

APPENDIX 9

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT REPORT



APPENDIX 9-1

Area 1: Tower Park Phase 1 ESA Report



Phase I Environmental Site Assessment (ESA)

42-46 Woodend Drive, Carlisle, Hamilton, ON

Project #
2108704

Prepared For
R.V. Anderson Associates Limited

June 13, 2024

June 13, 2024

Andrew McGregor
R.V. Anderson Associates Limited
43 Church Street, Suite 104
St. Catharines, ON L2R 7E1

Dear Andrew McGregor:

Re: Phase I Environmental Site Assessment, 42-46 Woodend Drive, Carlisle, Hamilton, ON
Project #: 2108704

We are pleased to present our Phase I Environmental Site Assessment (ESA) report for the above-noted property. The scope of this Phase I ESA conforms to the requirements outlined in the Canadian Standards Association (CSA) Standard Z768-01 (R2012) - Phase I Environmental Site Assessment. The purpose of this Phase I ESA was for due diligence.

The report provides information from Palmer's site reconnaissance, historical record review, interviews with knowledgeable individuals, and our conclusions for your consideration.

We trust that this report will be satisfactory for your current needs. If you have any questions or require further information, please contact our office at your convenience.

Yours truly,

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SLR



Sarah Vlantis, B.Sc., P.Geo. (limited), QP_{ESA}
Principal, Environment & Construction Team Lead

Executive Summary

Palmer is pleased to provide this Phase I Environmental Site Assessment (ESA) report to R.V. Anderson Associates Limited. The Phase I ESA was prepared for the parcel of land located at 42-46 Woodend Drive, Carlisle, Hamilton, ON (hereafter collectively referred to as the "Site").

It is understood that the Phase I ESA is required for due diligence purposes. It should be noted that the format of this report is not intended to support the filing of a Record of Site Condition (RSC) with the Ministry of the Environment, Conservation and Parks (MECP).

The Site is an approximate 3.6 acre, irregular shaped, parcel of land located on the south side of Woodend Drive in Carlisle, Hamilton, Ontario. Building structures on the Site include a 960 ft² storage building and an 1,880 ft² water tower. A children's playground is also present in the northeast portion of the Site.

The exterior portion of the Site has an asphalt paved walkway running through the Site with grassed areas to the east and west of the buildings. Approximately 90% of the Site exterior is covered with asphalt and/or grass and trees.

The surrounding area was surveyed within a 250 metre (m) radius from the Site and is developed with residential land uses. In addition, there are no automotive repair garages, gasoline service stations, dry cleaning facilities, or industrial land uses within a 250 m radius of the Site.

Historically, the Site was first developed in 1984 with a water tower on the central portion of the Site. A playground was constructed on the Site in the 2000s and a storage building was constructed beside the water tower in the 2010s.

Based on the findings of Palmer's historical records review, Site reconnaissance, and personal interviews, no actual or potential on-Site or off-Site sources of soil and ground water contamination were identified in association with the Site.

Based on the age and use of the buildings, it is unlikely that designated substances were used during the construction.

In conclusion, no actual or potential sources of soil or ground water contamination associated with the Site have been identified during our Phase I ESA. Therefore, no further investigations are currently warranted.

The statements made in this Executive Summary are subject to the same limitations as contained in the report and should be read in conjunction with the entire report.

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1. Introduction

Palmer was retained by R.V. Anderson Associates Limited (the 'Client') to conduct a Phase I Environmental Site Assessment (Phase I ESA) for the parcel of land located at 42-46 Woodend Drive, Carlisle, Hamilton, ON (hereinafter referred to as the 'Site'). This report presents the results of the investigation and the conclusions we have drawn regarding the potential environmental concerns identified.

1.1 Objective

The purpose of this Phase I ESA is to document and identify any actual or potential environmental sources of contamination associated with the Site pursuant to the Canadian Standard Association (CSA) Standard Z768-01 (R2012) - Phase I Environmental Site Assessment (CSA Phase I ESA Standard). A Phase I ESA is a preliminary study in which it is sufficient only to assess those liabilities which can be documented by a visual inspection of the property or available sources of public information. The Phase I ESA does not include sampling or testing of soil, ground water, or building materials. These analyses would be conducted in a Phase II ESA or designated substance survey, if warranted.

It is understood that the Phase I ESA is required for due diligence purposes. It should be noted that the format of this report is not intended to support the filing of a Record of Site Condition (RSC) with the Ministry of the Environment, Conservation and Parks (MECP).

The findings presented in this report may be used for this purpose subject to the limitations stated under Section 10.0. No other party shall have the right to rely on any service provided by Palmer without prior written consent. Use of this report by any other party shall be at such party's sole risk.

1.2 Scope of Work

The Phase I ESA was conducted in accordance with the CSA Phase I ESA Standard.

The Phase I ESA scope of work for the on-Site investigation consisted of the following activities:

- Reviewed historical records for the Site and surrounding area to identify actual or potential sources of environmental concern;
- Conducted a Site reconnaissance, including an environmental inspection of any existing buildings, to observe and document the present environmental condition
- Conducted interviews with knowledgeable persons and regulatory officials for additional information relating to any environmental concerns; and
- Prepared a report summarising the findings of this investigation.

2. Phase I Property

2.1 Location & Legal Description

The Site is located south of Woodend Drive and north of Acredale Drive, as shown in **Figure 1**. The municipal address is 42-46 Woodend Drive, Carlisle, Hamilton, ON.

The legal descriptions of the Site include the following:

- PCL Block 32-1, Section 62M534; Block 33, PL 62M534; S/T LT44681E Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0069 (LT).
- PCL Block 32-1, Section 62M534; Block 32, PL 62M534; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0070 (LT).
- PCL 5-3, Section E.F. 9; Part of Lot 6, Concession 9 East Flamborough, Part 1, 2, & 3, 62R3015, T/W row in favour of the grantee, etc., to construct reconstruct and maintain watermains over Part 4 62R3015; T/W an ease and rights in favour of the grantee etc., to enter, construct, maintain etc. of poles and wires thereon though which hydro-electricity and telecommunications are able to pass or flow, including all appurtenances thereto, on, over and under those land and premises designated as Part 5 62R3015; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0168 (LT).
- PCL 5-4, Section E.F. 9; Part of Lot 6, Concession 9 East Flamborough, Part 2, 62R7357, T/W Part 1, 62R9170 as in LT217151; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0169 (LT).
- PCL 5-4, Section E.F. 9; Part of Lot 6, Concession 9 East Flamborough, Part 4, 62R9195, S/T Part 4, 62R3015 as in LT44681; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0170 (LT).
- PCL 5-6, Section E.F. 9; Part of Lot 6, Concession 9 East Flamborough, Part 1, 62R7357; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0171 (LT).

2.2 Property Characteristics

The Site is an approximate 3.6 acre, irregular shaped, parcel of land located on the south side of Woodend Drive in Carlisle, Hamilton, Ontario. Building structures on the Site include a 960 ft² storage building and an 1,880 ft² water tower. A children's playground is also present in the northeast portion of the Site, as shown in **Figure 1**.

The exterior portion of the Site has an asphalt paved walkway running through the Site with grassed areas to the east and west of the structures. Approximately 90% of the Site exterior is covered with asphalt and/or grass and trees. Surface water from the property drains overland in a southeasterly direction or towards the drainage ditch along Acredale Drive.

There is no evidence to suggest the presence of septic tanks on the Site. Palmer observed two (2) municipal water wells at the Site. There was no evidence of fill and vent pipes indicative of underground storage tanks (USTs), aboveground storage tanks (ASTs), stressed vegetation, surficial staining, or disturbed soils identified on the Site during our Site reconnaissance on March 7, 2024. Photographic documentation of the Site and surrounding areas is presented in **Appendix A**.

3. Surrounding Areas

The surrounding area was surveyed within a 250 m radius and all occupants of neighboring properties were noted and are developed with residential land uses, as shown in **Figure 2**.

The surrounding properties were observed (from the Site or from public access areas) for signs of environmental concerns and their potential to pose an environmental risk to the Site. The uses and features of surrounding properties are described in the following table.

Table 1. Surrounding Property Summary

SURROUNDING PROPERTY SUMMARY		
DIRECTION	PROPERTY USE	CONCERNS
North	Residential, agricultural, vacant	None
East	Residential	None
South	Residential	None
West	Residential	None

From observations of the adjacent properties made from publicly accessible areas, no evidence of any USTs or any other environmental concerns were noted with the aforementioned land uses. Any additional properties located within the 250 m radius of the Site that are not listed in the above table, are not considered to pose any environmental concerns to the Site.

In addition, there are no automotive repair garages, gasoline service stations, dry cleaning facilities, or industrial land uses within a 250 m radius of the Site.

4. Previous Environmental Reports

Palmer was not provided with any previous environmental reports for review.

5. Topography, Hydrology, & Geology

The Site location is shown on the Atlas of Canada Topographic Map, as presented in **Figure 3**. The surface elevation of the Site is approximately 275 metres above mean sea level (amsl). Topography across the Site is relatively flat, and the topography in the vicinity of the Site slopes gradually downward to the southeast.

No naturally-occurring surface water bodies were observed on the Site. The nearest surface water body is the Bronte Creek, located approximately 500 m northwest of the Site.

The Site is located within the broad physiographic region known as the Flamborough Plain (Chapman and Putnam, 1984). This region is an isolated tract of shallow drift with a few scattered drumlins and numerous swamps. This region stretches across the Niagara cuesta northwest of Hamilton and extends north of Acton.

Local surficial geologic mapping (The Ontario Geological Survey, 2003) of the Hamilton area indicates that ice-contact stratified deposits of sand and gravel, minor silt, clay and till on Pleistocene terrain, underlie the Site.

Bedrock geologic mapping of Ontario (The Ontario Geological Survey, 1990) indicates that the glacially derived overburden soil at the Site is underlain by Lower Silurian Age sandstone, shale, dolostone, and siltstone of the Amabel Formation.

A Radon Potential Map of Ontario revealed that the subject property is located within Zone 3 (Radon Potential Map Ontario, 2013). This Zone is designated as a guarded relative radon hazard. Therefore, emissions of radon in the vicinity of the Site is of a low potential environmental concern. Furthermore, the Site building does not contain any subsurface structures, which reduces the presence of harmful levels of radon gas from accumulating in confined spaces of the Site building.

Based on surface topography and nearby surface water features, the horizontal ground water flow direction at the Site is anticipated to be to the southeast towards Bronte Creek. Ground water depth is estimated to be approximately 15 metres below grade (mbg) based on well records in the vicinity of the Site.

Actual local ground water flow direction can be influenced by factors such as local surface topography, underground structures, seasonal fluctuations, soil and bedrock geology, and production wells, none of which were considered during this study.

According to available hydrogeologic information, no sole source aquifers are present on or adjacent to the Site.

6. Records Review

Past land uses for the Site and adjoining properties were assessed to identify historical practices or conditions that may have impacted the Site. This was accomplished by reviewing historical information from several sources including but not limited to interviews with Site representatives, review of available previous environmental reports (if any) and ownership records, and review of historical information obtained from regulatory sources, aerial photographs, fire insurance plans, city directories and a topographic map. Specific historical sources reviewed for this project are presented in the following table.

Table 2. Historical Record Sources

SOURCES OF INFORMATION	YEARS REVIEWED
Prior Reports	None
Illustrated Atlas	1875
Aerial Photographs	1954 to 2022
Fire Insurance Plans	None
City Directories	None
Land Title Records	1960 to Present

Summaries of the historical uses of the Site and adjoining properties are presented in Sections 6.1 and 6.2, respectively. As per Section 4.0 above, no previous environmental reports were available for Palmer's review. Information obtained from each source reviewed is presented in Section 6.3.

6.1 Phase I Property

6.1.1 Illustrated Atlas

An illustrated atlas from 1875 revealed that the Site was a block of land, likely a farmstead, located within the Township of Flamborough East, owned by Varnel Freeman. No structures were depicted on the Site and the adjacent properties.

6.1.2 Aerial Photographs

An aerial photograph taken in 1954 showed the Site to be an undeveloped, agricultural parcel of land. Aerial photographs are shown in **Appendix B**.

An aerial photograph taken in 1976 showed a building constructed along the west boundary of the Site.

An aerial photograph taken in 1989 showed the construction of the water tower and pathway within the central portion of the Site.

An aerial photograph taken in 2013 showed the construction of the storage building to the south of the water tower. Aerial photographs taken since this time have remained unchanged.

6.1.3 Fire Insurance Plans and Inspection Reports

Fire insurance plans (FIPs) were produced between the late 1880's until the 1970s for urban communities throughout Canada. FIPs provided an illustrated resource that detailed the materials, occupancies, and potential fire hazards of existing buildings. The locations of above and below ground fuel storage tanks (ASTs/USTs) were also depicted on these plans.

Environmental Risk Information Services (ERIS) was retained to conduct a search for available FIPs or inspection report related documents pertaining to the Phase One Property or Study Area in order to provide additional information regarding historic usage and development at the site. FIPs are not available for the Site.

6.1.4 City Directories

Palmer retained ERIS to conduct a search of available directories for the Site and all adjacent properties located within the Study Area. No relevant information was obtained from the directories search for the Project Area or Study Area as the area is occupied by residential properties.

6.1.5 Land Title Records

According to land registry records (shown in **Appendix D**), the Site consists of six (6) parcels of land, currently owned by the following parties:

PIN #	DATE	LAND OWNER
17523-0171 (LT)	1984 to Present	The Regional Municipality of Hamilton-Wentworth
17523-0168 (LT)	1976 to Present	The Regional Municipality of Hamilton-Wentworth
17523-0169 (LT)	1987 to Present	Flamborough Hills Developments Limited
17523-0170 (LT)	1987 to Present	Flamborough Hills Developments Limited
17523-0069 (LT)	1987 to Present	The Corporation of the Town of Flamborough
17523-0070 (LT)	1987 to Present	The Corporation of the Town of Flamborough

6.2 Surrounding Area

Based on a review of all available historical records listed in Section 6.0, there were no previous dry cleaning facilities, automotive repair garages, industrial land uses, or gasoline services stations located within a 250 m radius of the Site.

6.2.1 Aerial Photographs

Aerial photographs taken between 1954 and 2021 showed the surrounding properties to be developed with a residential, agricultural, and vacant land uses.

6.2.2 Fire Insurance Plans

Fire insurance plans for the Surrounding Area were not available for review.

6.2.3 City Directories

No relevant information was obtained from the city directories search for the Surrounding Area.

6.3 Environmental Source Information

Palmer contacted municipal, provincial, and federal agencies to request the following information relevant to the Site and vicinity. The EcoLog ERIS (EcoLog) system provides information from provincial, federal, and private source databases and was searched for information relating to the Site and surrounding areas. The EcoLog report is shown in **Appendix E**.

6.3.1 Municipal Records Database

A written request was filed on March 25, 2024 for information concerning control orders, violation notices, and other environmental concerns for the Site with the City of Hamilton Freedom of Information Department. No information has been received to-date. Any forthcoming documentation from the aforementioned regulatory agency will be reviewed and if the response specifies any environmental concerns, it will be addressed and forwarded to the Client. A copy of this correspondence is shown in **Appendix F**.

6.3.2 Provincial Records Database

A Freedom of Information request was filed on March 5, 2024 for information relating to any control orders, violation notices, or other environmental concerns with the Ministry of the Environment, Conservation and Parks (MECP). No information has been received to-date. Any forthcoming documentation from the aforementioned regulatory agency will be reviewed and if the response specifies any environmental concerns, it will be addressed and forwarded to the Client. A copy of this correspondence is shown in **Appendix F**.

A total of four (4) Provincial records were available for the Site and six (6) records for the 0.25 km search radius from EcoLog. The records are summarized as follows, with identification of existence of an area of potential environmental concern:

i. Ontario Regulation 347 Waste Generators Summary

ADDRESS	COMPANY NAME	YEAR(S)	DESCRIPTION
46 Woodend Drive	City of Hamilton	2013	Generation of inorganics

The aforementioned wastes generated **on-Site** in 2013 are likely associated with water treatment activities occurring in the Site building. These activities are considered to pose a low environmental concern to the Site.

ii. Ontario Spills

ADDRESS	COMPANY NAME	YEAR(S)	INCIDENT
N/A	Enbridge Inc.	2023	Natural Gas line strike

These records are not considered to pose an environmental concern to the Site.

- iii. **Water Well Information System** - Three (3) records revealed wells located within the Site and five (5) records revealed wells located within the 0.25 km search radius. The wells were installed between 1970 and 2013. These wells were installed to a maximum depth of 39.6 m in the vicinity of the Site. Soil stratigraphy details noted gravel, clay, sand, boulders, shale and limestone. These records do not identify any conditions that are likely to pose potential environmental concerns for the Site.

6.3.3 *Federal Records Database*

A total of zero Federal records were available for the Site and for the 0.25 km search radius from Ecolog.

6.3.4 *Private Records Database*

A written request was made with a Customer Service Advisor with the Technical Standards and Safety Authority (TSSA) on January 26, 2024 for additional information regarding any storage tanks associated with the Site and surrounding areas. No information has been received to-date. Any forthcoming documentation from the aforementioned regulatory agency will be reviewed and if the response specifies any environmental concerns, it will be addressed and forwarded to the Client. A copy of this correspondence is shown in **Appendix F**.

A total of zero private records were available for the Site and for the 0.25 km search radius from EcoLog.

6.3.5 *Interviews*

An interview was conducted by Palmer with R.V. Anderson Associates Limited in January 2024. Pertinent information was provided regarding the infrastructure project and proposed construction. The proposed development is expected to include water storage structure, access road and vehicle parking, associated appurtenances, which may include a treatment facility and/or pump house. There was no knowledge of previous environmental reports or environmental concerns for the Property. Palmer was informed that the Site is currently improved with a water tower, a storage building, and a playground.

7. Site Reconnaissance

On March 7, 2024, Palmer representative Bailey Fleet, B.Sc.(Env.), conducted a Site visit. Palmer was not escorted during the Site reconnaissance.

The weather during the Site visit was sunny with a temperature of ~4 degrees Celsius. The Site visit consisted of a walkthrough of the Site and visual reconnaissance of neighbouring properties from curbside. Photographic documentation of the Site visit is included in **Appendix A**.

Palmer visually and physically observed accessible areas of the Site. The exterior of the Site building was observed. Limitations to the site reconnaissance included not having access to the interior of the water tower or storage building located on the Site.

7.1 Specific Observations at Phase I Property

Observations of Site conditions were made during the Site reconnaissance and are summarized in the table below. Issues of concern are discussed in greater detail following the table.

Table 3. Site Reconnaissance Observations

SITE OBSERVATIONS		
DESCRIPTION	REPORTED/ OBSERVED ON-SITE Y/N	COMMENTS
Hazardous Substances and Petroleum Products	Y	On the front of the storage building a sign indicated that Sodium Hypochlorite solution was present within the building. This product is not considered to pose an environmental concern to the Site, as it is used for water treatment and a known disinfecting agent. In addition, no visible evidence of spills and/or leaks were associated in the vicinity of the Site buildings.
UST(s)	N	Palmer did not observe fill pipes, vent pipes or other evidence of UST(s). Palmer did not observe operations and/or equipment that are typically associated with significant fuel or chemical storage that typically utilizes USTs.
AST(s)	N	Palmer did not observe fill pipes, vent pipes or other evidence of AST(s). Palmer did not observe operations and/or equipment that are typically associated with fuel or chemical storage that typically utilizes ASTs.
Strong, Pungent, or Noxious Odours	N	Not identified during the Site visit.
Pools of Liquids	N	Not identified during the Site visit.
Drums	N	Not identified during the Site visit.
Unidentified Substance Containers	N	Not identified during the Site visit.

SITE OBSERVATIONS		
DESCRIPTION	REPORTED/ OBSERVED ON-SITE Y/N	COMMENTS
Polychlorinated Biphenyls (PCB) – Containing Equipment	N	An exterior transformer was observed along the northeast corner of the Site. No signage indicative of PCBs or surficial staining on the concrete pad below the transformer was observed from the accessible areas.
Utilities (Electricity/Natural Gas)	Y	Electricity – supplied by Hydro One Natural gas – supplied by Enbridge Gas
Hydraulic Equipment	N	Not identified during the Site visit.
Water Supply	N	Not identified during the Site visit.
Wells	Y	Two (2) drinking water wells were identified at the Site. One ground water monitoring well was observed in the east side of the Site. Two wells were also observed on the Site beside the storage building and to the east. As discussed in Section 6.0 and 8.3.5, no previous environmental reports were provided for Palmer's review.
Wastewater	N	Wastewater is currently not being discharged from the Site.
Septic	N	Not identified during the Site visit.
Storm Water	Y	The storm water drains into the municipal storm sewer system along Acredale Drive.
Flood Plain	N	Not identified during the Site visit.
Pits, Ponds, or Lagoons	N	Not identified during the Site visit.
Stained Soil, Stained Pavement, Corrosion to Pavement	N	Not identified during the Site visit.
Stressed Vegetation	N	Not identified during the Site visit.
Solid Waste	N	Not identified during the Site visit.
Hazardous Waste Management	N	Not identified during the Site visit.
Drains, Sumps, Oil/Water Separators/Sand Traps	N	Not identified during the Site visit.
Vapour Intrusion	N	Not identified during the Site visit.

7.2 Structures and Buildings

The Site is developed with a 960 ft² storage building and an 1,880 ft² water tower. A children's playground is also present in the northeast portion of the Site. The Site is currently operating as a park, a water tower and storage facility.

The water tower building has one (1) exit and entry point along the west side of the structure and the storage facility building has two (2) exit and entry points along the west wall of the structure.

The following observations were noted at the Site:

- Site Exterior
 - Drainage pipes were observed along the rear of the storage building. Use of this area is reportedly unknown. Based on Palmer's site reconnaissance, this area is associated with treating potable water;
 - The northeast portion of the Site has a playground and is used for recreational purposes;
 - An asphalt-paved walkway runs throughout the Site from north to south and the rest of the site consists of landscaped grassed areas and trees.
- Storage Facility
 - No access to the interior of the building.
- Water Tower
 - No access to the interior of the structure.

One (1) ground water monitoring well was observed on the east side of the property and two (2) municipal wells were also observed on the Site beside the storage building and to the east.

8. Actual or Potential Concerns

Based on the findings of Palmer's historical records review, Site reconnaissance, and personal interviews, no actual on-Site or off-Site sources of soil and ground water contamination were identified in association with the Site.

The following potential on-Site sources of contamination were identified:

- A potential on-Site source of soil and ground water contamination includes Sodium (Na), Chloride (Cl-), Electrical Conductivity (EC) and Sodium Adsorption Ratio (SAR) associated with the water treatment occurring on the Site. However, based on the interior storage of the sodium hypochlorite solution with no reported spills and incidents, this potential source is considered to pose a low environmental concern to the Site.

No potential off-Site sources of contamination were identified.

Based on the age of the industrial building (built in the 2010s), it is unlikely that designated substances were used during the construction. Based on the age of the water tower structure (built in 1984), designated substances may be present in areas not renovated.

9. Conclusions

Historically, the Site was first developed in 1984 with a water tower on the central portion of the Site. A playground was constructed on the Site in the 2000s and a storage building was constructed beside the water tower in the 2010s.

Based on the findings of Palmer's historical records review, Site reconnaissance, and personal interviews, no actual or potential on-Site or off-Site sources of soil and ground water contamination were identified in association with the Site.

Based on the age and use of the buildings, it is unlikely that designated substances were used during the construction.

In conclusion, no actual or potential sources of soil or ground water contamination associated with the Site have been identified during our Phase I ESA. Therefore, no further investigations are currently warranted.

10. Limitations of Report

This report was prepared by Palmer for the account of R.V. Anderson Associates Limited in accordance with the professional services agreement.

During the records review, Palmer relied on information obtained from municipal, provincial, and independent sources as referenced in this report. Although the information was assessed for consistency, verification of the accuracy or the completeness of this third-party information was not completed.

Palmer made all reasonable inquiries to obtain accessible information for this assessment as required by Canadian Standards Association (CSA) Standard Z768-01 (R2012) - Phase I Environmental Site Assessment. The evaluation provided in this report reflects our best judgement in light of the information available at the time of the report preparation.

The conclusions and recommendations detailed in this report are based upon the information available at the time of preparation of the report. No investigative method eliminates the possibility of obtaining imprecise or incomplete information. Professional judgement was exercised in gathering and analyzing the information obtained and in the formulation of our conclusions and recommendations.

Due to the limitations referred to above, different environmental conditions from those stated in our report may exist. Should such different conditions be encountered, Palmer must be notified in order that it may determine if modifications to the conclusions in the report are necessary.

The disclosure of any information contained in this report is the sole responsibility of the intended recipient. The material in it reflects Palmer's best judgement in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Palmer accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This limitations statement is considered part of this report.

Unless stated otherwise in this report, provided that the report is still reliable, and less than 12 months old, Palmer may issue a third-party reliance letter to parties, client identifies in writing, upon payment of the then current fee for such letters. All third parties relying on Palmer's report, by such reliance agree to be bound by our proposal and Palmer's standard reliance letter. Palmer's standard reliance letter indicates that in no event shall Palmer be liable for any damages, howsoever arising, relating to third-party reliance on Palmer's report. No reliance by any party is permitted without such agreement. This report is not to be given over to any third party for any purpose whatsoever without the written permission of Palmer.

The original of the technology-based document sent herewith has been authenticated and will be retained by Palmer for a minimum of five years. Since the file transmitted is now out of Palmer's control and its integrity can no longer be ensured, no guarantee may be given with regards to any modifications made to this document.

11. Certification

This report was prepared by Bailey Fleet, B.Sc.(Env.), EPT who is currently an Environmental Scientist with Palmer. She has experience in conducting Phase One and Two ESAs at various land use types, in accordance with Ontario Regulation 153/04 and 511/09 and the CSA Z768-01 environmental protocols.

This report was reviewed by Kalina Naydenova, M.Sc. who is an Environmental Scientist with Palmer. She has over fourteen years' experience conducting numerous Phase One and Two ESAs at various land use types, conducting soil and ground water sampling procedures in accordance with ASTM 1527-13 and ASTM E1903-19, as well as experience with Ontario Regulation 153/04 and 511/09 and the CSA Z768-01 and Z769-00 environmental protocols.

This report was reviewed by Sarah Vlantis, B.Sc., P.Geo. (limited), Principal Environmental Scientist and Environment & Construction Team Lead of Palmer. She has over 14 years' experience conducting Phase One and Two ESAs, soil and ground water sampling, and site remediation in accordance with Ontario Regulation 153/04 and 511/09, the CSA Z768-01 and Z769-00 environmental protocols, the Consulting Engineers of Ontario's Generally Accepted Standards for Environmental Investigations, and the Canadian Mortgage and Housing Corporation (CMHC) environmental site investigation procedures for mortgage loan insurance. The aforementioned ESAs have covered all land use types across Canada. Sarah also has numerous years of experience in preparing and filing Record of Site Conditions (RSCs) with the Ministry of the Environment, Conservation and Parks (MECP). Sarah also has experience conducting Excess Soil Reuse Planning assessments in accordance with Ontario Regulation 406/19.



Prepared By:

Bailey Fleet, B.Sc.(Env.), EPT
Environmental Scientist



Kalina Naydenova, M.Sc.
Environmental Scientist



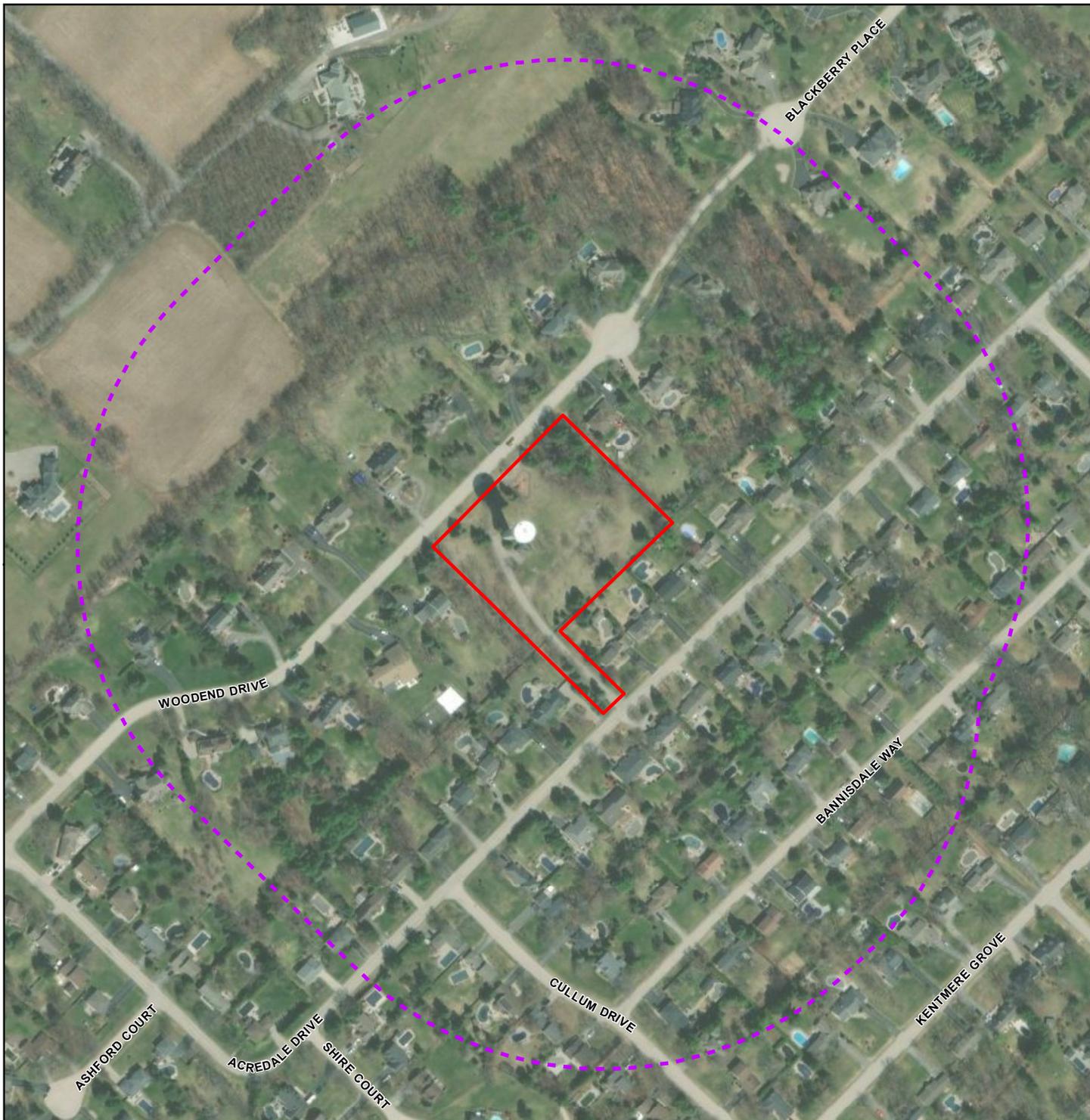
Reviewed By:

Sarah Vlantis, B.Sc. P.Geo. (limited), QP_{ESA}
Principal, Environment & Construction Team Lead

12. References

- Atlas of Canada, Topographic Maps;
 - <http://atlas.nrcan.gc.ca/Site/english/toporama/index.html>
- Chapman and Putnam, The Physiography of Southern Ontario, 1984;
- EcoLog ERIS Database Report, 42-46 Woodend Drive, Hamilton, Ontario, 2024;
- ESRI Basemap Service, 2021;
- Google Earth, 2020;
- Ontario Ministry of the Environment and Climate Change;
- Radon Potential Map Ontario, Radon Environmental, 2013;
- Technical Standards & Safety Authority;
- The Ontario Geological Survey, 1990; and,
- The Ontario Geological Survey, 2003.

Figures



LEGEND

- Phase I Property
- Phase I Study Area

Key Map

0 20 40 80 120 160 200
METRE SCALE

North American Datum 1983
Universal Transverse Mercator Projection Zone 17

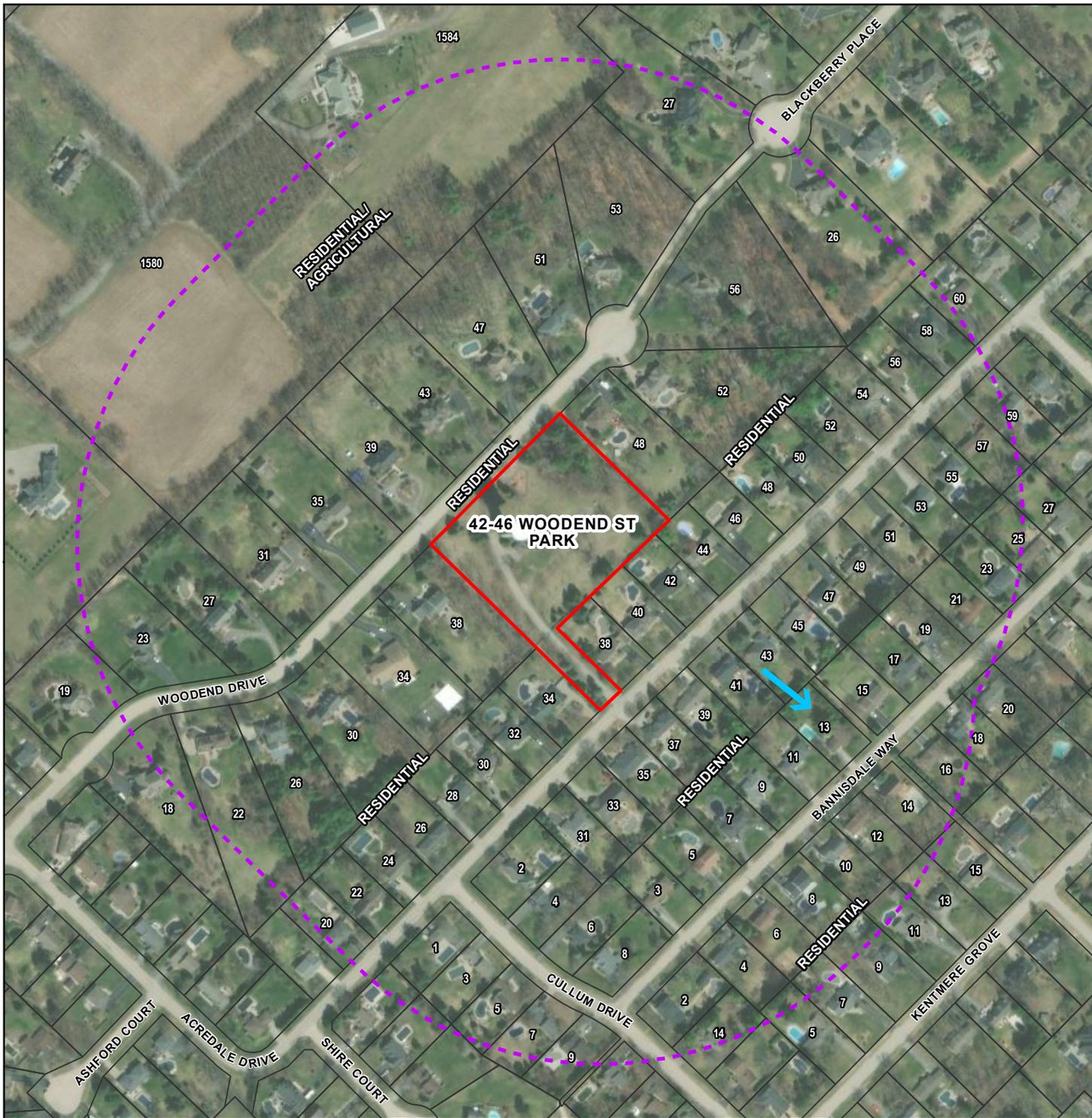
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Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

NORTH

Source Notes:
Imagery (2021) provided by Esri basemap service.
Contains information licensed under the Open Government Licence – Ontario.

CLIENT	R.V. Anderson Associates Limited
PROJECT	42-46 Woodend Drive, Carlisle, Hamilton, ON
TITLE	Phase I Property Location
REF. NO. 2108704-MR-201-1	
PART OF SLR	Figure 1



LEGEND

- Phase I Property
- Phase I Study Area
- Property Boundary
- ← Inferred Ground Water Flow Direction

METRE SCALE

North American Datum 1983
 Universal Transverse Mercator Projection Zone 17

Scale: 1:4,000
 Page Size: Letter (8.5 x 11 inches)

Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

NORTH

Source Notes:
 Imagery (2021) provided by Esri basemap service.
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CLIENT

R.V. Anderson Associates Limited

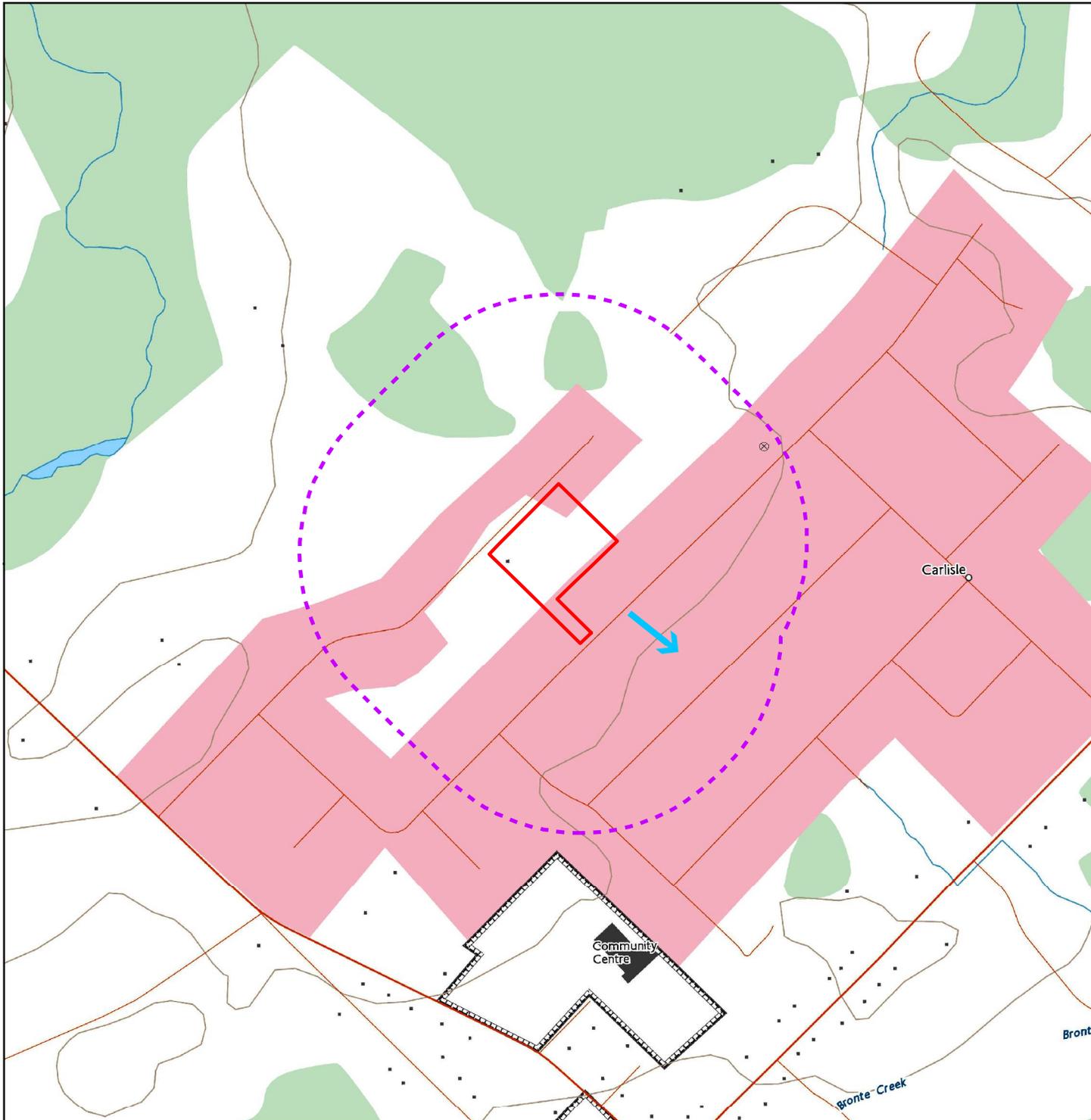
PROJECT

42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE

Site and Surrounding Properties

PART OF SLR	REF. NO. 2108704-MR-202-1
Figure 2	



LEGEND

- Phase I Property
- Phase I Study Area
- ← Inferred Ground Water Flow Direction
- Woodland
- Built-up Area

0 40 80 160 240 320 400
METRE SCALE

North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:7,500
Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

Basemap:
Toporama web map

NORTH

CLIENT
R.V. Anderson Associates Limited

PROJECT
42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
Topographic Map

REF. NO. 2108704-MR-203-1

Palmer PART OF SLR **Figure 3**

Appendix A

Photograph Log

**Photograph Log
Phase I ESA
42-46 Woodend Drive, Carlisle, Hamilton, ON
Project No.: 2108704**



Photograph 1

Photo depicts the south facing view of the Site.



Photograph 2

Photo depicts the west facing view of the Site.



Photograph 3

Photo depicts the east facing view of the Site.



Photograph 4

Photo depicts the north facing view of the Site.

Photograph Log
Phase I ESA
42-46 Woodend Drive, Carlisle, Hamilton, ON
Project No.: 2108704



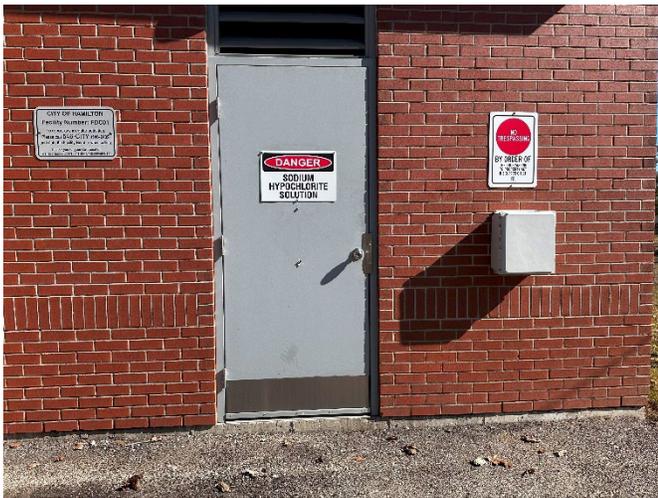
Photograph 5

Photo depicts front facing view of the storage building on the Site.



Photograph 6

Photo depicts the front facing view of the water tower building on the Site.



Photograph 7

Photo depicts sign located at the front of the storage building indicating the use of Sodium Hypochlorite solution.



Photograph 8

Photo depicts drainage pipes and catch basins located at the rear of the storage building on the Site.

Photograph Log
Phase I ESA
42-46 Woodend Drive, Carlisle, Hamilton, ON
Project No.: 2108704



Photograph 9

Photo depicts steel well located on the east portion of the Site.



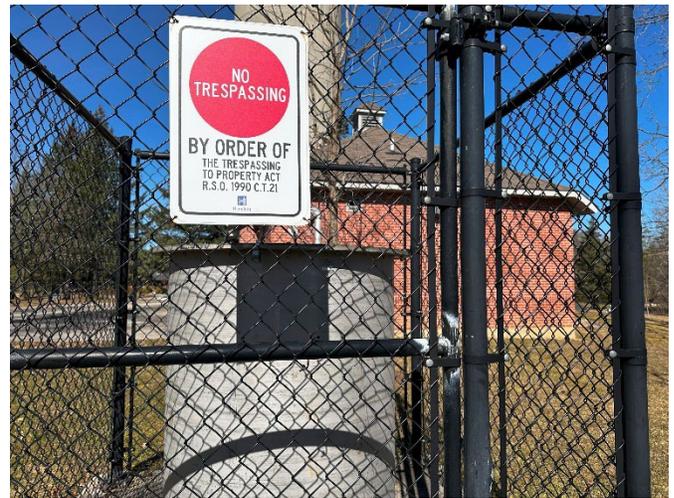
Photograph 10

Photo depicts previously installed monitoring well located on the east portion of the Site.



Photograph 11

Photo depicts a playground located on the northeast portion of the Site.



Photograph 12

Photo depicts second steel well located to the south of the storage building.

**Photograph Log
Phase I ESA
42-46 Woodend Drive, Carlisle, Hamilton, ON
Project No.: 2108704**



Photograph 13

Photo depicts east view of Surrounding Area.



Photograph 14

Photo depicts west view of Surrounding Area.



Photograph 15

Photo depicts north view of Surrounding Area.

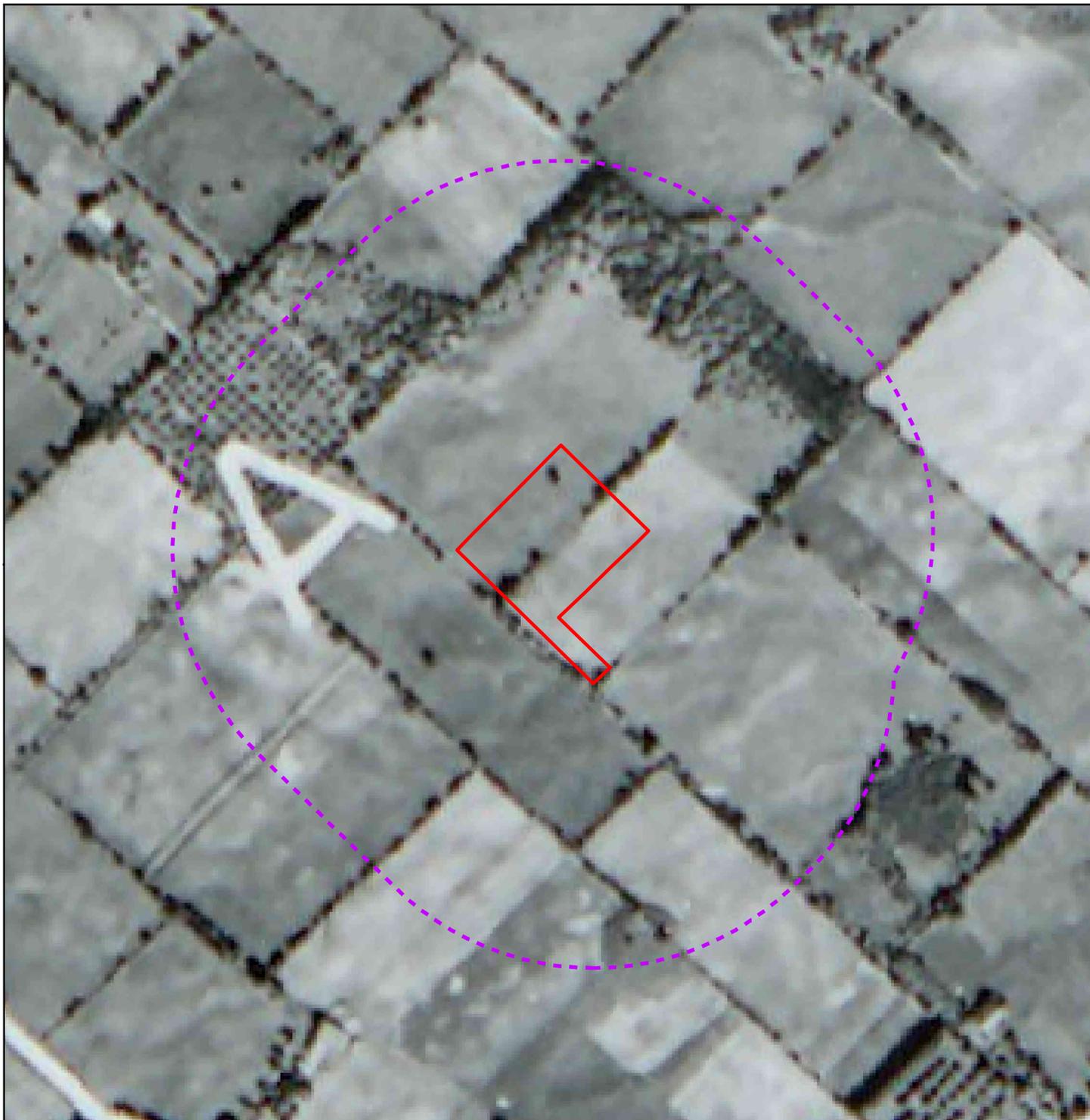


Photograph 16

Photo depicts south view of Surrounding Area.

Appendix B

Aerial Photographs



LEGEND

-  Phase I Property
-  Phase I Study Area

0 20 40 80 120 160 200
METRE SCALE

North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery provided by ERIS


NORTH

CLIENT
R.V. Anderson Associates Limited

PROJECT
42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
(1954)**

 PART OF


REF. NO. 2108704-MR-200-1
Figure B1



LEGEND

-  Phase I Property
-  Phase I Study Area



North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery provided by ERS

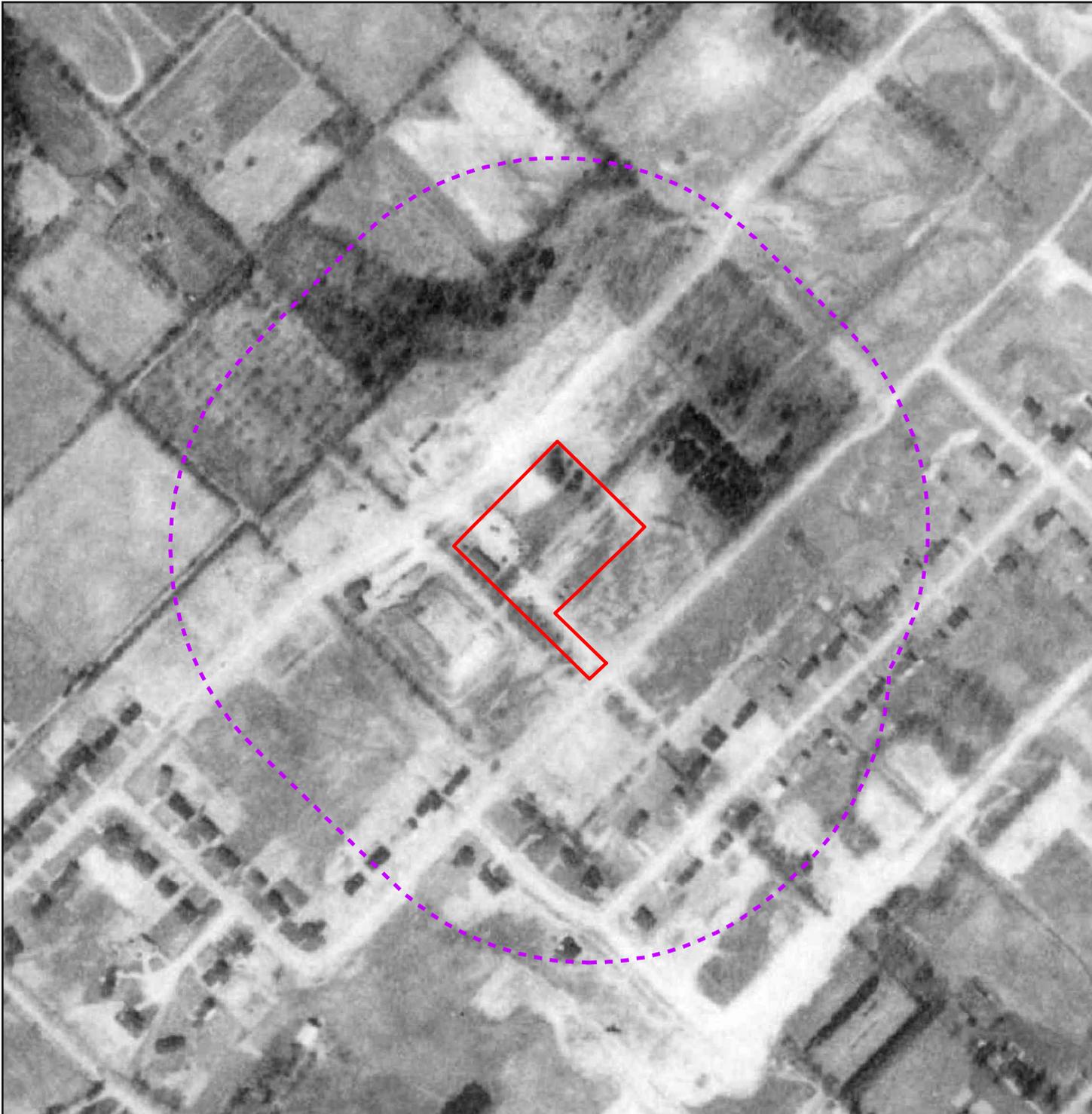


CLIENT
R.V. Anderson Associates Limited

PROJECT
42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
(1961)**

		REF. NO. 2108704-MR-200-1
		Figure B2



LEGEND

-  Phase I Property
-  Phase I Study Area

0 20 40 80 120 160 200
METRE SCALE

North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery provided by ERIS

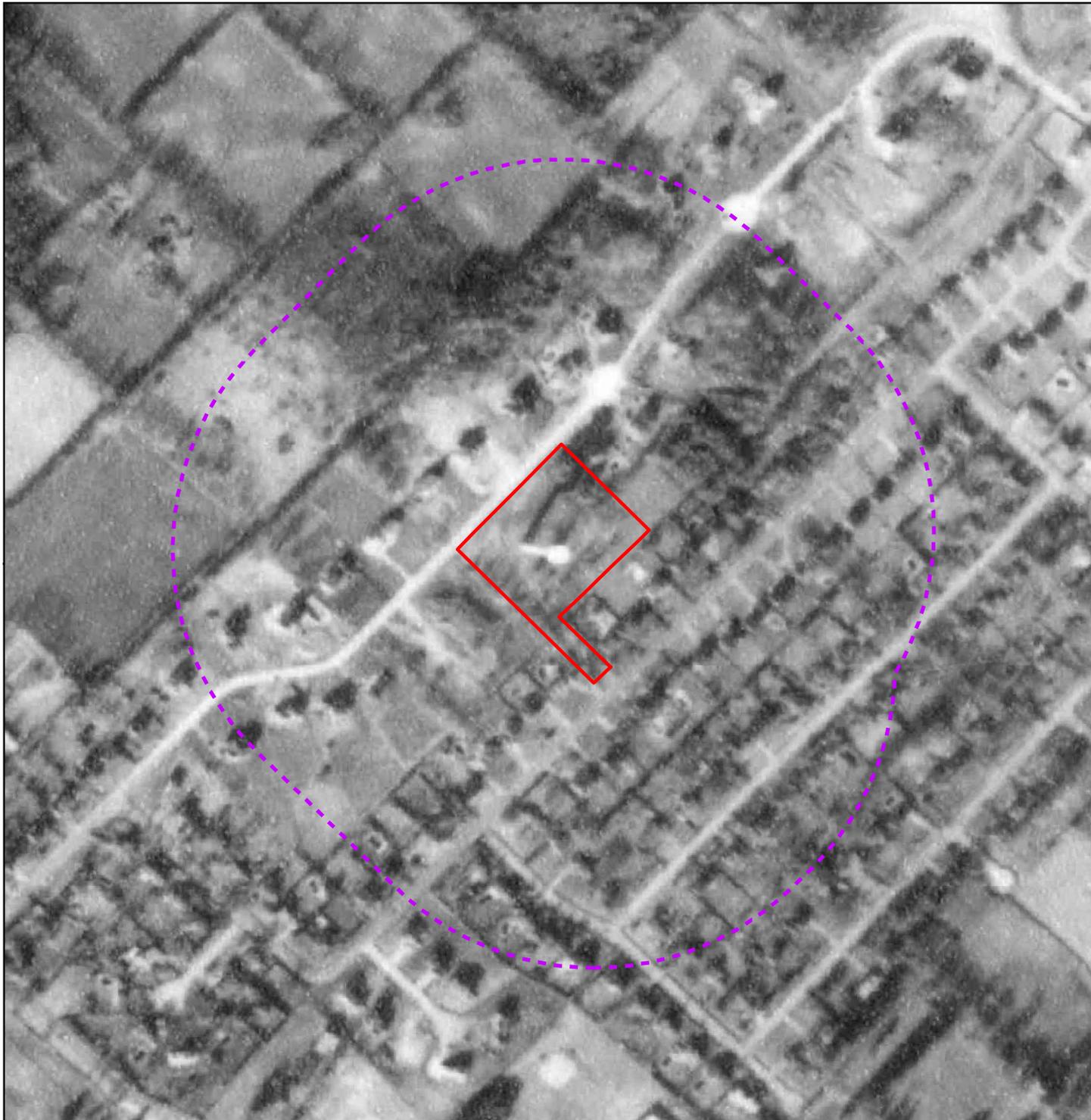

NORTH

CLIENT
R.V. Anderson Associates Limited

PROJECT
42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
(1976)**

 PART OF 	REF. NO. 2108704-MR-200-1
Figure B3	



LEGEND

-  Phase I Property
-  Phase I Study Area

0 20 40 80 120 160 200
METRE SCALE

North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery provided by ERS


NORTH

CLIENT	R.V. Anderson Associates Limited
PROJECT	42-46 Woodend Drive, Carlisle, Hamilton, ON
TITLE	Aerial Imagery (1989)
REF. NO.	2108704-MR-200-1
 PART OF 	Figure B4



LEGEND

- Phase I Property
- Phase I Study Area


 METRE SCALE

North American Datum 1983
 Universal Transverse Mercator Projection Zone 17
 Scale: 1:5,000
 Page Size: Letter (8.5 x 11 inches)

Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

Source Notes:
 Imagery from Google Earth (©Google)


NORTH

CLIENT

R.V. Anderson Associates Limited

PROJECT

42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE

**Aerial Imagery
(2005)**

 	REF. NO. 2108704-MR-200-1 Figure B5
---	---



LEGEND

- Phase I Property
- Phase I Study Area



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
 Page Size: Letter (8.5 x 11 inches)

Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

Source Notes:
 Imagery from Google Earth (©Google)



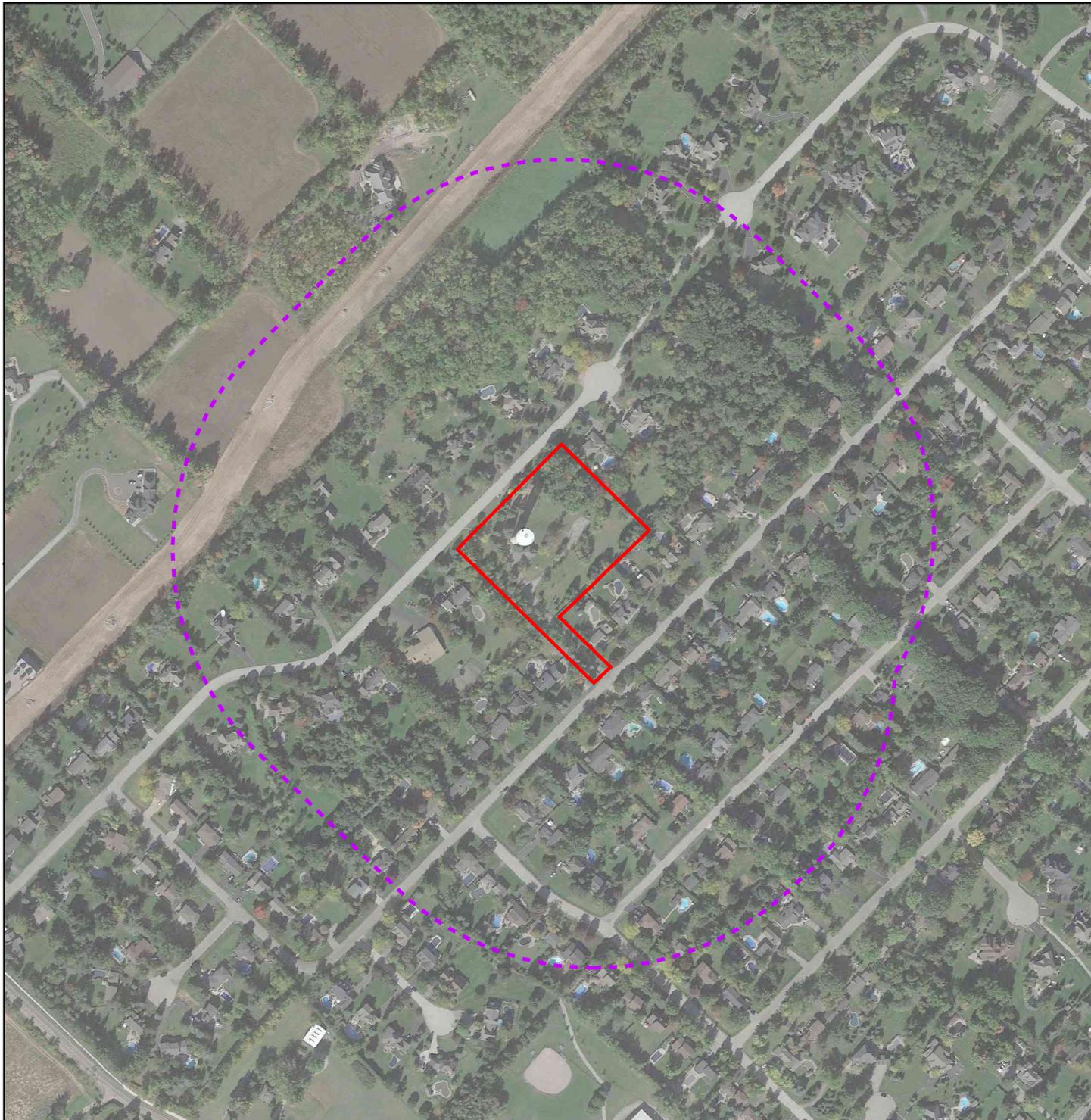
CLIENT
 R.V. Anderson Associates Limited

PROJECT
 42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
 (2013)**

Palmer PART OF **SLR**

REF. NO. 2108704-MR-200-1
Figure B6



LEGEND

-  Phase I Property
-  Phase I Study Area



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
 Page Size: Letter (8.5 x 11 inches)

Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

Source Notes:
 Imagery from Google Earth (©Google)



CLIENT	R.V. Anderson Associates Limited
PROJECT	42-46 Woodend Drive, Carlisle, Hamilton, ON
TITLE	Aerial Imagery (2017)
REF. NO.	2108704-MR-200-1
 PART OF 	Figure B7



LEGEND

-  Phase I Property
-  Phase I Study Area



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
 Page Size: Letter (8.5 x 11 inches)

Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

Source Notes:
 Imagery provided by Esri basemap service



CLIENT
 R.V. Anderson Associates Limited

PROJECT
 42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
 (2021)**

	PART OF 	REF. NO. 2108704-MR-200-1
		Figure B8

Appendix C

Land Registry Documents

PROPERTY DESCRIPTION: PCL 5-6, SEC E.F. 9 ; PT LT 6, CON 9 EAST FLAMBOROUGH , PART 1 , 62R7357 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
1996/04/22

OWNERS' NAMES
THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/04/19 **</p>						
62R7357	1984/10/09	PLAN REFERENCE				C
LT151647	1984/11/15	TRANSFER	\$1		THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH	C
LT159633	1985/06/17	NOTICE AGREEMENT			THE CORPORATION OF THE TOWN OF FLAMBOROUGH	C

PROPERTY DESCRIPTION: PCL 5-4, SEC E.F. 9 ; PT LT 6, CON 9 EAST FLAMBOROUGH , PART 2 , 62R7357 , T/W PT 1, 62R9170 AS IN LT217151 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
ABSOLUTE

RECENTLY:

FIRST CONVERSION FROM BOOK

PIN CREATION DATE:

1996/04/22

OWNERS' NAMES

FLAMBOROUGH HILLS DEVELOPMENTS LIMITED

CAPACITY SHARE

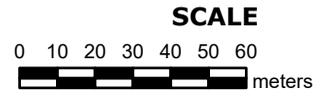
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/04/19 **</p>						
HL129811	1960/06/14	BYLAW				C
62R1914	1974/08/27	PLAN REFERENCE				C
62R7357	1984/10/09	PLAN REFERENCE				C
LT211612	1987/10/21	TRANSFER			FLAMBOROUGH HILLS DEVELOPMENTS LIMITED	C
62R9170	1987/11/10	PLAN REFERENCE				C
62R9195	1987/11/17	PLAN REFERENCE				C



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FOR EEGOLAB



PROPERTY INDEX MAP

WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



LAND
REGISTRY
OFFICE #62

17523-0168 (LT)

PAGE 1 OF 1
PREPARED FOR EEGOOLAB
ON 2024/03/05 AT 14:26:06

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

PROPERTY DESCRIPTION: PCL 5-3, SEC E.F. 9 ; PT LT 6, CON 9 EAST FLAMBOROUGH , PART 1, 2 & 3 , 62R3015 , T/W ROW IN FAVOUR OF THE GRANTEE, ETC, TO CONSTRUCT RECONSTRUCT AND MAINTAIN WATERMAINS OVER PT 4 62R3015; T/W AN EASE AND RIGHTS IN FAVOUR OF THE GRANTEE ETC, TO ENTER, CONSTRUCT, MAINTAIN ETC OF POLES AND WIRES THEREON THOUGH WHICH HYDRO-ELECTRICITY AND TELECOMMUNICATIONS ARE ABLE TO PASS OR FLOW, INCLUDING ALL APPURTENANCES THERTO, ON, OVER AND UNDER THOSE LAND AND PREMISES DESIGNATED AS PT 5 62R3015 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
1996/04/22

OWNERS' NAMES
THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

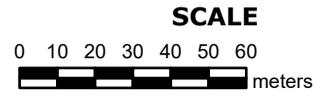
CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p><i>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</i></p> <p><i>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</i></p> <p><i>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/04/19 **</i></p>						
HL129811	1960/06/14	BYLAW				C
LT444681	1976/06/03	TRANSFER			THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH	C
62R3015	1976/06/03	PLAN REFERENCE				C



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PRINTED ON 05 MAR, 2024 AT 14:26:51
FOR EEOOLAB



PROPERTY INDEX MAP

WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



PROPERTY DESCRIPTION: PCL 5-4, SEC E.F. 9 ; PT LT 6, CON 9 EAST FLAMBOROUGH , PART 4 , 62R9195 , S/T PT 4, 62R3015 AS IN LT44681 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
ABSOLUTE

RECENTLY:

FIRST CONVERSION FROM BOOK

PIN CREATION DATE:

1996/04/22

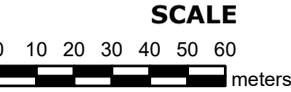
OWNERS' NAMES

FLAMBOROUGH HILLS DEVELOPMENTS LIMITED

CAPACITY SHARE

BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/04/19 **</p>						
HL129811	1960/06/14	BYLAW				C
62R1914	1974/08/27	PLAN REFERENCE				C
62R3015	1976/06/03	PLAN REFERENCE				C
LT211612	1987/10/21	TRANSFER			FLAMBOROUGH HILLS DEVELOPMENTS LIMITED	C
62R9195	1987/11/17	PLAN REFERENCE				C



PROPERTY INDEX MAP
WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

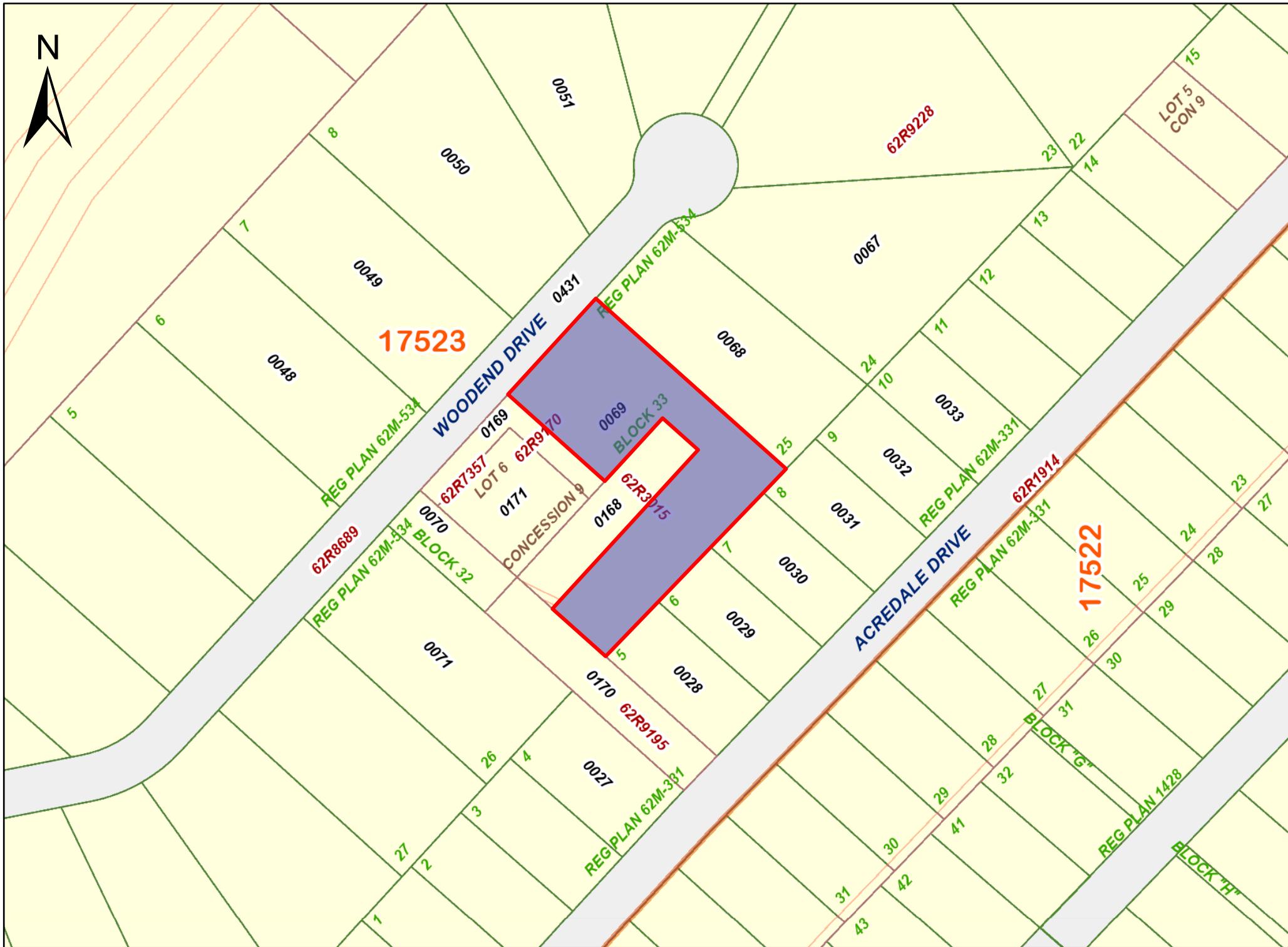
THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

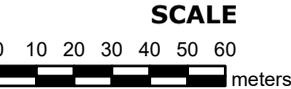
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REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED





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PROPERTY INDEX MAP

WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



PROPERTY DESCRIPTION: PCL BLOCK 32-1, SEC 62M534 ; BLK 33, PL 62M534 ; S/T LT44681E FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
1996/04/22

OWNERS' NAMES
THE CORPORATION OF THE TOWN OF FLAMBOROUGH

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **</p>						
AB276776	1972/12/29	AGREEMENT			THE CORPORATION OF THE TOWNSHIP OF EAST FLAMBOROUGH	C
62R3015	1976/06/03	PLAN REFERENCE				C
LT44681E	1976/06/09	TRANSFER EASEMENT			THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH	C
LT215958	1987/12/31	TRANSFER			THE CORPORATION OF THE TOWN OF FLAMBOROUGH	C

PROPERTY DESCRIPTION: PCL BLOCK 32-1, SEC 62M534 ; BLK 32, PL 62M534 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
ABSOLUTE

RECENTLY:

FIRST CONVERSION FROM BOOK

PIN CREATION DATE:

1996/04/22

OWNERS' NAMES

THE CORPORATION OF THE TOWN OF FLAMBOROUGH

CAPACITY SHARE

BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
EFFECTIVE	2000/07/29	THE NOTATION OF THE	"BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN			
WAS REPLACED WITH THE	"PIN CREATION DATE"	OF 1996/04/22				
** PRINTOUT	INCLUDES ALL	DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **				
AB276776	1972/12/29	AGREEMENT			THE CORPORATION OF THE TOWNSHIP OF EAST FLAMBOROUGH	C
LT215958	1987/12/31	TRANSFER			THE CORPORATION OF THE TOWN OF FLAMBOROUGH	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 D

EcoLog ERIS Database Report



DATABASE REPORT

Project Property: *Phase I ESA
42-46 Woodend Drive
Hamilton ON L0R 1H2*

Project No: *2108704*

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

Order No: *24030100788*

Requested by: *Palmer Environmental Consulting Group
Inc.*

Date Completed: *March 6, 2024*

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Executive Summary

Property Information:

Project Property: *Phase I ESA
42-46 Woodend Drive Hamilton ON L0R 1H2*

Project No: 2108704

Order Information:

Order No: 24030100788
Date Requested: March 1, 2024
Requested by: Palmer Environmental Consulting Group Inc.
Report Type: Quote - Custom-Build Your Own Report

Historical/Products:

ERIS Xplorer [ERIS Xplorer](#)

Executive Summary: Report Summary

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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	N	-	-	-
INC	<i>Fuel Oil Spills and Leaks</i>	N	-	-	-
LIMO	<i>Landfill Inventory Management Ontario</i>	N	-	-	-
MINE	<i>Canadian Mine Locations</i>	N	-	-	-
MNR	<i>Mineral Occurrences</i>	N	-	-	-
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	N	-	-	-
NCPL	<i>Non-Compliance Reports</i>	N	-	-	-
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	N	-	-	-
NDSP	<i>National Defense & Canadian Forces Spills</i>	N	-	-	-
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	N	-	-	-
NEBI	<i>National Energy Board Pipeline Incidents</i>	N	-	-	-
NEBP	<i>National Energy Board Wells</i>	N	-	-	-
NEES	<i>National Environmental Emergencies System (NEES)</i>	N	-	-	-
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPR2	<i>National Pollutant Release Inventory 1993-2020</i>	N	-	-	-
NPRI	<i>National Pollutant Release Inventory - Historic</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	N	-	-	-
OOGW	<i>Ontario Oil and Gas Wells</i>	N	-	-	-
OPCB	<i>Inventory of PCB Storage Sites</i>	N	-	-	-
ORD	<i>Orders</i>	N	-	-	-
PAP	<i>Canadian Pulp and Paper</i>	N	-	-	-
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	N	-	-	-
PES	<i>Pesticide Register</i>	N	-	-	-
PFCH	<i>NPRI Reporters - PFAS Substances</i>	N	-	-	-
PFHA	<i>Potential PFAS Handlers from NPRI</i>	N	-	-	-
PINC	<i>Pipeline Incidents</i>	N	-	-	-
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	N	-	-	-
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	N	-	-	-
RSC	<i>Record of Site Condition</i>	N	-	-	-
RST	<i>Retail Fuel Storage Tanks</i>	N	-	-	-
SCT	<i>Scott's Manufacturing Directory</i>	N	-	-	-
SPL	<i>Ontario Spills</i>	Y	0	1	1
SRDS	<i>Wastewater Discharger Registration Database</i>	N	-	-	-
TANK	<i>Anderson's Storage Tanks</i>	N	-	-	-
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	N	-	-	-
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	N	-	-	-
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	N	-	-	-
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	3	5	8

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</i>	<i>Total</i>
		Total:	4	6	10

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>1</u>	WWIS		lot 6 con 9 ON Well ID: 6807563	ESE/0.0	-0.07	<u>14</u>
<u>2</u>	WWIS		ACREDALE DR lot 6 con 9 CARLISLE ON Well ID: 7208552	SSE/0.0	-0.02	<u>19</u>
<u>3</u>	WWIS		ACREDALE DR lot 6 con 9 CARLISLE ON Well ID: 7204074	ENE/0.0	-0.70	<u>24</u>
<u>4</u>	GEN	City of Hamilton	46 Woodend Drive Flamboro ON	NNE/0.0	-1.09	<u>26</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
5	WWIS		lot 6 con 9 ON Well ID: 6808885	NE/8.3	-1.08	26
6	WWIS		lot 8 con 9 ON Well ID: 6813204	WNW/20.4	-0.05	30
7	SPL		HAMILTON ON	E/129.8	-2.70	34
8	WWIS		lot 6 con 9 ON Well ID: 6813816	NW/136.5	3.07	35
9	WWIS		lot 6 con 9 ON Well ID: 6811941	NW/136.9	3.07	38
10	WWIS		1586 CENTER RD. lot 6 con 9 CARLISLE ON Well ID: 7108717	NNW/242.5	0.29	42

Executive Summary: Summary By Data Source

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 1 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Hamilton	46 Woodend Drive Flamboro ON	0.0	<u>4</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2023; May 2023-Dec 2023 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

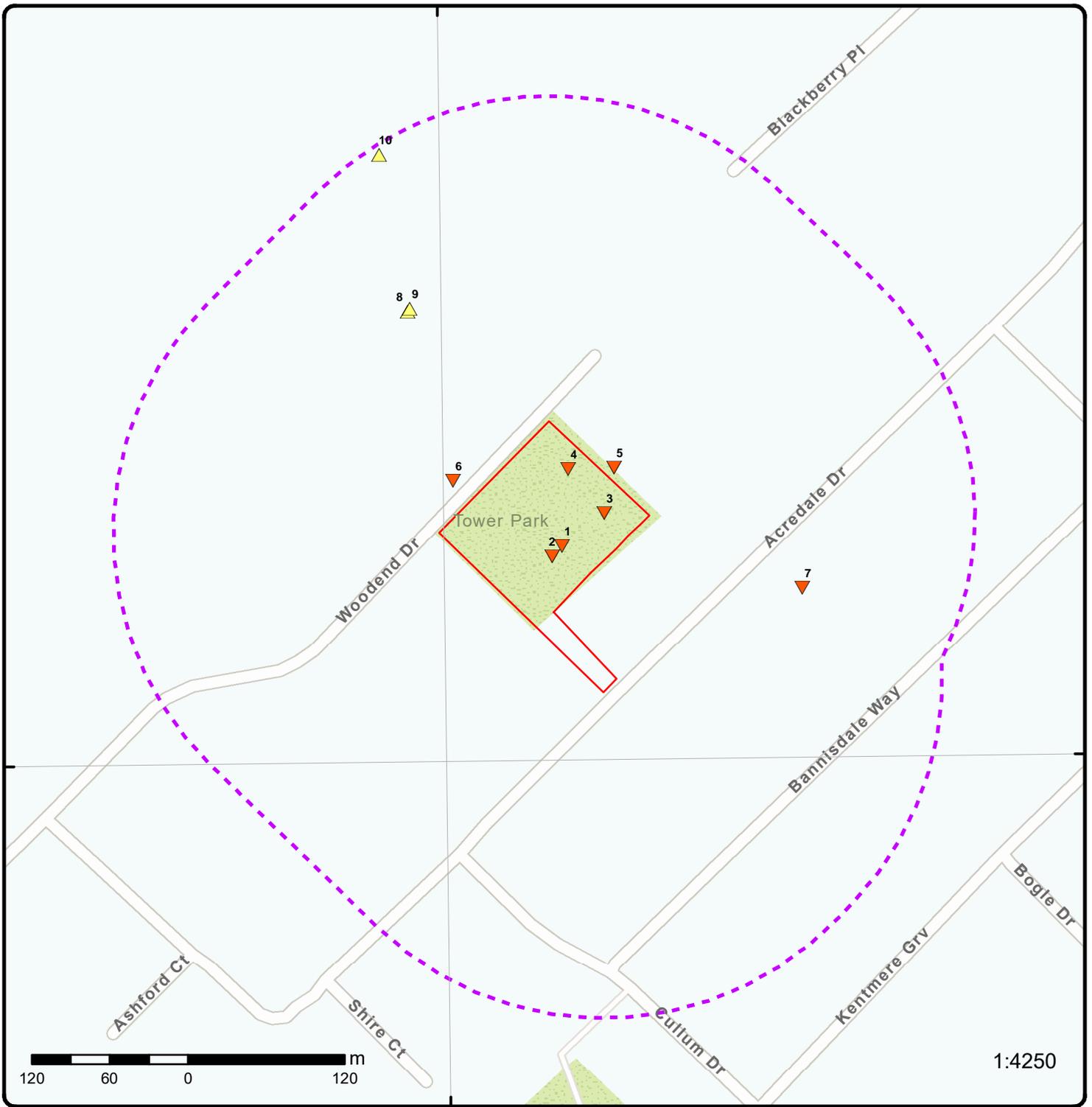
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	HAMILTON ON	129.8	<u>7</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Mar 31 2023 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 6 con 9 ON <i>Well ID: 6807563</i>	0.0	<u>1</u>
	ACREDALE DR lot 6 con 9 CARLISLE ON <i>Well ID: 7208552</i>	0.0	<u>2</u>
	ACREDALE DR lot 6 con 9 CARLISLE ON <i>Well ID: 7204074</i>	0.0	<u>3</u>
	lot 6 con 9 ON	8.3	<u>5</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 6808885		
	lot 8 con 9 ON	20.4	<u>6</u>
	<i>Well ID:</i> 6813204		
	lot 6 con 9 ON	136.5	<u>8</u>
	<i>Well ID:</i> 6813816		
	lot 6 con 9 ON	136.9	<u>9</u>
	<i>Well ID:</i> 6811941		
	1586 CENTER RD. lot 6 con 9 CARLISLE ON	242.5	<u>10</u>
	<i>Well ID:</i> 7108717		



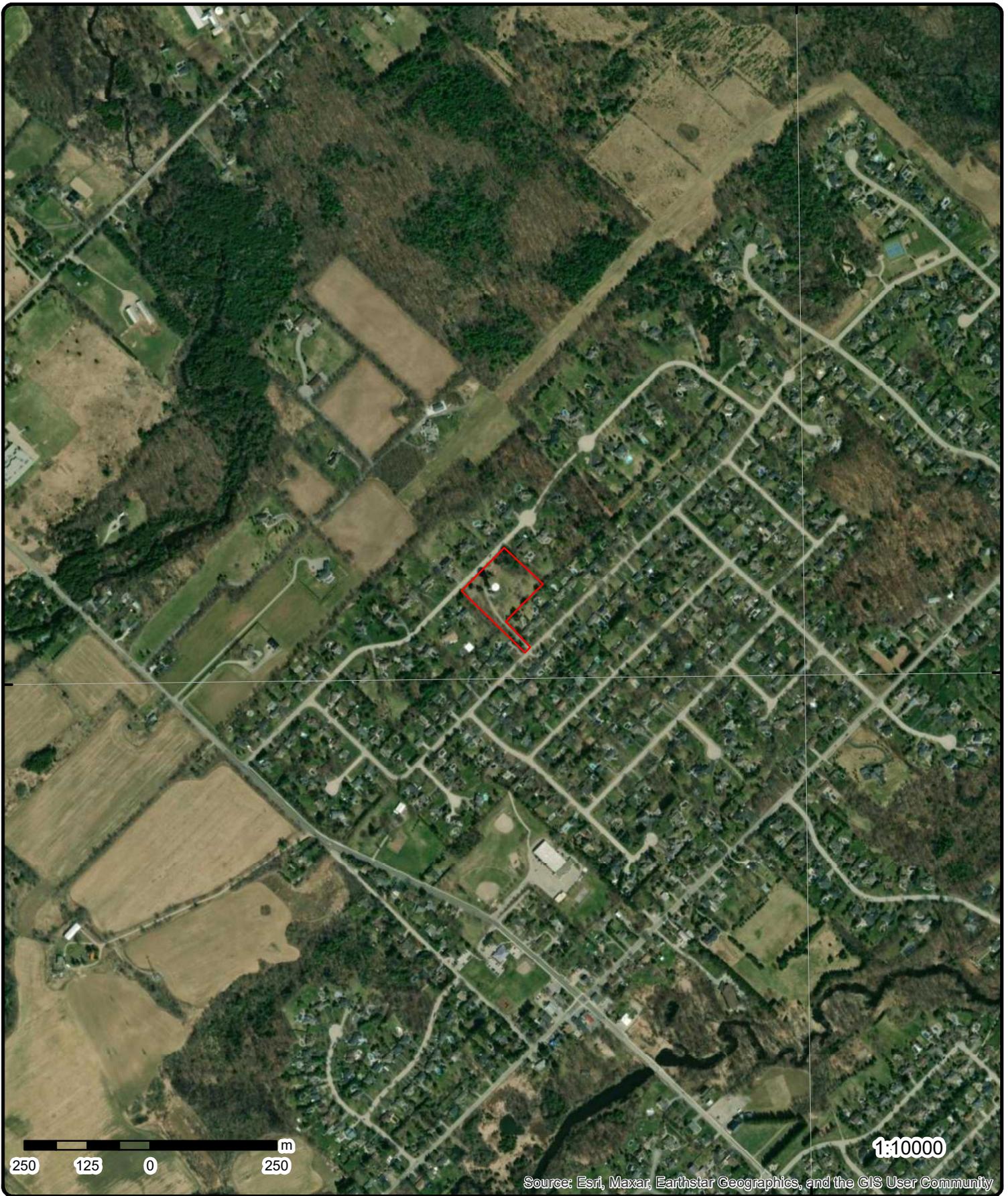
Map: 0.25 Kilometer Radius

Order Number: 24030100788

Address: 42-46 Woodend Drive, Hamilton, 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



Aerial Year: 2021

Order Number: 24030100788

Address: 42-46 Woodend Drive, Hamilton, ON



Source: ESRI World Imagery

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80°0'W

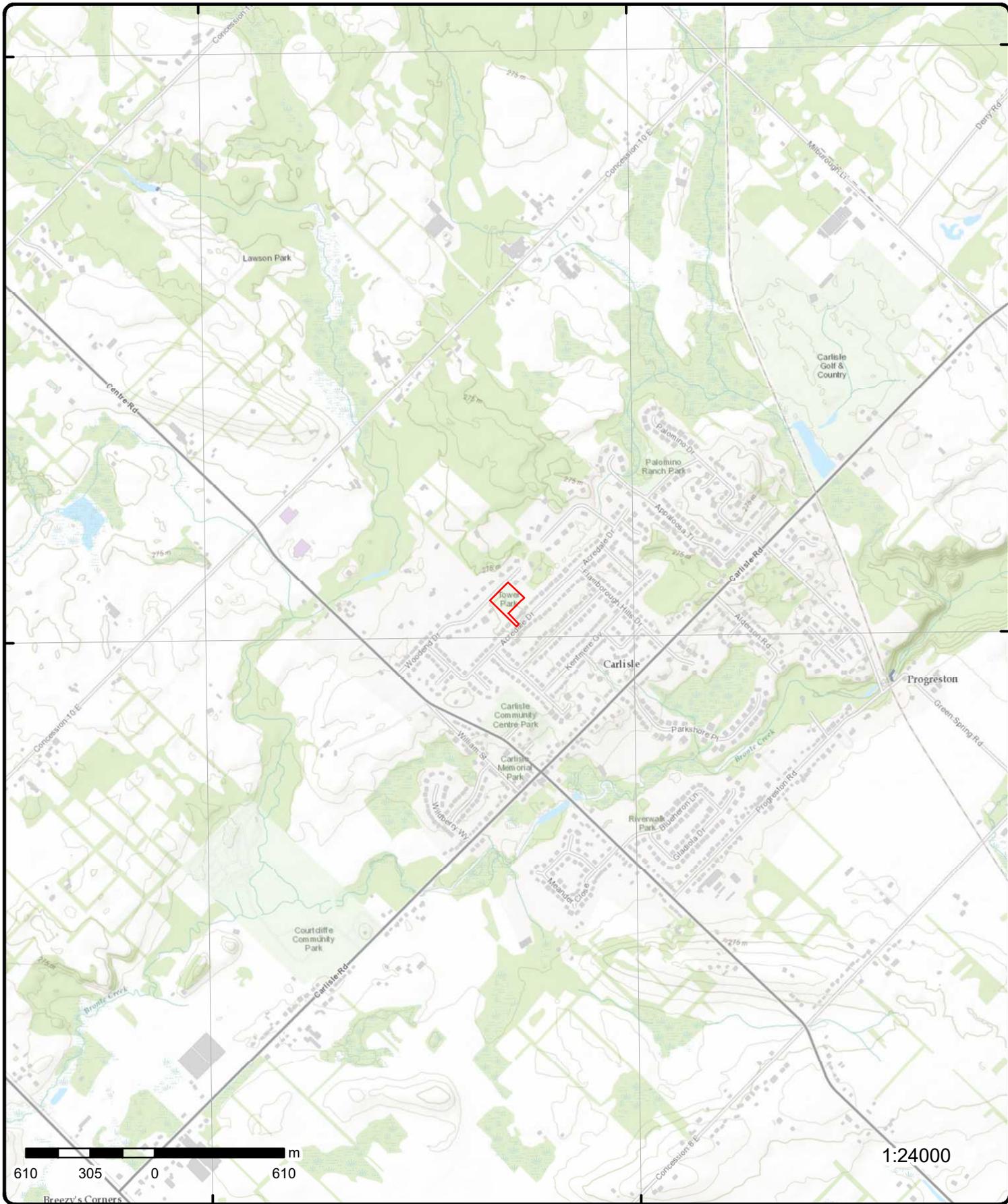
79°58'30"W

43°25'30"N

43°25'30"N

43°24'N

43°24'N



Topographic Map

Order Number: 24030100788

Address: 42-46 Woodend Drive, ON



Source: ESRI World Topographic Map

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	ESE/0.0	274.8 / -0.07	lot 6 con 9 ON	WWIS

<p>Well ID: 6807563</p> <p>Construction Date:</p> <p>Use 1st: Public</p> <p>Use 2nd: 0</p> <p>Final Well Status: Water Supply</p> <p>Water Type:</p> <p>Casing Material:</p> <p>Audit No:</p> <p>Tag:</p> <p>Constructn Method:</p> <p>Elevation (m):</p> <p>Elevatn Reliabilty:</p> <p>Depth to Bedrock:</p> <p>Well Depth:</p> <p>Overburden/Bedrock:</p> <p>Pump Rate:</p> <p>Static Water Level:</p> <p>Clear/Cloudy:</p> <p>Municipality: EAST FLAMBOROUGH TOWNSHIP</p> <p>Site Info:</p>	<p>Flowing (Y/N):</p> <p>Flow Rate:</p> <p>Data Entry Status:</p> <p>Data Src: 1</p> <p>Date Received: 09/16/1970</p> <p>Selected Flag: TRUE</p> <p>Abandonment Rec:</p> <p>Contractor: 5417</p> <p>Form Version: 1</p> <p>Owner:</p> <p>County: WENTWORTH</p> <p>Lot: 006</p> <p>Concession: 09</p> <p>Concession Name: CON</p> <p>Easting NAD83:</p> <p>Northing NAD83:</p> <p>Zone:</p> <p>UTM Reliability:</p>
--	--

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/680\6807563.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/27/1970

Year Completed: 1970

Depth (m): 39.624

Latitude: 43.4014799003229

Longitude: -79.9822355039039

Path: 680\6807563.pdf

Bore Hole Information

<p>Bore Hole ID: 10484971</p> <p>DP2BR:</p> <p>Spatial Status:</p> <p>Code OB:</p> <p>Code OB Desc:</p> <p>Open Hole:</p> <p>Cluster Kind:</p> <p>Date Completed: 08/27/1970</p> <p>Remarks:</p> <p>Loc Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m</p> <p>Elevrc Desc:</p> <p>Location Source Date:</p> <p>Improvement Location Source:</p> <p>Improvement Location Method:</p> <p>Source Revision Comment:</p> <p>Supplier Comment:</p>	<p>Elevation:</p> <p>Elevrc:</p> <p>Zone: 17</p> <p>East83: 582414.40</p> <p>North83: 4805903.00</p> <p>Org CS:</p> <p>UTMRC: 4</p> <p>UTMRC Desc: margin of error : 30 m - 100 m</p> <p>Location Method: p4</p>
--	---

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932685699			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		80.0			
Formation End Depth:		84.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932685701			
Layer:		6			
Color:		1			
General Color:		WHITE			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		97.0			
Formation End Depth:		114.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932685703			
Layer:		8			
Color:		3			
General Color:		BLUE			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		125.0			
Formation End Depth:		130.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932685700			
Layer:		5			
Color:		6			
General Color:		BROWN			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:			84.0		
Formation End Depth:			97.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932685698		
Layer:			3		
Color:			6		
General Color:			BROWN		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			42.0		
Formation End Depth:			80.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932685696		
Layer:			1		
Color:			6		
General Color:			BROWN		
Mat1:			09		
Most Common Material:			MEDIUM SAND		
Mat2:			13		
Mat2 Desc:			BOULDERS		
Mat3:					
Mat3 Desc:					
Formation Top Depth:			0.0		
Formation End Depth:			15.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932685697		
Layer:			2		
Color:			6		
General Color:			BROWN		
Mat1:			09		
Most Common Material:			MEDIUM SAND		
Mat2:			11		
Mat2 Desc:			GRAVEL		
Mat3:					
Mat3 Desc:					
Formation Top Depth:			15.0		
Formation End Depth:			42.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932685702		
Layer:			7		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		114.0			
Formation End Depth:		125.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966807563			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11033541			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930793116			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		42.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930793117			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		130.0			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		996807563			
Pump Set At:					
Static Level:		38.0			
Final Level After Pumping:		41.0			
Recommended Pump Depth:		120.0			
Pumping Rate:		25.0			
Flowing Rate:					
Recommended Pump Rate:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>		1			
<i>Water State After Test:</i>		CLEAR			
<i>Pumping Test Method:</i>		1			
<i>Pumping Duration HR:</i>		1			
<i>Pumping Duration MIN:</i>		0			
<i>Flowing:</i>		No			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		934868608			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		45			
<i>Test Level:</i>		41.0			
<i>Test Level UOM:</i>		ft			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		935138444			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		41.0			
<i>Test Level UOM:</i>		ft			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		934352367			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		40.0			
<i>Test Level UOM:</i>		ft			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		934616367			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		30			
<i>Test Level:</i>		41.0			
<i>Test Level UOM:</i>		ft			
 <u>Water Details</u>					
<i>Water ID:</i>		933976339			
<i>Layer:</i>		1			
<i>Kind Code:</i>		1			
<i>Kind:</i>		FRESH			
<i>Water Found Depth:</i>		51.0			
<i>Water Found Depth UOM:</i>		ft			
 <u>Links</u>					
<i>Bore Hole ID:</i>	10484971			<i>Tag No:</i>	
<i>Depth M:</i>	39.624			<i>Contractor:</i>	5417
<i>Year Completed:</i>	1970			<i>Latitude:</i>	43.4014799003229
<i>Well Completed Dt:</i>	08/27/1970			<i>Longitude:</i>	-79.9822355039039
<i>Audit No:</i>				<i>Y:</i>	43.40147989781263
<i>Path:</i>	680\6807563.pdf			<i>X:</i>	-79.98223535534704

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	SSE/0.0	274.9 / -0.02	ACREDALE DR lot 6 con 9 CARLISLE ON	WWIS

Well ID:	7208552	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Public	Data Entry Status:	
Use 2nd:		Data Src:	
Final Well Status:	Alteration	Date Received:	10/01/2013
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	Z151373	Contractor:	2604
Tag:	A131355	Form Version:	7
Constructn Method:		Owner:	
Elevation (m):		County:	WENTWORTH
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	09
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	EAST FLAMBOROUGH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7208552.pdf

Additional Detail(s) (Map)

Well Completed Date:	08/01/2013
Year Completed:	2013
Depth (m):	39.0144
Latitude:	43.4014086892525
Longitude:	-79.9823280805995
Path:	720\7208552.pdf

Bore Hole Information

Bore Hole ID:	1004585995	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	582407.00
Code OB Desc:		North83:	4805895.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	08/01/2013	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004614499
Layer:	2
Color:	
General Color:	
Mat1:	
Most Common Material:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		41.0			
Formation End Depth:		128.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1004614498			
Layer:		1			
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		41.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004614524			
Layer:		1			
Plug From:		6.0			
Plug To:		41.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1004614523			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004614496			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004614502			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		3.0			
Depth To:		41.0			
Casing Diameter:		6.199999809265137			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Screen</u>					
Screen ID:			1004614503		
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:			ft		
Screen Diameter UOM:			inch		
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:					
Pump Test ID:			1004614497		
Pump Set At:			70.0		
Static Level:			41.0		
Final Level After Pumping:			43.72999954223633		
Recommended Pump Depth:			70.0		
Pumping Rate:			168.0		
Flowing Rate:					
Recommended Pump Rate:			168.0		
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			1		
Water State After Test:			CLEAR		
Pumping Test Method:			0		
Pumping Duration HR:			8		
Pumping Duration MIN:					
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004614509		
Test Type:			Recovery		
Test Duration:			3		
Test Level:			41.7599983215332		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004614511		
Test Type:			Recovery		
Test Duration:			4		
Test Level:			41.7599983215332		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004614516		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			43.400001525878906		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004614520		
Test Type:			Draw Down		
Test Duration:			50		
Test Level:			43.43000030517578		

<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>
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614507			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		41.83000183105469			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614517			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		43.43000030517578			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614513			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		41.72999954223633			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614505			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		41.88999938964844			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614521			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		43.470001220703125			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614508			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		43.29999923706055			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614512			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		43.34000015258789			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					

<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>
Pump Test Detail ID:		1004614519			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		43.43000030517578			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614506			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		43.29999923706055			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614510			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		43.33000183105469			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614514			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		43.400001525878906			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614518			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		43.43000030517578			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614504			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		43.27000045776367			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614515			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		41.630001068115234			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		1004614501			
Layer:					
Kind Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1004614500			
Diameter:		13.0			
Depth From:		0.0			
Depth To:		41.0			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<u>Links</u>					
Bore Hole ID:	1004585995			Tag No:	A131355
Depth M:	39.0144			Contractor:	2604
Year Completed:	2013			Latitude:	43.4014086892525
Well Completed Dt:	08/01/2013			Longitude:	-79.9823280805995
Audit No:	Z151373			Y:	43.401408686800245
Path:	720\7208552.pdf			X:	-79.9823279321039

<u>3</u>	1 of 1	ENE/0.0	274.2 / -0.70	ACREDALE DR lot 6 con 9 CARLISLE ON	WWIS
Well ID:	7204074			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:				Data Entry Status:	
Use 2nd:				Data Src:	
Final Well Status:	Alteration			Date Received:	07/02/2013
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	Z151351			Contractor:	2604
Tag:	A131386			Form Version:	7
Constructn Method:				Owner:	
Elevation (m):				County:	WENTWORTH
Elevatn Reliabilty:				Lot:	006
Depth to Bedrock:				Concession:	09
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	EAST FLAMBOROUGH TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7204074.pdf				

Additional Detail(s) (Map)

Well Completed Date:	06/12/2013
Year Completed:	2013
Depth (m):	
Latitude:	43.4017013927869
Longitude:	-79.98182920794
Path:	720\7204074.pdf

Bore Hole Information

Bore Hole ID:	1004385662	Elevation:	
DP2BR:		Elevrc:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Spatial Status:				Zone:	17
Code OB:				East83:	582447.00
Code OB Desc:				North83:	4805928.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:		06/12/2013	UTMRC Desc:		margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Loc Method Desc:		on Water Well Record			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004804158			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004804152			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004804156			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-2.5			
Depth To:		7.699999809265137			
Casing Diameter:		12.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004804157			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1004804155			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Hole Diameter

Hole ID: 1004804154
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID:	1004385662	Tag No:	A131386
Depth M:		Contractor:	2604
Year Completed:	2013	Latitude:	43.4017013927869
Well Completed Dt:	06/12/2013	Longitude:	-79.98182920794
Audit No:	Z151351	Y:	43.40170139115491
Path:	720\7204074.pdf	X:	-79.98182905913139

<u>4</u>	1 of 1	NNE/0.0	273.8 / -1.09	City of Hamilton 46 Woodend Drive Flamboro ON	GEN
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Generator No: ON4696224
SIC Code: 221310
SIC Description: WATER SUPPLY AND IRRIGATION SYSTEMS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

<u>5</u>	1 of 1	NE/8.3	273.8 / -1.08	lot 6 con 9 ON	WWIS
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Well ID:	6808885	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Public	Data Entry Status:	
Use 2nd:	Municipal	Data Src:	1
Final Well Status:	Water Supply	Date Received:	08/06/1974
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	5417
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	WENTWORTH
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	09
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Municipality:		EAST FLAMBOROUGH TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/680\6808885.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		07/12/1974			
Year Completed:		1974			
Depth (m):		35.9664			
Latitude:		43.4020156852768			
Longitude:		-79.9817325587094			
Path:		680\6808885.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10486241			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	582454.40
Code OB Desc:				North83:	4805963.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	07/12/1974			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 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:	932689816				
Layer:	5				
Color:	3				
General Color:	BLUE				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	112.0				
Formation End Depth:	116.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932689812				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	11				
Most Common Material:	GRAVEL				
Mat2:	13				
Mat2 Desc:	BOULDERS				
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:			0.0		
Formation End Depth:			29.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932689814		
Layer:			3		
Color:			1		
General Color:			WHITE		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			85.0		
Formation End Depth:			101.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932689813		
Layer:			2		
Color:			6		
General Color:			BROWN		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			29.0		
Formation End Depth:			85.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932689817		
Layer:			6		
Color:			7		
General Color:			RED		
Mat1:			17		
Most Common Material:			SHALE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			116.0		
Formation End Depth:			118.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932689815		
Layer:			4		
Color:			2		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		101.0			
Formation End Depth:		112.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966808885			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11034811			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930795264			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30.0			
Casing Diameter:		10.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930795265			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		118.0			
Casing Diameter:		10.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		BAILER			
Pump Test ID:		996808885			
Pump Set At:					
Static Level:		21.0			
Final Level After Pumping:		23.0			
Recommended Pump Depth:					
Pumping Rate:		43.0			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934620301			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		23.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934872521			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		23.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935141968			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		23.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934356332			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		23.0			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID:		933977913			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		38.0			
Water Found Depth UOM:		ft			
 <u>Links</u>					
Bore Hole ID:		10486241		Tag No:	
Depth M:		35.9664		Contractor:	
Year Completed:		1974		5417	
Well Completed Dt:		07/12/1974		Latitude:	
Audit No:				43.4020156852768	
Path:		680\6808885.pdf		Longitude:	
				-79.9817325587094	
				Y:	
				43.40201568317653	
				X:	
				-79.98173241029117	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	6813204			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:				Data Src:	1
Final Well Status:	Water Supply			Date Received:	09/23/1999
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	204443			Contractor:	4005
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	WENTWORTH
Elevatn Reliability:				Lot:	008
Depth to Bedrock:				Concession:	09
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		EAST FLAMBOROUGH TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/681\6813204.pdf

Additional Detail(s) (Map)

Well Completed Date: 09/09/1999
Year Completed: 1999
Depth (m): 24.384
Latitude: 43.4019392128233
Longitude: -79.983257752018
Path: 681\6813204.pdf

Bore Hole Information

Bore Hole ID:	10490517	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	582331.00
Code OB Desc:		North83:	4805953.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	09/09/1999	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	gis
Loc Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 932704273
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		30.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932704274			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		30.0			
Formation End Depth:		80.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933211923			
Layer:		1			
Plug From:		0.0			
Plug To:		20.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		966813204			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11039087			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930801764			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		80.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930801763			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		996813204			
Pump Set At:					
Static Level:		26.0			
Final Level After Pumping:		70.0			
Recommended Pump Depth:		75.0			
Pumping Rate:		30.0			
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:					
Pumping Duration MIN:		30			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934623580			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		70.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934352135			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		70.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933983616			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		75.0			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933983615			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		37.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth UOM:		ft			
Links					
Bore Hole ID:	10490517			Tag No:	
Depth M:	24.384			Contractor:	4005
Year Completed:	1999			Latitude:	43.4019392128233
Well Completed Dt:	09/09/1999			Longitude:	-79.983257752018
Audit No:	204443			Y:	43.40193921101948
Path:	681\6813204.pdf			X:	-79.98325760363976

<u>7</u>	1 of 1	E/129.8	272.2 / -2.70	HAMILTON ON	SPL
Ref No:	1-4GPHVI			Municipality No:	
Year:				Nature of Damage:	
Incident Dt:	11/29/2023 2:36:00 PM			Discharger Report:	
Dt MOE Arvl on Scn:				Material Group:	
MOE Reported Dt:	11/30/2023 10:03:19 AM			Health/Env Conseq:	
Dt Document Closed:				Agency Involved:	
Site No:					
MOE Response:	Desktop Response				
Site County/District:					
Site Geo Ref Meth:					
Site District Office:	Hamilton District Office				
Nearest Watercourse:					
Site Name:					
Site Address:					
Site Region:					
Site Municipality:	HAMILTON				
Site Lot:					
Site Conc:					
Site Geo Ref Accu:					
Site Map Datum:					
Northing:					
Easting:					
Incident Cause:					
Incident Event:	Line Strike				
Environment Impact:					
Nature of Impact:					
Contaminant Qty:	0 other - see notes				
System Facility Address:					
Client Name:	ENBRIDGE INC				
Client Type:	Private Business				
Source Type:	Pipeline/Components				
Contaminant Code:					
Contaminant Name:	NATURAL GAS				
Contaminant Limit 1:					
Contam Limit Freq 1:					
Contaminant UN No 1:					
Receiving Medium:	Air				
Incident Reason:	Human error (Specify)				
Incident Summary:	enbridge/tssa: drill damaged meter				
Activity Preceding Spill:	Other (specify)				
Property 2nd Watershed:	02H Northern Lake Ontario and Niagara River				
Property Tertiary Watershed:	02HB Sixteen Mile Creek - Credit River				
Sector Type:	NATURAL GAS DISTRIBUTION				
SAC Action Class:					
Call Report Locatn Geodata:	{ "integration_ids": ["PR00001078536"], "wks": ["POINT (-79.9799623000 43.4011710000)", "POINT (-79.9799623000 43.4011710000)"], "creation_date": "2023-11-30" }				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>8</u>	1 of 1	NW/136.5	278.0 / 3.07	lot 6 con 9 ON	WWIS

Well ID:	6813816	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Not Used	Data Entry Status:	
Use 2nd:		Data Src:	1
Final Well Status:	Observation Wells	Date Received:	06/03/2003
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	255723	Contractor:	7133
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	WENTWORTH
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	09
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	EAST FLAMBOROUGH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/681\6813816.pdf

Additional Detail(s) (Map)

Well Completed Date:	02/03/2003
Year Completed:	2003
Depth (m):	39.624
Latitude:	43.4031134491576
Longitude:	-79.9836703492696
Path:	681\6813816.pdf

Bore Hole Information

Bore Hole ID:	10542380	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	582296.00
Code OB Desc:		North83:	4806083.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	7
Date Completed:	02/03/2003	UTMRC Desc:	margin of error : 1 km - 3 km
Remarks:		Location Method:	lot
Loc Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932922363
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	15
Most Common Material:	LIMESTONE

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:		40.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932922361			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		28			
Mat3 Desc:		SAND			
Formation Top Depth:		0.0			
Formation End Depth:		30.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932922364			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		40.0			
Formation End Depth:		110.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932922362			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		05			
Mat3 Desc:		CLAY			
Formation Top Depth:		30.0			
Formation End Depth:		35.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		932922365			
Layer:		5			
Color:		7			
General Color:		RED			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:		85			
Mat2 Desc:		SOFT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		110.0			
Formation End Depth:		130.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933240275			
Layer:		1			
Plug From:		0.0			
Plug To:		15.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966813816			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11090950			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930802641			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		40.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:					
Pump Test ID:		996813816			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:		43.0			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR: 13
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 934036210
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 70.0
Water Found Depth UOM: ft

Water Details

Water ID: 934036208
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Water Details

Water ID: 934036209
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 55.0
Water Found Depth UOM: ft

Water Details

Water ID: 934036211
Layer: 4
Kind Code: 1
Kind: FRESH
Water Found Depth: 75.0
Water Found Depth UOM: ft

Links

Bore Hole ID:	10542380	Tag No:	
Depth M:	39.624	Contractor:	7133
Year Completed:	2003	Latitude:	43.4031134491576
Well Completed Dt:	02/03/2003	Longitude:	-79.9836703492696
Audit No:	255723	Y:	43.403113446718464
Path:	681\6813816.pdf	X:	-79.98367020051352

9	1 of 1	NW/136.9	278.0 / 3.07	lot 6 con 9 ON	WWIS
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Well ID:	6811941	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:		Data Src:	1
Final Well Status:	Water Supply	Date Received:	09/28/1990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	76388			Contractor:	4005
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	WENTWORTH
Elevatn Reliabilty:				Lot:	006
Depth to Bedrock:				Concession:	09
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		EAST FLAMBOROUGH TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/681\6811941.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		09/01/1990			
Year Completed:		1990			
Depth (m):		13.716			
Latitude:		43.4031313015825			
Longitude:		-79.9836527613462			
Path:		681\6811941.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10489255			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	582297.40
Code OB Desc:				North83:	4806085.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	09/01/1990			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	lot
Loc Method Desc:		Lot centroid			
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:	932699971				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	81				
Mat2 Desc:	SANDY				
Mat3:	77				
Mat3 Desc:	LOOSE				
Formation Top Depth:	12.0				
Formation End Depth:	35.0				
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:		932699972			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		73			
Mat2 Desc:		HARD			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		35.0			
Formation End Depth:		45.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932699970			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		77			
Mat3 Desc:		LOOSE			
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966811941			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11037825			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930799736			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		35.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		930799737			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		45.0			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		996811941			
Pump Set At:					
Static Level:		14.0			
Final Level After Pumping:		36.0			
Recommended Pump Depth:		42.0			
Pumping Rate:		12.0			
Flowing Rate:					
Recommended Pump Rate:		10.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935141567			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		14.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934357058			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		14.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934628430			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		14.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934881009			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		14.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Test Level UOM: ft

Water Details

Water ID: 933981862
 Layer: 2
 Kind Code: 5
 Kind: Not stated
 Water Found Depth: 43.0
 Water Found Depth UOM: ft

Water Details

Water ID: 933981861
 Layer: 1
 Kind Code: 5
 Kind: Not stated
 Water Found Depth: 37.0
 Water Found Depth UOM: ft

Links

Bore Hole ID:	10489255	Tag No:	
Depth M:	13.716	Contractor:	4005
Year Completed:	1990	Latitude:	43.4031313015825
Well Completed Dt:	09/01/1990	Longitude:	-79.9836527613462
Audit No:	76388	Y:	43.403131300212436
Path:	681\6811941.pdf	X:	-79.98365261240257

10	1 of 1	NNW/242.5	275.2 / 0.29	1586 CENTER RD. lot 6 con 9 CARLISLE ON	WWIS
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Well ID:	7108717	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:		Data Src:	
Final Well Status:	Water Supply	Date Received:	07/24/2008
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	Z79412	Contractor:	4005
Tag:	A070678	Form Version:	4
Constructn Method:		Owner:	
Elevation (m):		County:	WENTWORTH
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	09
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	EAST FLAMBOROUGH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/7107108717.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/12/2008
 Year Completed: 2008
 Depth (m): 21.33
 Latitude: 43.4041962273439
 Longitude: -79.9839239427164

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Path:		710\7108717.pdf			

Bore Hole Information

Bore Hole ID:	1001689218	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	582274.00
Code OB Desc:		North83:	4806203.00
Open Hole:	Yes	Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	05/12/2008	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1001725325
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	81
Mat2 Desc:	SANDY
Mat3:	05
Mat3 Desc:	CLAY
Formation Top Depth:	0.0
Formation End Depth:	5.480000019073486
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1001725327
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0500000190734863
Formation End Depth:	21.329999923706055
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1001725326
Layer:	2
Color:	6
General Color:	BROWN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		5.480000019073486			
Formation End Depth:		10.0500000190734863			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1001725329			
Layer:		1			
Plug From:		0.0			
Plug To:		6.0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1001725351			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1001725323			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1001725331			
Layer:					
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10.0500000190734863			
Casing Diameter:		15.199999809265137			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1001725332			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:					
Screen Diameter UOM:					
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		SUBMERGE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test ID:		1001725324			
Pump Set At:		20.0			
Static Level:		11.460000038146973			
Final Level After Pumping:		12.800000190734863			
Recommended Pump Depth:		20.0			
Pumping Rate:		113.6500015258789			
Flowing Rate:					
Recommended Pump Rate:		113.6500015258789			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		4			
Pumping Duration HR:		1			
Pumping Duration MIN:					
Flowing:					
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725335			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		12.430000305175781			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725337			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		12.489999771118164			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725338			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		11.520000457763672			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725348			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		12.779999732971191			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725341			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		12.550000190734863			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725345			
Test Type:		Draw Down			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Duration:</i>			25		
<i>Test Level:</i>			12.739999771118164		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725347		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			40		
<i>Test Level:</i>			12.770000457763672		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725349		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			60		
<i>Test Level:</i>			12.800000190734863		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725334		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			1		
<i>Test Level:</i>			11.670000076293945		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725344		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			20		
<i>Test Level:</i>			12.720000267028809		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725342		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			10		
<i>Test Level:</i>			12.630000114440918		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725333		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			1		
<i>Test Level:</i>			12.369999885559082		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725339		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			4		
<i>Test Level:</i>			12.520000457763672		
<i>Test Level UOM:</i>			m		

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Draw Down & Recovery

Pump Test Detail ID: 1001725336
Test Type: Recovery
Test Duration: 2
Test Level: 11.550000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001725343
Test Type: Draw Down
Test Duration: 15
Test Level: 12.6899995803833
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001725340
Test Type: Recovery
Test Duration: 4
Test Level: 11.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001725346
Test Type: Draw Down
Test Duration: 30
Test Level: 12.75
Test Level UOM: m

Water Details

Water ID: 1001725330
Layer: 1
Kind Code:
Kind:
Water Found Depth: 19.200000762939453
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001725328
Diameter: 25.399999618530273
Depth From:
Depth To: 6.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID:	1001689218	Tag No:	A070678
Depth M:	21.33	Contractor:	4005
Year Completed:	2008	Latitude:	43.4041962273439
Well Completed Dt:	05/12/2008	Longitude:	-79.9839239427164
Audit No:	Z79412	Y:	43.40419622507945
Path:	710\7108717.pdf	X:	-79.98392379384381

Unplottable Summary

Total: 4 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
GEN	UNION GAS LIMITED 39-480	CARISLE STN., LOT 5, CONC.9 FLAMBOROUGH EAST, C/O 50 KEIL DR.N.	CHATHAM ON	N7M 5M1
GEN	UNION GAS LIMITED	CARISLE STATION LOT 5, CONCESSION 9	FLAMBOROUGH EAST ON	
PRT	BATES & GREEN GARAGE	LOT 7 CON 9 E FLAMBORO TWP	CARLISLE ON	
SPL	ONTARIO HYDRO	LOT 7 CON. 9 , BIRCHWOOD. TRANSFORMER	FLAMBOROUGH TOWN ON	

Unplottable Report

Site: UNION GAS LIMITED 39-480
CARISLE STN., LOT 5, CONC.9 FLAMBOROUGH EAST, C/O 50 KEIL DR.N. CHATHAM ON N7M 5M1

Database:
GEN

Generator No: ON0178236
SIC Code: 4611
SIC Description: GAS PIPELINE TRANS.
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Site: UNION GAS LIMITED
CARISLE STATION LOT 5, CONCESSION 9 FLAMBOROUGH EAST ON

Database:
GEN

Generator No: ON0178236
SIC Code: 4611
SIC Description: GAS PIPELINE TRANS.
Approval Years: 97,98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Site: BATES & GREEN GARAGE
LOT 7 CON 9 E FLAMBORO TWP CARLISLE ON

Database:
PRT

Location ID: 2794
Type: retail
Expiry Date: 1995-08-31
Capacity (L): 0
Licence #: 0025894001

Site: ONTARIO HYDRO

Database:

Ref No:	9021	Municipality No:	16404
Year:		Nature of Damage:	
Incident Dt:	9/8/1988	Discharger Report:	
Dt MOE Arvl on Scn:		Material Group:	
MOE Reported Dt:	9/8/1988	Health/Env Conseq:	
Dt Document Closed:		Agency Involved:	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	FLAMBOROUGH TOWN		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	OTHER CONTAINER LEAK		
Incident Event:			
Environment Impact:			
Nature of Impact:			
Contaminant Qty:			
System Facility Address:			
Client Name:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	LAND		
Incident Reason:	GASKET/JOINT		
Incident Summary:	ONTARIO HYDRO-0.5 L TRANSFORMER OIL SPILLED		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:			
Call Report Locatn Geodata:			

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Mar 2022

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

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

Government Publication Date: 1999-Oct 31, 2023

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2022

Commercial Fuel Oil Tanks:

Provincial CFOT

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

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

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors:

Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

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

Government Publication Date: 1999-Oct 31, 2023

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 2023

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Nov 2023

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994 - Jan 31, 2024

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 - Aug 2023**Delisted Fuel Tanks:**Provincial [DTNK](#)

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

Government Publication Date: Oct 2023**Environmental Activity and Sector Registry:**Provincial [EASR](#)

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

Government Publication Date: Oct 2011-Dec 31, 2023**Environmental Registry:**Provincial [EBR](#)

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

Government Publication Date: 1994 - Jan 31, 2024**Environmental Compliance Approval:**Provincial [ECA](#)

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

Government Publication Date: Oct 2011- Dec 31, 2023**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-Dec 31, 2023**Environmental Issues Inventory System:**Federal [EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report:

Provincial **EPAR**

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2022

List of Expired Fuels Safety Facilities:

Provincial **EXP**

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

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

Government Publication Date: Oct 2023

Federal Convictions:

Federal **FCON**

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

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

Government Publication Date: Jun 2000-Oct 2023

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

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

Government Publication Date: Oct 31, 2021

Fuel Storage Tank:

Provincial **FST**

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

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

Government Publication Date: Oct 2023

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

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

Government Publication Date: 1986-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

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

Government Publication Date: 2013-Dec 2021

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: 31 Oct, 2023

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

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

Government Publication Date: Mar 31, 2022

Canadian Mine Locations:

Private

[MINE](#)

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

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

Government Publication Date: 1846-Feb 2023

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

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

Government Publication Date: Dec 31, 2022

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

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

Government Publication Date: Mar 1999-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal [NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

[NPCB](#)

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020:

Federal

[NPR2](#)

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Sep 2020

National Pollutant Release Inventory - Historic:

Federal

[NPRI](#)

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

[OGWE](#)

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

Government Publication Date: 1988-Nov 30, 2023

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-Aug 2023

Inventory of PCB Storage Sites:

Provincial

[OPCB](#)

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

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

Orders:

Provincial

[ORD](#)

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

Government Publication Date: 1994 - Jan 31, 2024

Canadian Pulp and Paper:

Private

PAP

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

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

Parks Canada Fuel Storage Tanks:

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

PES

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

Government Publication Date: Oct 2011- Dec 31, 2023

NPRI Reporters - PFAS Substances:

Federal

PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Sep 2020

Potential PFAS Handlers from NPRI:

Federal

PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Sep 2020

Pipeline Incidents:

Provincial

PINC

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

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks:

Provincial

PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial

PTTW

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

Government Publication Date: 1994 - Jan 31, 2024

Ontario Regulation 347 Waste Receivers Summary:

Provincial

REC

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

Government Publication Date: 1986-1990, 1992-2021

Record of Site Condition:

Provincial **RSC**

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Nov 2023

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-Oct 31, 2023

Scott's Manufacturing Directory:

Private **SCD**

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial **SPL**

List of spills and incidents made available by the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. 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-Jan 2023; May 2023-Dec 2023

Wastewater Discharger Registration Database:

Provincial **SRDS**

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation, Mining, Petroleum Refining, Organic Chemicals, Inorganic Chemicals, Pulp & Paper, Metal Casting, Iron & Steel, and Quarries.

Government Publication Date: 1990-Dec 31, 2020

Anderson's Storage Tanks:

Private **TANK**

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal **TCFT**

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

Government Publication Date: 1970 - Apr 2023

Variations for Abandonment of Underground Storage Tanks:

Provincial **VAR**

Listing of variations granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variations 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-Dec 31, 2023

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

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

Government Publication Date: Mar 31 2023

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

Appendix E

FOI Documents



City of Hamilton
 71 Main Street West, 1st
 Floor HAMILTON ON
 L8P 4Y5

Access/Correction Request
Municipal Freedom of Information
and Protection of Privacy Act
Personal Health Information
Protection Act

Application Fee \$5.00 An application fee of \$5.00 must accompany all requests for information and/or correction requests. Please make cheque or money order payable to the City of Hamilton. Forward to the Manager, Records & Freedom of Information, Office of the City Clerk, 71 Main Street West, 1st Floor, Hamilton, Ontario L8P 4Y5

Section A. 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 Access/Correction to own personal health information	City of Hamilton Identify Department and/or Health Information Custodian (if known):
--	--

Section B. Requester's Information

Last Name		First Name	
Unit Number	Street Number	Street Name	PO Box
City/Town		Province	Postal Code
Telephone Number			
Home	Mobile	Business	ext
Email Address			

Section C. Description of Records of Correction Requested

Time period of the records: From (dd/mm/yyyy) To (dd/mm/yyyy)	Method of access Receive copy Examine original (on site only)
--	--

FOR INSTITUTION USE ONLY:		
Date Request Received (dd/mm/yyyy):	Request Number	Due Date (dd/mm/yyyy)

Personal information contained in this form is collected pursuant the *Municipal Freedom of Information and Protection of Privacy Act (s. 17.1)* and/or the *Personal Health Information Protection Act (s. 53)* and will be used for the purpose of responding to your request. Questions about this collection should be directed to the Manager, Records & Freedom of Information in the Office of the City Clerk at (905) 546-2424 ext. 2743.

Ministry of the Environment, Conservation and Parks

Freedom of Information Request for Property Information

Instructions

Use this form to:

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

Fields marked with an asterisk (*) are mandatory.

Are you: *

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

Section 1 – Description of Records Requested

Time Period for Records Requested

From (yyyy/mm/dd) *

1985/01/01

To (yyyy/mm/dd) *

2024/03/05

Type of Record(s) *

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

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

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

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

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

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

Other Specific Document(s)

Type of Approval/Registration *

- Drinking Water Licenses
- Pesticide Licenses

- Permits to Take Water
- Noise Vibrations Approvals/Registrations
- Air Emissions Approvals/Registrations
- Water Approvals/Registrations - Ontario Water Resources Commission, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster), mains
- Sewage – Treatment, Stormwater, Storm, Leachate & Lieachate Treatment & Sewage pump stations, Sanitary
- Waste Water - Industrial discharge
- Waste Sites - Disposal, Landfill sites, Transfer stations, Processing sites, Incinerator sites
 - No Supporting Documents
 - All Supporting Documents
 - Some Supporting Documents
- Waste Management Systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, Polychlorinated Biphenyls (PCBs) storage, transfer or destruction, Waste Generator Systems)
- Waste Generator Registration - number/class

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

n/a

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

n/a

Section 2 – Requester Information

Last Name *

Fleet

First Name *

Bailey

Middle Initial

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

Palmer

Project/Reference Number (if applicable)

2108704

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

Yes No

Mailing Address

Unit Number

1

Street Number *

871

Street Name *

Equestrian Court

PO Box

City/Town *

Oakville

Province *

ON

Postal Code *

L6L 6L7

Telephone Number *

905-708-7299

ext.

Email Address *

bailey.fleet@pecg.ca

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

Yes No

Section 3 – Current Property Address Information

Is the property a:

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

Please upload a map of the property in Section 5 (Supporting Documentation)

Please upload a map of the property in Section 6 (Supporting Documentation)

Are you requesting information about multiple addresses? *

Yes No

Property Address

Unit Number

Street Number

Street Name

46

Woodend Drive

Full Lot Number

Concession

Geographic Township

6

9

Carlisle

City/Town/Village *

Hamilton

Closest Intersection

Acredale Dr and Cullum Dr

Section 4 – Previous Property Address Information

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

Yes No

Section 5 – Owner Information

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

Current Property Owner/Tenant

46 Woodend Drive

Lot 6 Conc 9 Carlisle

Hamilton

Owner Name

The Regional Municipality of Hamilton-Wentworth

Date of Ownership (yyyy/mm/dd)

Tenant Name

Section 6 – Supporting Documents

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

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

1. File Name

Woodend.JPG

Total File Size

0.16 MB

Payment confirmation number: 28618963

Re: TSSA Record Search for Properties at Two Sites in Carlisle Hamilton

4 messages

Frank Liu <frank.liu@pecg.ca>

Fri, Jan 26, 2024 at 7:31 AM

To: "publicinformationsservices@tssa.org" <publicinformationsservices@tssa.org>

Dear Sirs or Madame of TSSA,

Could you please conduct a search for fuel storage tank records for the following properties in Carlisle Hamilton?

1. 1535 Centre Rd, Carlisle, Hamilton
2. 42-46 Woodend Drive, Carlisle, Hamilton

Thanks

Frank Liu
Hydrogeologist

| c (647) 972 0433 | e frank.Liu@pecg.ca

Learn More:

www.pecg.ca

Public Information Services <publicinformationsservices@tssa.org>

Fri, Jan 26, 2024 at 9:36 AM

To: Frank Liu <frank.liu@pecg.ca>

Hello ,

NO RECORDS FOUND IN CURRENT DATABASE:

- We confirm that there are NO **fuels records** in our database at the subject address(es).

[42-46 Woodend Drive, Carlisle, Hamilton](#). Please confirm if this is a address range or a unit number.

This is not a confirmation that there are no records in the archives. For a further search in our archives, please apply for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

Please follow the steps below to access the applications and the Service Prepayment Portal:

Accessing the applications

1. Click [Request a Public Record](#)
2. Select the appropriate application, download it, complete it in full and save it (you will have to upload application)
3. Proceed to page 3 of the application and click the "TSSA Service Prepayment Portal" link under payment options (the link will take you the secure site where you can pay for the request via credit card)

Accessing the Service Prepayment Portal

1. Select new or existing customer (*if you are an existing customer, you will need your account number & postal code to access your account)
2. Under "Program Area" select **Public Information** and click continue
3. Enter application form number (found on the bottom left corner of the application form - **PI-095-v2**) and click continue
4. Complete the primary contact information section
5. Complete the fee section
6. Upload your completed application
7. Upload supporting documents (if required) and click continue

Once all steps have been successfully completed you will receive your payment receipt via email.

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

If you have any questions or concerns, please do not hesitate to contact our Public Information Release team at publicinformationservices@tssa.org.

Kind regards,

Slavka Zahrebelny | Public Information Agent

Public Information

345 Carlingview Drive

Toronto, Ontario M9W 6N9

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www.tssa.org



Winner of 2023 5-Star Safety Cultures Award

From: Frank Liu

<frank.liu@pecg.ca>

Sent: Friday, January 26, 2024 7:32 AM

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

Subject: Re: TSSA Record Search for Properties at Two Sites in Carlisle Hamilton

Dear Sirs or Madame of TSSA,

[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.

Could you please conduct a search for fuel storage tank records for the following properties in Carlisle Hamilton?

1. [1535 Centre Rd, Carlisle, Hamilton](#)
2. [42-46 Woodend Drive, Carlisle, Hamilton](#)

Thanks

Frank Liu
Hydrogeologist

| c (647) 972 0433 | e frank.Liu@pecg.ca

Learn More:

www.pecg.ca

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Frank Liu <frank.liu@pecg.ca>
To: "publicinformationsservices@tssa.org" <publicinformationsservices@tssa.org>

Mon, Jan 29, 2024 at 10:15 AM

Hi **Slavka**,

Can you also search for this address [1535 Centre Rd, Carlisle, Hamilton](#)?

Thanks

Frank Liu
Hydrogeologist

| c (647) 972 0433 | e frank.Liu@pecg.ca

Learn More:

www.pecg.ca

On Fri, Jan 26, 2024 at 7:31 AM Frank Liu <frank.liu@pecg.ca> wrote:

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2. [42-46 Woodend Drive, Carlisle, Hamilton](#)

Thanks

Frank Liu
Hydrogeologist

| c (647) 972 0433 | e frank.Liu@pecg.ca

Learn More:

www.pecg.ca

Public Information Services <publicinformationservices@tssa.org>

Mon, Jan 29, 2024 at 10:26 AM

To: Frank Liu <frank.liu@pecg.ca>

Hello ,

NO RECORDS FOUND IN CURRENT DATABASE:

- We confirm that there are NO **elevating devices** records in our database at the subject address(es).
- We confirm that there are NO **boilers/pressure vessels** records in our database at the subject address(es).
- We confirm that there are NO **fuels records** in our database at the subject address(es).

This is not a confirmation that there are no records in the archives. For a further search in our archives, please apply for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

Please follow the steps below to access the applications and the Service Prepayment Portal:

Accessing the applications

1. Click Request a Public Record
2. Select the appropriate application, download it, complete it in full and save it (you will have to upload application)
3. Proceed to page 3 of the application and click the "TSSA Service Prepayment Portal" link under payment options (the link will take you the secure site where you can pay for the request via credit card)

Accessing the Service Prepayment Portal

1. Select new or existing customer (*if you are an existing customer, you will need your account number & postal code to access your account)
2. Under "Program Area" select **Public Information** and click continue
3. Enter application form number (found on the bottom left corner of the application form - **PI-095-v2**) and click continue
4. Complete the primary contact information section
5. Complete the fee section
6. Upload your completed application
7. Upload supporting documents (if required) and click continue

Once all steps have been successfully completed you will receive your payment receipt via email.

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

If you have any questions or concerns, please do not hesitate to contact our Public Information Release team at publicinformationservices@tssa.org.

Kind regards,

Slavka Zahrebelny | Public Information Agent

Public Information



345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1 416-734-3585 | Fax: +1 416-734-6242 | E-Mail: szahrebelny@tssa.org

www.tssa.org



Winner of 2023 5-Star Safety Cultures Award

From: Frank Liu

<frank.liu@pecg.ca>

Sent: Monday, January 29, 2024 10:16 AM

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

Subject: Re: TSSA Record Search for Properties at Two Sites in Carlisle Hamilton

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Thanks

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Hydrogeologist

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APPENDIX 9

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT REPORT



APPENDIX 9-1

Area 1: Tower Park Phase 1 ESA Report



Phase I Environmental Site Assessment (ESA)

42-46 Woodend Drive, Carlisle, Hamilton, ON

Project #
2108704

Prepared For
R.V. Anderson Associates Limited

June 13, 2024

June 13, 2024

Andrew McGregor
R.V. Anderson Associates Limited
43 Church Street, Suite 104
St. Catharines, ON L2R 7E1

Dear Andrew McGregor:

Re: Phase I Environmental Site Assessment, 42-46 Woodend Drive, Carlisle, Hamilton, ON
Project #: 2108704

We are pleased to present our Phase I Environmental Site Assessment (ESA) report for the above-noted property. The scope of this Phase I ESA conforms to the requirements outlined in the Canadian Standards Association (CSA) Standard Z768-01 (R2012) - Phase I Environmental Site Assessment. The purpose of this Phase I ESA was for due diligence.

The report provides information from Palmer's site reconnaissance, historical record review, interviews with knowledgeable individuals, and our conclusions for your consideration.

We trust that this report will be satisfactory for your current needs. If you have any questions or require further information, please contact our office at your convenience.

Yours truly,

Palmer™ | PART OF
SLR



Sarah Vlantis, B.Sc., P.Geo. (limited), QP_{ESA}
Principal, Environment & Construction Team Lead

Executive Summary

Palmer is pleased to provide this Phase I Environmental Site Assessment (ESA) report to R.V. Anderson Associates Limited. The Phase I ESA was prepared for the parcel of land located at 42-46 Woodend Drive, Carlisle, Hamilton, ON (hereafter collectively referred to as the "Site").

It is understood that the Phase I ESA is required for due diligence purposes. It should be noted that the format of this report is not intended to support the filing of a Record of Site Condition (RSC) with the Ministry of the Environment, Conservation and Parks (MECP).

The Site is an approximate 3.6 acre, irregular shaped, parcel of land located on the south side of Woodend Drive in Carlisle, Hamilton, Ontario. Building structures on the Site include a 960 ft² storage building and an 1,880 ft² water tower. A children's playground is also present in the northeast portion of the Site.

The exterior portion of the Site has an asphalt paved walkway running through the Site with grassed areas to the east and west of the buildings. Approximately 90% of the Site exterior is covered with asphalt and/or grass and trees.

The surrounding area was surveyed within a 250 metre (m) radius from the Site and is developed with residential land uses. In addition, there are no automotive repair garages, gasoline service stations, dry cleaning facilities, or industrial land uses within a 250 m radius of the Site.

Historically, the Site was first developed in 1984 with a water tower on the central portion of the Site. A playground was constructed on the Site in the 2000s and a storage building was constructed beside the water tower in the 2010s.

Based on the findings of Palmer's historical records review, Site reconnaissance, and personal interviews, no actual or potential on-Site or off-Site sources of soil and ground water contamination were identified in association with the Site.

Based on the age and use of the buildings, it is unlikely that designated substances were used during the construction.

In conclusion, no actual or potential sources of soil or ground water contamination associated with the Site have been identified during our Phase I ESA. Therefore, no further investigations are currently warranted.

The statements made in this Executive Summary are subject to the same limitations as contained in the report and should be read in conjunction with the entire report.

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1. Introduction

Palmer was retained by R.V. Anderson Associates Limited (the 'Client') to conduct a Phase I Environmental Site Assessment (Phase I ESA) for the parcel of land located at 42-46 Woodend Drive, Carlisle, Hamilton, ON (hereinafter referred to as the 'Site'). This report presents the results of the investigation and the conclusions we have drawn regarding the potential environmental concerns identified.

1.1 Objective

The purpose of this Phase I ESA is to document and identify any actual or potential environmental sources of contamination associated with the Site pursuant to the Canadian Standard Association (CSA) Standard Z768-01 (R2012) - Phase I Environmental Site Assessment (CSA Phase I ESA Standard). A Phase I ESA is a preliminary study in which it is sufficient only to assess those liabilities which can be documented by a visual inspection of the property or available sources of public information. The Phase I ESA does not include sampling or testing of soil, ground water, or building materials. These analyses would be conducted in a Phase II ESA or designated substance survey, if warranted.

It is understood that the Phase I ESA is required for due diligence purposes. It should be noted that the format of this report is not intended to support the filing of a Record of Site Condition (RSC) with the Ministry of the Environment, Conservation and Parks (MECP).

The findings presented in this report may be used for this purpose subject to the limitations stated under Section 10.0. No other party shall have the right to rely on any service provided by Palmer without prior written consent. Use of this report by any other party shall be at such party's sole risk.

1.2 Scope of Work

The Phase I ESA was conducted in accordance with the CSA Phase I ESA Standard.

The Phase I ESA scope of work for the on-Site investigation consisted of the following activities:

- Reviewed historical records for the Site and surrounding area to identify actual or potential sources of environmental concern;
- Conducted a Site reconnaissance, including an environmental inspection of any existing buildings, to observe and document the present environmental condition
- Conducted interviews with knowledgeable persons and regulatory officials for additional information relating to any environmental concerns; and
- Prepared a report summarising the findings of this investigation.

2. Phase I Property

2.1 Location & Legal Description

The Site is located south of Woodend Drive and north of Acredale Drive, as shown in **Figure 1**. The municipal address is 42-46 Woodend Drive, Carlisle, Hamilton, ON.

The legal descriptions of the Site include the following:

- PCL Block 32-1, Section 62M534; Block 33, PL 62M534; S/T LT44681E Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0069 (LT).
- PCL Block 32-1, Section 62M534; Block 32, PL 62M534; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0070 (LT).
- PCL 5-3, Section E.F. 9; Part of Lot 6, Concession 9 East Flamborough, Part 1, 2, & 3, 62R3015, T/W row in favour of the grantee, etc., to construct reconstruct and maintain watermains over Part 4 62R3015; T/W an ease and rights in favour of the grantee etc., to enter, construct, maintain etc. of poles and wires thereon though which hydro-electricity and telecommunications are able to pass or flow, including all appurtenances thereto, on, over and under those land and premises designated as Part 5 62R3015; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0168 (LT).
- PCL 5-4, Section E.F. 9; Part of Lot 6, Concession 9 East Flamborough, Part 2, 62R7357, T/W Part 1, 62R9170 as in LT217151; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0169 (LT).
- PCL 5-4, Section E.F. 9; Part of Lot 6, Concession 9 East Flamborough, Part 4, 62R9195, S/T Part 4, 62R3015 as in LT44681; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0170 (LT).
- PCL 5-6, Section E.F. 9; Part of Lot 6, Concession 9 East Flamborough, Part 1, 62R7357; Flamborough, in the City of Hamilton, Province of Ontario with Property Identification Number (PIN) 17523-0171 (LT).

2.2 Property Characteristics

The Site is an approximate 3.6 acre, irregular shaped, parcel of land located on the south side of Woodend Drive in Carlisle, Hamilton, Ontario. Building structures on the Site include a 960 ft² storage building and an 1,880 ft² water tower. A children's playground is also present in the northeast portion of the Site, as shown in **Figure 1**.

The exterior portion of the Site has an asphalt paved walkway running through the Site with grassed areas to the east and west of the structures. Approximately 90% of the Site exterior is covered with asphalt and/or grass and trees. Surface water from the property drains overland in a southeasterly direction or towards the drainage ditch along Acredale Drive.

There is no evidence to suggest the presence of septic tanks on the Site. Palmer observed two (2) municipal water wells at the Site. There was no evidence of fill and vent pipes indicative of underground storage tanks (USTs), aboveground storage tanks (ASTs), stressed vegetation, surficial staining, or disturbed soils identified on the Site during our Site reconnaissance on March 7, 2024. Photographic documentation of the Site and surrounding areas is presented in **Appendix A**.

3. Surrounding Areas

The surrounding area was surveyed within a 250 m radius and all occupants of neighboring properties were noted and are developed with residential land uses, as shown in **Figure 2**.

The surrounding properties were observed (from the Site or from public access areas) for signs of environmental concerns and their potential to pose an environmental risk to the Site. The uses and features of surrounding properties are described in the following table.

Table 1. Surrounding Property Summary

SURROUNDING PROPERTY SUMMARY		
DIRECTION	PROPERTY USE	CONCERNS
North	Residential, agricultural, vacant	None
East	Residential	None
South	Residential	None
West	Residential	None

From observations of the adjacent properties made from publicly accessible areas, no evidence of any USTs or any other environmental concerns were noted with the aforementioned land uses. Any additional properties located within the 250 m radius of the Site that are not listed in the above table, are not considered to pose any environmental concerns to the Site.

In addition, there are no automotive repair garages, gasoline service stations, dry cleaning facilities, or industrial land uses within a 250 m radius of the Site.

4. Previous Environmental Reports

Palmer was not provided with any previous environmental reports for review.

5. Topography, Hydrology, & Geology

The Site location is shown on the Atlas of Canada Topographic Map, as presented in **Figure 3**. The surface elevation of the Site is approximately 275 metres above mean sea level (amsl). Topography across the Site is relatively flat, and the topography in the vicinity of the Site slopes gradually downward to the southeast.

No naturally-occurring surface water bodies were observed on the Site. The nearest surface water body is the Bronte Creek, located approximately 500 m northwest of the Site.

The Site is located within the broad physiographic region known as the Flamborough Plain (Chapman and Putnam, 1984). This region is an isolated tract of shallow drift with a few scattered drumlins and numerous swamps. This region stretches across the Niagara cuesta northwest of Hamilton and extends north of Acton.

Local surficial geologic mapping (The Ontario Geological Survey, 2003) of the Hamilton area indicates that ice-contact stratified deposits of sand and gravel, minor silt, clay and till on Pleistocene terrain, underlie the Site.

Bedrock geologic mapping of Ontario (The Ontario Geological Survey, 1990) indicates that the glacially derived overburden soil at the Site is underlain by Lower Silurian Age sandstone, shale, dolostone, and siltstone of the Amabel Formation.

A Radon Potential Map of Ontario revealed that the subject property is located within Zone 3 (Radon Potential Map Ontario, 2013). This Zone is designated as a guarded relative radon hazard. Therefore, emissions of radon in the vicinity of the Site is of a low potential environmental concern. Furthermore, the Site building does not contain any subsurface structures, which reduces the presence of harmful levels of radon gas from accumulating in confined spaces of the Site building.

Based on surface topography and nearby surface water features, the horizontal ground water flow direction at the Site is anticipated to be to the southeast towards Bronte Creek. Ground water depth is estimated to be approximately 15 metres below grade (mbg) based on well records in the vicinity of the Site.

Actual local ground water flow direction can be influenced by factors such as local surface topography, underground structures, seasonal fluctuations, soil and bedrock geology, and production wells, none of which were considered during this study.

According to available hydrogeologic information, no sole source aquifers are present on or adjacent to the Site.

6. Records Review

Past land uses for the Site and adjoining properties were assessed to identify historical practices or conditions that may have impacted the Site. This was accomplished by reviewing historical information from several sources including but not limited to interviews with Site representatives, review of available previous environmental reports (if any) and ownership records, and review of historical information obtained from regulatory sources, aerial photographs, fire insurance plans, city directories and a topographic map. Specific historical sources reviewed for this project are presented in the following table.

Table 2. Historical Record Sources

SOURCES OF INFORMATION	YEARS REVIEWED
Prior Reports	None
Illustrated Atlas	1875
Aerial Photographs	1954 to 2022
Fire Insurance Plans	None
City Directories	None
Land Title Records	1960 to Present

Summaries of the historical uses of the Site and adjoining properties are presented in Sections 6.1 and 6.2, respectively. As per Section 4.0 above, no previous environmental reports were available for Palmer's review. Information obtained from each source reviewed is presented in Section 6.3.

6.1 Phase I Property

6.1.1 *Illustrated Atlas*

An illustrated atlas from 1875 revealed that the Site was a block of land, likely a farmstead, located within the Township of Flamborough East, owned by Varnel Freeman. No structures were depicted on the Site and the adjacent properties.

6.1.2 *Aerial Photographs*

An aerial photograph taken in 1954 showed the Site to be an undeveloped, agricultural parcel of land. Aerial photographs are shown in **Appendix B**.

An aerial photograph taken in 1976 showed a building constructed along the west boundary of the Site.

An aerial photograph taken in 1989 showed the construction of the water tower and pathway within the central portion of the Site.

An aerial photograph taken in 2013 showed the construction of the storage building to the south of the water tower. Aerial photographs taken since this time have remained unchanged.

6.1.3 Fire Insurance Plans and Inspection Reports

Fire insurance plans (FIPs) were produced between the late 1880's until the 1970s for urban communities throughout Canada. FIPs provided an illustrated resource that detailed the materials, occupancies, and potential fire hazards of existing buildings. The locations of above and below ground fuel storage tanks (ASTs/USTs) were also depicted on these plans.

Environmental Risk Information Services (ERIS) was retained to conduct a search for available FIPs or inspection report related documents pertaining to the Phase One Property or Study Area in order to provide additional information regarding historic usage and development at the site. FIPs are not available for the Site.

6.1.4 City Directories

Palmer retained ERIS to conduct a search of available directories for the Site and all adjacent properties located within the Study Area. No relevant information was obtained from the directories search for the Project Area or Study Area as the area is occupied by residential properties.

6.1.5 Land Title Records

According to land registry records (shown in **Appendix D**), the Site consists of six (6) parcels of land, currently owned by the following parties:

PIN #	DATE	LAND OWNER
17523-0171 (LT)	1984 to Present	The Regional Municipality of Hamilton-Wentworth
17523-0168 (LT)	1976 to Present	The Regional Municipality of Hamilton-Wentworth
17523-0169 (LT)	1987 to Present	Flamborough Hills Developments Limited
17523-0170 (LT)	1987 to Present	Flamborough Hills Developments Limited
17523-0069 (LT)	1987 to Present	The Corporation of the Town of Flamborough
17523-0070 (LT)	1987 to Present	The Corporation of the Town of Flamborough

6.2 Surrounding Area

Based on a review of all available historical records listed in Section 6.0, there were no previous dry cleaning facilities, automotive repair garages, industrial land uses, or gasoline services stations located within a 250 m radius of the Site.

6.2.1 Aerial Photographs

Aerial photographs taken between 1954 and 2021 showed the surrounding properties to be developed with a residential, agricultural, and vacant land uses.

6.2.2 Fire Insurance Plans

Fire insurance plans for the Surrounding Area were not available for review.

6.2.3 City Directories

No relevant information was obtained from the city directories search for the Surrounding Area.

6.3 Environmental Source Information

Palmer contacted municipal, provincial, and federal agencies to request the following information relevant to the Site and vicinity. The EcoLog ERIS (EcoLog) system provides information from provincial, federal, and private source databases and was searched for information relating to the Site and surrounding areas. The EcoLog report is shown in **Appendix E**.

6.3.1 Municipal Records Database

A written request was filed on March 25, 2024 for information concerning control orders, violation notices, and other environmental concerns for the Site with the City of Hamilton Freedom of Information Department. No information has been received to-date. Any forthcoming documentation from the aforementioned regulatory agency will be reviewed and if the response specifies any environmental concerns, it will be addressed and forwarded to the Client. A copy of this correspondence is shown in **Appendix F**.

6.3.2 Provincial Records Database

A Freedom of Information request was filed on March 5, 2024 for information relating to any control orders, violation notices, or other environmental concerns with the Ministry of the Environment, Conservation and Parks (MECP). No information has been received to-date. Any forthcoming documentation from the aforementioned regulatory agency will be reviewed and if the response specifies any environmental concerns, it will be addressed and forwarded to the Client. A copy of this correspondence is shown in **Appendix F**.

A total of four (4) Provincial records were available for the Site and six (6) records for the 0.25 km search radius from EcoLog. The records are summarized as follows, with identification of existence of an area of potential environmental concern:

i. Ontario Regulation 347 Waste Generators Summary

ADDRESS	COMPANY NAME	YEAR(S)	DESCRIPTION
46 Woodend Drive	City of Hamilton	2013	Generation of inorganics

The aforementioned wastes generated **on-Site** in 2013 are likely associated with water treatment activities occurring in the Site building. These activities are considered to pose a low environmental concern to the Site.

ii. Ontario Spills

ADDRESS	COMPANY NAME	YEAR(S)	INCIDENT
N/A	Enbridge Inc.	2023	Natural Gas line strike

These records are not considered to pose an environmental concern to the Site.

- iii. **Water Well Information System** - Three (3) records revealed wells located within the Site and five (5) records revealed wells located within the 0.25 km search radius. The wells were installed between 1970 and 2013. These wells were installed to a maximum depth of 39.6 m in the vicinity of the Site. Soil stratigraphy details noted gravel, clay, sand, boulders, shale and limestone. These records do not identify any conditions that are likely to pose potential environmental concerns for the Site.

6.3.3 *Federal Records Database*

A total of zero Federal records were available for the Site and for the 0.25 km search radius from Ecolog.

6.3.4 *Private Records Database*

A written request was made with a Customer Service Advisor with the Technical Standards and Safety Authority (TSSA) on January 26, 2024 for additional information regarding any storage tanks associated with the Site and surrounding areas. No information has been received to-date. Any forthcoming documentation from the aforementioned regulatory agency will be reviewed and if the response specifies any environmental concerns, it will be addressed and forwarded to the Client. A copy of this correspondence is shown in **Appendix F**.

A total of zero private records were available for the Site and for the 0.25 km search radius from EcoLog.

6.3.5 *Interviews*

An interview was conducted by Palmer with R.V. Anderson Associates Limited in January 2024. Pertinent information was provided regarding the infrastructure project and proposed construction. The proposed development is expected to include water storage structure, access road and vehicle parking, associated appurtenances, which may include a treatment facility and/or pump house. There was no knowledge of previous environmental reports or environmental concerns for the Property. Palmer was informed that the Site is currently improved with a water tower, a storage building, and a playground.

7. Site Reconnaissance

On March 7, 2024, Palmer representative Bailey Fleet, B.Sc.(Env.), conducted a Site visit. Palmer was not escorted during the Site reconnaissance.

The weather during the Site visit was sunny with a temperature of ~4 degrees Celsius. The Site visit consisted of a walkthrough of the Site and visual reconnaissance of neighbouring properties from curbside. Photographic documentation of the Site visit is included in **Appendix A**.

Palmer visually and physically observed accessible areas of the Site. The exterior of the Site building was observed. Limitations to the site reconnaissance included not having access to the interior of the water tower or storage building located on the Site.

7.1 Specific Observations at Phase I Property

Observations of Site conditions were made during the Site reconnaissance and are summarized in the table below. Issues of concern are discussed in greater detail following the table.

Table 3. Site Reconnaissance Observations

SITE OBSERVATIONS		
DESCRIPTION	REPORTED/ OBSERVED ON-SITE Y/N	COMMENTS
Hazardous Substances and Petroleum Products	Y	On the front of the storage building a sign indicated that Sodium Hypochlorite solution was present within the building. This product is not considered to pose an environmental concern to the Site, as it is used for water treatment and a known disinfecting agent. In addition, no visible evidence of spills and/or leaks were associated in the vicinity of the Site buildings.
UST(s)	N	Palmer did not observe fill pipes, vent pipes or other evidence of UST(s). Palmer did not observe operations and/or equipment that are typically associated with significant fuel or chemical storage that typically utilizes USTs.
AST(s)	N	Palmer did not observe fill pipes, vent pipes or other evidence of AST(s). Palmer did not observe operations and/or equipment that are typically associated with fuel or chemical storage that typically utilizes ASTs.
Strong, Pungent, or Noxious Odours	N	Not identified during the Site visit.
Pools of Liquids	N	Not identified during the Site visit.
Drums	N	Not identified during the Site visit.
Unidentified Substance Containers	N	Not identified during the Site visit.

SITE OBSERVATIONS		
DESCRIPTION	REPORTED/ OBSERVED ON-SITE Y/N	COMMENTS
Polychlorinated Biphenyls (PCB) – Containing Equipment	N	An exterior transformer was observed along the northeast corner of the Site. No signage indicative of PCBs or surficial staining on the concrete pad below the transformer was observed from the accessible areas.
Utilities (Electricity/Natural Gas)	Y	Electricity – supplied by Hydro One Natural gas – supplied by Enbridge Gas
Hydraulic Equipment	N	Not identified during the Site visit.
Water Supply	N	Not identified during the Site visit.
Wells	Y	Two (2) drinking water wells were identified at the Site. One ground water monitoring well was observed in the east side of the Site. Two wells were also observed on the Site beside the storage building and to the east. As discussed in Section 6.0 and 8.3.5, no previous environmental reports were provided for Palmer's review.
Wastewater	N	Wastewater is currently not being discharged from the Site.
Septic	N	Not identified during the Site visit.
Storm Water	Y	The storm water drains into the municipal storm sewer system along Acredale Drive.
Flood Plain	N	Not identified during the Site visit.
Pits, Ponds, or Lagoons	N	Not identified during the Site visit.
Stained Soil, Stained Pavement, Corrosion to Pavement	N	Not identified during the Site visit.
Stressed Vegetation	N	Not identified during the Site visit.
Solid Waste	N	Not identified during the Site visit.
Hazardous Waste Management	N	Not identified during the Site visit.
Drains, Sumps, Oil/Water Separators/Sand Traps	N	Not identified during the Site visit.
Vapour Intrusion	N	Not identified during the Site visit.

7.2 Structures and Buildings

The Site is developed with a 960 ft² storage building and an 1,880 ft² water tower. A children's playground is also present in the northeast portion of the Site. The Site is currently operating as a park, a water tower and storage facility.

The water tower building has one (1) exit and entry point along the west side of the structure and the storage facility building has two (2) exit and entry points along the west wall of the structure.

The following observations were noted at the Site:

- Site Exterior
 - Drainage pipes were observed along the rear of the storage building. Use of this area is reportedly unknown. Based on Palmer's site reconnaissance, this area is associated with treating potable water;
 - The northeast portion of the Site has a playground and is used for recreational purposes;
 - An asphalt-paved walkway runs throughout the Site from north to south and the rest of the site consists of landscaped grassed areas and trees.
- Storage Facility
 - No access to the interior of the building.
- Water Tower
 - No access to the interior of the structure.

One (1) ground water monitoring well was observed on the east side of the property and two (2) municipal wells were also observed on the Site beside the storage building and to the east.

8. Actual or Potential Concerns

Based on the findings of Palmer's historical records review, Site reconnaissance, and personal interviews, no actual on-Site or off-Site sources of soil and ground water contamination were identified in association with the Site.

The following potential on-Site sources of contamination were identified:

- A potential on-Site source of soil and ground water contamination includes Sodium (Na), Chloride (Cl-), Electrical Conductivity (EC) and Sodium Adsorption Ratio (SAR) associated with the water treatment occurring on the Site. However, based on the interior storage of the sodium hypochlorite solution with no reported spills and incidents, this potential source is considered to pose a low environmental concern to the Site.

No potential off-Site sources of contamination were identified.

Based on the age of the industrial building (built in the 2010s), it is unlikely that designated substances were used during the construction. Based on the age of the water tower structure (built in 1984), designated substances may be present in areas not renovated.

9. Conclusions

Historically, the Site was first developed in 1984 with a water tower on the central portion of the Site. A playground was constructed on the Site in the 2000s and a storage building was constructed beside the water tower in the 2010s.

Based on the findings of Palmer's historical records review, Site reconnaissance, and personal interviews, no actual or potential on-Site or off-Site sources of soil and ground water contamination were identified in association with the Site.

Based on the age and use of the buildings, it is unlikely that designated substances were used during the construction.

In conclusion, no actual or potential sources of soil or ground water contamination associated with the Site have been identified during our Phase I ESA. Therefore, no further investigations are currently warranted.

10. Limitations of Report

This report was prepared by Palmer for the account of R.V. Anderson Associates Limited in accordance with the professional services agreement.

During the records review, Palmer relied on information obtained from municipal, provincial, and independent sources as referenced in this report. Although the information was assessed for consistency, verification of the accuracy or the completeness of this third-party information was not completed.

Palmer made all reasonable inquiries to obtain accessible information for this assessment as required by Canadian Standards Association (CSA) Standard Z768-01 (R2012) - Phase I Environmental Site Assessment. The evaluation provided in this report reflects our best judgement in light of the information available at the time of the report preparation.

The conclusions and recommendations detailed in this report are based upon the information available at the time of preparation of the report. No investigative method eliminates the possibility of obtaining imprecise or incomplete information. Professional judgement was exercised in gathering and analyzing the information obtained and in the formulation of our conclusions and recommendations.

Due to the limitations referred to above, different environmental conditions from those stated in our report may exist. Should such different conditions be encountered, Palmer must be notified in order that it may determine if modifications to the conclusions in the report are necessary.

The disclosure of any information contained in this report is the sole responsibility of the intended recipient. The material in it reflects Palmer's best judgement in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Palmer accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This limitations statement is considered part of this report.

Unless stated otherwise in this report, provided that the report is still reliable, and less than 12 months old, Palmer may issue a third-party reliance letter to parties, client identifies in writing, upon payment of the then current fee for such letters. All third parties relying on Palmer's report, by such reliance agree to be bound by our proposal and Palmer's standard reliance letter. Palmer's standard reliance letter indicates that in no event shall Palmer be liable for any damages, howsoever arising, relating to third-party reliance on Palmer's report. No reliance by any party is permitted without such agreement. This report is not to be given over to any third party for any purpose whatsoever without the written permission of Palmer.

The original of the technology-based document sent herewith has been authenticated and will be retained by Palmer for a minimum of five years. Since the file transmitted is now out of Palmer's control and its integrity can no longer be ensured, no guarantee may be given with regards to any modifications made to this document.

11. Certification

This report was prepared by Bailey Fleet, B.Sc.(Env.), EPT who is currently an Environmental Scientist with Palmer. She has experience in conducting Phase One and Two ESAs at various land use types, in accordance with Ontario Regulation 153/04 and 511/09 and the CSA Z768-01 environmental protocols.

This report was reviewed by Kalina Naydenova, M.Sc. who is an Environmental Scientist with Palmer. She has over fourteen years' experience conducting numerous Phase One and Two ESAs at various land use types, conducting soil and ground water sampling procedures in accordance with ASTM 1527-13 and ASTM E1903-19, as well as experience with Ontario Regulation 153/04 and 511/09 and the CSA Z768-01 and Z769-00 environmental protocols.

This report was reviewed by Sarah Vlantis, B.Sc., P.Geo. (limited), Principal Environmental Scientist and Environment & Construction Team Lead of Palmer. She has over 14 years' experience conducting Phase One and Two ESAs, soil and ground water sampling, and site remediation in accordance with Ontario Regulation 153/04 and 511/09, the CSA Z768-01 and Z769-00 environmental protocols, the Consulting Engineers of Ontario's Generally Accepted Standards for Environmental Investigations, and the Canadian Mortgage and Housing Corporation (CMHC) environmental site investigation procedures for mortgage loan insurance. The aforementioned ESAs have covered all land use types across Canada. Sarah also has numerous years of experience in preparing and filing Record of Site Conditions (RSCs) with the Ministry of the Environment, Conservation and Parks (MECP). Sarah also has experience conducting Excess Soil Reuse Planning assessments in accordance with Ontario Regulation 406/19.



Prepared By:

Bailey Fleet, B.Sc.(Env.), EPT
Environmental Scientist



Kalina Naydenova, M.Sc.
Environmental Scientist



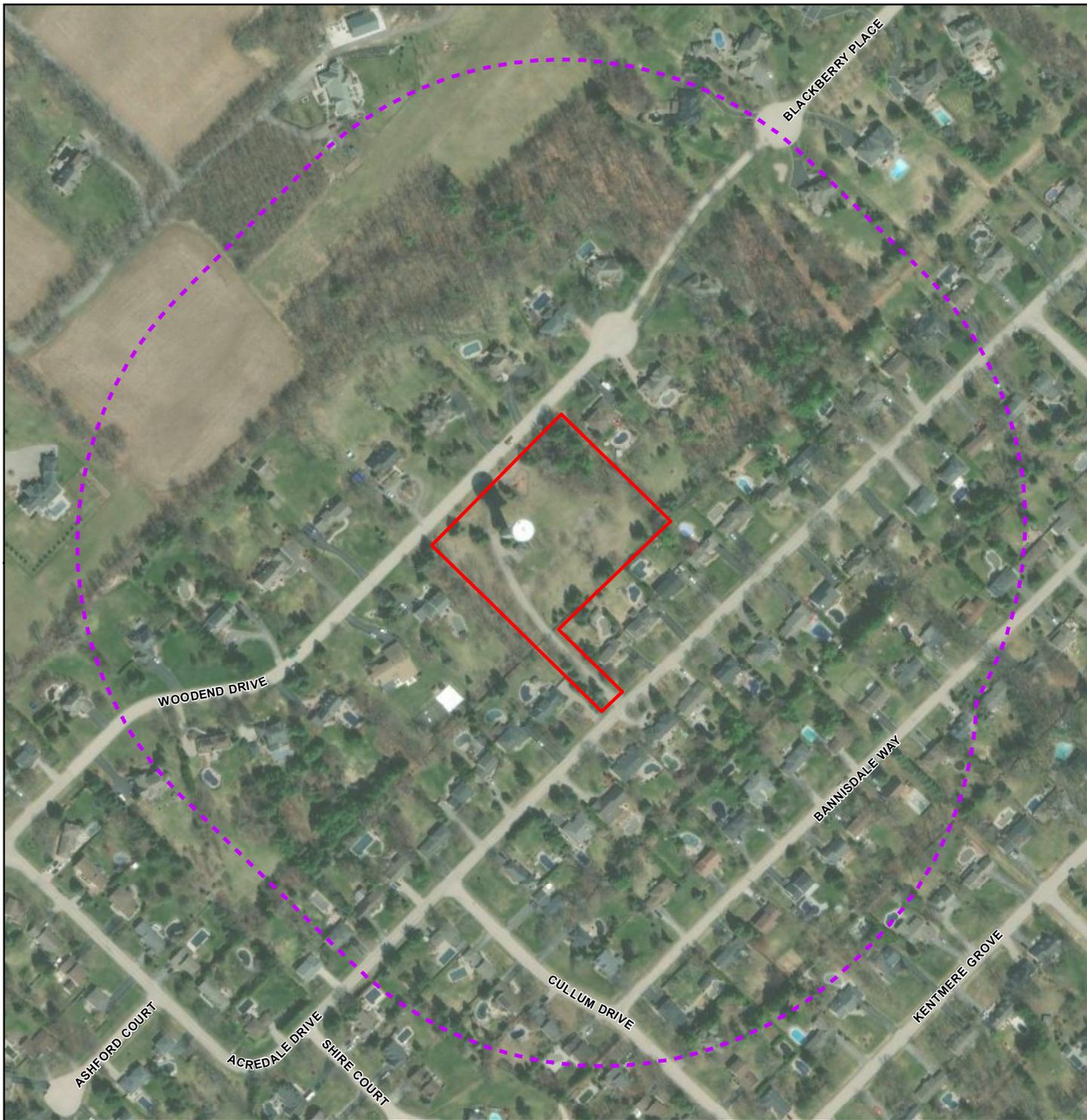
Reviewed By:

Sarah Vlantis, B.Sc. P.Geo. (limited), QP_{ESA}
Principal, Environment & Construction Team Lead

12. References

- Atlas of Canada, Topographic Maps;
 - <http://atlas.nrcan.gc.ca/Site/english/toporama/index.html>
- Chapman and Putnam, The Physiography of Southern Ontario, 1984;
- EcoLog ERIS Database Report, 42-46 Woodend Drive, Hamilton, Ontario, 2024;
- ESRI Basemap Service, 2021;
- Google Earth, 2020;
- Ontario Ministry of the Environment and Climate Change;
- Radon Potential Map Ontario, Radon Environmental, 2013;
- Technical Standards & Safety Authority;
- The Ontario Geological Survey, 1990; and,
- The Ontario Geological Survey, 2003.

Figures



LEGEND

- Phase I Property
- Phase I Study Area



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17

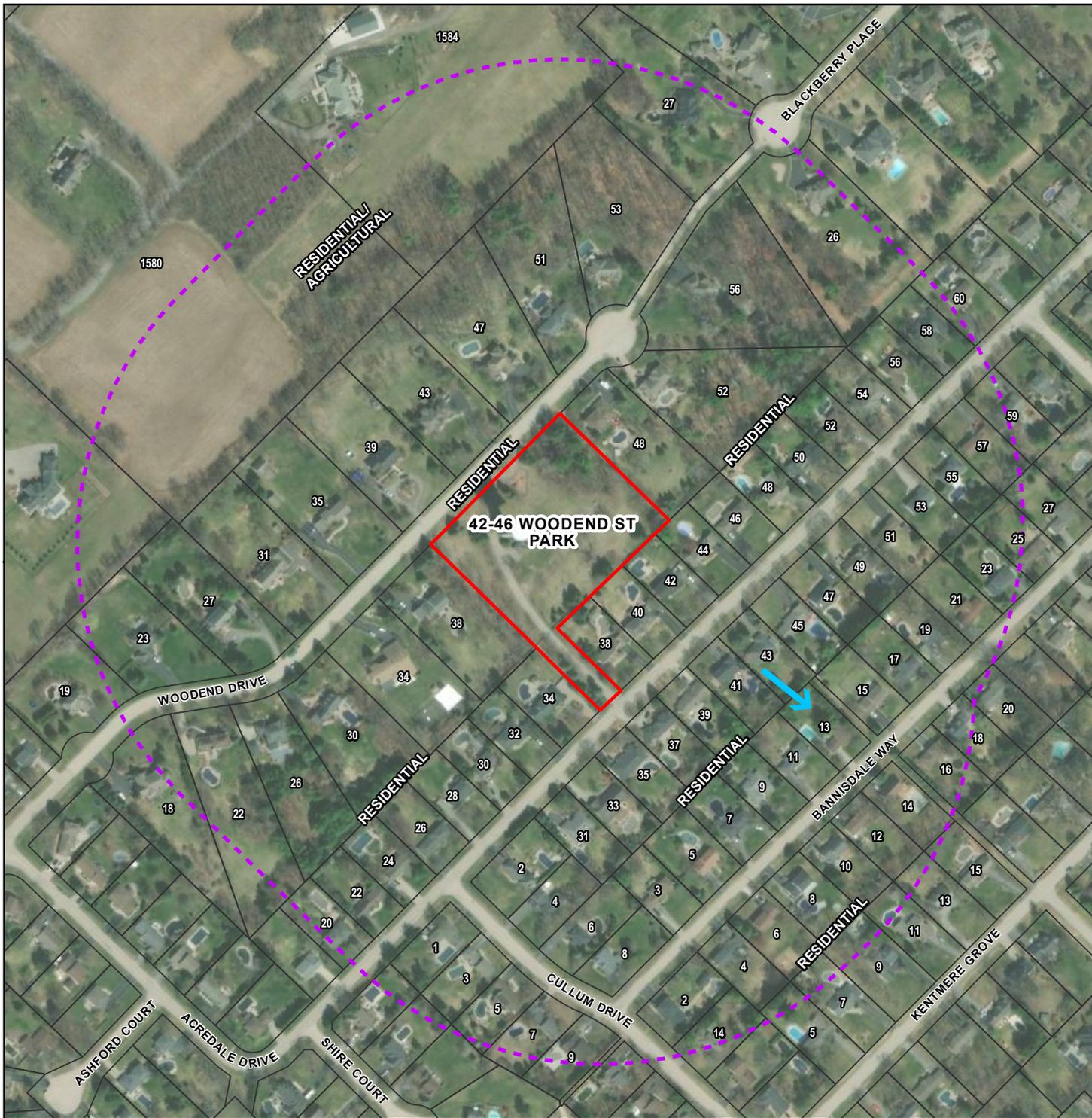
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Drawn: CV
 Checked: BF
 Date: Mar 14, 2024



Source Notes:
 Imagery (2021) provided by Esri basemap service.
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CLIENT	R.V. Anderson Associates Limited
PROJECT	42-46 Woodend Drive, Carlisle, Hamilton, ON
TITLE	Phase I Property Location
<small>REF. NO.</small>	2108704-MR-201-1
Palmer PART OF SLR	Figure 1



LEGEND

- Phase I Property
- Phase I Study Area
- Property Boundary
- ← Inferred Ground Water Flow Direction



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17
 Scale: 1:4,000
 Page Size: Letter (8.5 x 11 inches)
 Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

Source Notes:
 Imagery (2021) provided by Esri basemap service.
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CLIENT
 R.V. Anderson Associates Limited

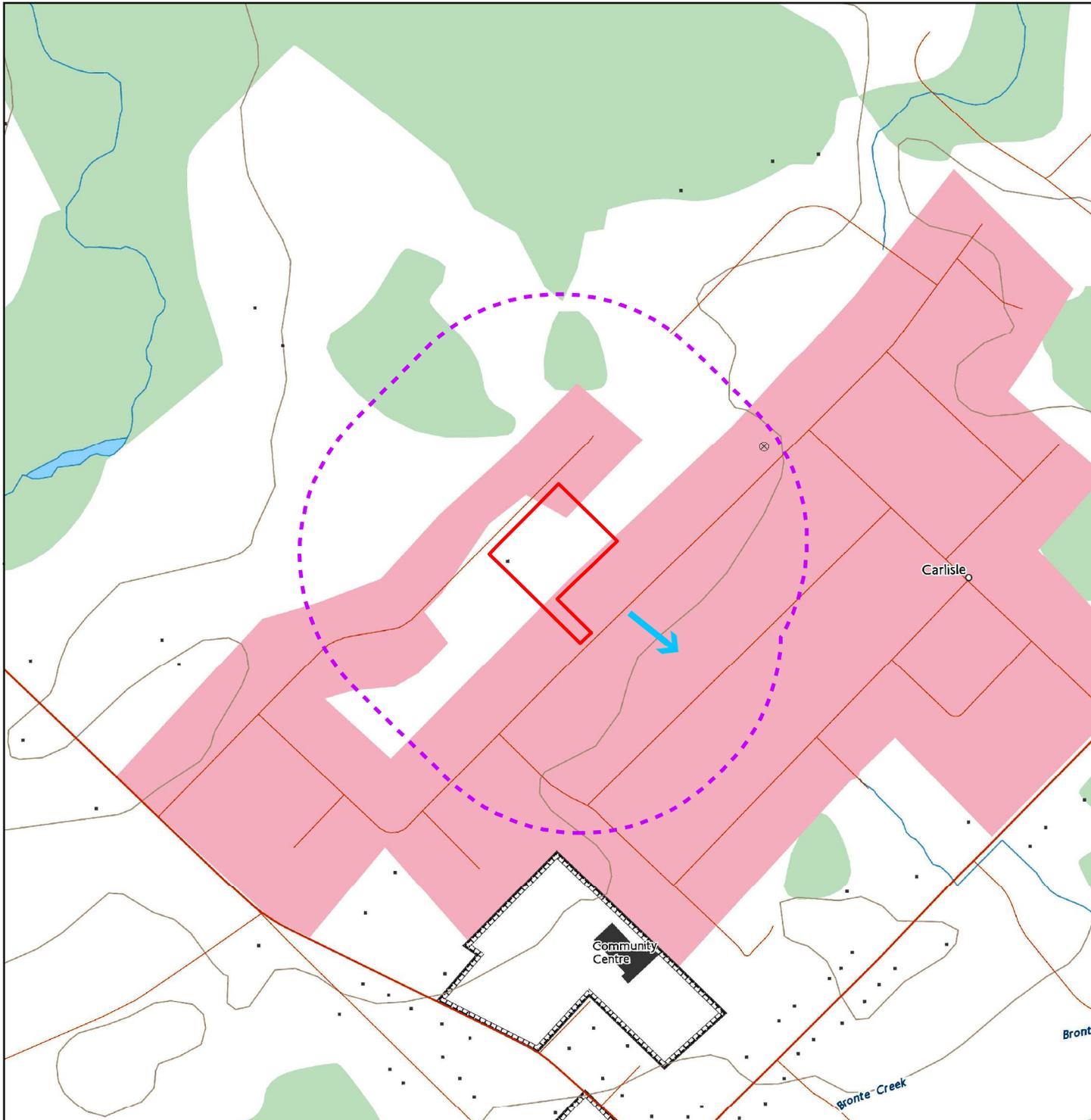
PROJECT
 42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
Site and Surrounding Properties



REF. NO. 2108704-MR-202-1

Figure 2



LEGEND

- Phase I Property
- Phase I Study Area
- ← Inferred Ground Water Flow Direction
- Woodland
- Built-up Area

0 40 80 160 240 320 400
METRE SCALE

North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:7,500
Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

Basemap:
Toporama web map

NORTH

CLIENT
R.V. Anderson Associates Limited

PROJECT
42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
Topographic Map

	REF. NO. 2108704-MR-203-1 Figure 3
--	--

Appendix A

Photograph Log

Photograph Log
Phase I ESA
42-46 Woodend Drive, Carlisle, Hamilton, ON
Project No.: 2108704



Photograph 1

Photo depicts the south facing view of the Site.



Photograph 2

Photo depicts the west facing view of the Site.



Photograph 3

Photo depicts the east facing view of the Site.



Photograph 4

Photo depicts the north facing view of the Site.

**Photograph Log
Phase I ESA
42-46 Woodend Drive, Carlisle, Hamilton, ON
Project No.: 2108704**



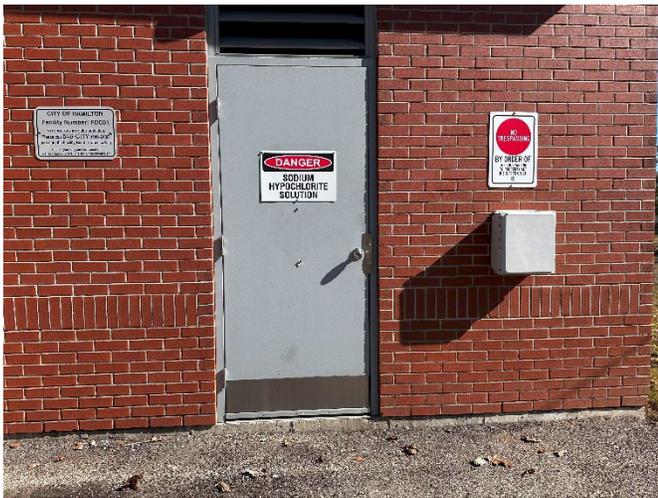
Photograph 5

Photo depicts front facing view of the storage building on the Site.



Photograph 6

Photo depicts the front facing view of the water tower building on the Site.



Photograph 7

Photo depicts sign located at the front of the storage building indicating the use of Sodium Hypochlorite solution.



Photograph 8

Photo depicts drainage pipes and catch basins located at the rear of the storage building on the Site.

Photograph Log
Phase I ESA
42-46 Woodend Drive, Carlisle, Hamilton, ON
Project No.: 2108704



Photograph 9

Photo depicts steel well located on the east portion of the Site.



Photograph 10

Photo depicts previously installed monitoring well located on the east portion of the Site.



Photograph 11

Photo depicts a playground located on the northeast portion of the Site.



Photograph 12

Photo depicts second steel well located to the south of the storage building.

Photograph Log
Phase I ESA
42-46 Woodend Drive, Carlisle, Hamilton, ON
Project No.: 2108704



Photograph 13

Photo depicts east view of Surrounding Area.



Photograph 14

Photo depicts west view of Surrounding Area.



Photograph 15

Photo depicts north view of Surrounding Area.

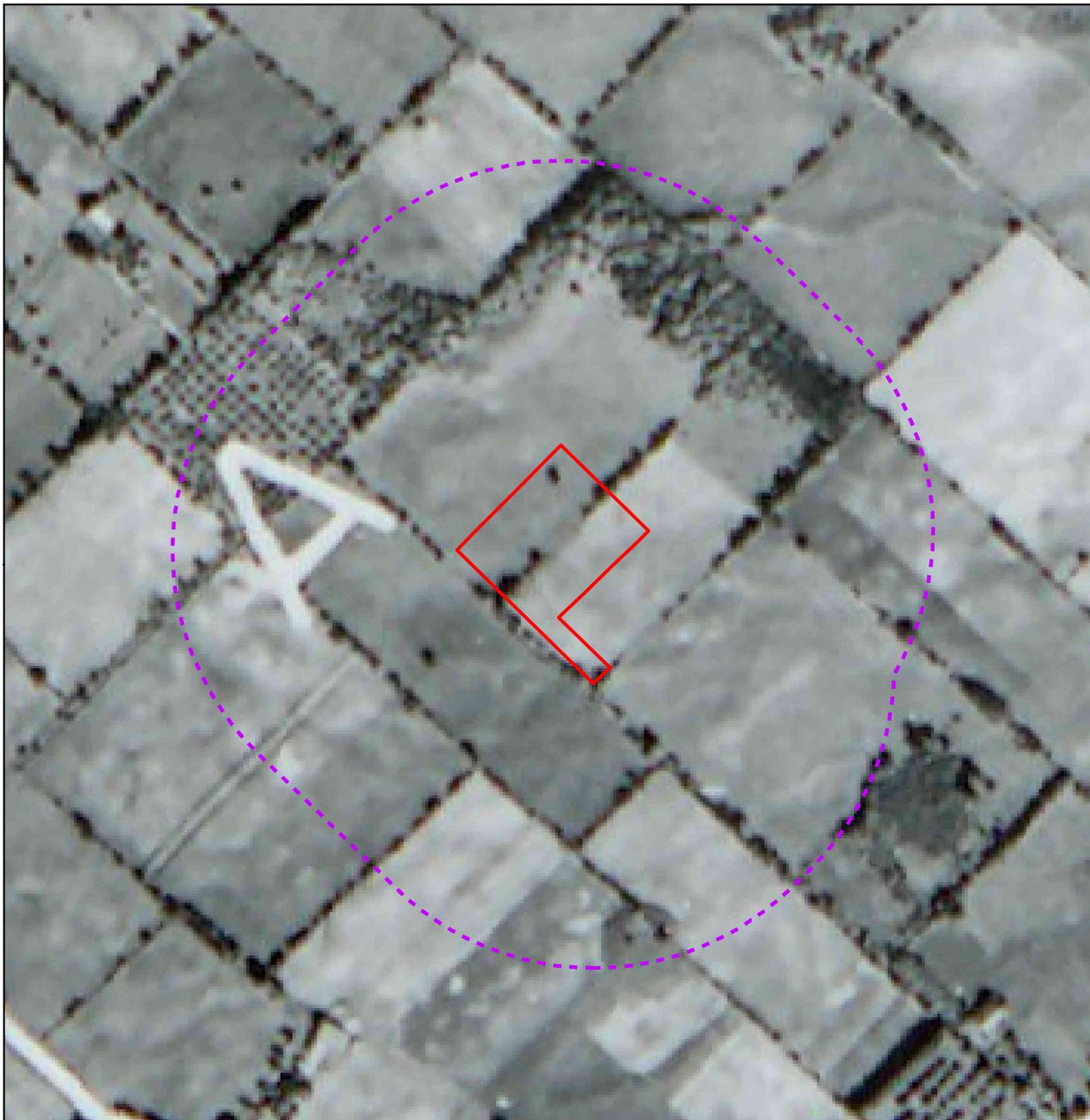


Photograph 16

Photo depicts south view of Surrounding Area.

Appendix B

Aerial Photographs



LEGEND

-  Phase I Property
-  Phase I Study Area

0 20 40 80 120 160 200
METRE SCALE

North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery provided by ERIS



NORTH

CLIENT	R.V. Anderson Associates Limited
PROJECT	42-46 Woodend Drive, Carlisle, Hamilton, ON
TITLE	Aerial Imagery (1954)
REF. NO.	2108704-MR-200-1
 PART OF 	Figure B1



LEGEND

-  Phase I Property
-  Phase I Study Area



North American Datum 1983
Universal Transverse Mercator Projection Zone 17

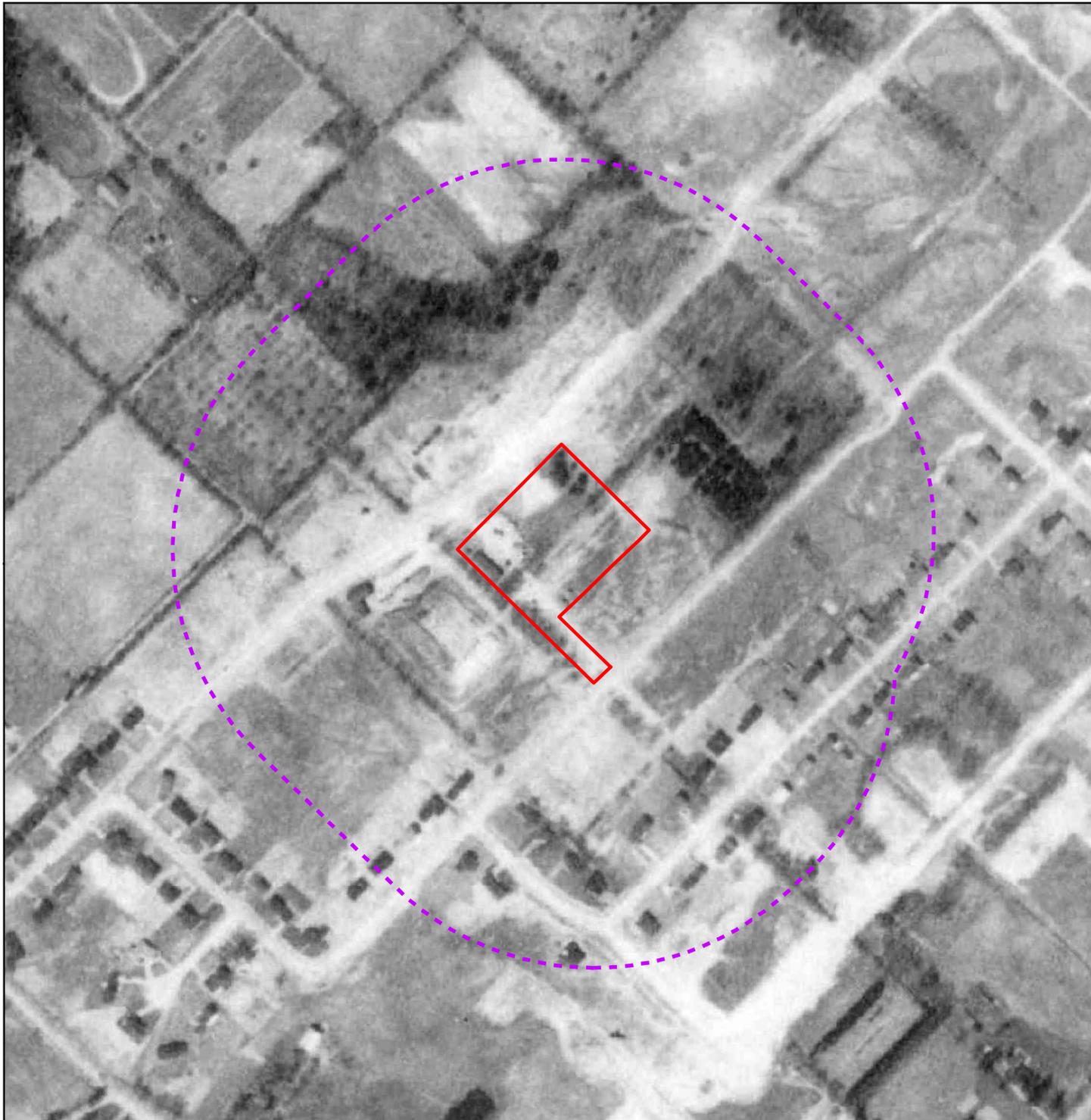
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Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery provided by ERS



CLIENT	R.V. Anderson Associates Limited
PROJECT	42-46 Woodend Drive, Carlisle, Hamilton, ON
TITLE	Aerial Imagery (1961)
REF. NO.	2108704-MR-200-1
 PART OF 	Figure B2



LEGEND

-  Phase I Property
-  Phase I Study Area

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METRE SCALE

North American Datum 1983
Universal Transverse Mercator Projection Zone 17

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Page Size: Letter (8.5 x 11 inches)

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Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery provided by ERIS



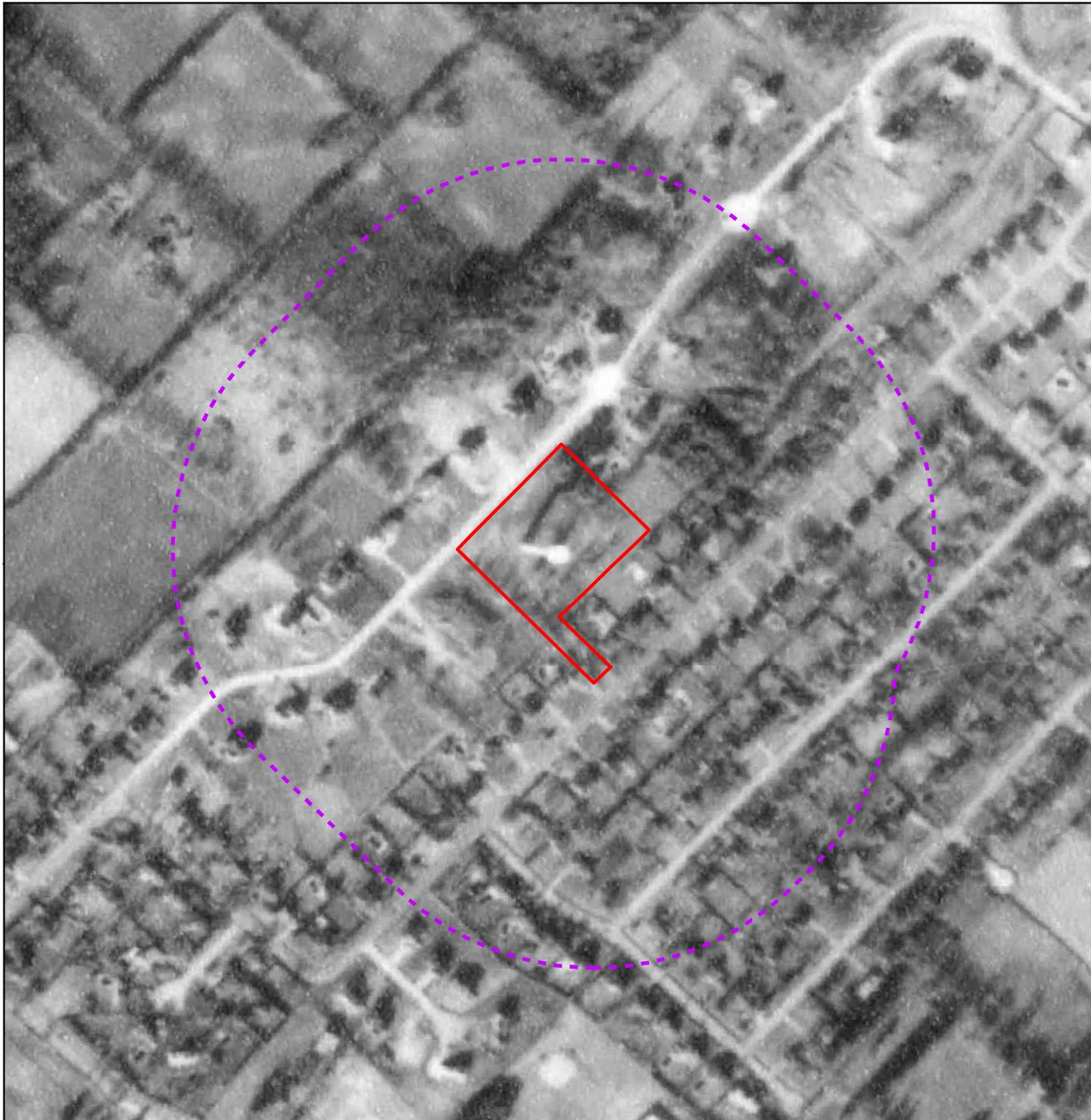
NORTH

CLIENT
R.V. Anderson Associates Limited

PROJECT
42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
(1976)**

 PART OF 	REF. NO. 2108704-MR-200-1
	Figure B3



LEGEND

-  Phase I Property
-  Phase I Study Area



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
 Page Size: Letter (8.5 x 11 inches)

Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

Source Notes:
 Imagery provided by ERSI



CLIENT
 R.V. Anderson Associates Limited

PROJECT
 42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
 (1989)**

	PART OF 	REF. NO. 2108704-MR-200-1
		Figure B4



LEGEND

- Phase I Property
- Phase I Study Area


 METRE SCALE

North American Datum 1983
 Universal Transverse Mercator Projection Zone 17
 Scale: 1:5,000
 Page Size: Letter (8.5 x 11 inches)

Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

Source Notes:
 Imagery from Google Earth (©Google)


NORTH

CLIENT

R.V. Anderson Associates Limited

PROJECT

42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE

**Aerial Imagery
(2005)**

 	REF. NO. 2108704-MR-200-1 Figure B5
---	---



LEGEND

-  Phase I Property
-  Phase I Study Area



North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
Page Size: Letter (8.5 x 11 inches)

Drawn: CV
Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery from Google Earth (©Google)



CLIENT
R.V. Anderson Associates Limited

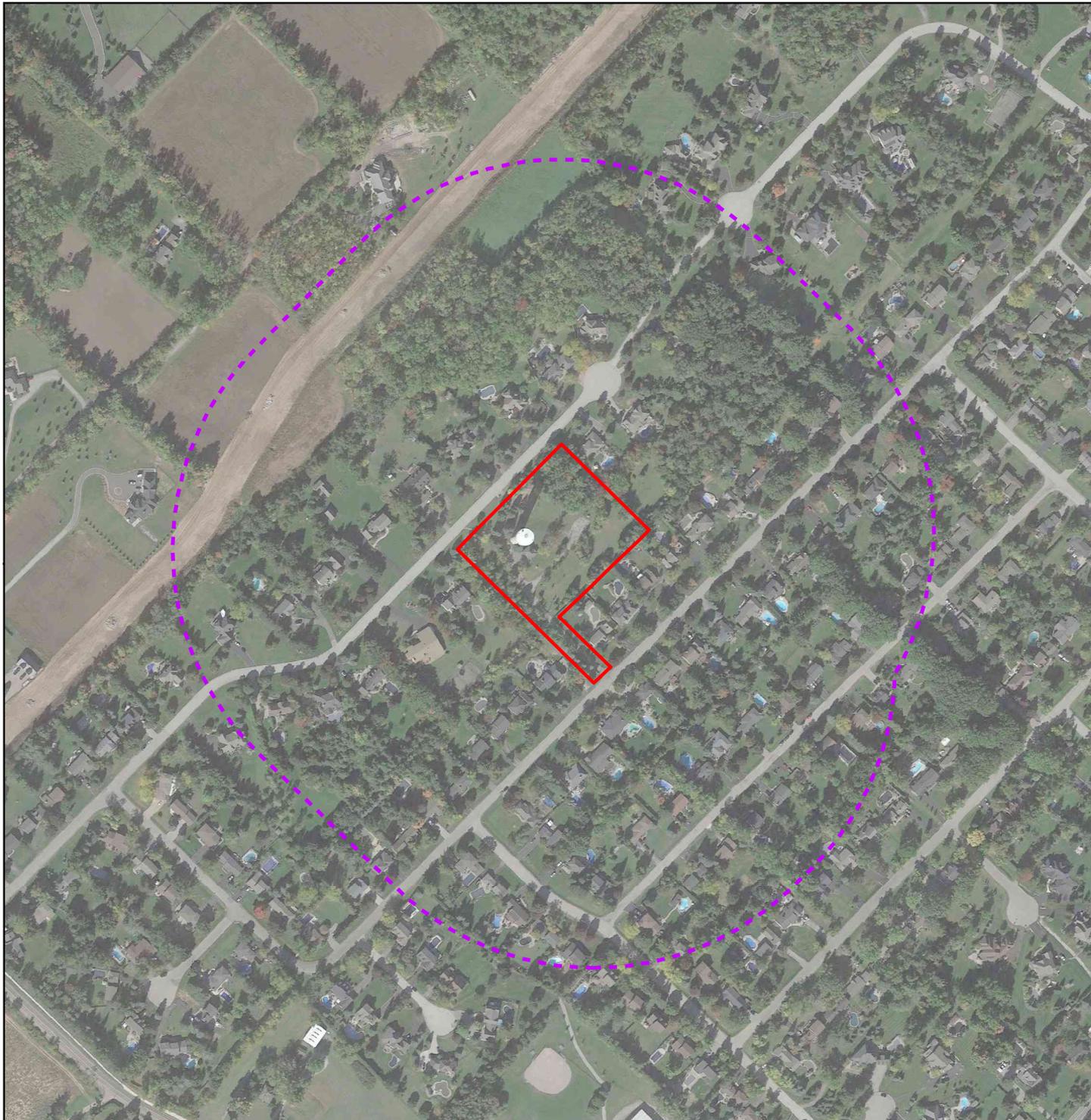
PROJECT
42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
(2013)**



REF. NO. 2108704-MR-200-1

Figure B6



LEGEND

-  Phase I Property
-  Phase I Study Area



North American Datum 1983
Universal Transverse Mercator Projection Zone 17

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Checked: BF
Date: Mar 14, 2024

Source Notes:
Imagery from Google Earth (©Google)



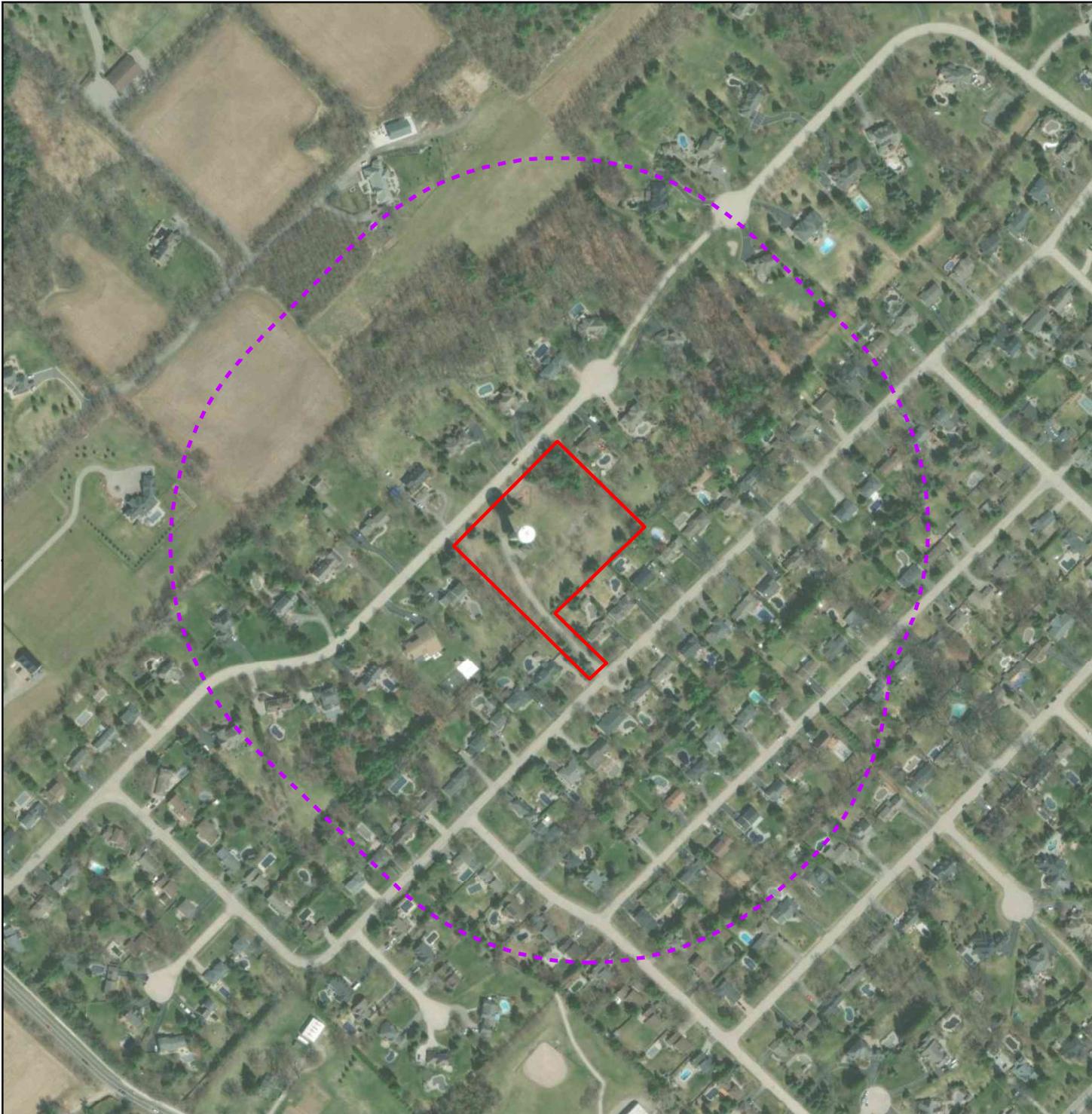
CLIENT
R.V. Anderson Associates Limited

PROJECT
42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
(2017)**

Palmer PART OF SLR

REF. NO. 2108704-MR-200-1
Figure B7



LEGEND

-  Phase I Property
-  Phase I Study Area



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17

Scale: 1:5,000
 Page Size: Letter (8.5 x 11 inches)

Drawn: CV
 Checked: BF
 Date: Mar 14, 2024

Source Notes:
 Imagery provided by Esri basemap service



CLIENT
 R.V. Anderson Associates Limited

PROJECT
 42-46 Woodend Drive, Carlisle, Hamilton, ON

TITLE
**Aerial Imagery
 (2021)**

	PART OF 	REF. NO. 2108704-MR-200-1
		Figure B8

Appendix C

Land Registry Documents

LAND
REGISTRY
OFFICE #62

17523-0171 (LT)

PAGE 1 OF 1
PREPARED FOR EEGOOLAB
ON 2024/03/05 AT 14:22:48

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

PROPERTY DESCRIPTION: PCL 5-6, SEC E.F. 9 ; PT LT 6, CON 9 EAST FLAMBOROUGH , PART 1 , 62R7357 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

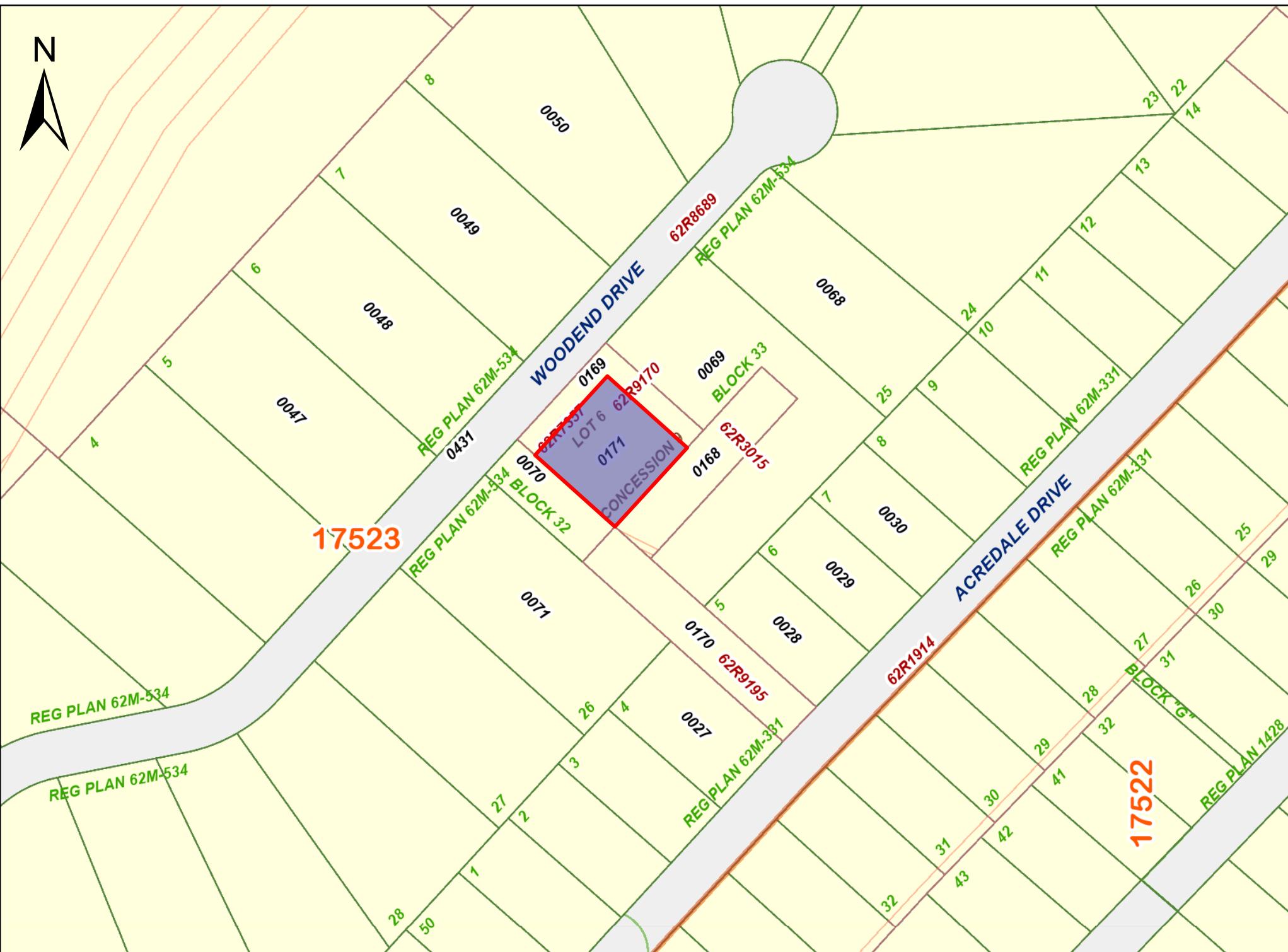
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FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
1996/04/22

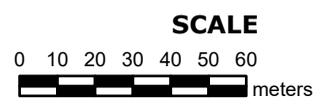
OWNERS' NAMES
THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/04/19 **</p>						
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LT151647	1984/11/15	TRANSFER	\$1		THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH	C
LT159633	1985/06/17	NOTICE AGREEMENT			THE CORPORATION OF THE TOWN OF FLAMBOROUGH	C



PRINTED ON 05 MAR, 2024 AT 14:23:50
FOR EEOOLAB



PROPERTY INDEX MAP

WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



PROPERTY DESCRIPTION: PCL 5-4, SEC E.F. 9 ; PT LT 6, CON 9 EAST FLAMBOROUGH , PART 2 , 62R7357 , T/W PT 1, 62R9170 AS IN LT217151 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
ABSOLUTE

RECENTLY:

FIRST CONVERSION FROM BOOK

PIN CREATION DATE:

1996/04/22

OWNERS' NAMES

FLAMBOROUGH HILLS DEVELOPMENTS LIMITED

CAPACITY SHARE

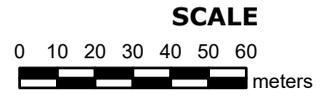
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/04/19 **</p>						
HL129811	1960/06/14	BYLAW				C
62R1914	1974/08/27	PLAN REFERENCE				C
62R7357	1984/10/09	PLAN REFERENCE				C
LT211612	1987/10/21	TRANSFER			FLAMBOROUGH HILLS DEVELOPMENTS LIMITED	C
62R9170	1987/11/10	PLAN REFERENCE				C
62R9195	1987/11/17	PLAN REFERENCE				C



ServiceOntario

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FOR EGOOLAB



PROPERTY INDEX MAP

WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



LAND
REGISTRY
OFFICE #62

17523-0168 (LT)

PAGE 1 OF 1
PREPARED FOR EEGOOLAB
ON 2024/03/05 AT 14:26:06

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

PROPERTY DESCRIPTION: PCL 5-3, SEC E.F. 9 ; PT LT 6, CON 9 EAST FLAMBOROUGH , PART 1, 2 & 3 , 62R3015 , T/W ROW IN FAVOUR OF THE GRANTEE, ETC, TO CONSTRUCT RECONSTRUCT AND MAINTAIN WATERMAINS OVER PT 4 62R3015; T/W AN EASE AND RIGHTS IN FAVOUR OF THE GRANTEE ETC, TO ENTER, CONSTRUCT, MAINTAIN ETC OF POLES AND WIRES THEREON THOUGH WHICH HYDRO-ELECTRICITY AND TELECOMMUNICATIONS ARE ABLE TO PASS OR FLOW, INCLUDING ALL APPURTENANCES THERTO, ON, OVER AND UNDER THOSE LAND AND PREMISES DESIGNATED AS PT 5 62R3015 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
1996/04/22

OWNERS' NAMES
THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

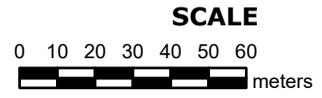
CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p><i>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</i></p> <p><i>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</i></p> <p><i>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/04/19 **</i></p>						
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LT444681	1976/06/03	TRANSFER			THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH	C
62R3015	1976/06/03	PLAN REFERENCE				C



ServiceOntario

PRINTED ON 05 MAR, 2024 AT 14:26:51
FOR EEOOLAB



PROPERTY INDEX MAP

WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



PROPERTY DESCRIPTION: PCL 5-4, SEC E.F. 9 ; PT LT 6, CON 9 EAST FLAMBOROUGH , PART 4 , 62R9195 , S/T PT 4, 62R3015 AS IN LT44681 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
ABSOLUTE

RECENTLY:

FIRST CONVERSION FROM BOOK

PIN CREATION DATE:

1996/04/22

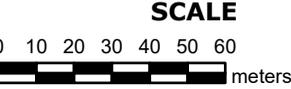
OWNERS' NAMES

FLAMBOROUGH HILLS DEVELOPMENTS LIMITED

CAPACITY SHARE

BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/04/19 **</p>						
HL129811	1960/06/14	BYLAW				C
62R1914	1974/08/27	PLAN REFERENCE				C
62R3015	1976/06/03	PLAN REFERENCE				C
LT211612	1987/10/21	TRANSFER			FLAMBOROUGH HILLS DEVELOPMENTS LIMITED	C
62R9195	1987/11/17	PLAN REFERENCE				C



PROPERTY INDEX MAP
WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

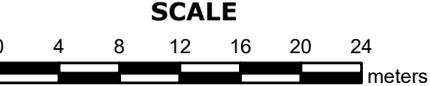
THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED





PROPERTY INDEX MAP
WENTWORTH(No. 62)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



LAND
 REGISTRY
 OFFICE #62

17523-0069 (LT)

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

PROPERTY DESCRIPTION: PCL BLOCK 32-1, SEC 62M534 ; BLK 33, PL 62M534 ; S/T LT44681E FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
 FEE SIMPLE
 ABSOLUTE

RECENTLY:
 FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
 1996/04/22

OWNERS' NAMES
 THE CORPORATION OF THE TOWN OF FLAMBOROUGH

CAPACITY SHARE
 BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/04/22**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **</p>						
AB276776	1972/12/29	AGREEMENT			THE CORPORATION OF THE TOWNSHIP OF EAST FLAMBOROUGH	C
62R3015	1976/06/03	PLAN REFERENCE				C
LT44681E	1976/06/09	TRANSFER EASEMENT			THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH	C
LT215958	1987/12/31	TRANSFER			THE CORPORATION OF THE TOWN OF FLAMBOROUGH	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: PCL BLOCK 32-1, SEC 62M534 ; BLK 32, PL 62M534 ; FLAMBOROUGH CITY OF HAMILTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
ABSOLUTE

RECENTLY:

FIRST CONVERSION FROM BOOK

PIN CREATION DATE:

1996/04/22

OWNERS' NAMES

THE CORPORATION OF THE TOWN OF FLAMBOROUGH

CAPACITY SHARE

BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
EFFECTIVE	2000/07/29	THE NOTATION OF THE	"BLOCK IMPLEMENTATION DATE" OF 1996/04/22 ON THIS PIN			
WAS REPLACED WITH THE	"PIN CREATION DATE"	OF 1996/04/22				
** PRINTOUT	INCLUDES ALL	DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **				
AB276776	1972/12/29	AGREEMENT			THE CORPORATION OF THE TOWNSHIP OF EAST FLAMBOROUGH	C
LT215958	1987/12/31	TRANSFER			THE CORPORATION OF THE TOWN OF FLAMBOROUGH	C

Appendix D

EcoLog ERIS Database Report



DATABASE REPORT

Project Property: *Phase I ESA
42-46 Woodend Drive
Hamilton ON L0R 1H2*

Project No: *2108704*

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

Order No: *24030100788*

Requested by: *Palmer Environmental Consulting Group
Inc.*

Date Completed: *March 6, 2024*

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Executive Summary

Property Information:

Project Property: *Phase I ESA
42-46 Woodend Drive Hamilton ON L0R 1H2*

Project No: 2108704

Order Information:

Order No: 24030100788
Date Requested: March 1, 2024
Requested by: Palmer Environmental Consulting Group Inc.
Report Type: Quote - Custom-Build Your Own Report

Historical/Products:

ERIS Xplorer [ERIS Xplorer](#)

Executive Summary: Report Summary

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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	N	-	-	-
INC	<i>Fuel Oil Spills and Leaks</i>	N	-	-	-
LIMO	<i>Landfill Inventory Management Ontario</i>	N	-	-	-
MINE	<i>Canadian Mine Locations</i>	N	-	-	-
MNR	<i>Mineral Occurrences</i>	N	-	-	-
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	N	-	-	-
NCPL	<i>Non-Compliance Reports</i>	N	-	-	-
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	N	-	-	-
NDSP	<i>National Defense & Canadian Forces Spills</i>	N	-	-	-
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	N	-	-	-
NEBI	<i>National Energy Board Pipeline Incidents</i>	N	-	-	-
NEBP	<i>National Energy Board Wells</i>	N	-	-	-
NEES	<i>National Environmental Emergencies System (NEES)</i>	N	-	-	-
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPR2	<i>National Pollutant Release Inventory 1993-2020</i>	N	-	-	-
NPRI	<i>National Pollutant Release Inventory - Historic</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	N	-	-	-
OOGW	<i>Ontario Oil and Gas Wells</i>	N	-	-	-
OPCB	<i>Inventory of PCB Storage Sites</i>	N	-	-	-
ORD	<i>Orders</i>	N	-	-	-
PAP	<i>Canadian Pulp and Paper</i>	N	-	-	-
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	N	-	-	-
PES	<i>Pesticide Register</i>	N	-	-	-
PFCH	<i>NPRI Reporters - PFAS Substances</i>	N	-	-	-
PFHA	<i>Potential PFAS Handlers from NPRI</i>	N	-	-	-
PINC	<i>Pipeline Incidents</i>	N	-	-	-
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	N	-	-	-
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	N	-	-	-
RSC	<i>Record of Site Condition</i>	N	-	-	-
RST	<i>Retail Fuel Storage Tanks</i>	N	-	-	-
SCT	<i>Scott's Manufacturing Directory</i>	N	-	-	-
SPL	<i>Ontario Spills</i>	Y	0	1	1
SRDS	<i>Wastewater Discharger Registration Database</i>	N	-	-	-
TANK	<i>Anderson's Storage Tanks</i>	N	-	-	-
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	N	-	-	-
VAR	<i>Variations for Abandonment of Underground Storage Tanks</i>	N	-	-	-
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	N	-	-	-
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	3	5	8

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</i>	<i>Total</i>
		Total:	4	6	10

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>1</u>	WWIS		lot 6 con 9 ON Well ID: 6807563	ESE/0.0	-0.07	<u>14</u>
<u>2</u>	WWIS		ACREDALE DR lot 6 con 9 CARLISLE ON Well ID: 7208552	SSE/0.0	-0.02	<u>19</u>
<u>3</u>	WWIS		ACREDALE DR lot 6 con 9 CARLISLE ON Well ID: 7204074	ENE/0.0	-0.70	<u>24</u>
<u>4</u>	GEN	City of Hamilton	46 Woodend Drive Flamboro ON	NNE/0.0	-1.09	<u>26</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>5</u>	WWIS		lot 6 con 9 ON Well ID: 6808885	NE/8.3	-1.08	<u>26</u>
<u>6</u>	WWIS		lot 8 con 9 ON Well ID: 6813204	WNW/20.4	-0.05	<u>30</u>
<u>7</u>	SPL		HAMILTON ON	E/129.8	-2.70	<u>34</u>
<u>8</u>	WWIS		lot 6 con 9 ON Well ID: 6813816	NW/136.5	3.07	<u>35</u>
<u>9</u>	WWIS		lot 6 con 9 ON Well ID: 6811941	NW/136.9	3.07	<u>38</u>
<u>10</u>	WWIS		1586 CENTER RD. lot 6 con 9 CARLISLE ON Well ID: 7108717	NNW/242.5	0.29	<u>42</u>

Executive Summary: Summary By Data Source

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 1 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Hamilton	46 Woodend Drive Flamboro ON	0.0	<u>4</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2023; May 2023-Dec 2023 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

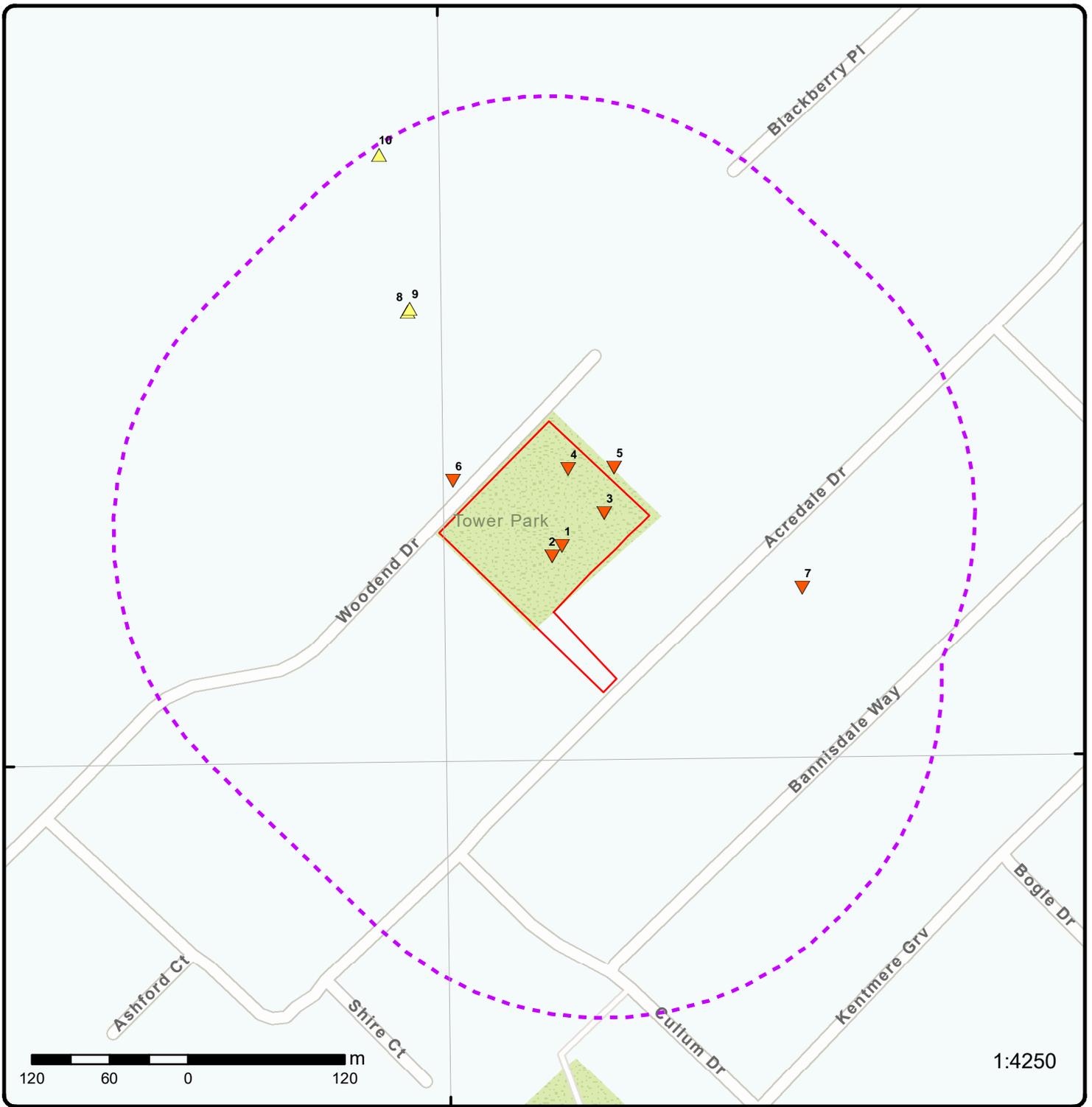
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	HAMILTON ON	129.8	<u>7</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Mar 31 2023 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 6 con 9 ON <i>Well ID: 6807563</i>	0.0	<u>1</u>
	ACREDALE DR lot 6 con 9 CARLISLE ON <i>Well ID: 7208552</i>	0.0	<u>2</u>
	ACREDALE DR lot 6 con 9 CARLISLE ON <i>Well ID: 7204074</i>	0.0	<u>3</u>
	lot 6 con 9 ON	8.3	<u>5</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 6808885		
	lot 8 con 9 ON	20.4	<u>6</u>
	<i>Well ID:</i> 6813204		
	lot 6 con 9 ON	136.5	<u>8</u>
	<i>Well ID:</i> 6813816		
	lot 6 con 9 ON	136.9	<u>9</u>
	<i>Well ID:</i> 6811941		
	1586 CENTER RD. lot 6 con 9 CARLISLE ON	242.5	<u>10</u>
	<i>Well ID:</i> 7108717		



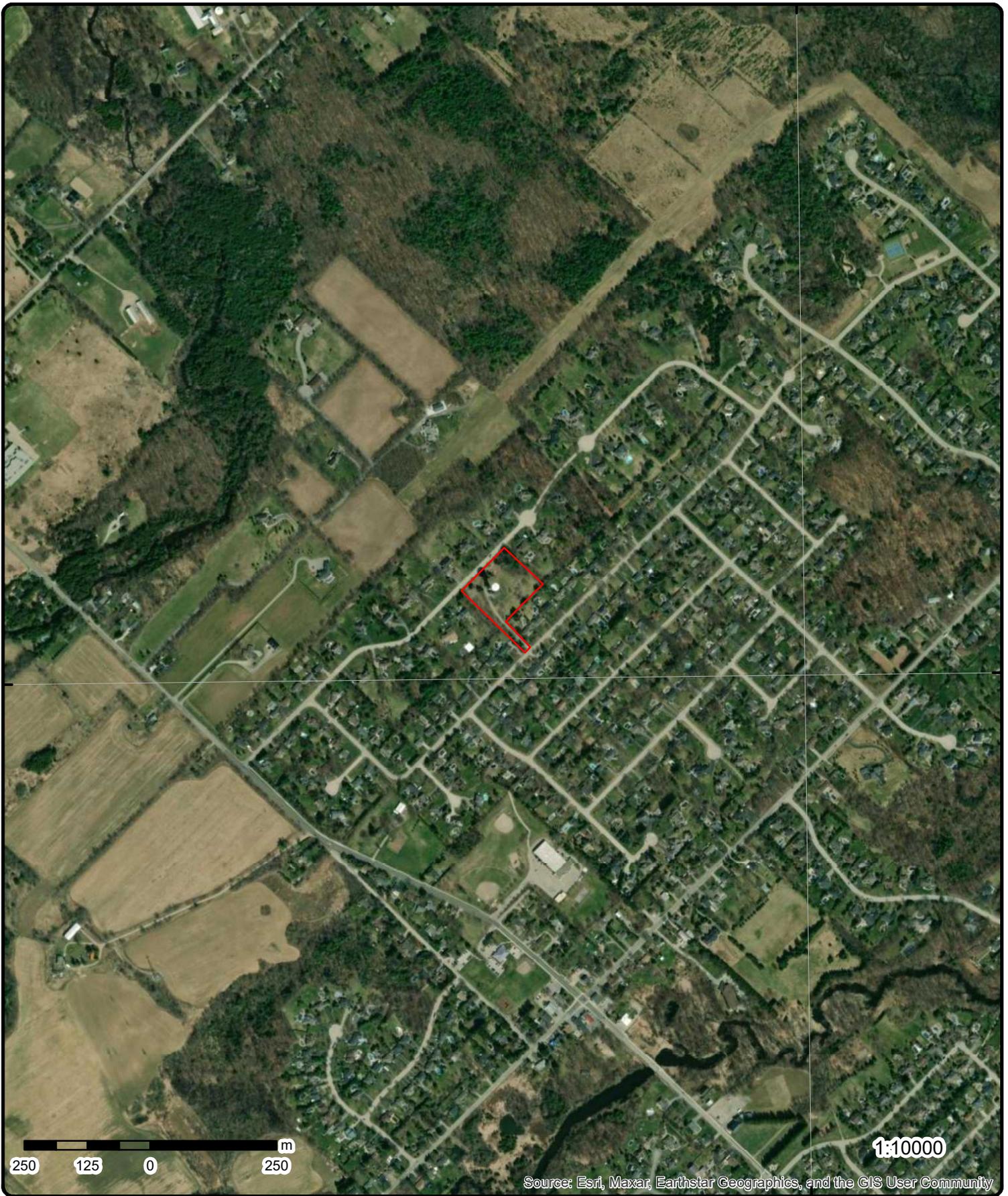
Map: 0.25 Kilometer Radius

Order Number: 24030100788

Address: 42-46 Woodend Drive, Hamilton, 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



Aerial Year: 2021

Order Number: 24030100788

Address: 42-46 Woodend Drive, Hamilton, ON



Source: ESRI World Imagery

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80°0'W

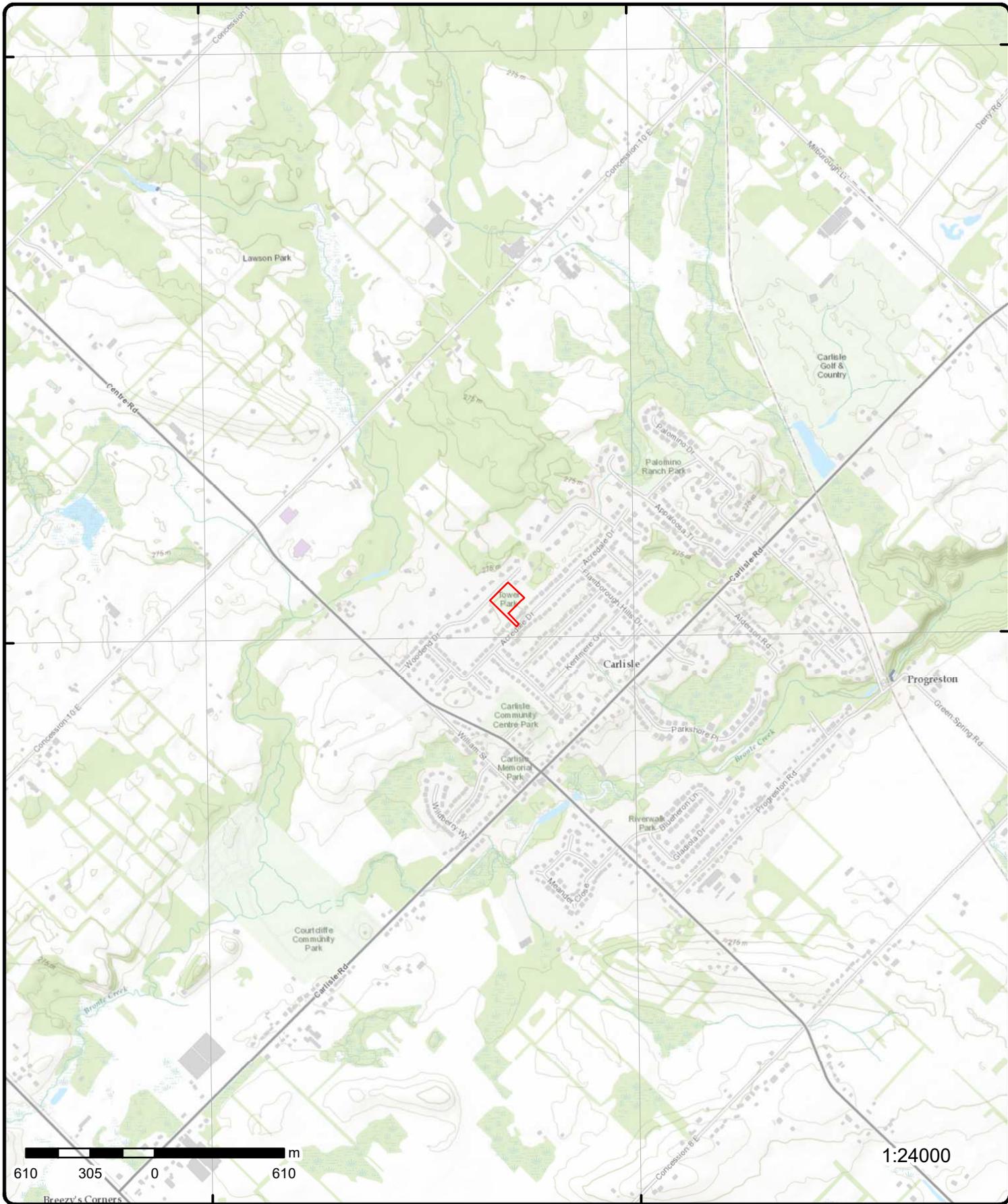
79°58'30"W

43°25'30"N

43°25'30"N

43°24'N

43°24'N



Topographic Map

Order Number: 24030100788

Address: 42-46 Woodend Drive, ON



Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	ESE/0.0	274.8 / -0.07	lot 6 con 9 ON	WWIS

<p>Well ID: 6807563</p> <p>Construction Date:</p> <p>Use 1st: Public</p> <p>Use 2nd: 0</p> <p>Final Well Status: Water Supply</p> <p>Water Type:</p> <p>Casing Material:</p> <p>Audit No:</p> <p>Tag:</p> <p>Constructn Method:</p> <p>Elevation (m):</p> <p>Elevatn Reliabilty:</p> <p>Depth to Bedrock:</p> <p>Well Depth:</p> <p>Overburden/Bedrock:</p> <p>Pump Rate:</p> <p>Static Water Level:</p> <p>Clear/Cloudy:</p> <p>Municipality: EAST FLAMBOROUGH TOWNSHIP</p> <p>Site Info:</p>	<p>Flowing (Y/N):</p> <p>Flow Rate:</p> <p>Data Entry Status:</p> <p>Data Src: 1</p> <p>Date Received: 09/16/1970</p> <p>Selected Flag: TRUE</p> <p>Abandonment Rec:</p> <p>Contractor: 5417</p> <p>Form Version: 1</p> <p>Owner:</p> <p>County: WENTWORTH</p> <p>Lot: 006</p> <p>Concession: 09</p> <p>Concession Name: CON</p> <p>Easting NAD83:</p> <p>Northing NAD83:</p> <p>Zone:</p> <p>UTM Reliability:</p>
--	--

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/680\6807563.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/27/1970

Year Completed: 1970

Depth (m): 39.624

Latitude: 43.4014799003229

Longitude: -79.9822355039039

Path: 680\6807563.pdf

Bore Hole Information

<p>Bore Hole ID: 10484971</p> <p>DP2BR:</p> <p>Spatial Status:</p> <p>Code OB:</p> <p>Code OB Desc:</p> <p>Open Hole:</p> <p>Cluster Kind:</p> <p>Date Completed: 08/27/1970</p> <p>Remarks:</p> <p>Loc Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m</p> <p>Elevrc Desc:</p> <p>Location Source Date:</p> <p>Improvement Location Source:</p> <p>Improvement Location Method:</p> <p>Source Revision Comment:</p> <p>Supplier Comment:</p>	<p>Elevation:</p> <p>Elevrc:</p> <p>Zone: 17</p> <p>East83: 582414.40</p> <p>North83: 4805903.00</p> <p>Org CS:</p> <p>UTMRC: 4</p> <p>UTMRC Desc: margin of error : 30 m - 100 m</p> <p>Location Method: p4</p>
--	---

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932685699			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		80.0			
Formation End Depth:		84.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932685701			
Layer:		6			
Color:		1			
General Color:		WHITE			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		97.0			
Formation End Depth:		114.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932685703			
Layer:		8			
Color:		3			
General Color:		BLUE			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		125.0			
Formation End Depth:		130.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932685700			
Layer:		5			
Color:		6			
General Color:		BROWN			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		84.0			
Formation End Depth:		97.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932685698			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		42.0			
Formation End Depth:		80.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932685696			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		15.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932685697			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		15.0			
Formation End Depth:		42.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932685702			
Layer:		7			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:	2				
General Color:		GREY			
Mat1:	15				
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	114.0				
Formation End Depth:	125.0				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	966807563				
Method Construction Code:	1				
Method Construction:	Cable Tool				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	11033541				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930793116				
Layer:	1				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:					
Depth To:	42.0				
Casing Diameter:	6.0				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Casing</u>					
Casing ID:	930793117				
Layer:	2				
Material:	4				
Open Hole or Material:	OPEN HOLE				
Depth From:					
Depth To:	130.0				
Casing Diameter:					
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:	PUMP				
Pump Test ID:	996807563				
Pump Set At:					
Static Level:	38.0				
Final Level After Pumping:	41.0				
Recommended Pump Depth:	120.0				
Pumping Rate:	25.0				
Flowing Rate:					
Recommended Pump Rate:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>		1			
<i>Water State After Test:</i>		CLEAR			
<i>Pumping Test Method:</i>		1			
<i>Pumping Duration HR:</i>		1			
<i>Pumping Duration MIN:</i>		0			
<i>Flowing:</i>		No			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		934868608			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		45			
<i>Test Level:</i>		41.0			
<i>Test Level UOM:</i>		ft			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		935138444			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		41.0			
<i>Test Level UOM:</i>		ft			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		934352367			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		40.0			
<i>Test Level UOM:</i>		ft			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		934616367			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		30			
<i>Test Level:</i>		41.0			
<i>Test Level UOM:</i>		ft			
 <u>Water Details</u>					
<i>Water ID:</i>		933976339			
<i>Layer:</i>		1			
<i>Kind Code:</i>		1			
<i>Kind:</i>		FRESH			
<i>Water Found Depth:</i>		51.0			
<i>Water Found Depth UOM:</i>		ft			
 <u>Links</u>					
<i>Bore Hole ID:</i>	10484971			<i>Tag No:</i>	5417
<i>Depth M:</i>	39.624			<i>Contractor:</i>	43.4014799003229
<i>Year Completed:</i>	1970			<i>Latitude:</i>	-79.9822355039039
<i>Well Completed Dt:</i>	08/27/1970			<i>Longitude:</i>	43.40147989781263
<i>Audit No:</i>				<i>Y:</i>	43.40147989781263
<i>Path:</i>	680\6807563.pdf			<i>X:</i>	-79.98223535534704

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	SSE/0.0	274.9 / -0.02	ACREDALE DR lot 6 con 9 CARLISLE ON	WWIS

Well ID:	7208552	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Public	Data Entry Status:	
Use 2nd:		Data Src:	
Final Well Status:	Alteration	Date Received:	10/01/2013
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	Z151373	Contractor:	2604
Tag:	A131355	Form Version:	7
Constructn Method:		Owner:	
Elevation (m):		County:	WENTWORTH
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	09
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	EAST FLAMBOROUGH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7208552.pdf

Additional Detail(s) (Map)

Well Completed Date:	08/01/2013
Year Completed:	2013
Depth (m):	39.0144
Latitude:	43.4014086892525
Longitude:	-79.9823280805995
Path:	720\7208552.pdf

Bore Hole Information

Bore Hole ID:	1004585995	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	582407.00
Code OB Desc:		North83:	4805895.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	08/01/2013	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004614499
Layer:	2
Color:	
General Color:	
Mat1:	
Most Common Material:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		41.0			
Formation End Depth:		128.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1004614498			
Layer:		1			
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		41.0			
Formation End Depth UOM:		ft			
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004614524			
Layer:		1			
Plug From:		6.0			
Plug To:		41.0			
Plug Depth UOM:		ft			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1004614523			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		1004614496			
Casing No:		0			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		1004614502			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		3.0			
Depth To:		41.0			
Casing Diameter:		6.199999809265137			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Screen</u>					
Screen ID:			1004614503		
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:			ft		
Screen Diameter UOM:			inch		
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
<u>Pumping Test Method Desc:</u>					
Pump Test ID:			1004614497		
Pump Set At:			70.0		
Static Level:			41.0		
Final Level After Pumping:			43.72999954223633		
Recommended Pump Depth:			70.0		
Pumping Rate:			168.0		
Flowing Rate:					
Recommended Pump Rate:			168.0		
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			1		
Water State After Test:			CLEAR		
Pumping Test Method:			0		
Pumping Duration HR:			8		
Pumping Duration MIN:					
Flowing:					
<u>Draw Down & Recovery</u>					
<u>Pump Test Detail ID:</u>					
Pump Test Detail ID:			1004614509		
Test Type:			Recovery		
Test Duration:			3		
Test Level:			41.7599983215332		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
<u>Pump Test Detail ID:</u>					
Pump Test Detail ID:			1004614511		
Test Type:			Recovery		
Test Duration:			4		
Test Level:			41.7599983215332		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
<u>Pump Test Detail ID:</u>					
Pump Test Detail ID:			1004614516		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			43.400001525878906		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
<u>Pump Test Detail ID:</u>					
Pump Test Detail ID:			1004614520		
Test Type:			Draw Down		
Test Duration:			50		
Test Level:			43.43000030517578		

<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>
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614507			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		41.83000183105469			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614517			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		43.43000030517578			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614513			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		41.72999954223633			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614505			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		41.88999938964844			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614521			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		43.470001220703125			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614508			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		43.29999923706055			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614512			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		43.34000015258789			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					

<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>
Pump Test Detail ID:		1004614519			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		43.43000030517578			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614506			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		43.29999923706055			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614510			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		43.33000183105469			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614514			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		43.400001525878906			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614518			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		43.43000030517578			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614504			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		43.27000045776367			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004614515			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		41.630001068115234			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		1004614501			
Layer:					
Kind Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1004614500			
Diameter:		13.0			
Depth From:		0.0			
Depth To:		41.0			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<u>Links</u>					
Bore Hole ID:	1004585995			Tag No:	A131355
Depth M:	39.0144			Contractor:	2604
Year Completed:	2013			Latitude:	43.4014086892525
Well Completed Dt:	08/01/2013			Longitude:	-79.9823280805995
Audit No:	Z151373			Y:	43.401408686800245
Path:	720\7208552.pdf			X:	-79.9823279321039

<u>3</u>	1 of 1	ENE/0.0	274.2 / -0.70	ACREDALE DR lot 6 con 9 CARLISLE ON	WWIS
Well ID:	7204074			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:				Data Entry Status:	
Use 2nd:				Data Src:	
Final Well Status:	Alteration			Date Received:	07/02/2013
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	Z151351			Contractor:	2604
Tag:	A131386			Form Version:	7
Constructn Method:				Owner:	
Elevation (m):				County:	WENTWORTH
Elevatn Reliabilty:				Lot:	006
Depth to Bedrock:				Concession:	09
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	EAST FLAMBOROUGH TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7204074.pdf				

Additional Detail(s) (Map)

Well Completed Date:	06/12/2013
Year Completed:	2013
Depth (m):	
Latitude:	43.4017013927869
Longitude:	-79.98182920794
Path:	720\7204074.pdf

Bore Hole Information

Bore Hole ID:	1004385662	Elevation:	
DP2BR:		Elevrc:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Spatial Status:				Zone:	17
Code OB:				East83:	582447.00
Code OB Desc:				North83:	4805928.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:		06/12/2013	UTMRC Desc:		margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Loc Method Desc:		on Water Well Record			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004804158			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004804152			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004804156			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-2.5			
Depth To:		7.699999809265137			
Casing Diameter:		12.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004804157			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1004804155			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Hole Diameter

Hole ID: 1004804154
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID:	1004385662	Tag No:	A131386
Depth M:		Contractor:	2604
Year Completed:	2013	Latitude:	43.4017013927869
Well Completed Dt:	06/12/2013	Longitude:	-79.98182920794
Audit No:	Z151351	Y:	43.40170139115491
Path:	720\7204074.pdf	X:	-79.98182905913139

<u>4</u>	1 of 1	NNE/0.0	273.8 / -1.09	City of Hamilton 46 Woodend Drive Flamboro ON	GEN
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Generator No: ON4696224
SIC Code: 221310
SIC Description: WATER SUPPLY AND IRRIGATION SYSTEMS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

<u>5</u>	1 of 1	NE/8.3	273.8 / -1.08	lot 6 con 9 ON	WWIS
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Well ID:	6808885	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Public	Data Entry Status:	
Use 2nd:	Municipal	Data Src:	1
Final Well Status:	Water Supply	Date Received:	08/06/1974
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	5417
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	WENTWORTH
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	09
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Municipality:		EAST FLAMBOROUGH TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/680\6808885.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		07/12/1974			
Year Completed:		1974			
Depth (m):		35.9664			
Latitude:		43.4020156852768			
Longitude:		-79.9817325587094			
Path:		680\6808885.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10486241			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	582454.40
Code OB Desc:				North83:	4805963.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	07/12/1974			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 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:	932689816				
Layer:	5				
Color:	3				
General Color:	BLUE				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	112.0				
Formation End Depth:	116.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932689812				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	11				
Most Common Material:	GRAVEL				
Mat2:	13				
Mat2 Desc:	BOULDERS				
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:			0.0		
Formation End Depth:			29.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932689814		
Layer:			3		
Color:			1		
General Color:			WHITE		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			85.0		
Formation End Depth:			101.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932689813		
Layer:			2		
Color:			6		
General Color:			BROWN		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			29.0		
Formation End Depth:			85.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932689817		
Layer:			6		
Color:			7		
General Color:			RED		
Mat1:			17		
Most Common Material:			SHALE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			116.0		
Formation End Depth:			118.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932689815		
Layer:			4		
Color:			2		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		101.0			
Formation End Depth:		112.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966808885			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11034811			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930795264			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30.0			
Casing Diameter:		10.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930795265			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		118.0			
Casing Diameter:		10.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		BAILER			
Pump Test ID:		996808885			
Pump Set At:					
Static Level:		21.0			
Final Level After Pumping:		23.0			
Recommended Pump Depth:					
Pumping Rate:		43.0			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934620301			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		23.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934872521			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		23.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935141968			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		23.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934356332			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		23.0			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID:		933977913			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		38.0			
Water Found Depth UOM:		ft			
 <u>Links</u>					
Bore Hole ID:		10486241		Tag No:	
Depth M:		35.9664		Contractor:	
Year Completed:		1974		5417	
Well Completed Dt:		07/12/1974		Latitude:	
Audit No:				43.4020156852768	
Path:		680\6808885.pdf		Longitude:	
				-79.9817325587094	
				Y:	
				43.40201568317653	
				X:	
				-79.98173241029117	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	6813204			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:				Data Src:	1
Final Well Status:	Water Supply			Date Received:	09/23/1999
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	204443			Contractor:	4005
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	WENTWORTH
Elevatn Reliability:				Lot:	008
Depth to Bedrock:				Concession:	09
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		EAST FLAMBOROUGH TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/681\6813204.pdf

Additional Detail(s) (Map)

Well Completed Date: 09/09/1999
Year Completed: 1999
Depth (m): 24.384
Latitude: 43.4019392128233
Longitude: -79.983257752018
Path: 681\6813204.pdf

Bore Hole Information

Bore Hole ID:	10490517	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	582331.00
Code OB Desc:		North83:	4805953.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	09/09/1999	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	gis
Loc Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 932704273
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		30.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932704274			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		30.0			
Formation End Depth:		80.0			
Formation End Depth UOM:		ft			
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933211923			
Layer:		1			
Plug From:		0.0			
Plug To:		20.0			
Plug Depth UOM:		ft			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		966813204			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		11039087			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930801764			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		80.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930801763			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		996813204			
Pump Set At:					
Static Level:		26.0			
Final Level After Pumping:		70.0			
Recommended Pump Depth:		75.0			
Pumping Rate:		30.0			
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:					
Pumping Duration MIN:		30			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934623580			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		70.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934352135			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		70.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933983616			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		75.0			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933983615			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		37.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth UOM:		ft			
Links					
Bore Hole ID:	10490517			Tag No:	
Depth M:	24.384			Contractor:	4005
Year Completed:	1999			Latitude:	43.4019392128233
Well Completed Dt:	09/09/1999			Longitude:	-79.983257752018
Audit No:	204443			Y:	43.40193921101948
Path:	681\6813204.pdf			X:	-79.98325760363976

<u>7</u>	1 of 1	E/129.8	272.2 / -2.70	HAMILTON ON	SPL
Ref No:	1-4GPHVI			Municipality No:	
Year:				Nature of Damage:	
Incident Dt:	11/29/2023 2:36:00 PM			Discharger Report:	
Dt MOE Arvl on Scn:				Material Group:	
MOE Reported Dt:	11/30/2023 10:03:19 AM			Health/Env Conseq:	
Dt Document Closed:				Agency Involved:	
Site No:					
MOE Response:	Desktop Response				
Site County/District:					
Site Geo Ref Meth:					
Site District Office:	Hamilton District Office				
Nearest Watercourse:					
Site Name:					
Site Address:					
Site Region:					
Site Municipality:	HAMILTON				
Site Lot:					
Site Conc:					
Site Geo Ref Accu:					
Site Map Datum:					
Northing:					
Easting:					
Incident Cause:					
Incident Event:	Line Strike				
Environment Impact:					
Nature of Impact:					
Contaminant Qty:	0 other - see notes				
System Facility Address:					
Client Name:	ENBRIDGE INC				
Client Type:	Private Business				
Source Type:	Pipeline/Components				
Contaminant Code:					
Contaminant Name:	NATURAL GAS				
Contaminant Limit 1:					
Contam Limit Freq 1:					
Contaminant UN No 1:					
Receiving Medium:	Air				
Incident Reason:	Human error (Specify)				
Incident Summary:	enbridge/tssa: drill damaged meter				
Activity Preceding Spill:	Other (specify)				
Property 2nd Watershed:	02H Northern Lake Ontario and Niagara River				
Property Tertiary Watershed:	02HB Sixteen Mile Creek - Credit River				
Sector Type:	NATURAL GAS DISTRIBUTION				
SAC Action Class:					
Call Report Locatn Geodata:	{ "integration_ids": ["PR00001078536"], "wks": ["POINT (-79.9799623000 43.4011710000)", "POINT (-79.9799623000 43.4011710000)"], "creation_date": "2023-11-30" }				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>8</u>	1 of 1	NW/136.5	278.0 / 3.07	lot 6 con 9 ON	WWIS

Well ID:	6813816	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Not Used	Data Entry Status:	
Use 2nd:		Data Src:	1
Final Well Status:	Observation Wells	Date Received:	06/03/2003
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	255723	Contractor:	7133
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	WENTWORTH
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	09
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	EAST FLAMBOROUGH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/681\6813816.pdf

Additional Detail(s) (Map)

Well Completed Date:	02/03/2003
Year Completed:	2003
Depth (m):	39.624
Latitude:	43.4031134491576
Longitude:	-79.9836703492696
Path:	681\6813816.pdf

Bore Hole Information

Bore Hole ID:	10542380	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	582296.00
Code OB Desc:		North83:	4806083.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	7
Date Completed:	02/03/2003	UTMRC Desc:	margin of error : 1 km - 3 km
Remarks:		Location Method:	lot
Loc Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932922363
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	15
Most Common Material:	LIMESTONE

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:		40.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932922361			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		28			
Mat3 Desc:		SAND			
Formation Top Depth:		0.0			
Formation End Depth:		30.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932922364			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		40.0			
Formation End Depth:		110.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932922362			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		05			
Mat3 Desc:		CLAY			
Formation Top Depth:		30.0			
Formation End Depth:		35.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		932922365			
Layer:		5			
Color:		7			
General Color:		RED			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:		85			
Mat2 Desc:		SOFT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		110.0			
Formation End Depth:		130.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933240275			
Layer:		1			
Plug From:		0.0			
Plug To:		15.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966813816			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11090950			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930802641			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		40.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:					
Pump Test ID:		996813816			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:		43.0			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR: 13
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 934036210
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 70.0
Water Found Depth UOM: ft

Water Details

Water ID: 934036208
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Water Details

Water ID: 934036209
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 55.0
Water Found Depth UOM: ft

Water Details

Water ID: 934036211
Layer: 4
Kind Code: 1
Kind: FRESH
Water Found Depth: 75.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10542380	Tag No:
Depth M: 39.624	Contractor: 7133
Year Completed: 2003	Latitude: 43.4031134491576
Well Completed Dt: 02/03/2003	Longitude: -79.9836703492696
Audit No: 255723	Y: 43.403113446718464
Path: 681\6813816.pdf	X: -79.98367020051352

9	1 of 1	NW/136.9	278.0 / 3.07	lot 6 con 9 ON	WWIS
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Well ID: 6811941	Flowing (Y/N):
Construction Date:	Flow Rate:
Use 1st: Domestic	Data Entry Status:
Use 2nd:	Data Src: 1
Final Well Status: Water Supply	Date Received: 09/28/1990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	76388			Contractor:	4005
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	WENTWORTH
Elevatn Reliabilty:				Lot:	006
Depth to Bedrock:				Concession:	09
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		EAST FLAMBOROUGH TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/681\6811941.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		09/01/1990			
Year Completed:		1990			
Depth (m):		13.716			
Latitude:		43.4031313015825			
Longitude:		-79.9836527613462			
Path:		681\6811941.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10489255			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	582297.40
Code OB Desc:				North83:	4806085.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	09/01/1990			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	lot
Loc Method Desc:		Lot centroid			
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:	932699971				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	81				
Mat2 Desc:	SANDY				
Mat3:	77				
Mat3 Desc:	LOOSE				
Formation Top Depth:	12.0				
Formation End Depth:	35.0				
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:		932699972			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		73			
Mat2 Desc:		HARD			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		35.0			
Formation End Depth:		45.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932699970			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		77			
Mat3 Desc:		LOOSE			
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966811941			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11037825			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930799736			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		35.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		930799737			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		45.0			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		996811941			
Pump Set At:					
Static Level:		14.0			
Final Level After Pumping:		36.0			
Recommended Pump Depth:		42.0			
Pumping Rate:		12.0			
Flowing Rate:					
Recommended Pump Rate:		10.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935141567			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		14.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934357058			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		14.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934628430			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		14.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934881009			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		14.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Test Level UOM: ft

Water Details

Water ID: 933981862
 Layer: 2
 Kind Code: 5
 Kind: Not stated
 Water Found Depth: 43.0
 Water Found Depth UOM: ft

Water Details

Water ID: 933981861
 Layer: 1
 Kind Code: 5
 Kind: Not stated
 Water Found Depth: 37.0
 Water Found Depth UOM: ft

Links

Bore Hole ID:	10489255	Tag No:	
Depth M:	13.716	Contractor:	4005
Year Completed:	1990	Latitude:	43.4031313015825
Well Completed Dt:	09/01/1990	Longitude:	-79.9836527613462
Audit No:	76388	Y:	43.403131300212436
Path:	681\6811941.pdf	X:	-79.98365261240257

[10](#) 1 of 1 **NNW/242.5** **275.2 / 0.29** **1586 CENTER RD. lot 6 con 9** **CARLISLE ON** **WWIS**

Well ID:	7108717	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:		Data Src:	
Final Well Status:	Water Supply	Date Received:	07/24/2008
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	Z79412	Contractor:	4005
Tag:	A070678	Form Version:	4
Constructn Method:		Owner:	
Elevation (m):		County:	WENTWORTH
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	09
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	EAST FLAMBOROUGH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/7107108717.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/12/2008
 Year Completed: 2008
 Depth (m): 21.33
 Latitude: 43.4041962273439
 Longitude: -79.9839239427164

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Path:		710\7108717.pdf			

Bore Hole Information

Bore Hole ID:	1001689218	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	582274.00
Code OB Desc:		North83:	4806203.00
Open Hole:	Yes	Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	05/12/2008	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1001725325
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	81
Mat2 Desc:	SANDY
Mat3:	05
Mat3 Desc:	CLAY
Formation Top Depth:	0.0
Formation End Depth:	5.480000019073486
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1001725327
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0500000190734863
Formation End Depth:	21.329999923706055
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1001725326
Layer:	2
Color:	6
General Color:	BROWN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		5.480000019073486			
Formation End Depth:		10.0500000190734863			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1001725329			
Layer:		1			
Plug From:		0.0			
Plug To:		6.0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1001725351			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1001725323			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1001725331			
Layer:					
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10.0500000190734863			
Casing Diameter:		15.199999809265137			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1001725332			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:					
Screen Diameter UOM:					
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		SUBMERGE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test ID:		1001725324			
Pump Set At:		20.0			
Static Level:		11.460000038146973			
Final Level After Pumping:		12.800000190734863			
Recommended Pump Depth:		20.0			
Pumping Rate:		113.6500015258789			
Flowing Rate:					
Recommended Pump Rate:		113.6500015258789			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		4			
Pumping Duration HR:		1			
Pumping Duration MIN:					
Flowing:					
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725335			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		12.430000305175781			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725337			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		12.489999771118164			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725338			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		11.520000457763672			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725348			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		12.779999732971191			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725341			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		12.550000190734863			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1001725345			
Test Type:		Draw Down			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Duration:</i>			25		
<i>Test Level:</i>			12.739999771118164		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725347		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			40		
<i>Test Level:</i>			12.770000457763672		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725349		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			60		
<i>Test Level:</i>			12.800000190734863		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725334		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			1		
<i>Test Level:</i>			11.670000076293945		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725344		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			20		
<i>Test Level:</i>			12.720000267028809		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725342		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			10		
<i>Test Level:</i>			12.630000114440918		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725333		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			1		
<i>Test Level:</i>			12.369999885559082		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1001725339		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			4		
<i>Test Level:</i>			12.520000457763672		
<i>Test Level UOM:</i>			m		

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Draw Down & Recovery

Pump Test Detail ID: 1001725336
Test Type: Recovery
Test Duration: 2
Test Level: 11.550000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001725343
Test Type: Draw Down
Test Duration: 15
Test Level: 12.6899995803833
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001725340
Test Type: Recovery
Test Duration: 4
Test Level: 11.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001725346
Test Type: Draw Down
Test Duration: 30
Test Level: 12.75
Test Level UOM: m

Water Details

Water ID: 1001725330
Layer: 1
Kind Code:
Kind:
Water Found Depth: 19.200000762939453
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001725328
Diameter: 25.399999618530273
Depth From:
Depth To: 6.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID:	1001689218	Tag No:	A070678
Depth M:	21.33	Contractor:	4005
Year Completed:	2008	Latitude:	43.4041962273439
Well Completed Dt:	05/12/2008	Longitude:	-79.9839239427164
Audit No:	Z79412	Y:	43.40419622507945
Path:	710\7108717.pdf	X:	-79.98392379384381

Unplottable Summary

Total: 4 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
GEN	UNION GAS LIMITED 39-480	CARISLE STN., LOT 5, CONC.9 FLAMBOROUGH EAST, C/O 50 KEIL DR.N.	CHATHAM ON	N7M 5M1
GEN	UNION GAS LIMITED	CARISLE STATION LOT 5, CONCESSION 9	FLAMBOROUGH EAST ON	
PRT	BATES & GREEN GARAGE	LOT 7 CON 9 E FLAMBORO TWP	CARLISLE ON	
SPL	ONTARIO HYDRO	LOT 7 CON. 9 , BIRCHWOOD. TRANSFORMER	FLAMBOROUGH TOWN ON	

Unplottable Report

Site: UNION GAS LIMITED 39-480
CARISLE STN., LOT 5, CONC.9 FLAMBOROUGH EAST, C/O 50 KEIL DR.N. CHATHAM ON N7M 5M1

Database:
GEN

Generator No: ON0178236
SIC Code: 4611
SIC Description: GAS PIPELINE TRANS.
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Site: UNION GAS LIMITED
CARISLE STATION LOT 5, CONCESSION 9 FLAMBOROUGH EAST ON

Database:
GEN

Generator No: ON0178236
SIC Code: 4611
SIC Description: GAS PIPELINE TRANS.
Approval Years: 97,98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Site: BATES & GREEN GARAGE
LOT 7 CON 9 E FLAMBORO TWP CARLISLE ON

Database:
PRT

Location ID: 2794
Type: retail
Expiry Date: 1995-08-31
Capacity (L): 0
Licence #: 0025894001

Site: ONTARIO HYDRO

Database:

Ref No:	9021	Municipality No:	16404
Year:		Nature of Damage:	
Incident Dt:	9/8/1988	Discharger Report:	
Dt MOE Arvl on Scn:		Material Group:	
MOE Reported Dt:	9/8/1988	Health/Env Conseq:	
Dt Document Closed:		Agency Involved:	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	FLAMBOROUGH TOWN		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	OTHER CONTAINER LEAK		
Incident Event:			
Environment Impact:			
Nature of Impact:			
Contaminant Qty:			
System Facility Address:			
Client Name:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	LAND		
Incident Reason:	GASKET/JOINT		
Incident Summary:	ONTARIO HYDRO-0.5 L TRANSFORMER OIL SPILLED		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:			
Call Report Locatn Geodata:			

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Mar 2022

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

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

Government Publication Date: 1999-Oct 31, 2023

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2022

Commercial Fuel Oil Tanks:

Provincial CFOT

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

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

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors:

Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

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

Government Publication Date: 1999-Oct 31, 2023

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 2023

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Nov 2023

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994 - Jan 31, 2024

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 - Aug 2023

Delisted Fuel Tanks:

Provincial [DTNK](#)

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

Government Publication Date: Oct 2023

Environmental Activity and Sector Registry:

Provincial [EASR](#)

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

Government Publication Date: Oct 2011-Dec 31, 2023

Environmental Registry:

Provincial [EBR](#)

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

Government Publication Date: 1994 - Jan 31, 2024

Environmental Compliance Approval:

Provincial [ECA](#)

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

Government Publication Date: Oct 2011- Dec 31, 2023

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-Dec 31, 2023

Environmental Issues Inventory System:

Federal [EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report:

Provincial **EPAR**

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2022

List of Expired Fuels Safety Facilities:

Provincial **EXP**

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

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

Government Publication Date: Oct 2023

Federal Convictions:

Federal **FCON**

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

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

Government Publication Date: Jun 2000-Oct 2023

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

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

Government Publication Date: Oct 31, 2021

Fuel Storage Tank:

Provincial **FST**

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

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

Government Publication Date: Oct 2023

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

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

Government Publication Date: 1986-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

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

Government Publication Date: 2013-Dec 2021

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: 31 Oct, 2023

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

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

Government Publication Date: Mar 31, 2022

Canadian Mine Locations:

Private

[MINE](#)

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

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

Government Publication Date: 1846-Feb 2023

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

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

Government Publication Date: Dec 31, 2022

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

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

Government Publication Date: Mar 1999-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal [NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

[NPCB](#)

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020:

Federal

[NPR2](#)

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Sep 2020

National Pollutant Release Inventory - Historic:

Federal

[NPRI](#)

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

[OGWE](#)

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

Government Publication Date: 1988-Nov 30, 2023

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-Aug 2023

Inventory of PCB Storage Sites:

Provincial

[OPCB](#)

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

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

Orders:

Provincial

[ORD](#)

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

Government Publication Date: 1994 - Jan 31, 2024

Canadian Pulp and Paper:

Private

PAP

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

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

Parks Canada Fuel Storage Tanks:

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

PES

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

Government Publication Date: Oct 2011- Dec 31, 2023

NPRI Reporters - PFAS Substances:

Federal

PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Sep 2020

Potential PFAS Handlers from NPRI:

Federal

PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Sep 2020

Pipeline Incidents:

Provincial

PINC

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

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks:

Provincial

PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial

PTTW

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

Government Publication Date: 1994 - Jan 31, 2024

Ontario Regulation 347 Waste Receivers Summary:

Provincial

REC

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

Government Publication Date: 1986-1990, 1992-2021

Record of Site Condition:

Provincial **RSC**

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Nov 2023

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-Oct 31, 2023

Scott's Manufacturing Directory:

Private **SC**

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial **SPL**

List of spills and incidents made available by the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. 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-Jan 2023; May 2023-Dec 2023

Wastewater Discharger Registration Database:

Provincial **SRDS**

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation, Mining, Petroleum Refining, Organic Chemicals, Inorganic Chemicals, Pulp & Paper, Metal Casting, Iron & Steel, and Quarries.

Government Publication Date: 1990-Dec 31, 2020

Anderson's Storage Tanks:

Private **TANK**

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal **TCFT**

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

Government Publication Date: 1970 - Apr 2023

Variations for Abandonment of Underground Storage Tanks:

Provincial **VAR**

Listing of variations granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variations 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-Dec 31, 2023

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

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

Government Publication Date: Mar 31 2023

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

Appendix E

FOI Documents



City of Hamilton
 71 Main Street West, 1st
 Floor HAMILTON ON
 L8P 4Y5

Access/Correction Request
Municipal Freedom of Information
and Protection of Privacy Act
Personal Health Information
Protection Act

Application Fee \$5.00 An application fee of \$5.00 must accompany all requests for information and/or correction requests. Please make cheque or money order payable to the City of Hamilton. Forward to the Manager, Records & Freedom of Information, Office of the City Clerk, 71 Main Street West, 1st Floor, Hamilton, Ontario L8P 4Y5

Section A. 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 Access/Correction to own personal health information	City of Hamilton Identify Department and/or Health Information Custodian (if known):
--	--

Section B. Requester's Information

Last Name		First Name	
Unit Number	Street Number	Street Name	PO Box
City/Town		Province	Postal Code
Telephone Number			
Home	Mobile	Business	ext
Email Address			

Section C. Description of Records of Correction Requested

Time period of the records: From (dd/mm/yyyy) To (dd/mm/yyyy)	Method of access Receive copy Examine original (on site only)
--	--

FOR INSTITUTION USE ONLY:		
Date Request Received (dd/mm/yyyy):	Request Number	Due Date (dd/mm/yyyy)

Personal information contained in this form is collected pursuant the *Municipal Freedom of Information and Protection of Privacy Act (s. 17.1)* and/or the *Personal Health Information Protection Act (s. 53)* and will be used for the purpose of responding to your request. Questions about this collection should be directed to the Manager, Records & Freedom of Information in the Office of the City Clerk at (905) 546-2424 ext. 2743.

Ministry of the Environment, Conservation and Parks

Freedom of Information Request for Property Information

Instructions

Use this form to:

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

Fields marked with an asterisk (*) are mandatory.

Are you: *

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

Section 1 – Description of Records Requested

Time Period for Records Requested

From (yyyy/mm/dd) *

1985/01/01

To (yyyy/mm/dd) *

2024/03/05

Type of Record(s) *

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

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

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

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

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

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

Other Specific Document(s)

Type of Approval/Registration *

- Drinking Water Licenses
- Pesticide Licenses

- Permits to Take Water
- Noise Vibrations Approvals/Registrations
- Air Emissions Approvals/Registrations
- Water Approvals/Registrations - Ontario Water Resources Commission, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster), mains
- Sewage – Treatment, Stormwater, Storm, Leachate & Lieachate Treatment & Sewage pump stations, Sanitary
- Waste Water - Industrial discharge
- Waste Sites - Disposal, Landfill sites, Transfer stations, Processing sites, Incinerator sites
 - No Supporting Documents
 - All Supporting Documents
 - Some Supporting Documents
- Waste Management Systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, Polychlorinated Biphenyls (PCBs) storage, transfer or destruction, Waste Generator Systems)
- Waste Generator Registration - number/class

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

n/a

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

n/a

Section 2 – Requester Information

Last Name *

Fleet

First Name *

Bailey

Middle Initial

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

Palmer

Project/Reference Number (if applicable)

2108704

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

Yes No

Mailing Address

Unit Number

1

Street Number *

871

Street Name *

Equestrian Court

PO Box

City/Town *

Oakville

Province *

ON

Postal Code *

L6L 6L7

Telephone Number *

905-708-7299

ext.

Email Address *

bailey.fleet@pecg.ca

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

Yes No

Section 3 – Current Property Address Information

Is the property a:

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

Please upload a map of the property in Section 5 (Supporting Documentation)

Please upload a map of the property in Section 6 (Supporting Documentation)

Are you requesting information about multiple addresses? *

Yes No

Property Address

Unit Number

Street Number

Street Name

46

Woodend Drive

Full Lot Number

Concession

Geographic Township

6

9

Carlisle

City/Town/Village *

Hamilton

Closest Intersection

Acredale Dr and Cullum Dr

Section 4 – Previous Property Address Information

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

Yes No

Section 5 – Owner Information

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

Current Property Owner/Tenant

46 Woodend Drive

Lot 6 Conc 9 Carlisle

Hamilton

Owner Name

The Regional Municipality of Hamilton-Wentworth

Date of Ownership (yyyy/mm/dd)

Tenant Name

Section 6 – Supporting Documents

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

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

1. File Name

Woodend.JPG

Total File Size

0.16 MB

Payment confirmation number: 28618963

Re: TSSA Record Search for Properties at Two Sites in Carlisle Hamilton

4 messages

Frank Liu <frank.liu@pecg.ca>

Fri, Jan 26, 2024 at 7:31 AM

To: "publicinformationsservices@tssa.org" <publicinformationsservices@tssa.org>

Dear Sirs or Madame of TSSA,

Could you please conduct a search for fuel storage tank records for the following properties in Carlisle Hamilton?

1. 1535 Centre Rd, Carlisle, Hamilton
2. 42-46 Woodend Drive, Carlisle, Hamilton

Thanks

Frank Liu
Hydrogeologist

| c (647) 972 0433 | e frank.Liu@pecg.ca

Learn More:

www.pecg.ca

Public Information Services <publicinformationsservices@tssa.org>

Fri, Jan 26, 2024 at 9:36 AM

To: Frank Liu <frank.liu@pecg.ca>

Hello ,

NO RECORDS FOUND IN CURRENT DATABASE:

- We confirm that there are NO **fuels records** in our database at the subject address(es).

[42-46 Woodend Drive, Carlisle, Hamilton](#). Please confirm if this is a address range or a unit number.

This is not a confirmation that there are no records in the archives. For a further search in our archives, please apply for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

Please follow the steps below to access the applications and the Service Prepayment Portal:

Accessing the applications

1. Click [Request a Public Record](#)
2. Select the appropriate application, download it, complete it in full and save it (you will have to upload application)
3. Proceed to page 3 of the application and click the "TSSA Service Prepayment Portal" link under payment options (the link will take you the secure site where you can pay for the request via credit card)

Accessing the Service Prepayment Portal

1. Select new or existing customer (*if you are an existing customer, you will need your account number & postal code to access your account)
2. Under "Program Area" select **Public Information** and click continue
3. Enter application form number (found on the bottom left corner of the application form - **PI-095-v2**) and click continue
4. Complete the primary contact information section
5. Complete the fee section
6. Upload your completed application
7. Upload supporting documents (if required) and click continue

Once all steps have been successfully completed you will receive your payment receipt via email.

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

If you have any questions or concerns, please do not hesitate to contact our Public Information Release team at publicinformationservices@tssa.org.

Kind regards,

Slavka Zahrebelny | Public Information Agent

Public Information

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1 416-734-3585 | Fax: +1 416-734-6242 | E-Mail: szahrebelny@tssa.org

www.tssa.org



Winner of 2023 5-Star Safety Cultures Award

From: Frank Liu

<frank.liu@pecg.ca>

Sent: Friday, January 26, 2024 7:32 AM

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

Subject: Re: TSSA Record Search for Properties at Two Sites in Carlisle Hamilton

Dear Sirs or Madame of TSSA,

[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.

Could you please conduct a search for fuel storage tank records for the following properties in Carlisle Hamilton?

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Thanks

Frank Liu
Hydrogeologist

| c (647) 972 0433 | e frank.Liu@pecg.ca

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Frank Liu <frank.liu@pecg.ca>
To: "publicinformationsservices@tssa.org" <publicinformationsservices@tssa.org>

Mon, Jan 29, 2024 at 10:15 AM

Hi **Slavka**,

Can you also search for this address [1535 Centre Rd, Carlisle, Hamilton?](#)

Thanks

Frank Liu
Hydrogeologist

| c (647) 972 0433 | e frank.Liu@pecg.ca

Learn More:

www.pecg.ca

On Fri, Jan 26, 2024 at 7:31 AM Frank Liu <frank.liu@pecg.ca> wrote:

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Thanks

Frank Liu
Hydrogeologist

| c (647) 972 0433 | e frank.Liu@pecg.ca

Learn More:

www.pecg.ca

Public Information Services <publicinformationservices@tssa.org>

Mon, Jan 29, 2024 at 10:26 AM

To: Frank Liu <frank.liu@pecg.ca>

Hello ,

NO RECORDS FOUND IN CURRENT DATABASE:

- We confirm that there are NO **elevating devices** records in our database at the subject address(es).
- We confirm that there are NO **boilers/pressure vessels** records in our database at the subject address(es).
- We confirm that there are NO **fuels records** in our database at the subject address(es).

This is not a confirmation that there are no records in the archives. For a further search in our archives, please apply for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

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If you have any questions or concerns, please do not hesitate to contact our Public Information Release team at publicinformationservices@tssa.org.

Kind regards,

Slavka Zahrebelny | Public Information Agent

Public Information



345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1 416-734-3585 | Fax: +1 416-734-6242 | E-Mail: szahrebelny@tssa.org

www.tssa.org



Winner of 2023 5-Star Safety Cultures Award

From: Frank Liu

<frank.liu@pecg.ca>

Sent: Monday, January 29, 2024 10:16 AM

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

Subject: Re: TSSA Record Search for Properties at Two Sites in Carlisle Hamilton

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