Realignment	Garden Avenue and Lynden Road Brantford ON	S/29.0	-2.31	<u>23</u>
<u>5</u>	ECA	The Corporation of the City of Brantford	Lynden Rd and Garden Ave Brantford ON N3T 2M3	S/29.0	-2.31	<u>23</u>
<u>6</u>	BORE		ON	SE/38.8	2.00	<u>23</u>
<u>7</u>	GEN	1003873 Canada Corp.	294 Lynden Road Brantford ON N3R 8A7	SSW/54.5	-1.95	<u>24</u>
<u>8</u>	WWIS		lot 43 con 3 ON Well ID: 1300231	SE/80.0	1.87	<u>25</u>
<u>9</u>	SPL		55 Ruffian Avenue Brantford ON N3P 1R6	WNW/91.2	1.01	<u>28</u>
<u>9</u>	INC		55 Ruffian Road, Brantford ON	WNW/91.2	1.01	<u>28</u>
<u>10</u>	WWIS		lot 44 con 2 ON	E/105.1	-6.47	<u>29</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1300182			
11	OOGW	J.A. Ross No. 1	Brantford ON Licence No: F011641	ESE/136.1	1.23	32
12	WWIS		lot 43 con 2 ON Well ID: 1300183	ESE/146.2	2.00	34
13	ECA	The Corporation of the City of Brantford	Lynden Rd and Garden Ave Brantford ON N3T 2M3	NW/154.3	-2.41	37
14	CA	T & J Girard Trading Company	1 Majestic Court Brantford ON N3P 1N2	WSW/206.8	1.00	38
14	ECA	T & J Girard Trading Company	1 Majestic Court Brantford ON N3P 1N2	WSW/206.8	1.00	38
15	PINC		9 Majestic Court, Brantford ON N3P 1N2	SW/233.9	1.20	38
16	WWIS		lot 44 con 2 ON Well ID: 1304601	ESE/240.7	1.92	39
17	WWIS		N/A GARDEN AVE lot 43 con 3 BRANTFORD ON Well ID: 7347715	SE/259.8	-4.52	42
17	WWIS		N/A GARDEN AVE lot 43 con 3 BRANTFORD ON Well ID: 7347716	SE/259.8	-4.52	45
18	SCT	Elite Stainless Exhaust	11 Roy Blvd Brantford ON N3R 7K1	SW/266.2	-0.81	49
18	GEN	Brant Auto Detailing	11 Roy Boulevard Brantford ON N3R 7K1	SW/266.2	-0.81	49
18	GEN	Brant Auto Detailing	11 Roy Boulevard Brantford ON N3R 7K1	SW/266.2	-0.81	49
18	GEN	Brant Auto Detailing	11 Roy Boulevard Brantford ON N3R 7K1	SW/266.2	-0.81	50

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
19	WWIS		lot 41 con 2 ON <i>Well ID:</i> 1301251	SW/278.3	2.04	50

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 4 BORE site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	12.1	<u>2</u>
	ON	16.0	<u>3</u>
	ON	26.3	<u>4</u>
	ON	38.8	<u>6</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 3 CA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Garden Avenue Realignment	Garden Avenue and Lynden Road Brantford ON	29.0	<u>5</u>
Garden Avenue Realignment	Garden Avenue and Lynden Road Brantford ON	29.0	<u>5</u>
T & J Girard Trading Company	1 Majestic Court Brantford ON N3P 1N2	206.8	<u>14</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Feb 28, 2022 has found that there are 3 ECA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
The Corporation of the City of Brantford	Lynden Rd and Garden Ave Brantford ON N3T 2M3	29.0	<u>5</u>
The Corporation of the City of Brantford	Lynden Rd and Garden Ave Brantford ON N3T 2M3	154.3	<u>13</u>
T & J Girard Trading Company	1 Majestic Court Brantford ON N3P 1N2	206.8	<u>14</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Nov 30, 2021 has found that there are 4 GEN site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
1003873 Canada Corp.	294 Lynden Road Brantford ON N3R 8A7	54.5	<u>7</u>
Brant Auto Detailing	11 Roy Boulevard Brantford ON N3R 7K1	266.2	<u>18</u>
Brant Auto Detailing	11 Roy Boulevard Brantford ON N3R 7K1	266.2	<u>18</u>
Brant Auto Detailing	11 Roy Boulevard Brantford ON N3R 7K1	266.2	<u>18</u>

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated Feb 28, 2022 has found that there are 1 INC site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	55 Ruffian Road, Brantford ON	91.2	<u>9</u>

OOGW - Ontario Oil and Gas Wells

A search of the OOGW database, dated 1800-Jan 2021 has found that there are 1 OOGW site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
J.A. Ross No. 1	Brantford ON <i>Licence No:</i> F011641	136.1	<u>11</u>

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 1 PINC site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	9 Majestic Court, Brantford ON N3P 1N2	233.9	<u>15</u>

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 1 SCT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Elite Stainless Exhaust	11 Roy Blvd Brantford ON N3R 7K1	266.2	<u>18</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020; Dec 2020-Mar 2021 has found that there are 1 SPL site(s) within approximately 0.30 kilometers of the project property.

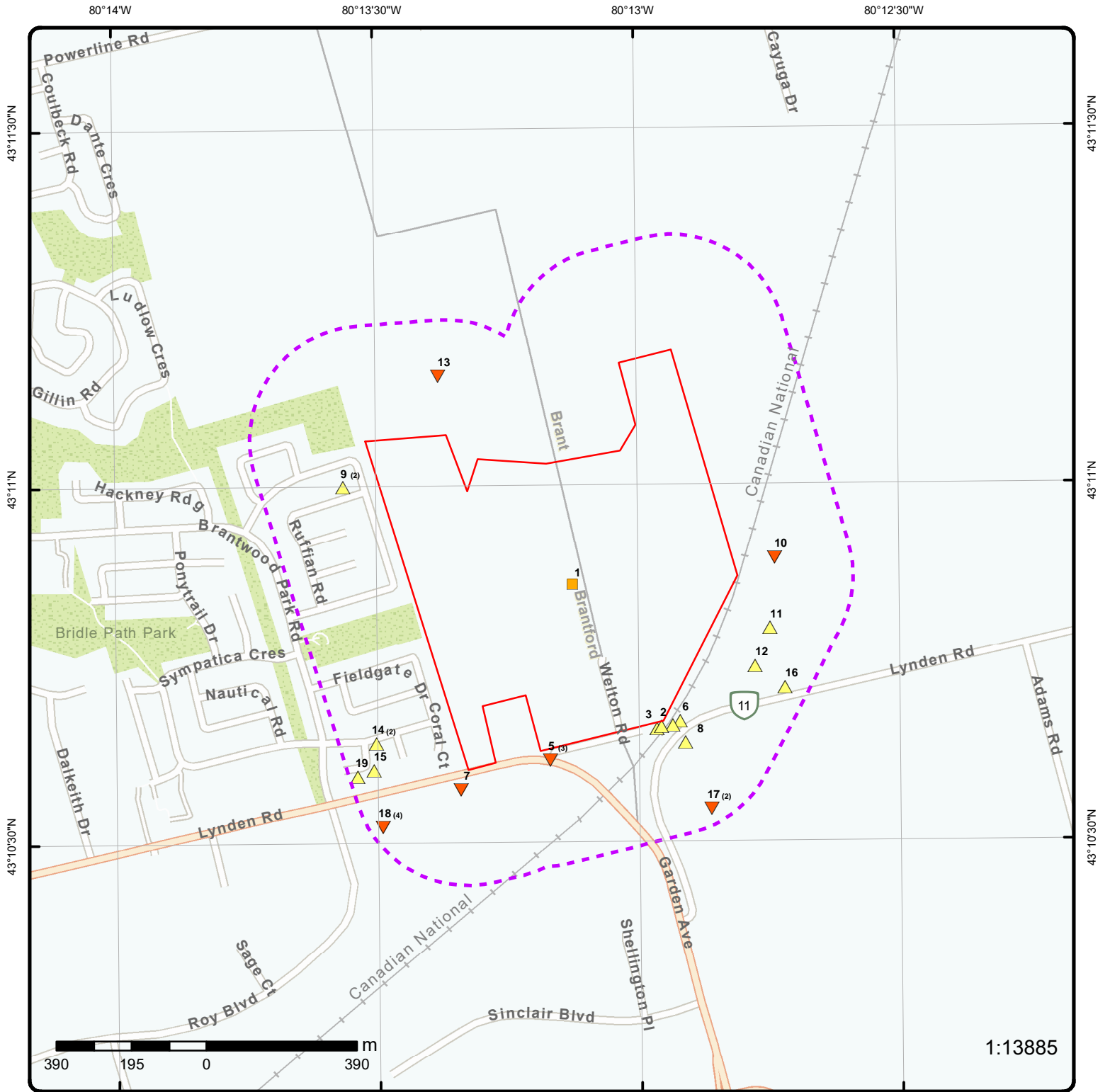
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	55 Ruffian Avenue Brantford ON N3P 1R6	91.2	<u>9</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
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WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 8 WWIS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	299 LYNDEN RD con 2 BRANTFORD ON <i>Well ID:</i> 7041625	0.0	<u>1</u>
	lot 43 con 3 ON <i>Well ID:</i> 1300231	80.0	<u>8</u>
	lot 44 con 2 ON <i>Well ID:</i> 1300182	105.1	<u>10</u>
	lot 43 con 2 ON <i>Well ID:</i> 1300183	146.2	<u>12</u>
	lot 44 con 2 ON <i>Well ID:</i> 1304601	240.7	<u>16</u>
	N/A GARDEN AVE lot 43 con 3 BRANTFORD ON <i>Well ID:</i> 7347716	259.8	<u>17</u>
	N/A GARDEN AVE lot 43 con 3 BRANTFORD ON <i>Well ID:</i> 7347715	259.8	<u>17</u>
	lot 41 con 2 ON <i>Well ID:</i> 1301251	278.3	<u>19</u>



Map: 0.3 Kilometer Radius

Order Number: 22041800237

Address: 299 Lynden Road, Brantford, ON



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

80°13'30"W

43°10'30"N

43°10'30"N



Aerial

Year: 2021

Order Number: 22041800237

Address: 299 Lynden Road, Brantford, ON



Source: ESRI World Imagery

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80°13'30"W

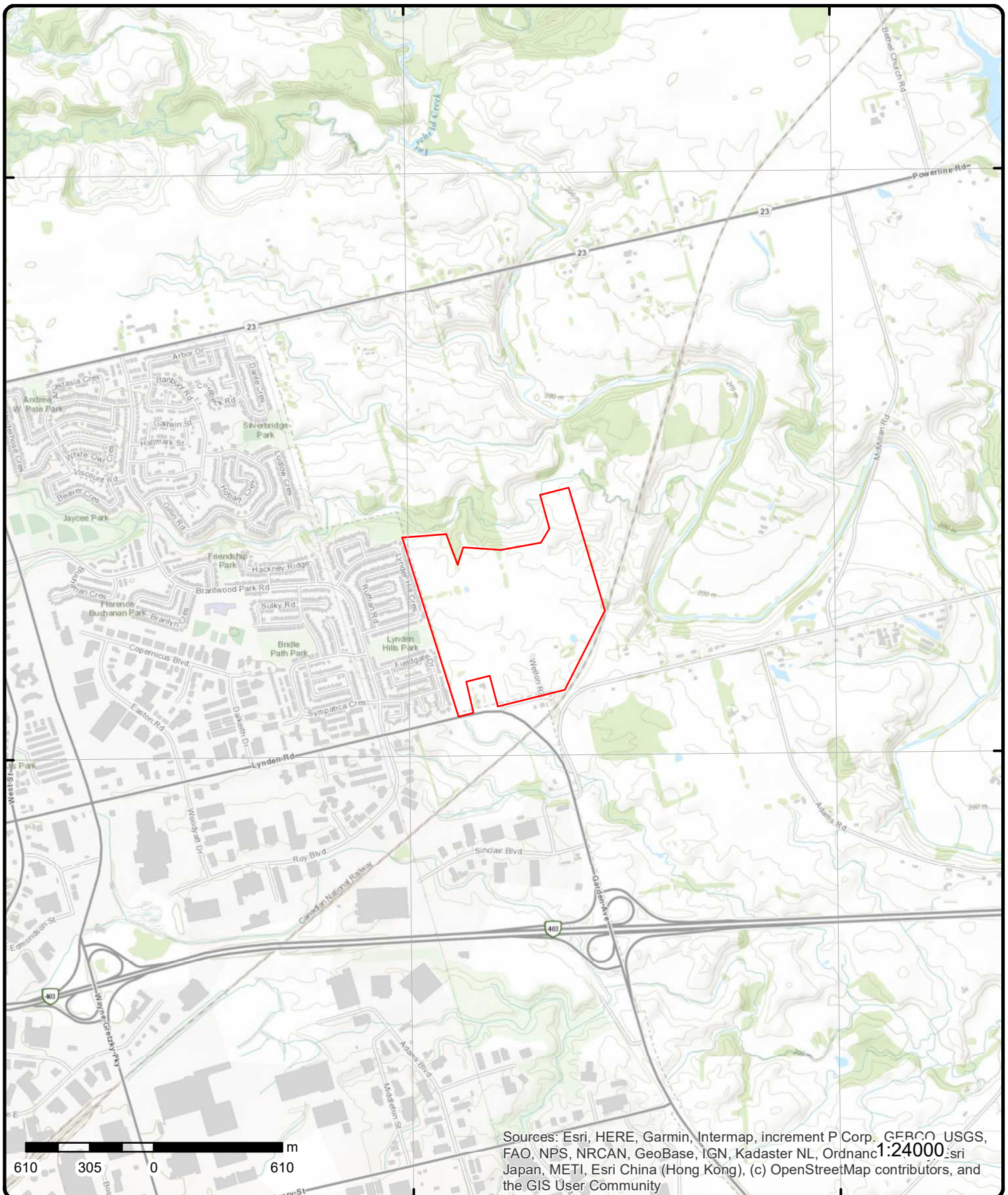
80°12'W

43°12'N

43°12'N

43°10'30"N

43°10'30"N



Topographic Map

Address: 299 Lynden Road, ON

Source: ESRI World Topographic Map

Order Number: 22041800237



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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[1](#)

1 of 1

SE/0.0

218.8 / 0.00

299 LYNDEN RD con 2
BRANTFORD ON

WWIS

Well ID: 7041625
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z56150
Tag: A048700
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 3/13/2007
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7238
Form Version: 3
Owner:
Street Name: 299 LYNDEN RD
County: BRANT
Municipality: BRANTFORD CITY
Site Info:
Lot:
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7041625.pdf

Additional Detail(s) (Map)

Well Completed Date: 2007/02/27
Year Completed: 2007
Depth (m): 7.6
Latitude: 43.1810084101421
Longitude: -80.2187658280116
Path: 704\7041625.pdf

Bore Hole Information

Bore Hole ID: 11764118
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 27-Feb-2007 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 563490.00
North83: 4781212.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933094559			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		3.0			
Formation End Depth:		7.599999904632568			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933094558			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		05			
Mat2 Desc:		CLAY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.30000001192092896			
Formation End Depth:		3.0			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933094557			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		0.30000001192092896			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933315480			
Layer:		1			
Plug From:		0.0			
Plug To:		0.30000001192092896			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug ID:		933315482			
Layer:		3			
Plug From:		4.300000190734863			
Plug To:		7.599999904632568			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933315481			
Layer:		2			
Plug From:		0.30000001192092896			
Plug To:		4.300000190734863			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		967041625			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11771808			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930896846			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		-0.6000000238418579			
Depth To:		4.599999904632568			
Casing Diameter:		3.0			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		933423555			
Layer:		1			
Slot:		10			
Screen Top Depth:		4.599999904632568			
Screen End Depth:		7.599999904632568			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
<u>Hole Diameter</u>					
Hole ID:		11850320			
Diameter:		16.0			
Depth From:		0.0			
Depth To:		7.599999904632568			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>2</u>	1 of 1	SE/12.1	220.8 / 1.95	ON	BORE
Borehole ID:		830528		Inclin FLG:	No
OGF ID:		215571850		SP Status:	Initial Entry
Status:		Decommissioned		Surv Elev:	No
Type:		Borehole		Piezometer:	No
Use:		Geotechnical/Geological Investigation		Primary Name:	
Completion Date:		28-DEC-1961		Municipality:	
Static Water Level:				Lot:	42
Primary Water Use:				Township:	Brantford
Sec. Water Use:				Latitude DD:	43.177684
Total Depth m:		3.3		Longitude DD:	-80.215954
Depth Ref:		Ground Surface		UTM Zone:	17
Depth Elev:				Easting:	563722
Drill Method:		Boring		Northing:	4780845
Orig Ground Elev m:		215		Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:		219			
Concession:		2 & 3			
Location D:		PARK RD INTER 1.7 MI E OF HWY 24 * BRANTFORD BYPASS			
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:		218610992		Mat Consistency:	Compact
Top Depth:		0		Material Moisture:	
Bottom Depth:		3.3		Material Texture:	
Material Color:		Brown		Non Geo Mat Type:	
Material 1:		Silt		Geologic Formation:	
Material 2:		Clay		Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		Compact brown silt with slight plasticity, grey silty clay from elev. 960ft **Note: Many records provided by the department have a truncated [Stratum Description] field.			
<u>3</u>	1 of 1	SE/16.0	220.8 / 1.95	ON	BORE
Borehole ID:		830525		Inclin FLG:	No
OGF ID:		215571847		SP Status:	Initial Entry
Status:		Decommissioned		Surv Elev:	No
Type:		Borehole		Piezometer:	No
Use:		Geotechnical/Geological Investigation		Primary Name:	
Completion Date:		18-DEC-1961		Municipality:	
Static Water Level:				Lot:	42
Primary Water Use:				Township:	Brantford
Sec. Water Use:				Latitude DD:	43.177622
Total Depth m:		18.6		Longitude DD:	-80.216102
Depth Ref:		Ground Surface		UTM Zone:	17
Depth Elev:				Easting:	563710
Drill Method:		Diamond Drill		Northing:	4780838
Orig Ground Elev m:		221		Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:		221			
Concession:		2 & 3			
Location D:		PARK RD INTER 1.7 MI E OF HWY 24 * BRANTFORD BYPASS			
Survey D:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218610983			Mat Consistency:	Very Stiff
Top Depth:	6.1			Material Moisture:	
Bottom Depth:	18.6			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Silt			Geologic Formation:	
Material 2:	Clay			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Very stiff, brown clayey silt to silty clay, with seams of silt - (below 45.0ft the material is predominantly clayey silt containing thin seams of silt).				
Geology Stratum ID:	218610981			Mat Consistency:	Compact
Top Depth:	0			Material Moisture:	
Bottom Depth:	2.4			Material Texture:	Coarse
Material Color:				Non Geo Mat Type:	Fill-Misc
Material 1:	Sand			Geologic Formation:	
Material 2:	Gravel			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Fill material, compact, fine to coarse sand and gravel **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218610982			Mat Consistency:	Stiff
Top Depth:	2.4			Material Moisture:	
Bottom Depth:	6.1			Material Texture:	
Material Color:	Grey-Brown			Non Geo Mat Type:	Fill-Misc
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Stiff, grey to brown silty clay. Probably fill material.				
4	1 of 1	SE/26.3	220.6 / 1.71	ON	BORE
Borehole ID:	830527			Inclin FLG:	No
OGF ID:	215571849			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	17-DEC-1961			Municipality:	
Static Water Level:	5.0			Lot:	42
Primary Water Use:				Township:	Brantford
Sec. Water Use:				Latitude DD:	43.177709
Total Depth m:	12.5			Longitude DD:	-80.215597
Depth Ref:	Ground Surface			UTM Zone:	17
Depth Elev:				Easting:	563751
Drill Method:	Boring			Northing:	4780848
Orig Ground Elev m:	216			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	217				
Concession:	2 & 3				
Location D:	PARK RD INTER 1.7 MI E OF HWY 24 * BRANTFORD BYPASS				
Survey D:					
Comments:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218610989			Mat Consistency:	Stiff
Top Depth:	2			Material Moisture:	
Bottom Depth:	5.5			Material Texture:	
Material Color:	Grey-Brown			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Silty clay to clayey silt with thin seams of silt, stiff, grey-brown **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218610990			Mat Consistency:	
Top Depth:	5.5			Material Moisture:	
Bottom Depth:	7.3			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Silt			Geologic Formation:	
Material 2:	Clay			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Silt with occasional thin seams of clayey silt and silty clay **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218610991			Mat Consistency:	Very Stiff
Top Depth:	7.3			Material Moisture:	
Bottom Depth:	12.5			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Silty clay to clayey silt with thin seams of silt, stiff, to very stiff, grey **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218610988			Mat Consistency:	Firm
Top Depth:	0			Material Moisture:	
Bottom Depth:	2			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Gravel			Geologic Period:	
Material 4:	organic material			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Firm, silty clay with gravel and organic matter **Note: Many records provided by the department have a truncated [Stratum Description] field.				
5	1 of 3	S/29.0	216.5 / -2.31	Garden Avenue Realignment Garden Avenue and Lynden Road Brantford ON	CA
Certificate #:	6734-4P6JAL				
Application Year:	00				
Issue Date:	9/18/00				
Approval Type:	Municipal & Private sewage				
Status:	Approved				
Application Type:	New Certificate of Approval				
Client Name:	Corporation Of The City Of Brantford				
Client Address:	100 Wellington Square, P.O. Box 818				
Client City:	Brantford				
Client Postal Code:	N3T 2M3				
Project Description:	Sanitary sewers construction on Lynden Ave. and Storms sewers on Garden Ave.				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contaminants: Emission Control:					
5	2 of 3	S/29.0	216.5 / -2.31	Garden Avenue Realignment Garden Avenue and Lynden Road Brantford ON	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:		2500-4P6HWB 00 9/18/00 Municipal & Private water Approved New Certificate of Approval Corporation Of The City Of Brantford 100 Wellington Square, P.O. Box 818 Brantford N3T 2M3 Watermains to be installed on Lynden Road and Garden Ave.			
5	3 of 3	S/29.0	216.5 / -2.31	The Corporation of the City of Brantford Lynden Rd and Garden Ave Brantford ON N3T 2M3	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link: PDF Site Location:		6734-4P6JAL 2000-09-18 Approved ECA IDS Grand River ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS The Corporation of the City of Brantford Lynden Rd and Garden Ave https://www.accessenvironment.ene.gov.on.ca/instruments/1055-4NWL3P-14.pdf			
MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:		Guelph -80.223 43.1859 			
6	1 of 1	SE/38.8	220.8 / 2.00	ON	BORE
Borehole ID: OGF ID: Status: Type: Use: Completion Date: Static Water Level: Primary Water Use: Sec. Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method: Orig Ground Elev m: Elev Reliabil Note: DEM Ground Elev m: Concession: Location D:		830526 215571848 Decommissioned Borehole Geotechnical/Geological Investigation 20-DEC-1961 7.5 18.8 Ground Surface Boring 221 221 2 & 3 PARK RD INTER 1.7 MI E OF HWY 24 * BRANTFORD BYPASS			
Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:		No Initial Entry No No 42 Brantford 43.177797 -80.215362 17 563770 4780858 Within 10 metres			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Survey D: Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218610984			Mat Consistency:	Compact
Top Depth:	0			Material Moisture:	
Bottom Depth:	3.3			Material Texture:	Coarse
Material Color:				Non Geo Mat Type:	Fill-Misc
Material 1:	Sand			Geologic Formation:	
Material 2:	Gravel			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Fill material, compact, fine to coarse sand and gravel **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218610986			Mat Consistency:	Compact
Top Depth:	5.2			Material Moisture:	
Bottom Depth:	7.6			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Silt			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Compact brown silt with slight plasticity **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218610987			Mat Consistency:	Stiff
Top Depth:	7.6			Material Moisture:	
Bottom Depth:	18.8			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Firm to stiff, grey, silty clay to clayey silt with thin seams of silt (below 44.0ft the material is generally clayey silt with thin seams of silt).				
Geology Stratum ID:	218610985			Mat Consistency:	Firm
Top Depth:	3.3			Material Moisture:	
Bottom Depth:	5.2			Material Texture:	
Material Color:				Non Geo Mat Type:	Fill-Misc
Material 1:	Clay			Geologic Formation:	
Material 2:	Sand			Geologic Group:	
Material 3:	organic material			Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	Fill material - clay with sand and traces of organic matter. Firm.				
7	1 of 1	SSW/54.5	216.9 / -1.95	1003873 Canada Corp. 294 Lynden Road Brantford ON N3R 8A7	GEN
Generator No:	ON9445918			Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Oct 2019			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:	Canada			MHSW Facility:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Detail(s)</u>					
Waste Class:		252 L			
Waste Class Desc:		Waste crankcase oils and lubricants			
Waste Class:		221 I			
Waste Class Desc:		Light fuels			
Waste Class:		212 L			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		252 I			
Waste Class Desc:		Waste crankcase oils and lubricants			

<u>8</u>	1 of 1	SE/80.0	220.7 / 1.87	lot 43 con 3 ON	WWIS
Well ID:	1300231			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	11/4/1966
Sec. Water Use:	0			Selected Flag:	TRUE
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3001
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	BRANT
Elevation (m):				Municipality:	BRANTFORD TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	043
Well Depth:				Concession:	03
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/130\1300231.pdf				

Additional Detail(s) (Map)

Well Completed Date:	1966/08/06
Year Completed:	1966
Depth (m):	13.4112
Latitude:	43.1773010063484
Longitude:	-80.2151920159791
Path:	130\1300231.pdf

Bore Hole Information

Bore Hole ID:	10006925	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	563784.30
Code OB Desc:		North83:	4780803.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	06-Aug-1966 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Method: Source Revision Comment: Supplier Comment:					
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		930928462			
Layer:		4			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		20.0			
Formation End Depth:		44.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		930928460			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		1.0			
Formation End Depth:		11.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		930928459			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		1.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		930928461			
Layer:		3			
Color:		3			
General Color:		BLUE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		11.0			
Formation End Depth:		20.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961300231			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10555495			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930010270			
Layer:		1			
Material:		3			
Open Hole or Material:		CONCRETE			
Depth From:					
Depth To:		44.0			
Casing Diameter:		36.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991300231			
Pump Set At:					
Static Level:		24.0			
Final Level After Pumping:		27.0			
Recommended Pump Depth:		40.0			
Pumping Rate:		3.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933432191			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth:		20.0			
Water Found Depth UOM:		ft			
9	1 of 2	WNW/91.2	219.9 / 1.01	55 Ruffian Avenue Brantford ON N3P 1R6	SPL
Ref No:		0304-8L3RWF		Discharger Report:	
Site No:				Material Group:	
Incident Dt:		8/25/2011		Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:		Other Discharges		Sector Type:	Other
Incident Event:				Agency Involved:	
Contaminant Code:		46		Nearest Watercourse:	
Contaminant Name:		FIRE WATER (PARTICULATE CONTAMINANT)		Site Address:	55 Ruffian Avenue
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:		Not Anticipated		Site Municipality:	Brantford
Nature of Impact:		Surface Water Pollution		Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:				Northing:	
MOE Response:		No Field Response		Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:		8/25/2011		Site Map Datum:	
Dt Document Closed:		10/7/2011		SAC Action Class:	Watercourse Spills
Incident Reason:		Fire/Explosion - Resulting from fires/explosions (Not occurrences which cause a fire or explosion)		Source Type:	
Site Name:		road allowance<UNOFFICIAL>			
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:		55 Ruffian Ave; hse fire; fire water to stm; outfall boomed			
Contaminant Qty:		0 other - see incident description			
9	2 of 2	WNW/91.2	219.9 / 1.01	55 Ruffian Road, Brantford ON	INC
Incident No:		649138		Any Health Impact:	Yes
Incident ID:				Any Enviro Impact:	Unknown
Instance No:				Service Interrupted:	Yes
Status Code:				Was Prop Damaged:	Yes
Attribute Category:		FS-Perform L1 Incident Insp		Reside App. Type:	
Context:				Commer App. Type:	
Date of Occurrence:		2011/08/25 00:00:00		Indus App. Type:	
Time of Occurrence:		14:30:00		Institut App. Type:	
Incident Created On:				Venting Type:	
Instance Creation Dt:				Vent Conn Mater:	
Instance Install Dt:				Vent Chimney Mater:	
Occur Insp Start Date:		2011/08/25 00:00:00		Pipeline Type:	
Approx Quant Rel:				Pipeline Involved:	
Tank Capacity:				Pipe Material:	
Fuels Occur Type:		Explosion		Depth Ground Cover:	
Fuel Type Involved:		Natural Gas		Regulator Location:	
Enforcement Policy:		NULL		Regulator Type:	
Prc Escalation Req:		NULL		Operation Pressure:	
Tank Material Type:				Liquid Prop Make:	
Tank Storage Type:				Liquid Prop Model:	
Tank Location Type:				Liquid Prop Serial No:	
Pump Flow Rate Cap:				Liquid Prop Notes:	
Task No:		3457049		Equipment Type:	
Notes:				Equipment Model:	
Drainage System:				Serial No:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Sub Surface Contam.: Aff Prop Use Water: Contam. Migrated: Contact Natural Env: Incident Location: Occurence Narrative: Operation Type Involved: Item: Item Description: Device Installed Location:			Cylinder Capacity: Cylinder Cap Units: Cylinder Mat Type: Near Body of Water: 55 Ruffian Road, Brantford - Explosion explosion in house, total destruction Private Dwelling		
10	1 of 1	E/105.1	212.4 / -6.47	lot 44 con 2 ON	WWIS
Well ID: 1300182 Construction Date: Primary Water Use: Livestock Sec. Water Use: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:			Data Entry Status: Data Src: 1 Date Received: 2/6/1948 Selected Flag: TRUE Abandonment Rec: Contractor: 2414 Form Version: 1 Owner: Street Name: County: BRANT Municipality: BRANTFORD TOWNSHIP Site Info: Lot: 044 Concession: 02 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:		
PDF URL (Map):			https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/130\1300182.pdf		
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: 1947/03/24 Year Completed: 1947 Depth (m): 42.672 Latitude: 43.1816034585262 Longitude: -80.2123067776839 Path: 130\1300182.pdf					
<u>Bore Hole Information</u>					
Bore Hole ID: 10006877 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 24-Mar-1947 00:00:00 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment:			Elevation: Elevrc: Zone: 17 East83: 564014.30 North83: 4781283.00 Org CS: UTMRC: 9 UTMRC Desc: unknown UTM Location Method: p9		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930928270			
Layer:		1			
Color:		5			
General Color:		YELLOW			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930928274			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		124.0			
Formation End Depth:		140.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930928272			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		09			
Mat2 Desc:		MEDIUM SAND			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		28.0			
Formation End Depth:		35.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930928273			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		09			
Most Common Material:		MEDIUM SAND			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		35.0			
Formation End Depth:		124.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930928271			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		09			
Mat2 Desc:		MEDIUM SAND			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12.0			
Formation End Depth:		28.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961300182			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10555447			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930010192			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		124.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930010193			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		140.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991300182			
Pump Set At:					
Static Level:		8.0			
Final Level After Pumping:		28.0			
Recommended Pump Depth:					
Pumping Rate:		8.0			
Flowing Rate:					
Recommended Pump Rate:		8.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933432145			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		8.0			
Water Found Depth UOM:		ft			
11	1 of 1	ESE/136.1	220.1 / 1.23	J.A. Ross No. 1	OOGW
Brantford ON					
Licence No:	F011641			Well Compl:	8442
Well ID:	8271			County:	Brant
Well Compl ID:	8442			Block:	NULL
W Class ID:	2367			Lot:	44
UWI Code:	F011641			Conc:	II
Permit Date:	NULL			Surface Lat NAD83:	43.17996722
Depth(m):	160.02			Surface Long NAD83:	-80.21246833
Well Pool:	NULL			Bottom Lat NAD83:	43.17996722
Completion Date:	NULL			Bottom Long NAD83:	-80.21246833
Depth Reached:	1958-07-02 00:00:00			Lot Sides (m):	175.30 N
Capped Date:	1958-08-06 00:00:00			E/W (m):	30.48 E
Class ID:				Latitude Nad27:	
DB Source:				Longitude Nad27:	
Status as of:	January 2021			bottom lat27:	
Start Date:	1958-06-03 00:00:00			bottom long27:	
SPUD Date:	1958-06-03 00:00:00			Lateral:	No
Class:	NPW			Accuracy:	20
Grnd Elev:	220.55			Method:	Well Records (1954 to 1997)
KB Elev:	220.55			Parent:	NULL
TVD:	160.02			Prod Top:	NULL
PBTD:	NULL			Prod Bot:	NULL
TD Form:	Queenston			PROPD Depth:	152.40
Workover D:	NULL			Location Method:	Well Records (1954 to 1997)
Operator:	Ross, Joseph A.			Location Accuracy:	Within 20 metres
Township:	Brantford			Dt Obtained:	NULL
Well Name:	J.A. Ross No. 1				
Target:	CLI				
Target Desc:	TARGETS WITHIN THE CLINTON AND CATARACT (OR MEDINA) GROUPS (WHIRLPOOL TO IRONDEQUOIT FORMATIONS INCLUSIVE)				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Status Type:		Gas Show			
Status Type Desc:		A WELL CLASSED AS EXPLORATORY OR DEVELOPMENT IN WHICH GAS HAS BEEN ENCOUNTERED BUT HAS NOT BEEN PROVEN OR JUDGED TO BE PRODUCTIVE			
Well Status Mode:		Abandoned Well			
Status Mode Desc:		A WELL WHICH IS OFFICIALLY PLUGGED AND ABANDONED			
Classification:		NEW POOL WILDCAT			
Classification Desc:		"EXPLORATORY WELL" MEANS A WELL THAT IS DRILLED FOR THE PURPOSE OF DISCOVERING A POOL OF OIL OR GAS			
Cement Rec:		NULL			
Comments:		Accuracy is approximate and not verified.			
<u>Details</u>					
License No:	F011641			Source:	MNR
Top (m):	100.60			Static Level (m):	n/a
Elevation (m):	119.95			Geology/Water:	Geology
Geology Formation:	Rochester			Elevation / Top (m):	119.95 / 100.60
Type of Water:	n/a				
License No:	F011641			Source:	n/a
Top (m):	37.20			Static Level (m):	12.20
Elevation (m):	n/a			Geology/Water:	Water
Geology Formation:	Guelph			Elevation / Top (m):	n/a / 37.20
Type of Water:	Sulphur				
License No:	F011641			Source:	MNR
Top (m):	28.35			Static Level (m):	n/a
Elevation (m):	192.20			Geology/Water:	Geology
Geology Formation:	Top of Bedrock			Elevation / Top (m):	192.20 / 28.35
Type of Water:	n/a				
License No:	F011641			Source:	FORM 7
Top (m):	146.30			Static Level (m):	n/a
Elevation (m):	74.25			Geology/Water:	Geology
Geology Formation:	Queenston			Elevation / Top (m):	74.25 / 146.30
Type of Water:	n/a				
License No:	F011641			Source:	MNR
Top (m):	146.30			Static Level (m):	n/a
Elevation (m):	74.25			Geology/Water:	Geology
Geology Formation:	Queenston			Elevation / Top (m):	74.25 / 146.30
Type of Water:	n/a				
License No:	F011641			Source:	n/a
Top (m):	73.20			Static Level (m):	2.40
Elevation (m):	n/a			Geology/Water:	Water
Geology Formation:	Guelph			Elevation / Top (m):	n/a / 73.20
Type of Water:	Sulphur				
License No:	F011641			Source:	MNR
Top (m):	115.80			Static Level (m):	n/a
Elevation (m):	104.75			Geology/Water:	Geology
Geology Formation:	Reynales/Fossil Hill			Elevation / Top (m):	104.75 / 115.80
Type of Water:	n/a				
License No:	F011641			Source:	FORM 7
Top (m):	120.40			Static Level (m):	n/a
Elevation (m):	100.15			Geology/Water:	Geology
Geology Formation:	Cabot Head			Elevation / Top (m):	100.15 / 120.40
Type of Water:	n/a				
License No:	F011641			Source:	MNR
Top (m):	28.30			Static Level (m):	n/a
Elevation (m):	192.25			Geology/Water:	Geology
Geology Formation:	Guelph			Elevation / Top (m):	192.25 / 28.30

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Type of Water:	n/a				
License No:	F011641			Source:	FORM 7
Top (m):	28.30			Static Level (m):	n/a
Elevation (m):	192.25			Geology/Water:	Geology
Geology Formation:	Guelph			Elevation / Top (m):	192.25 / 28.30
Type of Water:	n/a				
License No:	F011641			Source:	FORM 7
Top (m):	115.80			Static Level (m):	n/a
Elevation (m):	104.75			Geology/Water:	Geology
Geology Formation:	Reynales/Fossil Hill			Elevation / Top (m):	104.75 / 115.80
Type of Water:	n/a				
License No:	F011641			Source:	n/a
Top (m):	31.10			Static Level (m):	12.20
Elevation (m):	n/a			Geology/Water:	Water
Geology Formation:	Guelph			Elevation / Top (m):	n/a / 31.10
Type of Water:	Sulphur				
License No:	F011641			Source:	MNR
Top (m):	120.40			Static Level (m):	n/a
Elevation (m):	100.15			Geology/Water:	Geology
Geology Formation:	Cabot Head			Elevation / Top (m):	100.15 / 120.40
Type of Water:	n/a				
License No:	F011641			Source:	FORM 7
Top (m):	28.35			Static Level (m):	n/a
Elevation (m):	192.20			Geology/Water:	Geology
Geology Formation:	Top of Bedrock			Elevation / Top (m):	192.20 / 28.35
Type of Water:	n/a				
License No:	F011641			Source:	MNR
Top (m):	141.70			Static Level (m):	n/a
Elevation (m):	78.85			Geology/Water:	Geology
Geology Formation:	Manitoulin			Elevation / Top (m):	78.85 / 141.70
Type of Water:	n/a				
License No:	F011641			Source:	FORM 7
Top (m):	100.60			Static Level (m):	n/a
Elevation (m):	119.95			Geology/Water:	Geology
Geology Formation:	Rochester			Elevation / Top (m):	119.95 / 100.60
Type of Water:	n/a				
License No:	F011641			Source:	FORM 7
Top (m):	0.01			Static Level (m):	n/a
Elevation (m):	220.54			Geology/Water:	Geology
Geology Formation:	Drift			Elevation / Top (m):	220.54 / 0.01
Type of Water:	n/a				
License No:	F011641			Source:	FORM 7
Top (m):	141.70			Static Level (m):	n/a
Elevation (m):	78.85			Geology/Water:	Geology
Geology Formation:	Manitoulin			Elevation / Top (m):	78.85 / 141.70
Type of Water:	n/a				
<hr/>					
12	1 of 1	ESE/146.2	220.8 / 2.00	lot 43 con 2 ON	WWIS
Well ID:	1300183			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	2/4/1965
Sec. Water Use:	0			Selected Flag:	TRUE
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3001

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:		930928275			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		10.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930928279			
Layer:		5			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		52.0			
Formation End Depth:		62.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930928277			
Layer:		3			
Color:					
General Color:					
Mat1:		06			
Most Common Material:		SILT			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		30.0			
Formation End Depth:		48.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930928278			
Layer:		4			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Formation Top Depth:		48.0			
Formation End Depth:		52.0			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		961300183			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10555448			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930010194			
Layer:		1			
Material:		3			
Open Hole or Material:		CONCRETE			
Depth From:					
Depth To:		62.0			
Casing Diameter:		36.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		991300183			
Pump Set At:					
Static Level:		30.0			
Final Level After Pumping:		36.0			
Recommended Pump Depth:		58.0			
Pumping Rate:		3.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		No			
 <u>Water Details</u>					
Water ID:		933432146			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		30.0			
Water Found Depth UOM:		ft			
<hr/>					
13	1 of 1	NW/154.3	216.4 / -2.41	The Corporation of the City of Brantford Lynden Rd and Garden Ave	ECA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Brantford ON N3T 2M3					
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link: PDF Site Location:	2500-4P6HWP 2000-09-18 Approved ECA IDS Grand River ECA-Municipal and Private Water Works Municipal and Private Water Works The Corporation of the City of Brantford Lynden Rd and Garden Ave			MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	Guelph -80.223 43.185900000000004
14	1 of 2	WSW/206.8	219.8 / 1.00	T & J Girard Trading Company 1 Majestic Court Brantford ON N3P 1N2	CA
Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:	3258-6D6HUH 2005 6/20/2005 Waste Management Systems Approved				
14	2 of 2	WSW/206.8	219.8 / 1.00	T & J Girard Trading Company 1 Majestic Court Brantford ON N3P 1N2	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link: PDF Site Location:	3258-6D6HUH 2005-06-20 Approved ECA IDS Grand River ECA-WASTE MANAGEMENT SYSTEMS WASTE MANAGEMENT SYSTEMS T & J Girard Trading Company 1 Majestic Court			MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	Guelph -80.22507 43.177307
15	1 of 1	SW/233.9	220.1 / 1.20	9 Majestic Court, Brantford ON N3P 1N2	PINC
Incident Id: Incident No: Incident Reported Dt: Type: Status Code:	2839502 682638 FS-Pipeline Incident Home Owner Pipeline Strike			Pipe Material: Fuel Category: Health Impact: Environment Impact: Property Damage:	Heating Fuel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Tank Status: Task No: Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: Depth: Customer Acct Name: Incident Address: Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason: Notes:					
Service Interrupt: Enforce Policy: Public Relation: Pipeline System: PSIG: Attribute Category: Regulator Location: Method Details: utility damage					
9 Majestic Court, Brantford - 1/2" Pipeline Hit Rose, Linda - Union gas Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)					

16	1 of 1	ESE/240.7	220.8 / 1.92	lot 44 con 2 ON	WWIS
Well ID: 1304601 Construction Date: Primary Water Use: Domestic Sec. Water Use: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: 124108 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:					
Data Entry Status: Data Src: 1 Date Received: 6/11/1993 Selected Flag: TRUE Abandonment Rec: Contractor: 3030 Form Version: 1 Owner: Street Name: County: BRANT Municipality: BRANTFORD TOWNSHIP Site Info: Lot: 044 Concession: 02 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/130\1304601.pdf

Additional Detail(s) (Map)

Well Completed Date: 1993/05/25
Year Completed: 1993
Depth (m): 18.288
Latitude: 43.1785847618255
Longitude: -80.212001064209
Path: 130\1304601.pdf

Bore Hole Information

Bore Hole ID: 10011216 DP2BR: Spatial Status: Code OB: Code OB Desc:	Elevation: Elevrc: Zone: 17 East83: 564042.30 North83: 4780948.00
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	3
Date Completed:	25-May-1993 00:00:00			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	gps
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930945367			
Layer:		3			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:		74			
Mat3 Desc:		LAYERED			
Formation Top Depth:		15.0			
Formation End Depth:		60.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930945366			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Mat2 Desc:		SANDY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		1.0			
Formation End Depth:		15.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930945365			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		1.0			
Formation End Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Method of Construction & Well Use</u>					
Method Construction ID:	961304601				
Method Construction Code:	6				
Method Construction:	Boring				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	10559786				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930015630				
Layer:	1				
Material:	3				
Open Hole or Material:	CONCRETE				
Depth From:					
Depth To:	60.0				
Casing Diameter:	36.0				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Results of Well Yield Testing</u>					
Pump Test ID:	991304601				
Pump Set At:					
Static Level:	15.0				
Final Level After Pumping:					
Recommended Pump Depth:	55.0				
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:	3.0				
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:	No				
<u>Water Details</u>					
Water ID:	933438250				
Layer:	2				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	30.0				
Water Found Depth UOM:	ft				
<u>Water Details</u>					
Water ID:	933438251				
Layer:	3				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	50.0				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933438249			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		15.0			
Water Found Depth UOM:		ft			

17	1 of 2	SE/259.8	214.3 / -4.52	N/A GARDEN AVE lot 43 con 3 BRANTFORD ON	WWIS
Well ID:	7347715			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	11/20/2019
Sec. Water Use:				Selected Flag:	TRUE
Final Well Status:	Observation Wells			Abandonment Rec:	
Water Type:				Contractor:	7190
Casing Material:				Form Version:	9
Audit No:	DJLWI5SG			Owner:	
Tag:	A273476			Street Name:	N/A GARDEN AVE
Construction Method:				County:	BRANT
Elevation (m):				Municipality:	BRANTFORD TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	043
Well Depth:				Concession:	03
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7347715.pdf				

Additional Detail(s) (Map)

Well Completed Date: 2019/08/22
 Year Completed: 2019
 Depth (m): 6.096
 Latitude: 43.1757466079514
 Longitude: -80.214378960551
 Path: 734\7347715.pdf

Bore Hole Information

Bore Hole ID:	1007717975	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	563852.00
Code OB Desc:		North83:	4780631.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	22-Aug-2019 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1007718487			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		05			
Mat2 Desc:		CLAY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		8.5			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1007718488			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		05			
Mat2 Desc:		CLAY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		8.5			
Formation End Depth:		15.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1007718489			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		84			
Mat2 Desc:		SILTY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		15.0			
Formation End Depth:		20.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007718897			
Layer:		1			
Plug From:					
Plug To:					
Plug Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007719063			
Layer:		3			
Plug From:		9.0			
Plug To:		20.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007719062			
Layer:		2			
Plug From:		1.0			
Plug To:		9.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007719061			
Layer:		1			
Plug From:		0.0			
Plug To:		1.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1007718227			
Method Construction Code:		E			
Method Construction:		Auger			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1007718133			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1007718659			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-3.0			
Depth To:		1.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		1007718660			
Layer:		2			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		-3.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Depth To:		10.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Screen</u>					
Screen ID:		1007718759			
Layer:		1			
Slot:		188			
Screen Top Depth:		10.0			
Screen End Depth:		20.0			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.0			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		1007718134			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
 <u>Water Details</u>					
Water ID:		1007718341			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		8.0			
Water Found Depth UOM:		ft			
 <u>Hole Diameter</u>					
Hole ID:		1007718829			
Diameter:		8.5			
Depth From:		0.0			
Depth To:		20.0			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<hr/>					
17	2 of 2	SE/259.8	214.3 / -4.52	N/A GARDEN AVE lot 43 con 3 BRANTFORD ON	WWIS
Well ID:	7347716			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	11/20/2019
Sec. Water Use:				Selected Flag:	TRUE
Final Well Status:	Observation Wells			Abandonment Rec:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type:			Contractor:	7190	
Casing Material:			Form Version:	9	
Audit No:	KEDIBPQ4		Owner:		
Tag:	A273477		Street Name:	N/A GARDEN AVE	
Construction Method:			County:	BRANT	
Elevation (m):			Municipality:	BRANTFORD TOWNSHIP	
Elevation Reliability:			Site Info:		
Depth to Bedrock:			Lot:	043	
Well Depth:			Concession:	03	
Overburden/Bedrock:			Concession Name:	CON	
Pump Rate:			Easting NAD83:		
Static Water Level:			Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7347716.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		2019/08/22			
Year Completed:		2019			
Depth (m):		6.096			
Latitude:		43.1757466079514			
Longitude:		-80.214378960551			
Path:		734\7347716.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		1007717978		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	563852.00
Code OB Desc:				North83:	4780631.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:		22-Aug-2019 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1007718490			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		61			
Mat2 Desc:		CLAYEY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		7.5			
Formation End Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1007718491			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		61			
Mat2 Desc:		CLAYEY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		7.5			
Formation End Depth:		20.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007719065			
Layer:		2			
Plug From:		1.0			
Plug To:		9.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007718898			
Layer:		1			
Plug From:					
Plug To:					
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007719064			
Layer:		1			
Plug From:		0.0			
Plug To:		1.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007719066			
Layer:		3			
Plug From:		9.0			
Plug To:		20.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1007718228			
Method Construction Code:		E			
Method Construction:		Auger			
Other Method Construction:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Pipe Information</u>					
Pipe ID:		1007718135			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1007718662			
Layer:		2			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		-3.0			
Depth To:		10.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		1007718661			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-3.0			
Depth To:		1.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1007718760			
Layer:		1			
Slot:		188			
Screen Top Depth:		10.0			
Screen End Depth:		20.0			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.0			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1007718136			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Water Details</u>					
Water ID:		1007718342			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		11.0			
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1007718830			
Diameter:		8.5			
Depth From:		0.0			
Depth To:		20.0			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
18	1 of 4	SW/266.2	218.0 / -0.81	Elite Stainless Exhaust 11 Roy Blvd Brantford ON N3R 7K1	SCT
Established:		01-AUG-92			
Plant Size (ft²):					
Employment:					
<u>--Details--</u>					
Description:		Other Motor Vehicle Parts Manufacturing			
SIC/NAICS Code:		336390			
18	2 of 4	SW/266.2	218.0 / -0.81	Brant Auto Detailing 11 Roy Boulevard Brantford ON N3R 7K1	GEN
Generator No:	ON6260314			Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Dec 2018			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:	Canada			MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	145 I				
Waste Class Desc:	Wastes from the use of pigments, coatings and paints				
18	3 of 4	SW/266.2	218.0 / -0.81	Brant Auto Detailing 11 Roy Boulevard Brantford ON N3R 7K1	GEN
Generator No:	ON6260314			Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Jul 2020			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:	Canada			MHSW Facility:	
<u>Detail(s)</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
18	4 of 4	SW/266.2	218.0 / -0.81	Brant Auto Detailing 11 Roy Boulevard Brantford ON N3R 7K1	GEN
Generator No:		ON6260314		Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:		As of Nov 2021		Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:		Canada		MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
19	1 of 1	SW/278.3	220.9 / 2.04	lot 41 con 2 ON	WWIS
Well ID:		1301251		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Livestock		Date Received:	12/16/1968
Sec. Water Use:		Domestic		Selected Flag:	TRUE
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	2803
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	BRANT
Elevation (m):				Municipality:	BRANTFORD TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	041
Well Depth:				Concession:	02
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/130\1301251.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1968/10/22			
Year Completed:		1968			
Depth (m):		36.576			
Latitude:		43.1765619062414			
Longitude:		-80.2256597930939			
Path:		130\1301251.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10007943		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	562934.30
Code OB Desc:				North83:	4780713.00
Open Hole:				Org CS:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cluster Kind:				UTMRC:	5
Date Completed:		22-Oct-1968 00:00:00	UTMRC Desc:		
Remarks:				Location Method:	margin of error : 100 m - 300 m
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930932581			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12.0			
Formation End Depth:		108.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930932582			
Layer:		3			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		108.0			
Formation End Depth:		120.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930932580			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Use</u>					
Method Construction ID:		961301251			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10556513			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930011809			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		109.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930011810			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		120.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991301251			
Pump Set At:					
Static Level:		40.0			
Final Level After Pumping:		110.0			
Recommended Pump Depth:		117.0			
Pumping Rate:		6.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933433258			
Layer:		1			
Kind Code:		1			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<hr/>					
<i>Kind:</i>		FRESH			
<i>Water Found Depth:</i>		110.0			
<i>Water Found Depth UOM:</i>		ft			

Unplottable Summary

Total: **19** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	T.E. TAYLOR CONSTRUCTION	GARDEN AVE.	BRANTFORD CITY ON	
CA	OKAN CONSTRUCTION	GARDEN AVE.	BRANTFORD CITY ON	
CA	CHRYSLER CANADA-PRIVATE	LYNDEN ROAD	BRANTFORD CITY ON	
CA	HERITAGE GROUP	LYNDEN ROAD	BRANTFORD CITY ON	
CA		Garden Avenue	Brantford ON	
CA		Garden Avenue	Brantford ON	
CA	The Corporation of the City of Brantford	Lynden Road	Brantford ON	
CA	The Corporation of the City of Brantford	Lynden Road	Brantford ON	
CA	HERITAGE GROUP	LYNDEN ROAD	BRANTFORD CITY ON	
CA	BRANTFORD CITY GARDEN AVE.	GARDEN AVENUE	BRANTFORD CITY ON	
CONV	Canadian National Railway Company		Brant County ON	
GEN	CANADIAN NATIONAL RAILWAY	VARIOUS SITES WITHIN THE MOE WEST-CENTRAL REGION	(SEE SCHEDULE "B") ON	
SPL	CANADIAN NATIONAL RAILWAY	RAIL BA50 IN THE YARD TRAIN	BRANTFORD CITY ON	
SPL	CANADIAN NATIONAL RAILWAY	TRAIN	BRANTFORD CITY ON	
SPL	CANADIAN NATIONAL RAILWAY	BRANTFORD YARD OPPOSITE VIA STATION TRAIN	BRANTFORD CITY ON	
WWIS		lot 42 con 3	ON	
WWIS		con 2	ON	

WWIS

lot 42 con 3

ON

WWIS

con 3

ON

Unplottable Report

Site: T.E. TAYLOR CONSTRUCTION
GARDEN AVE. BRANTFORD CITY ON

Database:
CA

Certificate #: 7-1987-88-
Application Year: 88
Issue Date: 12/15/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: OKAN CONSTRUCTION
GARDEN AVE. BRANTFORD CITY ON

Database:
CA

Certificate #: 7-0799-89-
Application Year: 89
Issue Date: 5/29/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: CHRYSLER CANADA-PRIVATE
LYNDEN ROAD BRANTFORD CITY ON

Database:
CA

Certificate #: 7-0395-90-
Application Year: 90
Issue Date: 4/9/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: HERITAGE GROUP
LYNDEN ROAD BRANTFORD CITY ON

Database:
CA

Certificate #: 7-1646-90-

Application Year: 90
Issue Date: 11/5/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Garden Avenue Brantford ON

Database:
CA

Certificate #: 4720-4NQJ7N
Application Year: 00
Issue Date: 8/31/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation Of The City Of Brantford
Client Address: 100 Wellington Square, P.O. Box 818
Client City: Brantford
Client Postal Code: N3T 2M3
Project Description: watermain construction on Garden Avenue
Contaminants:
Emission Control:

Site: Garden Avenue Brantford ON

Database:
CA

Certificate #: 7261-4LSL4U
Application Year: 00
Issue Date: 7/4/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Brantford
Client Address: 100 Wellington Square, P.O. Box 818
Client City: Brantford
Client Postal Code: N3T 2M3
Project Description: Construction of a watermain from Henry Street to approx. 40m N of Henry Street
Contaminants:
Emission Control:

Site: The Corporation of the City of Brantford
Lynden Road Brantford ON

Database:
CA

Certificate #: 4500-63PR8T
Application Year: 2004
Issue Date: 8/10/2004
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *The Corporation of the City of Brantford*
 Lynden Road Brantford ON

Database:
CA

Certificate #: 6666-642NWG
Application Year: 2004
Issue Date: 8/24/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *HERITAGE GROUP*
 LYNDEN ROAD BRANTFORD CITY ON

Database:
CA

Certificate #: 3-2025-90-
Application Year: 90
Issue Date: 11/5/1990
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *BRANTFORD CITY GARDEN AVE.*
 GARDEN AVENUE BRANTFORD CITY ON

Database:
CA

Certificate #: 3-2148-89-
Application Year: 89
Issue Date: 10/30/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Canadian National Railway Company*
 Brant County ON

Database:
CONV

File No: 109580
Crown Brief No:
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:

Location:
Region:
Ministry District:

Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description:

A company was fined \$8,000 for failing to comply with a ministry approval for a waste disposal site, contrary to the Environmental Protection Act. "Environmental protection legislation protects communities and the environment. Breaking these rules can result in serious penalties and is an offence the ministry takes very seriously," said Environment Minister Jim Bradley. The Canadian National Railway Company operates a waste disposal site located in Brant County, under the authority of a ministry approval. The approval includes a requirement for the company to pay financial assurance to be deposited to the ministry. The company was charged with failing to submit the full amount of financial assurance required. The company was fined \$8,000 plus a victim fine surcharge of \$2,000 and was given 90 days to pay the fine.

Background:
URL:

Additional Details

Publication Date:
Count:
Act: EPA
Regulation:
Section:
Act/Regulation/Section: EPA
Date of Offence:
Date of Conviction:
Date Charged: October 24, 2013
Charge Disposition: fine, victim fine surcharge
Fine: \$8,000
Synopsis:

Additional Details

Publication Date:
Count:
Act: EPA
Regulation:
Section:
Act/Regulation/Section: EPA
Date of Offence:
Date of Conviction:
Date Charged: January 8, 2014
Charge Disposition: fine, victim fine surcharge
Fine: \$100,000
Synopsis:

Site: CANADIAN NATIONAL RAILWAY
VARIOUS SITES WITHIN THE MOE WEST-CENTRAL REGION (SEE SCHEDULE "B") ON

Database:
GEN

Generator No: ONR000702
SIC Code: 482113
SIC Description: Mainline Freight Rail Transportation
Approval Years: 2012
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 269
Waste Class Desc: NON-HALOGENATED PESTICIDES

Waste Class:	222
Waste Class Desc:	HEAVY FUELS
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS
Waste Class:	233
Waste Class Desc:	OTHER POLYMERIC WASTES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	243
Waste Class Desc:	PCBS
Waste Class:	113
Waste Class Desc:	ACID WASTE - OTHER METALS
Waste Class:	266
Waste Class Desc:	PHENOLIC WASTES
Waste Class:	231
Waste Class Desc:	LATEX WASTES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	254
Waste Class Desc:	TRANSFER STATION OILS WASTES
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	270
Waste Class Desc:	OTHER SPECIFIED ORGANICS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS

Site: CANADIAN NATIONAL RAILWAY
RAIL BA50 IN THE YARD TRAIN BRANTFORD CITY ON

Database:
SPL

Ref No:	96846	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	2/26/1994	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	40101
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	2/26/1994	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	UNKNOWN	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	CNR - BUNKER C TO RAIL BED FROM RESIDUE IN TANK CAR		
Contaminant Qty:			

Site: CANADIAN NATIONAL RAILWAY
TRAIN BRANTFORD CITY ON

Database:
SPL

Ref No:	93792	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	11/25/1993	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	40101
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	11/25/1993	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	EQUIPMENT FAILURE	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	C.N.R.-5.75 M3 DIESEL LOST OVER 80 KM OF TRACK,LEAKING VALVE ON LOCOMOTIVE.		
Contaminant Qty:			

Site: CANADIAN NATIONAL RAILWAY
BRANTFORD YARD OPPOSITE VIA STATION TRAIN BRANTFORD CITY ON

Database:
SPL

Ref No:	84940	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	5/2/1993	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	OTHER TRANSPORTATION ACCIDENT	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	

Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	40101
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	5/2/1993	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	UNKNOWN	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	CN RAIL - 12L SULPHURIC ACID TO SIDE OF CAR: SMALL QTY TO GROUND.		
Contaminant Qty:			

Site:	lot 42 con 3 ON	Database:	WWIS
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Well ID:	1305351	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Not Used	Date Received:	1/19/1999
Sec. Water Use:		Selected Flag:	TRUE
Final Well Status:	Abandoned-Other	Abandonment Rec:	
Water Type:		Contractor:	3030
Casing Material:		Form Version:	1
Audit No:	194440	Owner:	
Tag:		Street Name:	
Construction Method:		County:	BRANT
Elevation (m):		Municipality:	BRANTFORD TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	042
Well Depth:		Concession:	03
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10011966	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	
Code OB Desc:		North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	26-Oct-1998 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 930948341

Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 25.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961305351
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 10560536
Casing No: 1
Comment:
Alt Name:

Site:
con 2 ON

Database:
[WWIS](#)

Well ID: 1305471
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 201155
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 11/1/1999
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4207
Form Version: 1
Owner:
Street Name:
County: BRANT
Municipality: BRANTFORD TOWNSHIP
Site Info:
Lot:
Concession: 02
Concession Name: MPR E R
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10012086
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 21-May-1999 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock
Materials Interval

Formation ID: 930948829
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 89.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930948828
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930948830
Layer: 3
Color: 8
General Color: BLACK
Mat1: 26
Most Common Material: ROCK
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 89.0
Formation End Depth: 92.0
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961305471
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10560656
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930016815
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 92.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930016814
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 89.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991305471
Pump Set At:
Static Level: 30.0
Final Level After Pumping: 92.0
Recommended Pump Depth: 85.0
Pumping Rate: 15.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934887086
Test Type: Recovery
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934637642
Test Type: Recovery
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934091054
Test Type: Recovery
Test Duration: 15
Test Level: 33.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934373770
Test Type: Recovery
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Water Details

Water ID: 933439536
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 91.0
Water Found Depth UOM: ft

Site:

lot 42 con 3 ON

Database:
WWIS

Well ID: 1305350
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 194439
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/19/1999
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3030
Form Version: 1
Owner:
Street Name:
County: BRANT
Municipality: BRANTFORD TOWNSHIP
Site Info:
Lot: 042
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10011965
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 26-Oct-1998 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

**Overburden and Bedrock
Materials Interval**

Formation ID: 930948340
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961305350
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 10560535
Casing No: 1
Comment:
Alt Name:

Site:
con 3 ON

Database:
WWIS

Well ID: 1303106
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/12/1982
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3030
Form Version: 1
Owner:
Street Name:
County: BRANT
Municipality: BRANTFORD TOWNSHIP
Site Info:
Lot:
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10009743
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:

Cluster Kind:
Date Completed: 26-Aug-1982 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 930939591
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930939592
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930939593
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961303106

Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10558313
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930013934
Layer: 1
Material: 3
Open Hole or Material: CONCRETE
Depth From:
Depth To: 30.0
Casing Diameter: 36.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991303106
Pump Set At:
Static Level: 15.0
Final Level After Pumping:
Recommended Pump Depth: 28.0
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933435800
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 15.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

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

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System:

Provincial

[AMIS](#)

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private

[ANDR](#)

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

[AST](#)

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

[AUWR](#)

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

Government Publication Date: 1999-Sep 30, 2021

Borehole:

Provincial

[BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks:

Provincial CFOT

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

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

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors:

Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

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

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations:

Private CNG

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

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Jan 2022

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994 - Mar 31, 2022

Drill Hole Database:

Provincial

[DRL](#)

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

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial

[DTNK](#)

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

Government Publication Date: Feb 28, 2022

Environmental Activity and Sector Registry:

Provincial

[EASR](#)

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

Government Publication Date: Oct 2011- Feb 28, 2022

Environmental Registry:

Provincial

[EBR](#)

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

Government Publication Date: 1994 - Mar 31, 2022

Environmental Compliance Approval:

Provincial

[ECA](#)

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

Government Publication Date: Oct 2011- Feb 28, 2022

Environmental Effects Monitoring:

Federal

[EEM](#)

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

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

[EHS](#)

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

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System:

Federal

[EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial

EPAR

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2021

List of Expired Fuels Safety Facilities:

Provincial

EXP

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

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

Government Publication Date: Feb 28, 2022

Federal Convictions:

Federal

FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

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

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal

FRST

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

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial

FST

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

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

Government Publication Date: Feb 28, 2022

Fuel Storage Tank - Historic:

Provincial

FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial

HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

INC

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

Government Publication Date: Feb 28, 2022

Landfill Inventory Management Ontario:

Provincial

LIMO

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

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

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

Government Publication Date: 1846-Feb 2022

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

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

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal

NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

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

Federal

NPCB

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

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

Federal

NPRI

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

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

Private

OGWE

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

Government Publication Date: 1988-Feb 28, 2022**Ontario Oil and Gas Wells:**

Provincial

OOGW

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

Government Publication Date: 1800-Jan 2021**Inventory of PCB Storage Sites:**

Provincial

OPCB

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

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

Provincial

ORD

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

Government Publication Date: 1994 - Feb 28, 2022**Canadian Pulp and Paper:**

Private

PAP

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

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014**Parks Canada Fuel Storage Tanks:**

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

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

Government Publication Date: Oct 2011- 28 Feb 2022

Pipeline Incidents:

Provincial PINC

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

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks:

Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994 - Mar 31, 2022

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

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

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition:

Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Feb 2022

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory:

Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

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

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

Wastewater Discharger Registration Database:

Provincial

[SRDS](#)

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

Government Publication Date: 1990-Dec 31, 2019

Anderson's Storage Tanks:

Private

[TANK](#)

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

[TCFT](#)

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

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks:

Provincial

[VAR](#)

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

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory:

Provincial

[WDS](#)

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

Government Publication Date: Oct 2011- Feb 28, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

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

Government Publication Date: Sep 30, 2021

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX V
GOVERNMENT AND REGULATORY FILE INFORMATION

Search By

Location, Policy, PTTW Results

Map Legend

Filter Layers...

Filter

+ ☒ Background Map

+ ☒ Layers (scale dependant)

+ ☒ Other Layers

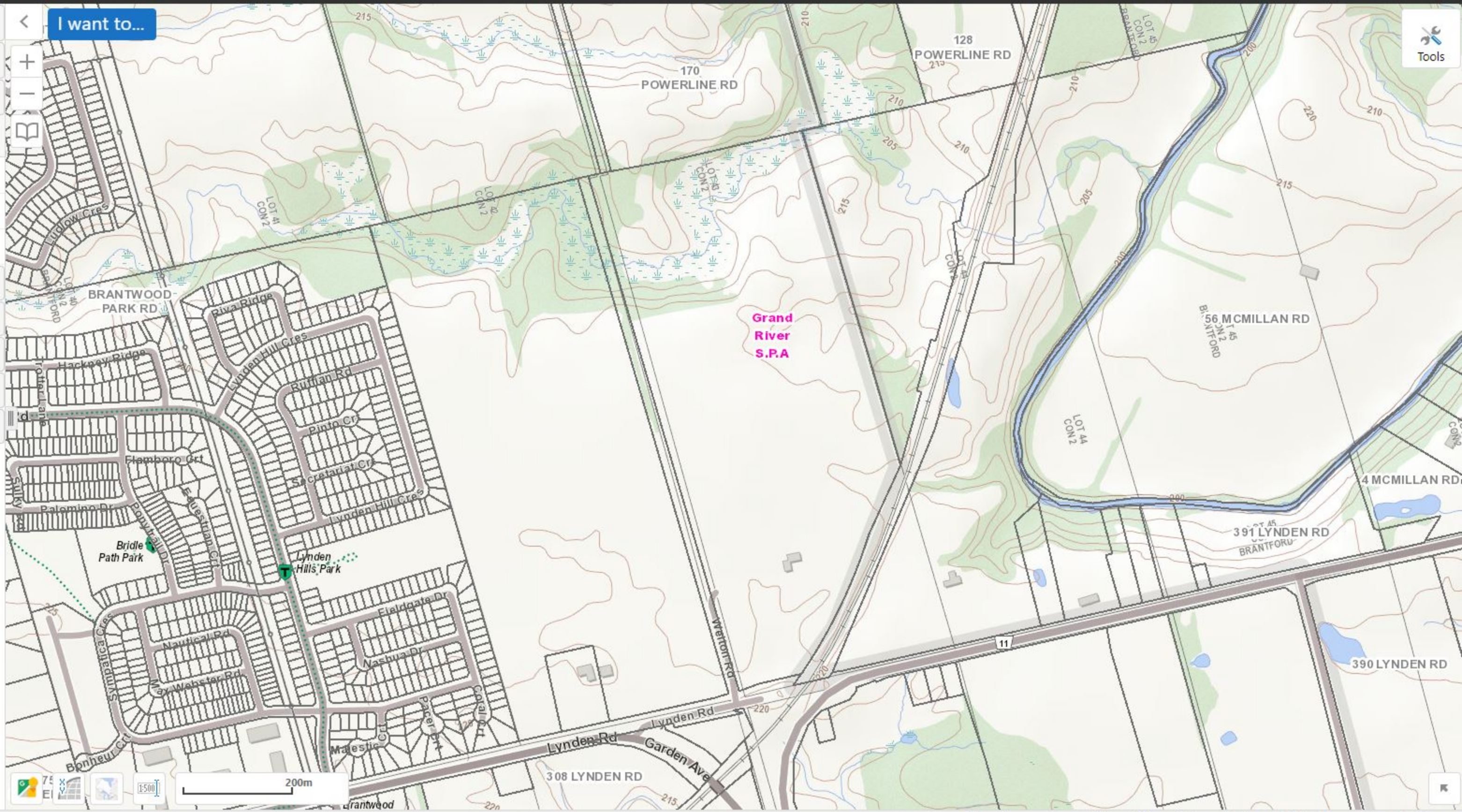
Climate Data

Provincial Water Quality Monitoring Network

Provincial Groundwater Monitoring Network

Help, Resources and Related Websites

About



- + Assessment Parcel
- + ANSI
- Wetland
 - Evaluated Wetland
 - Provincially Significant/considérée d'importance provinciale
 - Non-Provincially Significant/non considérée d'importance provinciale
 - Unevaluated Wetland
- Natural Heritage System
 - Natural Heritage System





Grand River Conservation Authority







Date: May 13, 2022

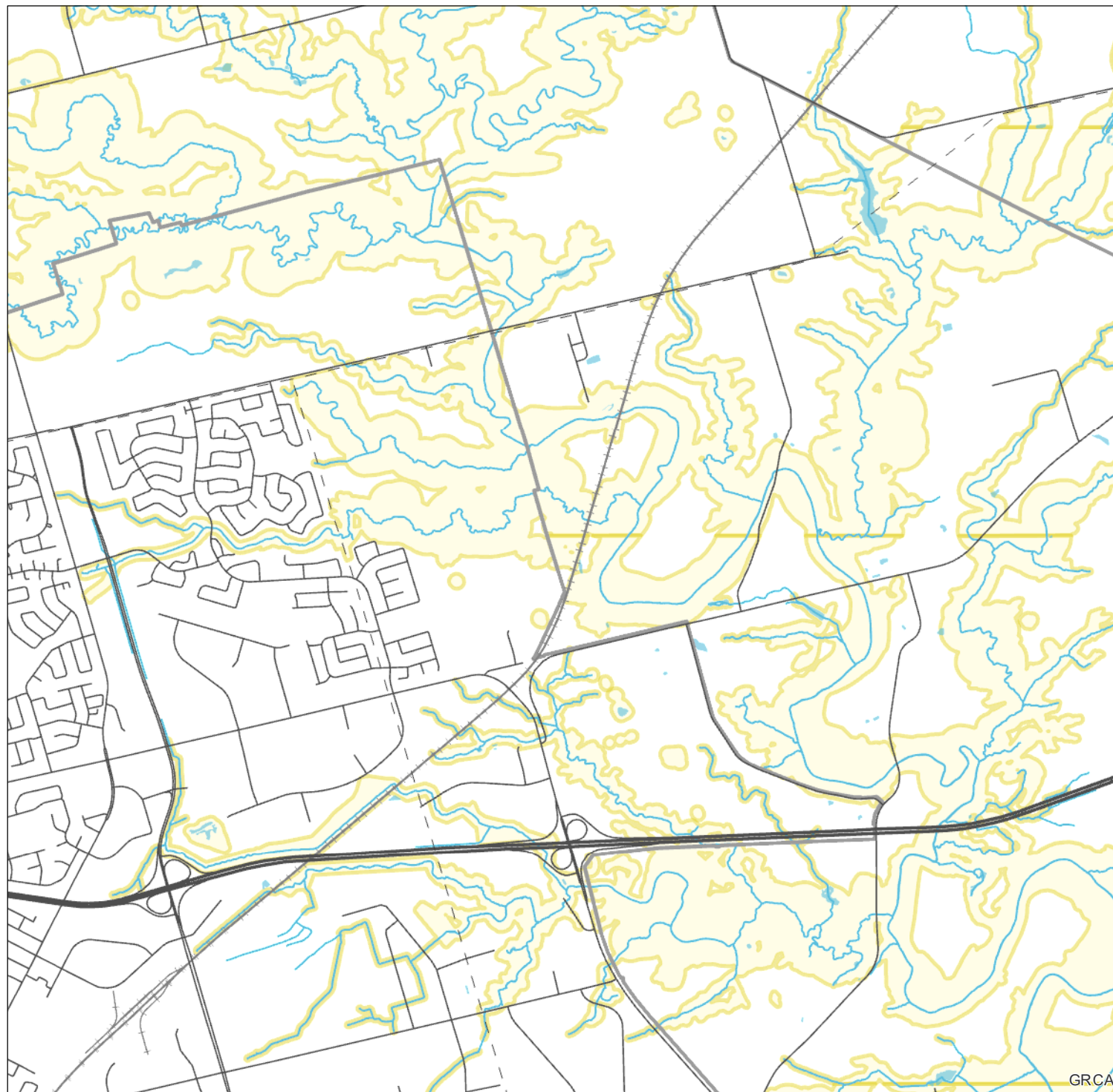
Author: CT3087.01

299 Lynden Road, Brantford

Regulation limits

Legend

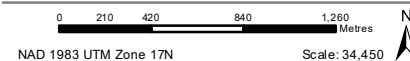
-  Municipal Boundary (GRCA)
-  Watercourse - Local (GRCA)
-  CA Boundary - Local (GRCA)
-  Waterbody - Local (GRCA)
-  Regulation Limit (GRCA)
-  Great Lakes - Local (GRCA)



Map Centre (UTM NAD83 z17): 563,928.31 4,781,519.03

This map is not to be used for navigation

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Disclaimer: This map is for illustrative purposes only. Information contained herein is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.
The source for each data layer is shown in parentheses in the map legend. For a complete listing of sources and citations go to: <https://maps.grandriver.ca/Sources-and-Citations.pdf>





Grand River Conservation Authority

Date: May 13, 2022

Author: CT3087.01

299 Lynden Road, Brantford

Wetland, ANSI, Woodland

Legend

Municipal Boundary (GRCA)

Watercourse - Local (GRCA)

Wetland (GRCA)

ANSI (ON)

Wetland (MNRF)

Provincially Significant

Locally Significant

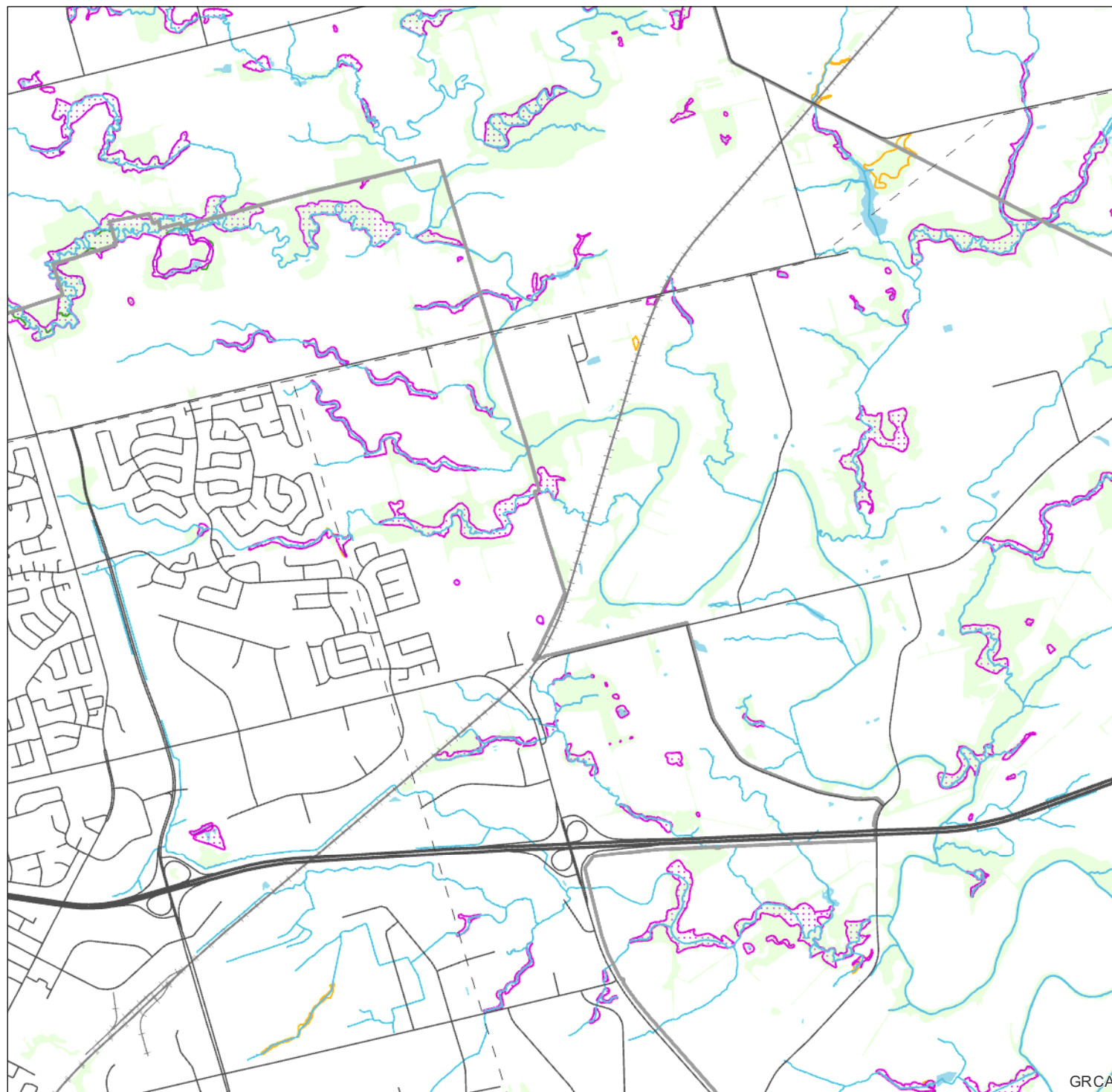
Unevaluated

CA Boundary - Local (GRCA)

Waterbody - Local (GRCA)

Wooded Area (MNRF)

Great Lakes - Local (GRCA)



Map Centre (UTM NAD83 z17): 563,928.31 4,781,519.03

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0 210 420 840 1,260 Metres
NAD 1983 UTM Zone 17N Scale: 34,450



Grand River
Conservation Authority


Date: May 13, 2022


Author: CT3087.01


299 Lynden Road, Brantford

Wellhead Protection and Intake Zones

Legend

 Surface Water Intake (GRCA)


 Municipal Boundary (GRCA)


 Watercourse - Local (GRCA)


IPZ Vulnerability (GRCA)


 10

 9 - 9.9

 8 - 8.9

 6 - 7.9 *

 4.1 - 5.9 *


 0.5 - 4.0 *

* IPZ3 are not displayed for this score range

IPZ-Intake Protection Zone (GRCA)

 IPZ-1

 IPZ-2

 IPZ-3 corresponding to Event Based Area

WHPA-Wellhead Protection Area (GRCA)

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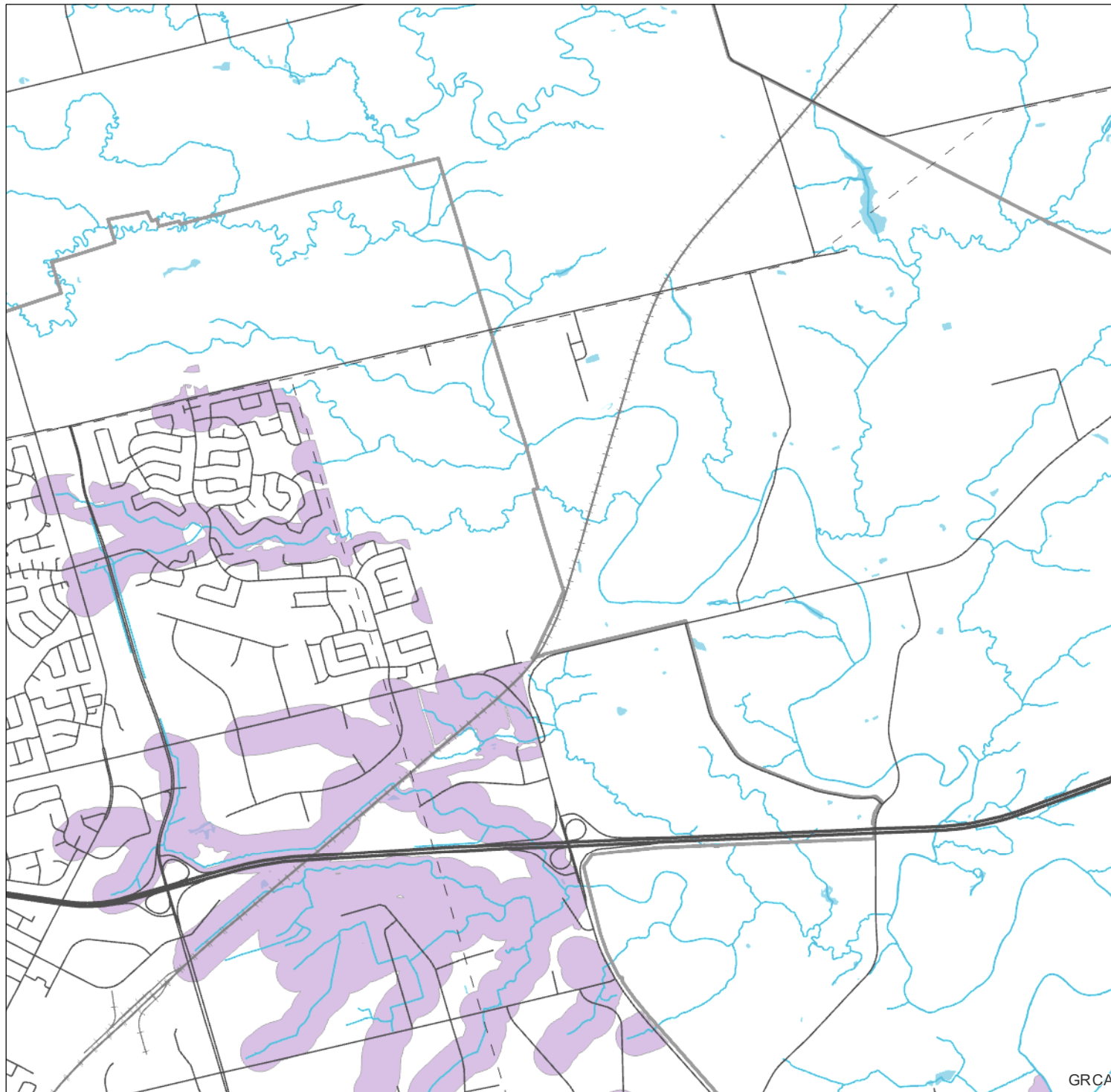
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0 210 420 840 1,260 Metres

NAD 1983 UTM Zone 17N

Scale: 34,450



Map Centre (UTM NAD83 z17): 563,928.31 4,781,519.03

This map is not to be used for navigation

GRCA

Ministry of Government and Consumer Services

Access or Correction Request

Freedom of Information and Protection of Privacy Act

Personal information contained on this form is collected under the *Freedom of Information and Protection of Privacy Act* and will be used to answer your request.

Questions about this collection should be directed to the Freedom of Information and Privacy Coordinator at the institution where you make the request.

Many records of public institutions are available to you without making a request under the *Freedom of Information and Protection of Privacy Act*. Contact the Freedom of Information and Privacy (FOIP) Coordinator at the institution that holds the records to determine whether you need to make a formal request.

Section A - Type of Request

Fields marked with an asterisk (*) are mandatory.

Check the box that indicates what you are requesting. (Records that do not contain personal information are general records.)

The FOIP Coordinator will contact you to verify your identity before giving you access to your own personal information or to secure proof that you have authority to act for another person if making a request for another person's personal information records (e.g., power of attorney, guardian or trusteeship order).

Type of Request *

- ☒ Access to general records (non-personal information)
- ☐ Access to own personal information
- ☐ Access to other's personal information by authorized party
- ☐ Correction of own personal information

Name of institution request made to *

Ministry of the Environment, Conservation and Parks

Freedom of Information and Privacy Coordinator Contact

Email Address: foi.mecp@ontario.ca

Telephone Number: 416-314-4075

Section B - Requester's Information

Fields marked with an asterisk (*) are mandatory.

Please ensure you have entered your name, mailing address, telephone and email address accurately.

Last Name *

Turi

First Name *

Olivia

Mailing Address

☒ Canada ☐ U.S.A. ☐ International

Unit Number

Street Number

Street Name

PO Box

65

Nebo Road

City/Town *

Hamilton

Province *

ON

Postal Code *

L8W 2C9

Telephone Number

Home

Mobile

Business

905-580-6355

ext.

Email Address *

o.turi@terrapex.com

Section C - Description of Records or Correction Requested

Fields marked with an asterisk (*) are mandatory.

Provide as much detail as possible about the requested general records, own personal information, other's personal information or correction of own personal information.

If you are requesting access to personal information, provide the name that appears on the records.

If you are requesting a correction of your own personal information, describe the personal information to be corrected. The Ministry of Environment, Conservation and Parks will contact you with next steps in the process.

Description of Records or Correction Requested *

The description of records or correction that you entered for this FOI eRequest has been removed for the purposes of this email to protect the security of any personal information that may have been included.

The institution that you selected has received the complete copy of the FOI eRequest inclusive of contents you entered in this field.

Time Period of the Records *

Specify the time period for the records as precisely as possible, e.g., from 2008/07/21 to 2009/11/30.

From (yyyy/mm/dd)

To (yyyy/mm/dd)

1985/01/01

2022/05/13

Method of Access *

Check a box to indicate whether you want to examine original documents (which may only be done on site) or receive copies.

☒ Receive copy

☐ Examine original (on site only)

Payment confirmation number: 23497285

Siratha Chhan

From: Olivia Turi
Sent: May 16, 2022 9:20 AM
To: Siratha Chhan
Subject: Fwd: Request for Information - CT3087.01

Sent from my iPhone

Olivia Turi, BES
Environmental Scientist



Office: 905 632 5939 ext 270
Mobile: 905 580 6355
Email: o.turi@terrapex.com

65 Nebo Road
Hamilton Ontario L8W 2C9
Canada

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Begin forwarded message:

From: Public Information Services <publicinformationservices@tssa.org>
Date: May 13, 2022 at 4:22:12 PM EDT
To: Olivia Turi <o.turi@terrapex.com>
Subject: RE: Request for Information - CT3087.01

Caution: This email originated from outside of the Terrapex Office365 Mail System. Do not click on a link or attachment unless you are absolutely sure that it is safe. Be extra vigilant with any internal emails that have this banner. Please report the email to spam@sysoft.ca or contact Sysoft Support via the regular support channel if you have doubts.

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at <https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?mid=392> and email the completed form to publicinformationservices@tssa.org along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Sherees



Public Information Agent

Facilities and Business Services

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationsservices@tssa.org

www.tssa.org



From: Olivia Turi <o.turi@terrapex.com>

Sent: May 13, 2022 12:17 PM

To: Public Information Services <publicinformationsservices@tssa.org>

Cc: Siratha Chhan <s.chhan@terrapex.com>

Subject: Request for Information - CT3087.01

[CAUTION]: This email originated outside the organisation.

Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good Afternoon,

Terrapex Environmental Ltd. is conducting an Environmental Site Assessment for the property located at **299 Lynden Road, Brantford, Ontario.**

Please inform if the TSSA has any available on-file information with regards to this site and any of the surrounding addresses listed below. If you have any questions, or need more details regarding the site location, please let me know.

-299 Lynden Road, Brantford, ON

-253 Lynden Road, Brantford, ON

-260 Lynden Road, Brantford, ON

-274 Lynden Road, Brantford, ON

-326 Lynden Road, Brantford, ON

-11 Roy Boulevard, Brantford, ON

Thank you for your help and have a great day,

Olivia

Olivia Turi, BES
Environmental Scientist

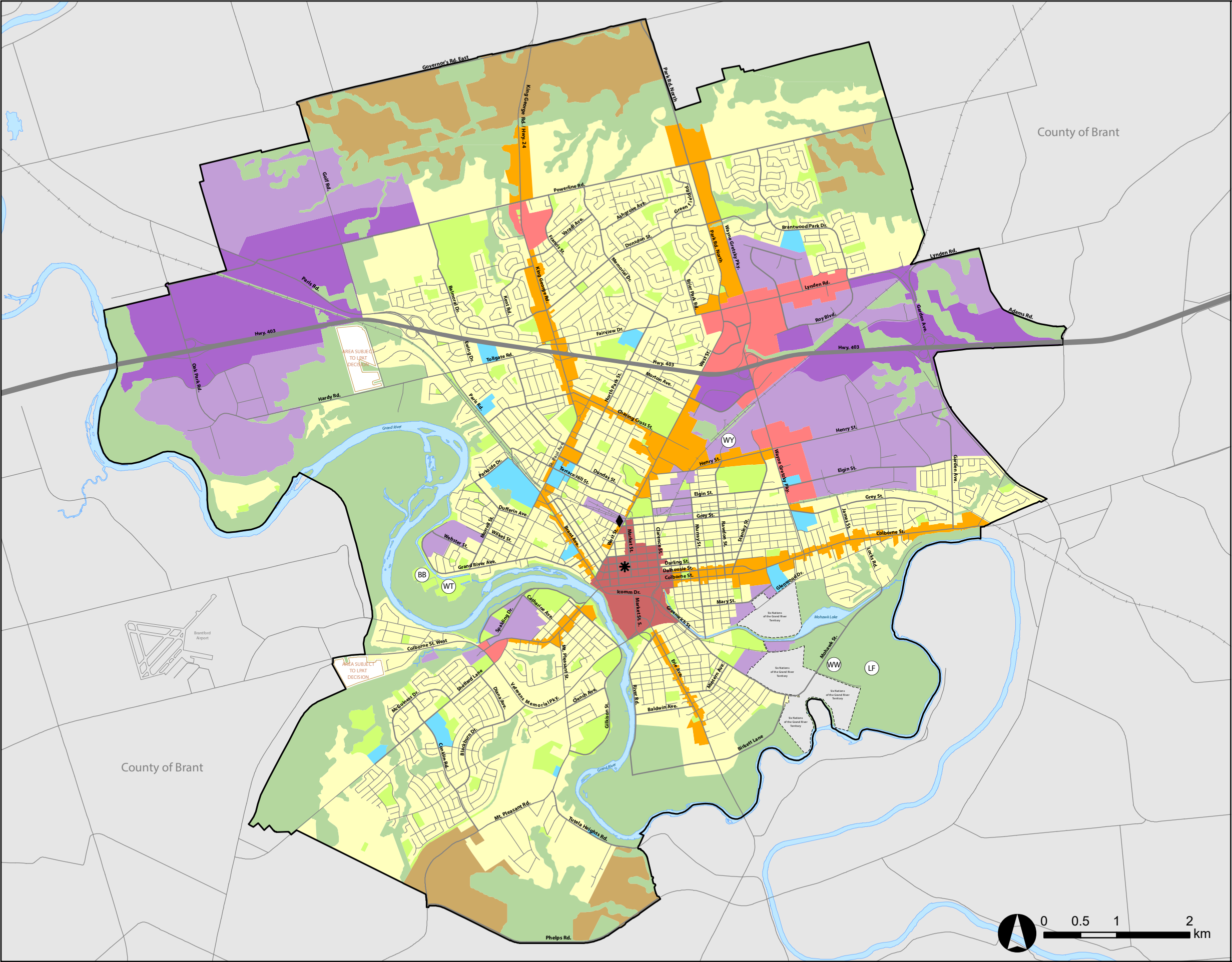


Office: 905 632 5939 ext 270
Mobile: 905 580 6355
Email: o.turi@terrapex.com

65 Nebo Road
Hamilton Ontario L8W 2C9
Canada

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City of Brantford
Official Plan

Schedule 3

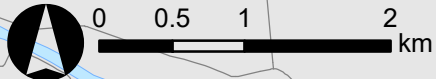
Land Use Plan

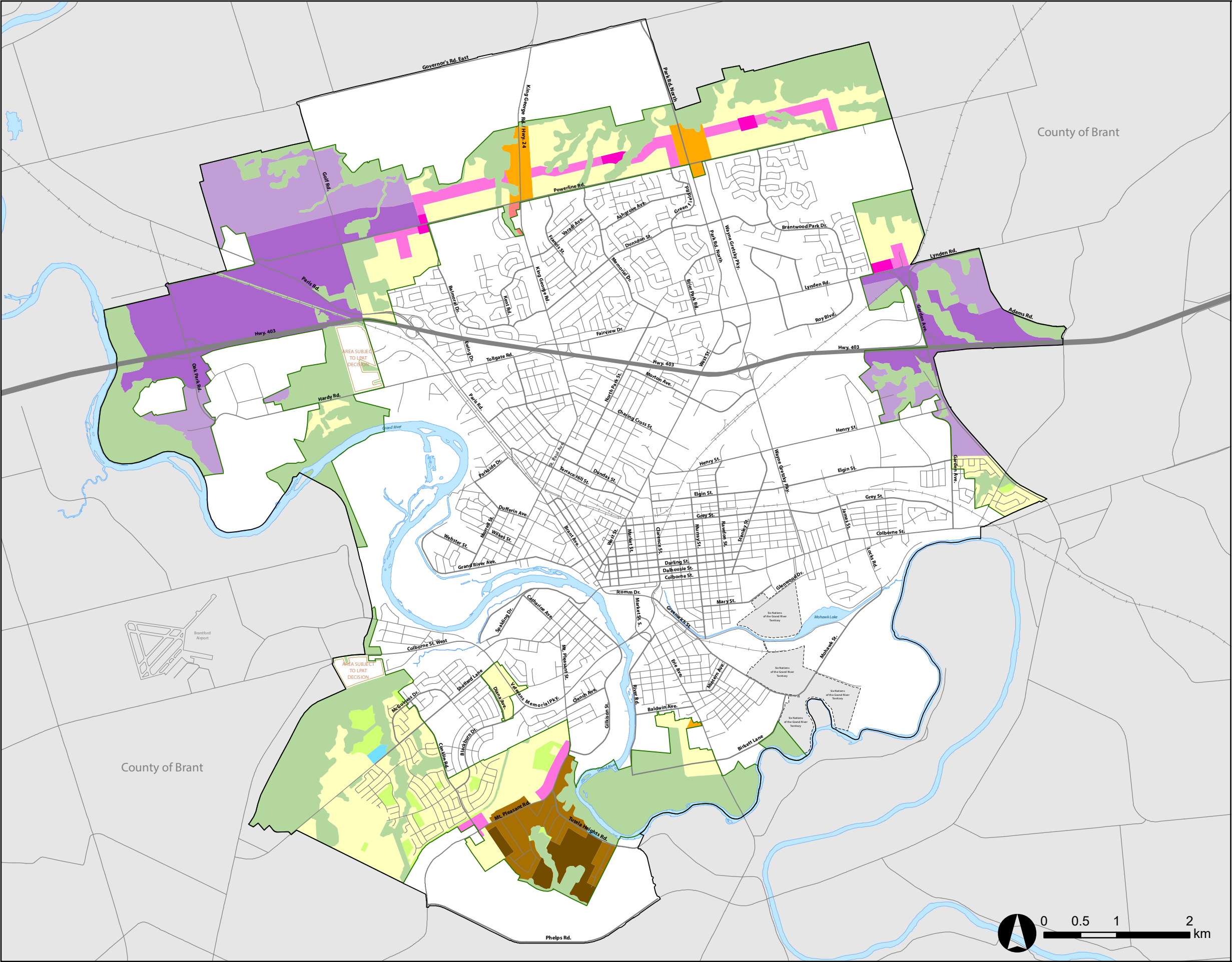
Legend

- Agricultural Designation
- Core Natural Areas Designation
- Neighbourhoods**
- Residential Designation
- Major Institutional Designation
- Parks and Open Space Designation
- Strategic Growth Areas**
- Downtown Urban Growth Centre Designation
- Major Commercial Centre Designation
- Intensification Corridor Designation
- Employment Areas**
- Prestige Employment Designation
- General Employment Designation

Symbols

- LF Sanitary Landfill Site
- WT Water Treatment Facility
- WW Wastewater Treatment Facility
- WY Municipal Works Yard
- BB Transit Bus Barns
- ✱ Downtown Transit Terminal
- ◆ VIA Rail Station



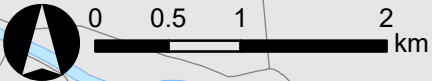


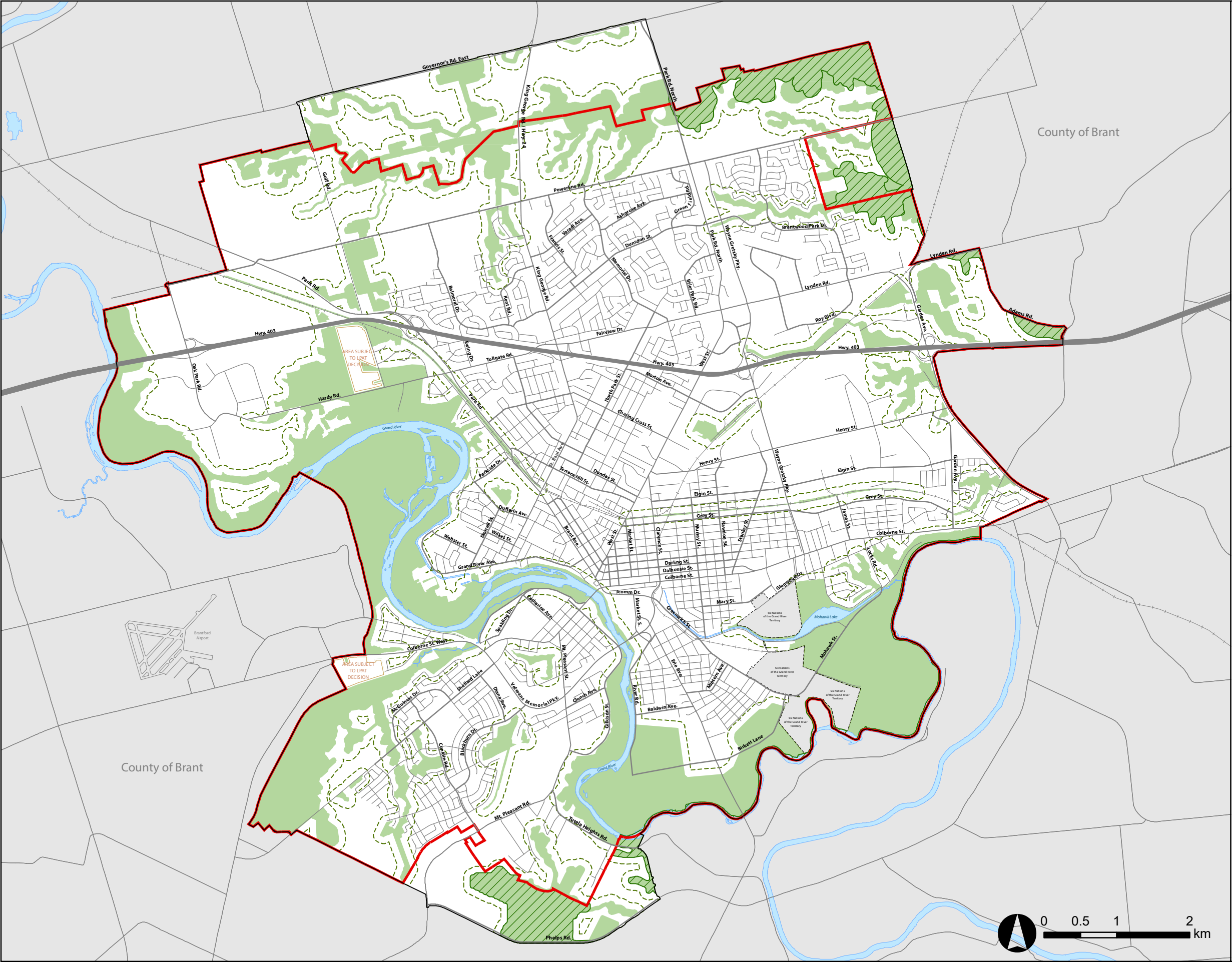
City of Brantford
Official Plan

Schedule 4

Designated Greenfield Area Structure

- Legend**
- Designated Greenfield Area
 - Core Natural Areas Designation
 - Residential Designation
 - Neighbourhood Centre
 - Neighbourhood Corridor
 - Suburban Residential
 - Transitional Residential
 - Major Institutional Designation
 - Parks and Open Space Designation
 - Major Commercial Centre Designation
 - Intensification Corridor Designation
 - General Employment Designation
 - Prestige Employment Designation



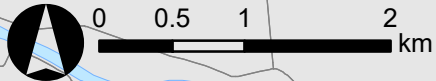


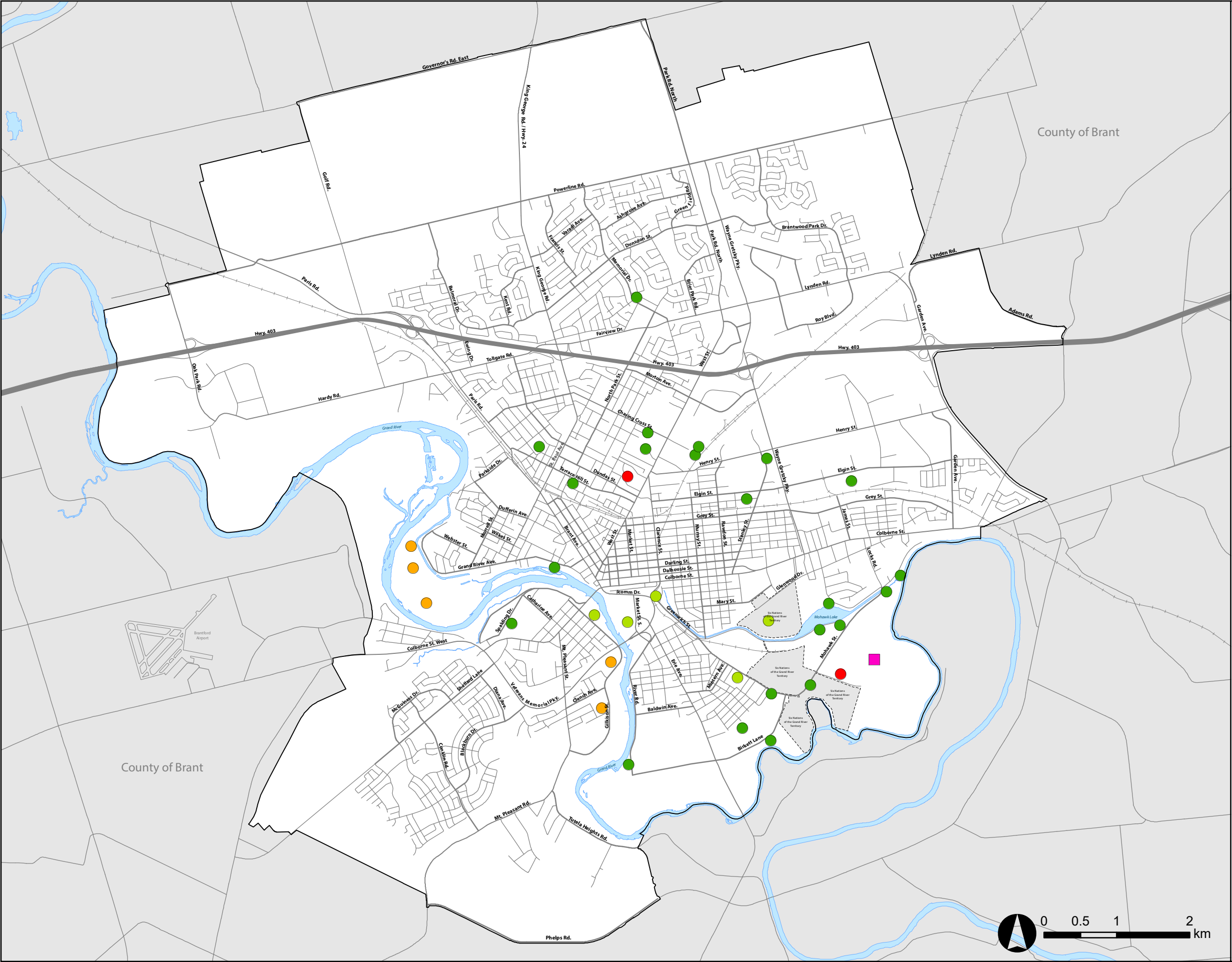
City of Brantford
Official Plan

Schedule 6

Natural Heritage System

- Legend**
- Core Natural Areas Designation
 - Adjacent Lands Overlay (90 m)
 - Growth Plan Natural Heritage System
 - Settlement Area Boundary






City of Brantford
Official Plan

Schedule 8

Abandoned Landfill Sites

Legend

Active Landfill Sites

 Landfill Site

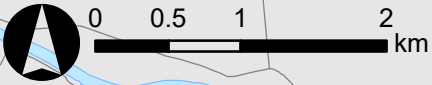
Abandoned Landfill Sites

 Category 1

 Category 2

 Category 3

 Category 4



APPENDIX VI
AERIAL PHOTOGRAPHS AND SATELLITE IMAGES


SITE

0 50 100 200
Meters

DATA SOURCE: ESRI
IMAGERY SOURCE: ERIS

PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE VI-1	



1951 AERIAL PHOTOGRAPH

299 LYNDEN ROAD
BRANTFORD, ONTARIO

CLIENT

WELTON & INNES
LIMITED PARTNERSHIP



SITE

0 50 100 200
Meters

DATA SOURCE: ESRI
IMAGERY SOURCE: ERSI

PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE VI-2	


SITE

 0 50 100 200
 Meters

 DATA SOURCE: ESRI
 IMAGERY SOURCE: ERSI

PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE VI-3	


SITE

 0 50 100 200
 Meters

 DATA SOURCE: ESRI
 IMAGERY SOURCE: ERSI

PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE VI-4	


SITE

0 50 100 200
Meters

DATA SOURCE: ESRI
IMAGERY SOURCE: ERIS

PROJECT # CT3087.01	
DATE MAY 2022	
DRAWN SW	CHECKED SC
DRAWING # FIGURE VI-5	


SITE

0 50 100 200
Meters

DATA SOURCE: ESRI
IMAGERY SOURCE: GOOGLE EARTH

PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE VI-6	



2010 AERIAL PHOTOGRAPH

299 LYNDEN ROAD
BRANTFORD, ONTARIO

CLIENT

WELTON & INNES
LIMITED PARTNERSHIP



SITE

0 50 100 200
Meters

PROJECT #
CT3087.01

DATE
MAY 2022

DRAWN SW	CHECKED SC
-------------	---------------

DRAWING #
FIGURE VI-7

DATA SOURCE: ESRI
IMAGERY SOURCE: MAPCAST MAPPING SERVICES


SITE

0 50 100 200
Meters

DATA SOURCE: ESRI
IMAGERY SOURCE: GOOGLE EARTH

PROJECT #	
CT3087.01	
DATE	
MAY 2022	
DRAWN	CHECKED
SW	SC
DRAWING #	
FIGURE VI-8	

APPENDIX VII
TOPOGRAPHIC AND ONTARIO BASE MAPS



SITE

0 50 100 200
Meters

PROJECT #
CT3087.01

DATE
MAY 2022

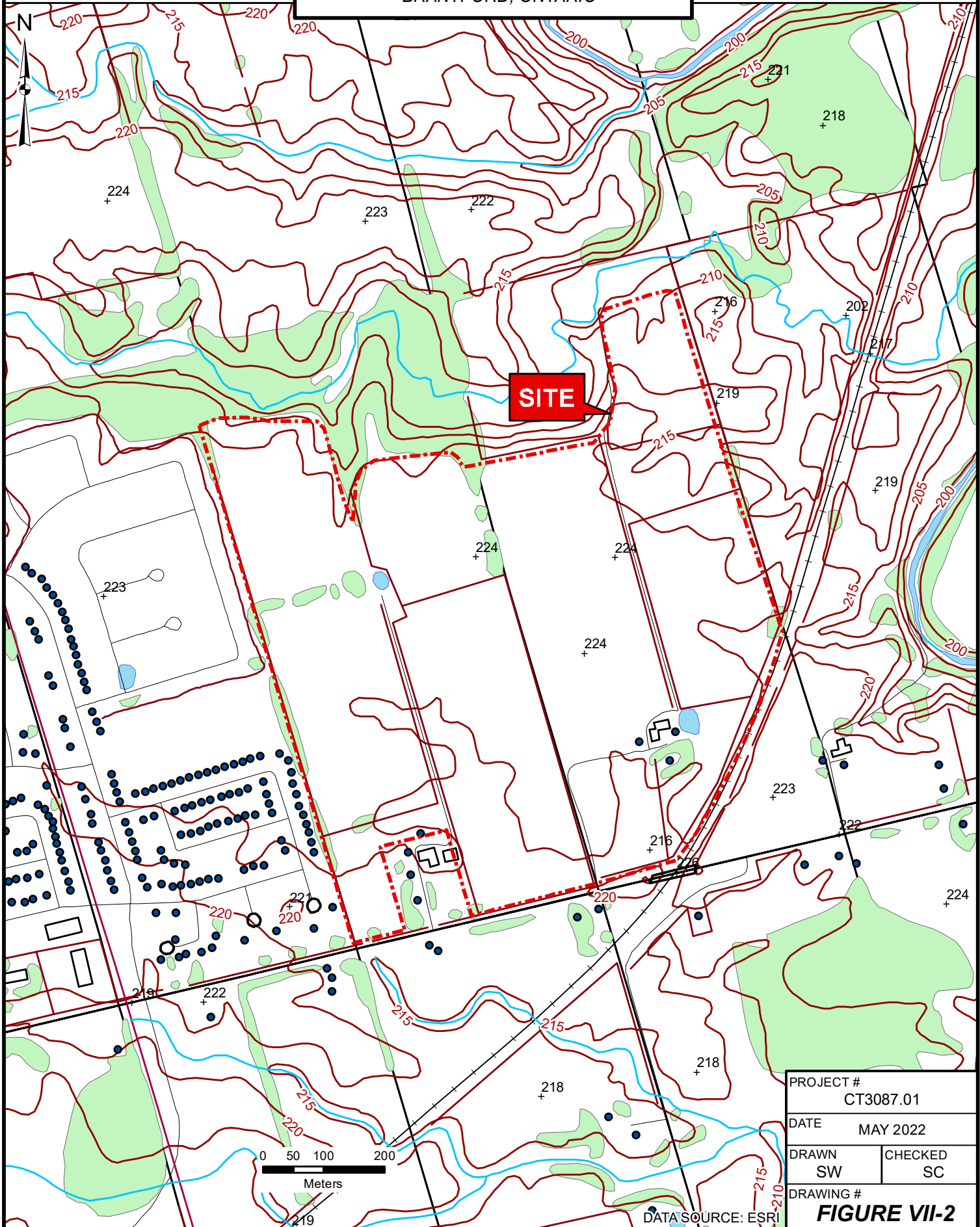
DRAWN
SW

CHECKED
SC

DRAWING #

FIGURE VII-1

DATA SOURCE: ESRI



PROJECT #
CT3087.01

DATE
MAY 2022

DRAWN
SW

CHECKED
SC

DRAWING #

FIGURE VII-2

APPENDIX VIII
SITE PHOTOGRAPHS



PHOTOGRAPHIC LOG

Page 1 of 7

Client: Welton & Innes
Limited Partnership

Site Location: 299 Lynden Road, Brantford

Project No: CT3087.01

Photo No: 1

Date: May 13, 2022

Viewing Direction:
North

Description:

View of the Welton Road
access to the property.



Photo No: 2

Date: May 13, 2022

Viewing Direction:
Northeast

Description:

View of the metal structure
at the end of the Welton
Road access.





PHOTOGRAPHIC LOG

Page 2 of 7

Client: Welton & Innes
Limited Partnership

Site Location: 299 Lynden Road, Brantford

Project No: CT3087.01

Photo No: 3

Date: May 13, 2022

Viewing Direction:
East

Description:

View of interior of structure. Note the containers of motor oil along the wall.



Photo No: 4

Date: May 13, 2022

Viewing Direction:
South

Description:

View of drum inside the structure. Contents are unknown.



Client: Welton & Innes
Limited Partnership

Site Location: 299 Lynden Road, Brantford

Project No: CT3087.01

Photo No: 5

Date: May 13, 2022

Viewing Direction:
Northwest

Description:

More drums and empty motor oil containers inside the structure.



Photo No: 6

Date: May 13, 2022

Viewing Direction:
South

Description:

View of broken-down school bus located north of the structure.





PHOTOGRAPHIC LOG

Page 4 of 7

Client: Welton & Innes
Limited Partnership

Site Location: 299 Lynden Road, Brantford

Project No: CT3087.01

Photo No: 7

Date: May 13, 2022

Viewing Direction:
West

Description:

View of full drum and motor parts and debris adjacent northeast of the structure.



Photo No: 8

Date: May 13, 2022

Viewing Direction:
Northeast

Description:

View of former structures northeast of the metal structure.





PHOTOGRAPHIC LOG

Page 5 of 7

Client: Welton & Innes
Limited Partnership

Site Location: 299 Lynden Road, Brantford

Project No: CT3087.01

Photo No: 9

Date: May 13, 2022

Viewing Direction:
North

Description:

View of monitoring well located west of the pond area in the southeast portion of the property.



Photo No: 10

Date: May 13, 2022

Viewing Direction:
Northwest

Description:

View of stream running northwest/southeast through central portion of the property.





PHOTOGRAPHIC LOG

Page 6 of 7

Client: Welton & Innes
Limited Partnership

Site Location: 299 Lynden Road, Brantford

Project No: CT3087.01

Photo No: 11

Date: May 13, 2022

Viewing Direction:
South

Description:

View of four ASTs and several piles of soil at 326 Lynden Road, south of the site.



Photo No: 12

Date: May 13, 2022

Viewing Direction:
Southeast

Description:

View of train tracks adjacent to the southeast property boundary.





PHOTOGRAPHIC LOG

Page 7 of 7

Client: Welton & Innes
Limited Partnership

Site Location: 299 Lynden Road, Brantford

Project No: CT3087.01

Photo No: 13

Date: May 13, 2022

Viewing Direction:
North

Description:

View of tributary of
Fairchild Creek adjacent
north of the site.



Photo No: 14

Date: May 13, 2022

Viewing Direction:
West

Description:

View of Site and adjacent
residential properties to
the west.



APPENDIX IX
PHASE ONE CONCEPTUAL SITE MODEL

PHASE ONE CONCEPTUAL SITE MODEL

The Phase One Conceptual Site Model (CSM) showing the potentially contaminating activities (PCAs) is presented on Figure 4, and the Areas of Potential Environmental Concern (APECs) are presented on Figure 5. A summary of the CSM is provided below.

The Site is located at the intersection of Welton Road and Lynden Road. The majority of the Site is used for agricultural purposes, with the exception of a steel structure in the southeast portion of the Site. The Site is bounded by residential properties to the west, a tributary of Fairchild Creek and forested land to the north and forested land to the east, CN railway to the southeast, Lynden Road, commercial and residential properties to the south. Welton Road road allowance runs north/south along the middle of the Site. There's a wetland/pond area in the west side of the Site and southeast portion of the site. A small stream also runs northwest to southeast through the middle of the Site.

The Site is currently owned by Welton & Innes G.P. Inc. and is used for agricultural purposes. Based on the historical review, the site has always been used for agricultural purposes.

Potentially Contaminating Activities: The following PCAs, as listed in Table 2 of Schedule D of O. Reg. 153/04, were identified on or potentially affecting the Site, per below:

POTENTIALLY CONTAMINATING ACTIVITIES ON, IN OR UNDER THE PHASE ONE PROPERTY

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	DESCRIPTION	SOURCE/ REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 1	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Current and historical use of the site for agricultural purposes	Aerial photographs Site inspection Interviews	Yes	Low
PCA 2	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	The structure was vacant/abandoned however unidentified drums and oil containers were observed inside the building during the site inspection.	Site inspection	Yes	Low

POTENTIALLY CONTAMINATING ACTIVITIES WITHIN THE PHASE ONE STUDY AREA

PCA ¹	POTENTIALLY CONTAMINATING ACTIVITY ²	ADDRESS/ LOCATION	DESCRIPTION	SOURCE/ REFERENCE	LIKELIHOOD TO CONTRIBUTE TO AN APEC ³	UNCERTAINTY
PCA 3	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Adjacent properties to west	Former use of these lands for agricultural purposes.	Aerial photographs	Yes	Moderate
PCA 4	46 - Rail Yards, Tracks and Spurs	Adjacent to the southeast	CN railway visible since 1945.	Aerial photograph Site inspection	Yes	Moderate
PCA 5	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	347 Lynden Road / 50 m southeast	Current and historical use of the site for agricultural purposes.	Aerial photograph Site inspection	Yes	Moderate
PCA 6A	30 - Importation of Fill Material of Unknown Quality	347 Lynden Road / 45 m southeast	Soil fill piles visible in construction yard.	Site inspection	Yes	Moderate
PCA 6B	30 - Importation of Fill Material of Unknown Quality	No municipal address / 45 m south	Soil fill piles visible which appears to be associated with 347 Lynden Road construction yard.	Site inspection	Yes	Moderate
PCA 7	28 - Gasoline and Associated Products Storage in Fixed Tanks	347 Lynden Road / 50 m southeast	Four ASTs observed on construction yard.	Site inspection	Yes	Moderate
PCA 8	10 - Commercial Autobody Shops	294 Lynden Road / 45 m southwest	Historical use of the site as a commercial autobody shop.	Site inspection	Yes	Moderate
PCA 9	55 - Transformer Manufacturing, Processing and Use	Adjacent to the south	A pole-mounted transformer is present adjacent to 347 Lynden Road.	Site inspection ERIS	No – no staining observed	Low

Overall, a total of nine PCAs were identified on the Phase One property and within the Phase One Study Area, of which eight may be contributing to an area of potential environmental concern (APECs) at the Site.

Areas of Potential Environmental Concern: As a result of the PCAs identified and other considerations, the following APECs were identified at the Site:

APEC ¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY ²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN ³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 1	Entire property	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site	OCPs	Soil Groundwater
APEC 2	Southeastern portion of property	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	On-Site	BTEX PHCs VOCs PAHs Metals	Soil Groundwater
APEC 3	Along western property boundary	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-Site	OCPs	Groundwater
APEC 4	Along southeastern property line	46 - Rail Yards, Tracks and Spurs	Off-Site	Metals SVOCs	Groundwater
APEC 5	Along southeastern property line	40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-Site	OCPs	Groundwater

APEC¹	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY²	LOCATION OF PCA (ON-SITE or OFF-SITE)	CONTAMINANTS OF POTENTIAL CONCERN³	MEDIA POTENTIALLY IMPACTED (Ground water, Soil, and/or Sediment)
APEC 6A	Along southern property line	30 - Importation of Fill Material of Unknown Quality	Off-Site	BTEX PHCs VOCs PAHs Metals Metals, Hydride-Forming Calcium and Magnesium Other Regulated Parameters (ORPs) Sodium	Groundwater
APEC 6B	Along southern property line	30 - Importation of Fill Material of Unknown Quality	Off-Site	BTEX PHCs VOCs PAHs Metals Metals, Hydride-Forming Calcium and Magnesium Other Regulated Parameters (ORPs) Sodium	Groundwater
APEC 7	Along southeastern property line	28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	BTEX PHCs	Groundwater
APEC 8	Along southwestern property line	52 - Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-Site	BTEX PHCs VOCs PAHs Metals	Groundwater

Contaminants of Potential Concern:

The Contaminants of Potential Concern (COPCs) associated with the APECs are as follows:

- ***BTEX***
- ***PHCs***
- ***VOCs***
- ***PAHs***

- **OCPs**
- **SVOCs**
- **Metals**
- **Metals, Hydride-Forming**
- **Calcium and Magnesium**
- **Other Regulated Parameters (ORPs)**
- **Sodium**

Underground Utilities:

In general, potential migration pathways for subsurface contaminants at the Site would consist of buried services or remnants of former buried services. However, no such pathways have been identified during the study.

Geology/Hydrogeology:

Available regional or site specific geological and hydrogeological information are summarized below:

SUMMARY OF TOPOGRAPHY, HYDROLOGY AND GEOLOGY

SITE FEATURE	DESCRIPTION / DETAILS
REGIONAL TOPOGRAPHY	Site is uneven but generally slopes to the southeast
APPROX ELEVATION (masl)	220
PHYSIOGRAPHIC REGION	The Site and Phase One Study Area are located in the physiographic region known as the Norfolk Sand Plains, which consists of sand plains.
OVERBURDEN SOIL STRATIGRAPHY	Silt and clay, minor sand; locally overlain by veneer of sand and low permeability.
BEDROCK AND APPROXIMATE DEPTH	Upper Silurian to lower Devonian sandstone, shale, dolostone, and siltstone of the Guelph Formation and is anticipated to be more than 40 m below grade (bg)

SUMMARY OF WATER BODIES, AREAS OF NATURAL SIGNIFICANCE, GROUNDWATER INFORMATION

FEATURE	WITHIN PHASE ONE PROPERTY	WITHIN PHASE ONE STUDY AREA	DESCRIPTION/ DETAILS
WATER BODY	YES	YES	Ponds located in the central and southeast portion of the site. A stream also runs northwest to southeast through the central portion of the site. A tributary of Fairchild Creek also runs adjacent to the north of the site.
ANSI	NO	NO	N/A
WELL-HEAD PROTECTION AREA	NO	NO	N/A
MUNICIPAL DRINKING WATER SYSTEM	NO	NO	N/A
WELL FOR CONSUMPTION/ AGRICULTURAL USE	Yes	NO	Irrigation well from 1947 105 m east of the Site

Uncertainty on absence of information: The main uncertainty associated with the CSM developed for the site relates to the limited information regarding the former use of the Site as well as the limited information regarding activities on neighbouring properties. This lack of information is mitigated by the inherent nature of residential land uses, which are not typically associated with significant PCAs.

Notwithstanding the above, it should be noted that Phase One ESAs have inherent limitations, and therefore findings cannot be considered definitive (i.e., the findings of a Phase One ESA are inherently associated with some uncertainty).

APPENDIX X
QUALIFICATIONS OF THE ASSESSORS

Position: Branch Manager and Senior Project Manager, Burlington Office

Qualifications: Professional Geoscientist (P.Geo.)
QP_{ESA}
B.Sc. Biology and Environmental Studies

Experience:

Terrapex Environmental Ltd.	2000 to present
Conor Pacific Environmental Technologies Inc.	1996 to 2000
Arcturus Environmental Limited	1990 to 1996

Mr. Stevenson's experience includes managing and conducting Phase I, II, and III ESAs, contaminant management plans, site decommissioning, and site remediation projects, many of which have been completed in support of filing of Records of Site Condition. He has detailed knowledge of guidelines and regulations, and assessment/remediation technologies, having designed and implemented a diverse range of projects. Mr. Stevenson has also provided testimony as expert witness and has aided in development of municipal regulations. Mr. Stevenson has considerable expertise liaising with First Nations, Tribal Councils, and municipal, provincial, and federal agency and entities, having conducted environmental projects for clients involving all levels of government and the private sector. Mr. Stevenson is a QP_{ESA} registered with the MECP and has filed over 100 Records of Site Condition from 1995 to present, some of which have involved risk assessment.

Mr. Stevenson is also the Senior Manager/Primary Contact on the Preferred Supplier Agreement Terrapex has with Suncor Inc. (formerly Petro-Canada), whereby Terrapex provides environmental consulting services for the assessment, decommissioning, and remediation of petroleum retail outlets and storage/distribution facilities across Ontario. Some of his other past and present clients include Mattamy Homes Inc., Pioneer Petroleums, BG Fuels, Transport Canada, PWGSC, Craft Developments, City of Mississauga, City of Burlington, Clarkway Construction, Bensimon Developments, Timbercreek Homes, Valmont Industries, and many other property developers and private land owners.

Representative projects include the following:

CN Real Estate: Phase I assessments of approximately 6 Rail Yard Sites in Ontario.

Public Works and Government Services Canada/Department of Fisheries and Oceans: Phase I assessments of 40 Canada Coast Guard, Marine Communications and Search and Rescue Sites in Ontario.

Suncor Energy Products Partnership: Ontario Regulation 153/04 compliant Phase One and Two ESAs and remedial programs to support filing of Records of Site Conditions at retail fuel outlet properties at approximately 50 sites in Ontario.

Clarkway Construction Company: Ontario Regulation 153/04 compliant Phase One ESAs to support filing of Records of Site Conditions at various development properties at approximately 10 sites in Ontario.

CRAFT Developments Corp.: Ontario Regulation 153/04 compliant Phase One and Two ESAs and remedial programs to support filing of Records of Site Conditions at various commercial development properties at approximately 5 sites in Ontario.

Mattamy Homes Inc.: Phase One ESAs to support filing of Records of Site Conditions at various residential development properties at approximately 20 sites in Ontario.

Private: Phase I assessments of approximately 150 residential, commercial, and industrial sites for various private clients.

Suncor Energy Products Partnership (formerly Petro-Canada): Senior Manager and contact for preferred supplier agreement: Project manager for 600+ Phase II ESAs, Designated Substance Surveys, Site Decommissioning, and Site Remediations at retail and wholesale petroleum storage and distribution facilities.

Quadra FNX Mining Ltd.: Senior Project Manager for historical research and environmental assessment of abandoned 19th century remote mine site and preparation of mine hazard inventory.

City of Mississauga: Senior Project Manager for 5 environmental site assessments including risk assessment and development and implementation of risk management plans for flyash deposits or fill materials in City park lands.

Sun-Canadian Pipe Line Company: Senior Project Manager for monitoring and assessment of systems at several pipe line valve sites and pump stations.

Public Works and Government Services Canada/Department of Fisheries and Oceans: Project Manager for Phase II assessments of 4 Canada Coast Guard, Marine Communications and Light station Sites in Ontario.

CP Rail: Field Supervisor for assessments of soil and groundwater at 8 major rail yards and subdivision in Ontario.

CN Real Estate: Field Supervisor for assessments of soil and groundwater at two major rail yards in Ontario.

Department of National Defence/Public Works Canada: Field Supervisor for an assessment of fuel oil contaminated soil at approximately 300 military housing facilities at CFB Borden.

Transport Canada: Project Manager for assessment of soil and groundwater at approximately 13 NDB and airport sites in Ontario.

Hydro One Remotes: Project Manager for assessment of soil and groundwater at a diesel generating station in Kingfisher Lake, Ontario, including remedial options feasibility study qualitative risk assessment, and development of a remedial action plan.

City of Mississauga: Preparation of Site Sensitivity Analysis for street sweepings dump sites, consultation with the City, and Phase II ESAs at two of the receiving properties.

Public Works and Government Services Canada/Department of Fisheries and Oceans: Project Manager for storage tank audits at 25 Canada Coast Guard, Marine Communications, Search and Rescue, and Light station Sites in Ontario.

Public Works and Government Services Canada/Department of Fisheries and Oceans: Project Manager for halocarbon surveys at 30 Canada Coast Guard, Marine Communications, Search and Rescue, and Light station Sites in Ontario.

Records of Site Condition: Approximately 100 Records of Site Condition prepared, submitted to and acknowledged by the MOEE, MOE, MOECC, or MECP since 1995 for various clients.

City of Burlington: Advised City of Burlington Engineering Staff and Council regarding fill issues at Burlington Executive Airpark, and provided expert witness testimony on behalf of the City for two related court actions.

Clarkway Construction: Completed Phase One and Two ESAs, and large scale site remediation using ex-situ and in-situ techniques, and Record of Site Conditions for two former industrial sites in Etobicoke.

Position: Project Manager, Hamilton Office

Qualifications: Niagara College: Environmental Technician (Field & Lab) – Diploma
ECO Canada Environmental Professional (EP) – *Site Assessment and Reclamation*

Experience:

Terrapex Environmental Ltd.	August 2007 – present
The City of Hamilton – Public Health	April 2007 – August 2007
The City of Hamilton – Waste Management	Jan 2006 – September 2006
The Region of Niagara – Water and Waste Water	April 2005 – Sep 2005

Mr. Chhan graduated from Niagara College in 2007 with an Environmental Technician Diploma. He has been employed in the environmental industry for 14 years, and his experience includes conducting Phase I, II, and III ESAs, monitoring programs, storage tank removal programs, retail outlet decommissioning, and site remediation projects. Office duties include data input and interpretation, reporting, editing site drawings, and co-ordination of projects.

Representative projects include the following:

Suncor Energy Products Partnership: Management of Contaminant Management Plans. Completion of Phase I/II ESAs and site decommissioning on several sites across Southern Ontario. Tasks included supervision of drilling for soil samples and monitoring well installations and obtaining groundwater samples from newly installed wells. Supervised the decommissioning of underground storage tanks, or piping upgrades, and/or the removal of contaminated soil at numerous retail petroleum outlets across Ontario. Assisted with management and treatment of groundwater contamination at 2 sites in Ontario.

Public Works Government Services of Canada: Supervised drilling for soil samples and monitoring well installations to obtain groundwater samples. Involved in management and containment of contamination to prevent migration off-site, and reduce impacts onsite, by monitoring and sampling groundwater at the site. Supervised the decommissioning of an underground storage tank and the removal of impacted soil. Was responsible for analyzing mercury-impacted soil, in order to delineate impacts.

The City of Mississauga: Completion of Phase II ESAs and involved in monitoring and assessment at sites across Mississauga. Tasks included supervision of drilling for soil samples, monitoring well installations and obtaining groundwater samples from newly installed wells. Supervised the implementation of a risk management plan by directing and confirming adequate imported soil cover of impacted soil by hand digging and survey point elevations.

Transport Canada: Supervised site remediation and drilling for soil samples and monitoring well installations to obtain groundwater samples. Involved in management and containment of contamination to prevent migration off-site, and reduce impacts onsite, by monitoring and sampling groundwater at the site.

Parkland Fuel Corporation: Completion of Phase II ESAs and site decommissioning on several sites across Southern Ontario. Tasks included supervision of drilling for soil samples and monitoring well installations and obtaining groundwater samples from newly installed wells. Supervised the decommissioning of underground storage tanks, or piping upgrades, and/or the removal of contaminated soil at numerous retail petroleum outlets across Ontario.

Canadian Tire Real Estate Ltd: Involved in management and containment of petroleum hydrocarbon impacts to prevent migration off-site, and reduce impacts onsite, by monitoring and sampling groundwater at the site. Supervised hoist decommissioning at several sites across southern Ontario.

Ultramar Inc: Completion of Phase II ESA and involved in monitoring, assessment, management and containment of petroleum hydrocarbon impacts to prevent migration off-site, and reduce impacts onsite. Tasks included supervision of drilling for soil samples and monitoring well installations and obtaining groundwater samples from newly installed wells.