PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

10 ASPEN SPRINGS DRIVE
BOWMANVILLE, ONTARIO

WATTERS ENVIRONMENTAL GROUP INC.

CONFIDENTIAL

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

10 ASPEN SPRINGS DRIVE BOWMANVILLE, ONTARIO

Prepared for:

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1.0 EXECUTIVE SUMMARY

Watters Environmental Group Inc. (Watters Environmental) was retained by 2346120 Ontario Inc. (the "Client") to conduct a Phase One Environmental Site Assessment (ESA) of a property at 10 Aspen Springs Drive, located in the Town of Bowmanville, Ontario (hereafter the "Phase One Property" or the "Site").

For the purpose of this report, the portion of Aspen Springs Drive that is located adjacent to the Site is assumed to be aligned in an east-west direction (i.e., relative to "Project North"), although it is actually aligned in a northeast-southwest direction (i.e., relative to "True North"). Unless otherwise noted, descriptions provided in this report are relative to Project North.

The Ontario Ministry of the Environment, Parks and Conservation (MECP) requires that any change of property to more sensitive use requires a Record of Site Condition (RSC), as outlined in Ontario Regulation (O. Reg.) 153/04 [as amended] (i.e., Records of Site Condition – Part XV.1 of the Act, made under the Ontario Environmental Protection Act, R.S.O. 1990), as amended) [hereafter referred to as "O. Reg. 153/04"]. Although the planned development does not require a RSC from the MECP, Watters Environmental understands that the Regional Municipality of Durham requires that the current application for approval for residential use will require a Phase One ESA prepared in compliance with O. Reg. 153/04.

According to information provided by the Client to Watters Environmental, the legal description for the Phase One Property is summarized as follows:

- Part of Lot 15, Concession 1, Geographic Township of Darlington, Municipality of Clarington, Regional Municipality of Durham

The Property Identification Number (PIN) for the Phase One Property is summarized as follows:

- PIN 26934-1036 (LT); and
- PIN 26934-1560 (LT).

The purpose of the Phase One ESA was to provide the Client with an evaluation of known and potential environmental contaminant issues at the Phase One Property resulting from current and/or historical activities conducted at the Phase One Property and/or neighbouring properties (i.e., the Phase One Study Area) in accordance with the requirements of O. Reg. 153/04.

Based on the Phase One ESA completed, it is Watters Environmental's opinion that there are no potentially contaminating activities from historical or current operations on the Phase One Property or off-Site properties within the Phase One Study Area that would result in areas of potential environmental concern on the Phase One Property. As such, Watters Environmental is of the opinion that a Phase Two ESA is not required for the planned redevelopment.

2.0 INTRODUCTION

2.1 Phase One Property Information

Watters Environmental Group Inc. (Watters Environmental) was retained by 2346120 Ontario Inc. (the "Client") to conduct a Phase One Environmental Site Assessment (ESA) of a property at 10 Aspen Springs Drive, located in the Town of Bowmanville, Ontario (hereafter the "Phase One Property" or the "Site"; see Figure 1, Photograph 1).

For the purpose of this report, the portion of Aspen Springs Drive that is located adjacent to the Site is assumed to be aligned in an east-west direction (i.e., relative to "Project North"), although it is actually aligned in a northeast-southwest direction (i.e., relative to "True North"). Unless otherwise noted, descriptions provided in this report are relative to Project North.

The Phase One Property is located on the northwestern corner of the intersection of Aspen Springs Drive and Bowmanville Avenue, in an area of mixed residential, commercial, and parkland uses (see Figure 2).

The Phase One Property consists of an irregularly-shaped parcel of land that was used for agricultural purposes between at least 1927 and 1981. The Phase One Property is currently vacant and undeveloped. Photographs of the Site are provided in Appendix A.

The Ontario Ministry of the Environment, Parks and Conservation (MECP) requires that any change of property to more sensitive use requires a Record of Site Condition (RSC), as outlined in Ontario Regulation (O. Reg.) 153/04 [as amended] (i.e., Records of Site Condition – Part XV.1 of the Act, made under the Ontario Environmental Protection Act, R.S.O. 1990), as amended) [hereafter referred to as "O. Reg. 153/04"]. Watters Environmental understands that the Regional Municipality of Durham requires that the current application for approval for residential use will require a Phase One ESA prepared in compliance with O. Reg. 153/04. although the MECP would not require an RSC for this development.

A Plan of Survey for the Phase One Property is provided in Appendix B.

Table 1 below provides information regarding the Phase One Property.

Table 1: Phase One Property Information

Municipal Address:	10 Aspen Springs Drive, Bowmanville, Ontario
Legal Description:	Part of Lot 15, Concession 1, Geographic Township of Darlington, Municipality of Clarington, Regional Municipality of Durham
Property Identification Number (PIN):	PIN 26934-1036 (LT) PIN 26934-1560 (LT)
Geo-referencing Coordinates for the Approximate Centre of the Phase One Property:	Latitude/Longitude: 43°54'26.70"- 78°42'4.22" UTM Coordinates: 17 T 684594.23m E 4864157.99m N
Approximately Area of the Phase One Property:	0.97 hectares (2.4 acres)

Watters Environmental was retained by 2346120 Ontario Inc. to conduct the Phase One ESA. At the time of the Phase One ESA, the contact information for the project sponsor is as follows:

Mr. Ken Michaud
515 Consumers Road, Suite 701
Toronto, Ontario
M2J 4Z2
kenmichaud0@gmail.com

3.0 SCOPE OF INVESTIGATION

As noted, Watters Environmental understands that the Client is planning to redevelop the Phase One Property for residential purposes and that the Regional Municipality of Durham will require a Phase One ESA conducted in accordance with Ontario Regulation (O. Reg.) 153/04, although the MECP would not require a RSC for this development.

The purpose of the Phase One ESA was to provide the Client with an evaluation of known and/or potential environmental contaminant issues at the Phase One Property resulting from current and/or historical activities conducted at the Phase One Property and/or neighbouring properties in accordance with the requirements of O. Reg. 153/04.

Watters Environmental's scope of work for the Phase One ESA specifically involved the following:

- Reviewing previous reports;
- Reviewing available records pertaining to the current and past uses of the Phase One Property and surrounding properties wholly or partly located within 250 metres from the boundaries of the Phase One Property (the "Phase One Study Area"), as well as any properties outside 250 metres, if determined to be part of the Phase One Study Area;
- Interviewing available persons knowledgeable about the current and/or past activities at the Phase One Property;
- Reviewing a chain-of-title search completed for the Phase One Property;
- Conducting a walk-through visual reconnaissance of the Phase One Property and making observations of activities on properties within the Phase One Study Area from publicly accessible locations;
- Completing an evaluation of the information gathered from the records review, interviews and reconnaissance of the Phase One Property and Phase One Study Area;
- Preparing a report summarizing Watters Environmental's findings and recommendations; and
- Submitting the Phase One ESA report to the owner of the Phase One Property.

Watters Environmental's findings from a review of available records are provided in Section 4.0. A summary of interview findings is presented in Section 5.0. Findings from the reconnaissance of the Phase One Property and Phase One Study Area appear in Section 6.0. Watters Environmental's review and evaluation of the information gathered during the Phase One ESA is presented in Section 7.0. The conclusions of the Phase One ESA are provided in Section 8.0. A list of references and other sources of information for the Phase One ESA report is provided in Section 9.0. The qualifications and limitations of the Phase One ESA are provided in Section 10.0.

Figures illustrating the Phase One Property characteristics and environmental issues discussed in the report are provided in the figure section of the report.

4.0 RECORDS REVIEW

4.1 General

4.1.1 Phase One ESA Study Area Determination

In accordance with O. Reg. 153/04, Watters Environmental considered the Phase One Study Area to include the Phase One Property and any property that is located wholly or partly within 250 metres from the boundaries of the Phase One Property.

The Phase One Property is situated at an elevation of approximately 126 metres above sea level (masl) with a slight slope to the west. The surrounding properties are at a relatively similar grade with the Phase One Property.

Watters Environmental infers that the near-surface groundwater at the Phase One Property flows to the southwest, following the local topographic gradient towards Westside Creek, located approximately 630 metres southwest of the Phase One Property. As such, the properties surrounding the Phase One Property to the northeast are inferred to be hydraulically upgradient and the properties to the southwest are inferred to be downgradient.

No specific environmental issues of concern were identified on properties beyond 250 metres to the northeast of the Phase One Property (i.e., in the inferred upgradient direction). Therefore, it was Watters Environmental's opinion that properties located further than 250 metres from the nearest point on a boundary of the Phase One Property should not be included in the Phase One Study Area.

4.1.2 First Developed Use Determination

The first developed use of the Phase One Property is considered under O.Reg. 153/04 (as amended) to be either the first use of the Phase One Property in or after 1875 that resulted in the development of a building or structure on the property, or the first potentially contaminating use or activity on the Phase One Property.

The determination of the first developed use of the Phase One Property was based on a review of a chain-of-title, available aerial photographs, historical maps, fire insurance plans, city directories, and interviews. Based on the information obtained, the Phase One Property has always been used for agricultural or vacant land purposes.

4.1.3 Fire Insurance Plans

Watters Environmental contacted Opta Information Intelligence (Opta) in Markham, Ontario to request Fire Insurance Plans (FIPs) available from their database showing the Phase One Study Area, and Opta responded indicating that no FIPs were available.

4.1.4 Chain-of-Title Review

Watters Environmental was provided a chain-of-title from the Client to determine historical ownership of the Phase One Property [PIN 26934-1036 (LT) and PIN 26934-1560 (LT)]. The information from the chain of title search is summarized in the table below.

Table 2: Chain of Title Review

Date	Listing Type	Description/Details	Potentially Contaminating Activity (PCA) ID No
October 10, 1991	Notice Agreement	The Corporation of the Town of Newcastle	None
October 8, 1996	Notice Agreement	The Corporation of the Municipality of Clarington	None
November 16, 2012	Transfer	Martin Road Holdings Limited	None
November 16, 2012	Transfer	2346120 Ontario Inc.	None
February 3, 2014	Lease	TDL Group Corp.	None

4.1.5 Environmental Reports

The following previous environmental reports were previously prepared for the Site:

- "*Phase II Environmental Site Assessment, 10 Aspen Springs Drive, Bowmanville, Ontario*", prepared by Genivar Inc. for 2346120 Ontario Inc., dated December 2013 (the "2013 Genivar Phase II Report");
- "*Phase I Environmental Site Assessment, 10 Aspen Springs Drive, Bowmanville, Ontario*", prepared by WSP Canada Inc. (WSP) for 2346120 Ontario Inc., dated May 2014 (the "2014 WSP Phase I Report"); and

- "*Geotechnical Investigation, Proposed Commercial Development, 10 Aspen Springs Drive, Bowmanville, Ontario*", prepared by WSP for 2391546 Ontario Inc., dated June 2014 (the "2014 WSP Geotechnical Investigation").

A brief summary of each of the above-listed reports is provided below:

2013 Genivar Phase II ESA Report

Based on a review of this report, Watters Environmental notes the following:

- The Phase II ESA Sampling and Analysis Plan (SAP) was prepared based on the findings of a 2007 Phase I ESA conducted on the Site by Terrapex [*not available for review by Watters Environmental*]. The Phase I ESA identified the importation of fill material of unknown quality on the Site*;*

- The Phase II ESA reportedly consisted of the advancement of a total of 6 boreholes on December 5, 2022 to a maximum explored depth of 9.6 metres below ground surface (mbgs). One of the 6 boreholes was completed as a monitoring well;

- The general stratigraphy of the Site consisted of 0.2- to 0.3-metre thick sandy fill material in 3 of the boreholes advanced, and surficial topsoil in the remaining boreholes advanced. Underlying the fill material and topsoil was a native deposit of silt sand with layers of gravelly sand. Sand was encountered to borehole termination depth;

- A total of 6 soil samples were submitted for chemical analyses. Four samples were submitted for metals, 3 samples for volatile organic compounds (VOCs) and 3 samples for petroleum hydrocarbons (PHCs) and benzene, toluene, ethylbenzene, and xylenes (BTEX);

- One groundwater sample was collected for analysis of metals, PHCs, VOCs, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs);

- Genivar compared the soil and groundwater samples to the Ministry of the Environment and Climate Change [now the Ministry of the Environment, Conservation and Parks (MECP)] Table 2 Full Depth Generic Site Condition Standards (SCS) for industrial/commercial/community (ICC) use in a potable groundwater condition with coarse-grained soils;

- No exceedances were identified in the submitted soil or groundwater samples for ICC use [*Watters Environmental compared the soil and groundwater samples to the proposed residential/parkland/institutional land use and found no excceedances*]; and

- Genivar concluded that "*…the Site meets applicable MOE 2011 SCSs for soil and groundwater at the Site*".

2014 WSP Phase I ESA Report

Based on a review of this report, Watters Environmental notes the following:

- WSP conducted the Phase I ESA to identify issues of potential environmental concern associated with the Site;

- The Site was never developed and was historically used for agricultural purposes;

- The neighbouring properties were mainly residential, and commercial;

- No gasoline service stations, fuel tanks, automotive repair facilities, or other similar potentially significant uses ever existed on the Site;

- No significant off-Site issues of potential environmental concern were identified; and

- No further environmental investigation was recommended.

2014 WSP Geotechnical Investigation

Based on a review of this report, Watters Environmental noted the following:

- The investigation consisted of the advancement of a total of six boreholes in December 2012 to maximum explored depths between 6.6 mbgs and 9.6 mbgs. One of the boreholes (BH12-1) was completed as a monitoring well;

- The stratigraphy of the Site generally consisted of gravelly sand underlain by silty sand, clayey silt and silty sand till, with a minor layer of sand encountered in BH12-4 at a depth of 1.4 mbgs; and

- Groundwater was measured at a depth of 0.72 mbgs.

4.1.6 Street Directories

Street directories available from the Library and Archives Canada, in Ottawa, Ontario were reviewed for the years 1960, 1966, 1971/1972, 1977/1978, 1985, 1990, 1995, and 2000 for the following addresses (i.e., located within a 250-metre radius of the Site):

- 1-20 Aspen Springs Drive;
- 80-130 Bonnycastle Drive;
- 1525-1755 Bowmanville Avenue;
- 61-75 Clarington Boulevard;
- Fry Crescent (all addresses);
- Glen Ray Court (all addresses);
- Hartwell Avenue (all addresses);
- 20-55 McCrimmon Crescent;
- 20-120 Trewin Lane; and
- 55-85 Vail Meadows Crescent.

According to the historical street directories reviewed, the Phase One Property was not listed in the directories.

The following information was noted with respect to properties within the Phase One Study Area:

Table 3: Historical Street Directories –Phase One Study Area

From	To	Address	Occupants	Approximate Distance and Direction from the Phase One Property	PCA ID No
2000	2000	99 Bonnycastle Drive	Bickle Property Maintenance and Landscaping	Located approximately 200 metres southwest of the Site in an inferred downgradient direction.	No PCA

Table 3: Historical Street Directories –Phase One Study Area (Continued)

From	To	Address	Occupants	Approximate Distance and Direction from the Phase One Property	PCA ID No
1995	1995	69 Trewin Lane	Liza Homes	Located approximately 200 metres southeast of the Site in an inferred trans/downgradient direction.	No PCA

No other information was noted with respect to occupants located within the Phase One Study Area that may represent a source of potential environmental contamination of the Phase One Property, based on the type and size of operations, distance, transgradient/downgradient orientation and/or direction of these properties relative to the Phase One Property.

4.2 Environmental Source Information

Watters Environmental contacted EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS), the Technical Standards & Safety Authority (TSSA), and the MECP Freedom of Information Office for regulatory information pertinent to the Phase One Property. The EcoLog ERIS report is provided in Appendix C. Correspondence from the regulatory agencies is provided in Appendix D. A summary of findings is provided below.

4.2.1 EcoLog Environmental Risk Information Services Ltd. Report

A regulatory database review was completed by EcoLog ERIS, an environmental database and information service company. The EcoLog ERIS Report provides information from 69 databases including listings for the National Pollution Release Inventory (NPRI), Inventory of PCB Storage Sites, Certificates-of-Approval, Permits-to-Take-Water (PTTW), Certificates of Property Use (CPU), inventory of coal gasification plants, records of environmental incidents, offices, spills and discharges, waste management records, retail storage tanks maintained by the TSSA, RSCs, and landfills. Exact locations of water wells are not known due to uncertainty of UTM coordinates. The EcoLog ERIS report, including a detailed description of the databases reviewed, is presented in Appendix C.

According to the information provided in the EcoLog ERIS report, the following information was listed for the Phase One Property:

Table 4: EcoLog ERIS - Phase One Property Summary

Property Name and Address	Database	Listing	PCA ID No.
10 Aspen Springs Drive	ERIS Historical Search	A complete report was ordered on May 25, 2007, and a standard report was ordered on April 16, 2014.	No PCA
2346120 Ontario Inc. 10 Aspen Springs Drive	Environmental Compliance Approval	Listed for the approval of municipal and private sewage works on August 28, 2016.	No PCA
10 Aspen Springs Drive	Water Well Information System	Listed for one monitoring well (#7193859) installed on December 19, 2012 (WSP BH12-1)	No PCA

According to the information provided in the EcoLog ERIS report, the following information was listed for the Phase One Study Area:

Table 5: EcoLog ERIS - Phase One Study Area Summary

Property Name and Address	Location Relative to the Phase One Property	Database	Listing	PCA ID No.
Apple Tree Dentistry 1550 Bowmanville Avenue, Unit 7	Located approximately 155 metres southwest of the Site in an inferred downgradient direction.	Ontario Regulation 347 Waste Generators Summary	Registered from July 2020 to November 2021 as a generator of pathological wastes.	No PCA
Aspen Springs Animal Hospital 1550 Bowmanville Avenue, Unit 9		Ontario Regulation 347 Waste Generators Summary	Registered from 2010 to November 2021 as a generator of pathological wastes.	No PCA

In addition to the information provided above, the EcoLog ERIS report identified multiple additional listings in the databases; however, Watters Environmental notes that, based on the nature of the listing and/or type of operations and/or distances and/or directions from the Phase One Property relative to the inferred direction of groundwater flow, none of these listings were identified as being PCAs that would be considered Areas of Potential Environmental Concern (APECs) to the Phase One Property.

There were a number of listings in the EcoLog ERIS report that were "unplottable". These records could not be mapped due to various reasons, including limited geographic information, and may or may not have been present within the search radius and were included in the EcoLog ERIS report only for reference. Unless there was information within a specific listing that could be used to infer its location, the "unplottable" listings were not considered to be relevant to the Phase One Property due to the uncertainty.

4.2.2 Technical Standards & Safety Authority

Watters Environmental requested the TSSA to complete a property-based environmental information search for the Phase One Property. The TSSA reported to Watters Environmental on March 7, 2022, that there are no records of retail facilities or fuel storage tanks licensed or registered to the Phase One Property.

4.2.3 Ministry of the Environment, Conservation and Parks

A request was submitted to the MECP's FOIPP office on March 7, 2022. A formal response regarding whether there is information on file had not yet been received at the time that this report was produced. In the unlikely event that information received after the completion of the report alters the findings of this report, an addendum will be issued to highlight this information and the implications to the conclusions and recommendations.

4.2.4 Property Underwriters' Report and Plans

Watters Environmental contacted Opta for information relating to Property Underwriters' Reports and Property Underwriters' Plans prepared for the Site. Opta responded indicating that no plans were available.

4.2.5 Ontario Ministry of Natural Resources

The EcoLog ERIS report provided information and a map on Areas of Natural and Scientific Interest (ANSIs) that may be located within the Phase One Study Area. The source of this information was the Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF). The report indicated that there are no ANSIs present within the Phase One Study Area.

4.3 Physical Setting Sources

4.3.1 Aerial Photographs and Satellite Images

Watters Environmental completed a review of historical aerial photographs and satellite images showing the Phase One Study Area. The aerial photographs were obtained from the Municipality of Clarington Interactive Map. Where available, Watters Environmental selected for review at least one aerial photograph per decade, until a time prior to the first developed use of the Site. Where possible, aerial photographs with smaller scales were selected for review. These aerial photographs were as follows:

- Durham County Atlas, obtained from McGill University for the year 1878;
- Aerial photographs, obtained from the National Air Photo Library, in Ottawa, Ontario, for the years 1927 (scale unknown), 1966 (scale unknown), 1981 (scale unknown) and 1992 (1:25,000);
- Aerial photographs, obtained from the Municipality of Clarington Archive for 1954 (scale unknown); and
- Satellite images, obtained from Google Earth (www.earth.google.com), for the years 2005, 2015 and 2021.

According to the historical aerial photographs and satellite images reviewed, the following information was noted with respect to the Phase One Property.

Table 6: Aerial Photograph/Satellite Image – Phase One Property Summary

Date of Photograph / Satellite Image	Approximate Scale of Photograph / Satellite Image	Comments
1878	Unknown	The Phase One Property appears to be part of a larger agricultural parcel of land. No structures were visible on the Site.
1927	Unknown	The Phase One Property appears to be part of a larger agricultural parcel of land. No structures were visible on the Site.
1954	Unknown	The Property appeared similar to that observed in the 1927 aerial photograph.
1966	Unknown	The Property appeared similar to that observed in the 1954 aerial photograph.
1981	Unknown	The Property appeared similar to that observed in the 1966 aerial photograph.
2005	Unknown	The Property appeared to be vacant and no longer used for agricultural purposes. Several piles of fill material appear to be located along the western portion of the Site.
2015	Unknown	A gravel surface appeared to be present within the eastern and central portions of the Site. The fill piles were visible along the western portion of the Site. No structures were visible.
2021	Unknown	The Site appeared similar to that observed in the 2015 satellite image.

According to the historical aerial photographs and satellite images reviewed, the following was noted with respect to the properties located within the Phase One ESA study area:

Table 7: Aerial Photograph/Satellite Image – Phase One Study Area Summary

Date of Photograph/ Satellite Image	Approximate Scale of Photograph / Satellite Image	Comments
1878	Unknown	The properties surrounding the Site appeared to be agricultural lands. Bowmanville Avenue was visible immediately east of the Site. No orchards were depicted in the county atlas.
1927	Unknown	The properties surrounding the Site appeared to be agricultural lands. A railway was visible to the north, and Bowmanville Avenue was visible immediately east of the Site.
1954	Unknown	The surrounding properties appeared to be generally similar to those observed in the 1927 aerial photograph.
1966	Unknown	Several residential buildings were visible east of the Site (across Bowmanville Avenue) and to the south of the Site.
1981	Unknown	Several residential streets appeared to be developed to the east of the Site.
2005	Unknown	Aspen Springs Drive was visible immediately south of the Site. A residential subdivision was observed south of Aspen Springs Drive. A commercial building was under construction south of the Site along Bowmanville Avenue. Properties to the west of the Site appeared to be undergoing land grading for residential development.
2015	Unknown	The commercial building to the south appeared to be completed.
2021	Unknown	Two residential mid-rise buildings were observed west of the Site along Aspen Springs Drive. A residential property to the southeast (across Bowmanville Road) appeared to be demolished. Land grading was visible across the property.

4.3.2 Topography, Hydrology, Geology, Physiography

Watters Environmental conducted a review of the following topographic, geological, and physiographic maps showing the Phase One Study Area:

- A topographic map available online from Natural Resources Canada (NRC) – National Topographic System (http://atlas.nrcan.gc.ca) (see Figure 3);
- Ministry of Northern Development and Mines (MNDM), Surficial Geology on Google Earth Database, 2010;
- MNDM, Bedrock Geology on Google Earth Database, 2011; and
- MECP Water Well Records website (http://www.ontario.ca/environment-and-energy/well-records).

Similar maps, including an Ontario Base Map, were provided in the EcoLog ERIS report.

Based on a review of the topographic maps, Watters Environmental understands that the Phase One Property is located in an area of Bowmanville that slopes towards the southeast and is situated at an elevation of approximately 126 metres above sea level (masl). The surrounding properties are generally at the same elevation as the Phase One Property.

Based on the general topography of the Phase One Property, the near-surface groundwater at the Phase One Property flows to the southwest, following the local topographic gradient towards Westside Creek, located approximately 630 metres southwest of the Phase One Property.

Surficial geology in the vicinity of the Site is expected to be comprised of stone-poor sandy silt to silty sand textured till on Paleozoic terrain (Ontario Ministry of Northern Development and Mines Quaternary Geology Google Earth Database, 2010). Bedrock in the vicinity of the Site is expected to be shale of the Lindsay Formation (Ontario Ministry of Northern Development and Mines Bedrock Geology Google Earth Database, 2011). A review of the MECP well records within the Phase One Study Area indicate that bedrock is anticipated at a depth of approximately 48 mbgs.

4.3.3 Fill Materials

Fill material approximately 0.2 to 0.3 metres in thickness was identified in 3 of the 6 boreholes advanced during the 2013 Genivar Phase II ESA. The fill material reportedly consisted of gravelly sand with inclusions of silt. No exceedances were identified in the submitted soil samples, and Genivar concluded that the Site meets the applicable MECP Table 2 ICC SCSs for soil at the Site [*Watters Environmental compared the Genivar data to the MECP Table 2 Residential SCSs, and found that the results are acceptable to these standards*].

4.3.4 Water Bodies and Areas of Natural Significance

Westside Creek is located approximately 630 metres southwest of the Phase One Property. Bowmanville Creek is located approximately 970 metres southeast of the Phase One Property. The groundwater flow directions are subject to confirmation though subsurface investigations.

Section 1(1)2 of O. Reg. 153/04 defines Areas of Natural Significance as "*An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources as having provincial significance*".

As noted in Section 4.2.6, the EcoLog ERIS report (see Appendix C) provides a map of ANSIs within 2 kilometres of the Phase One Property. No ANSIs were identified within or near the Phase One Study Area.

In Section 1(1)4 of O. Reg. 153/04, Areas of Natural Significance are also defined as "*An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant*".

Watters Environmental also reviewed the Municipality of Clarington Interactive Map, Central Lake Ontario Conservation Authority (CLOCA) and the Official Plan Map D (Natural Heritage System) for information on environmentally sensitive areas designated by the Municipality and CLOCA that may be located on the Phase One Property or within the Phase One Study Area. Watters Environmental notes that the maps reviewed did not identify any environmentally sensitive areas on the Phase One Property or within the Phase One Study Area.

The Phase One Property and Phase One Study Area are not located in an area designated by the Municipality of Clarington as a well-head protection area.

4.3.5 Well Records

According to the database information provided in the EcoLog ERIS report, 19 well records were available within the Phase One Study Area and 1 well record was identified on the Phase One Property.

A search was also conducted of the MECP Water Well Records website (http://www.ontario.ca/environment-and-energy/well-records). There were several active records of potable water supply wells within the Phase One Study Area.

4.4 Site Operating Records

Watters Environmental was not provided with any Site operating records from the Site representative. Based on the available records reviewed (i.e., aerial photographs), the Phase One Property has never been developed and is currently vacant.

4.4.1 Regulatory Permits and Records

No regulatory permits or records were available for review for the Phase One Property.

4.4.2 Safety Data Sheets

No safety data sheets were available for review.

4.4.3 Underground Utility Drawings

The Phase One Property is vacant and undeveloped. Watters Environmental does not anticipate underground utilities would be present on the Phase One Property.

4.4.4 Chemical Inventories

Watters Environmental is not aware of any chemical inventories associated with current or former operations on the Phase One Property. The Phase One Property is vacant and undeveloped. Watters Environmental does not anticipate chemicals would have been present on the Phase One Property.

4.4.5 Inventory of Storage Tanks

Watters Environmental was not provided with any inventory of storage tanks for review.

4.4.6 Environmental Monitoring Data

Watters Environmental was not provided with any environmental monitoring data for review.

4.4.7 Waste Management Records

Watters Environmental was not provided with any waste management records for review.

4.4.8 Process, Production and Maintenance Documents

Watters Environmental was not provided with any process, production, or maintenance document records for review.

4.4.9 Spill Records

Watters Environmental was not provided with any spill records for review.

4.4.10 Emergency Response Plans

Watters Environmental was not provided with any emergency response plans for review.

4.4.11 Environmental Audit Reports

Watters Environmental was not provided with any environmental audit reports for review.

4.4.12 Phase One Property Plans

Watters Environmental was provided with a 2014 survey plan, which indicated key features of the Phase One Property (e.g., property boundaries). Watters Environmental did not identify any PCAs or APECs on the survey plan.

5.0 INTERVIEWS

Mr. Tom Alston, B.A., C.Tech of Watters Environmental visited the Phase One Property on February 28, 2022 to conduct a reconnaissance of the Phase One Property to evaluate potential on-Site environmental issues and to identify whether any surrounding property uses could impact the environmental condition of the Phase One Property.

Following the Site reconnaissance, Mr. Tanner Leonhardt, B.Eng., interviewed Mr, Ken Michaud (current owner of the Site, with approximately 2 years of experience with the Site). Mr. Michaud is hereafter referred to in this report as the "Site representative".

6.0 SITE RECONNAISSANCE

6.1 General Requirements

Mr. Alston of Watters Environmental visited the Phase One Property on February 28, 2022 to conduct a reconnaissance of the Phase One Property and properties surrounding the Phase One Property (i.e., within the Phase One Study Area) to evaluate potential on-Site issues and to identify whether any surrounding land uses could impact the environmental condition of the Phase One Property. The Site reconnaissance commenced at approximately 9:00 am and terminated at approximately 10:00 am.

Mr. Alston B.A., C.Tech is an Environmental Site Assessor and Mr. Leonhardt, B.Eng., is a Project Manager with 20 and 4 years of environmental consulting experience, respectively. They were supervised by Mr. Robert Watters, Ph.D., P.Geo., who has been an environmental consultant for over 33 years and is a Qualified Person for Environmental Site Assessments (QP_{ESA}). Qualifications are provided in Appendix E.

During the Site reconnaissance, representative photographs of the Phase One Property were collected, and potential environmental contaminant issues located at the Phase One Property. Where referenced, the representative photographs and their detailed descriptions have been provided in the photograph section of this report.

Physical Impediments

Watters Environmental was able to access all portions of the Phase One Property during the Site reconnaissance.

6.2 Specific Observations at Phase One Property

6.2.1 General Description of Structures

No structures are present on the Phase One Property.

6.2.2 Below Grade Structures

No below ground structures are present on the Phase One Property.

6.2.3 Above and Underground Storage Tanks

Aboveground Storage Tanks

The Site representative advised Watters Environmental that there are no ASTs at the Site. Watters Environmental did not observe the presence of any ASTs at the Site.

Underground Storage Tanks

The Site representative advised Watters Environmental that there are no USTs at the Site. Watters Environmental did not observe any fill or vent pipes, depressions or asphalt cuts that would suggest the presence of any USTs on the Site.

Portions of the ground surface of the Site were covered with snow and/or ice at the time of the Site reconnaissance, which prevented observations of the exterior surface areas.

6.2.4 Potable and Non-Potable Water Sources

The Phase One Property is vacant and undeveloped and therefore Watters Environmental does not anticipate potable or non-potable water sources to be present on the Site.

6.2.5 Utilities and Mechanical Systems

The Phase One Property is vacant and undeveloped and therefore Watters Environmental does not anticipate any utilities or mechanical systems on the Site.

6.2.6 Phase One Property Buildings Observations

The Phase One Property is vacant and undeveloped. No structures are present on the Phase One Property.

6.2.7 Chemical Storage and Handling

Watters Environmental did not observe any liquid chemicals at the Site.

6.2.8 Current and Former Wells

As noted in Section 4.3.5 above, Watters Environmental obtained database information provided in the EcoLog ERIS report and conducted a search of the MECP Well Records database to determine the presence of current and former wells on the Phase One Property or Phase One Study Area. There were several records for potable water supply wells within the Phase One Study Area. One monitoring well installed as part of the 2014 WSP Geotechnical Investigation was observed during the Site reconnaissance.

6.2.9 Sewage Works

The Phase One Property is vacant and undeveloped and therefore Watters Environmental does not anticipate sewage works on the Site.

6.2.10 Ground Surface

Based on observations made by Watters Environmental, the Phase One Property consists of a mixture of grassed and gravel surfaces. Portions of the ground surface of the Site were covered with snow and/or ice at the time of the Site reconnaissance, which prevented observations of the exterior surface areas.

6.2.11 Railway Lines

No railway lines are located on or adjacent to the Phase One Property.

6.2.12 Spills and Releases (Areas of Stained Soil, Vegetation or Pavement)

Watters Environmental did not observe any spills or releases at the Site. Portions of the ground surface of the Site were covered with snow and/or ice at the time of the Site reconnaissance, which prevented observations of the exterior surface areas.

6.2.13 Stressed Vegetation

Watters Environmental did not observe evidence of stressed vegetation, which would indicate the occurrence of a major environmental event that may have significantly impacted the environmental quality of the subsurface at the Phase One Property.

6.2.14 Fill and Debris Materials

Several piles of fill material were noted on the central and western portions of the Site. As noted in Section 4.3.3, fill material approximately 0.2 to 0.3 metres in thickness was identified in 3 of the 6 boreholes advanced during the 2013 Genivar Phase II ESA. The fill material reportedly consisted of gravelly sand with inclusions of silt. No exceedances were identified in the submitted soil samples Genivar concluded that the Site meets applicable MECP Table 2 ICC SCSs for soil at the Site [*Watters Environmental compared the soil and groundwater samples to the proposed residential/parkland/institutional land use and found no excceedances*];

6.2.15 Unidentified Substances

Watters Environmental did not observe any unidentified substances at the Phase One Property.

6.2.16 Building-Related Environmental Issues

Asbestos

The Phase One Property is vacant and undeveloped, and thus asbestos-containing materials are not expected.

Polychlorinated Biphenyl (PCB)-Containing Equipment

The Phase One Property is vacant and undeveloped, and thus PCBs are not expected.

Lead in Paints

The Phase One Property is vacant and undeveloped, and thus lead is not expected.

Urea Formaldehyde Foam Insulation (UFFI)

The Phase One Property is vacant and undeveloped, and thus UFFI is expected.

Ozone-Depleting Substances (ODS)

The Phase One Property is vacant and undeveloped, and thus ODS are not expected.

Radon

According to a document entitled, "*Guide for Radon Measurements in Residential Dwellings (Homes)*", prepared by Health Canada and dated 2008, Health Canada has recommended that the average annual concentration of radon in a home should not exceed 200 Becquerels per cubic metre (Bq/m^3). It is difficult to determine with any degree of certainty the radon levels in a home or other building without testing. However, radon testing is not a regulatory requirement.

Pesticides

Watters Environmental did not observe the storage of pesticides at the Phase One Property.

Mould

The Phase One Property is vacant and undeveloped, and thus mould is not expected.

6.2.17 Enhanced Investigation Property

The Phase One Property is not considered to be an enhanced investigation property, as defined in Ontario Regulation 153/04, for the following reasons:

- The Phase One Property is vacant and undeveloped.

6.2.18 Observations of the Phase One Study Area

Watters Environmental reviewed the current land uses of properties within the Phase One Study Area from publicly accessible locations to assess potential environmental contaminant impacts to the Phase One Property that may arise from off-Site operations. Properties within the Phase One Study Area are summarized as follows (see Figure 2):

North of the Phase One Property (Inferred to be upgradient/transgradient)

Adjacent to the north of the Phase One Property is vacant, undeveloped land followed by a railway. There are no water bodies or areas of natural significance in the immediate vicinity north of the Phase One Property.

East of the Phase One Property (Inferred to be transgradient/downgradient)

Adjacent to the east of the Phase One Property is Bowmanville Avenue, followed by multiple residential buildings. There are no water bodies or areas of natural significance in the immediate vicinity east of the Phase One Property.

South of the Site (Inferred to be transgradient/downgradient)

Adjacent to the south of the Phase One Property is Aspen Springs Drive, followed by multiple residential buildings located along Bonnycastle Drive, Glen Ray Court and Fry Crescent. A multi-tenant commercial building is located south of the Site at 1550 Bowmanville Avenue. There are no water bodies or areas of natural significance in the immediate vicinity south of the Phase One Property.

West of the Site (Inferred to be transgradient/upgradient)

Adjacent to the west of the Phase One Property is vacant, undeveloped land followed by a multi-tenant residential building. There are no water bodies or areas of natural significance in the immediate vicinity west of the Phase One Property.

6.3 Written Description of Investigation

Watters Environmental conducted a Site visit of the Phase One Property on February 28, 2022 to conduct walk-through reconnaissance of the Phase One Property and properties surrounding the Phase One Property to evaluate potential on-Site issues and to identify whether any surrounding land uses could impact the environmental condition of the Phase One Property. Interviews were performed with the aforementioned Site representative during the Site reconnaissance. In addition, historical documents were obtained, where available, to determine the historical use of the Phase One Property and properties within the Phase One Study area. Regulatory databases were reviewed to determine if there were any possible concerns on the Phase One Property or Phase One Study Area.

Based on a review of available records, the Phase One Property was used for agricultural purposes prior to 1927 up to at least 1981. The Phase One Property has been vacant since at least 2005.

The Site representative indicated that pesticides are not used on the Phase One Property. Watters Environmental did not observe the storage of pesticides at the Phase One Property. There was no actual evidence that the former agricultural activities utilized pesticides. There was no evidence that orchards were present on the Phase One Property. If the former property owners did in fact use pesticides on its crops, it would be reasonable to expect that they would have applied them as per supplier's instructions, given the cost to purchase them. Therefore, even if some pesticides were historically used, it would be reasonable to expect that they would have degraded to residual or non-detectable concentrations by this time. Even for more persistent pesticides that have a longer half-life, such as 10 years, they would have reached at least its 4th or 5th half-life by this point and the current concentrations would be at 6% to 3% of their original concentrations (or

less). Therefore, it was the opinion of the QP_{ESA} that PCA#40 in O. Reg. 153/04 was not considered a PCA for the Phase One Property.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses

In accordance with O. Reg. 153/04, a table of current and past uses of the Phase One Property is required.

Watters Environmental was provided with a chain-of-title search from Mr. Ken Michaud to determine historical ownership of the Phase One Property. One chain-of-title search was provided for the legal description and PINs as follows:

- Part of Lot 15, Concession 1, Geographic Township of Darlington, Municipality of Clarington, Regional Municipality of Durham;
- 26934-1036 (LT); and
- 26934-1560 (LT).

Based on the data collected from the Phase One Property, interviews and historical records review, the current and historical property uses are summarized in the table below.

Table 8: Current and Historical Property Uses of the Phase One Property

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
1991	The Corporation of the Town of Newcastle	Undeveloped land.	Agricultural or other use.	From Chain-of-Title. No street directories or FIPs available.
1996	The Corporation of the Municipality of Clarington	Undeveloped land.	Agricultural or other use.	From Chain-of-Title. No street directories or FIPs available.
2012	Martin Road Holdings Limited	Undeveloped land.	Agricultural or other use.	From Chain-of-Title. No street directories or FIPs available.
2012	2346120 Ontario Inc.	Undeveloped land.	Agricultural or other use.	From Chain-of-Title. No street directories or FIPs available.

7.2 Potentially Contaminating Activities

No PCAs were identified on the Phase One Property or within the Phase One Study Area.

7.3 Areas of Potential Environmental Concern

No PCAs were identified on the Phase One Property or within the Phase One Study Area that would contribute to an APEC on the Phase One Property.

7.4 Phase One Conceptual Site Model

The Phase One Property consists of a vacant, undeveloped, former agricultural parcel of land located at the northwestern intersection of Aspen Springs Drive and Bowmanville Avenue with a municipal address of 10 Aspen Springs Drive, in Bowmanville, Ontario. The Phase One Property has a legal description of:

- Part of Lot 15, Concession 1, Geographic Township of Darlington, Municipality of Clarington, Regional Municipality of Durham.

For the purpose of this report, the portion of Aspen Springs Drive that is located adjacent to the Site is assumed to be aligned in an east-west direction (i.e., relative to "Project North"), although it is actually aligned in a northeast-southwest direction (i.e., relative to "True North"). Unless otherwise noted, descriptions provided in this report are relative to Project North.

The Phase One Property is currently owned by 2346120 Ontario Inc. and covers an area of approximately 0.97 hectares (2.4 acres). The Phase One Property consists of an irregularly shaped parcel of land that was used for agricultural purposes between at least 1927 and 1981. The Phase One Property is currently vacant and undeveloped.

As part of the Phase One ESA completed on the Phase One Property, Watters Environmental reviewed and utilized previous environmental reports, including soil and groundwater data on the Phase One Property that was obtained in 2013.

Watters Environmental understands that the Client is planning to redevelop the Phase One Property for residential purposes and that the Regional Municipality of Durham requires that a Phase One ESA be conducted in accordance with Ontario Regulation (O. Reg.) 153/04, although a Record of Site Condition is not required for this development.

The Phase One Conceptual Site Model (CSM) is presented in the following sections and shown graphically on Figure 5. Figures 1 to 4 show features on the Phase One Property and Phase One Study Area.

1. Provide one or more figures of the phase one study area that,

i. show any existing building and structures,

Figures attached include:

- Figure 1 – Phase One Property Location Map;
- Figure 2 – Phase One Study Area Land Use Map;
- Figure 3 – Topographic Map; and
- Figure 4 – Phase One Property Layout Plan;

ii. identify and locate water bodies located in whole or in part on the phase one study area;

Figure 3 is a Topographic Map showing the topography and water bodies in the Phase One Study Area and beyond. No water bodies are located on the Phase One Property or within the Phase One Study Area. Westside Creek is located approximately 630 metres southwest of the Phase One Property. Bowmanville Creek is located approximately 970 metres southeast of the Phase One Property.

iii. identify and locate any areas of natural significance located in whole in whole or in part on the phase one study area;

There are no areas of natural significance within the Phase One Study Area.

iv. locate any drinking water wells at the phase one property;

Watters Environmental obtained database information provided in the EcoLog ERIS report and conducted a search of the MECP Well Records database to determine the presence of current and former wells on the Phase One Property or Phase One Study Area.

One monitoring well installed in 2016 during a previous investigation was noted to be present on the Phase One Property. Nineteen wells were identified within the Phase One Study Area, including records for potable water supply wells.

v. show roads, including names, within the phase one study area;

Roads within the Phase One Study Area are shown in Figure 2. As shown on Figure 2, the Phase One Property is accessed from the south (off Aspen Springs Drive).

vi. show uses of properties adjacent to the phase one property;

As shown on Figure 2, Bowmanville Avenue borders the Phase One Property to the west, followed by residential properties to the west of Bowmanville Avenue further west. Vacant land borders the Phase One Property to the north and west. Aspen Springs Drive borders the Phase One Property to the south, followed by residential properties and one multi-tenant commercial property.

vii. identify and locate areas where any potentially contaminating activity has occurred, and show tanks in such areas; and

No PCAs were identified on the Phase One Property or within the Phase One Study Area.

viii. identify and locate any areas of potential environmental concern

No PCAs were identified on the Phase One Property or within the Phase One Study Area that are contributing to an APEC on the Phase One Property.

2. Provided a description of and assessment of,

i. any areas where potentially contaminating activity on or potentially affecting the phase one property has occurred;

No PCAs were identified on the Phase One Property or within the Phase One Study Area that would contribute to an APEC on the Phase One Property.

ii. any contaminants of potential concern;

No PCAs were identified on the Phase One Property or within the Phase One Study Area that would contribute to an APEC on the Phase One Property. No contaminants of potential concern were identified on the Phase One Property.

iii. the potential for underground utilities, if any present, to affect contaminant distribution and transport;

The Phase One Property is vacant and undeveloped and therefore Watters Environmental does not anticipate that underground utilities would be present at the Phase One Property.

iv. available regional or site specific geological and hydrogeological information; and

Based on a review of the topographic map, Watters Environmental understands that the Phase One Property is located in an area of Bowmanville that slopes downwards towards the southeast and is situated at an elevation of approximately 126 metres above sea level (masl). The Phase One Property generally slopes to the west.

Based on the general topography of the Phase One Property and surrounding area, Watters Environmental infers that the near-surface groundwater at the Phase One Property flows to the southwest, following the local topographic gradient towards Westside Creek, located approximately 630 metres southwest of the Phase One Property.

A review of the MNDM Surficial Geology map on the Google Earth Database indicates that the overburden in the area of the Phase One Property consists of stone-poor sandy silt to silty sand textured till on Paleozoic terrain.

Bedrock in the vicinity of the Phase One Property is expected to be shale of the Lindsay Formation. A review of the MECP well records within the Phase One Study Area indicate that bedrock is anticipated at a depth of approximately 48 metres below ground surface (mbgs).

v. how any uncertainty or absence of information obtained in each of the components of the phase one environmental site assessment could affect the validity of the model.

There are no uncertainties or absence of information in the completion of this Phase One Environmental Site Assessment that could affect the validity of the Phase One CSM.

8.0 CONCLUSIONS

8.1 Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

Based on the Phase One ESA completed, it is Watters Environmental's opinion that there are no PCAs from historical or current operations on the Phase One Property or off-Site properties within the Phase One Study Area, which result in APECs on the Phase One Property. A Phase Two ESA is not required before a Record of Site Condition can be submitted.

8.2 Record of Site Condition Based on Phase One Environmental Site Assessment Alone

As noted in Section 8.1 above, the filing of a Record of Site Condition can be completed with this Phase One Environmental Site Assessment alone; however, as noted, a RSC is not required for this development.

8.3 Signatures

Prepared by:

Tanner Leonhardt, B.Eng, EIT
Project Manager

Robert J. Watters, Ph.D., P.Geo.
President & CEO

Attach/

9.0 REFERENCES AND OTHER SOURCES OF INFORMATION

1. Municipality of Clarington Interactive Map. (https://clarington.maps.arcgis.com/apps/webappviewer/index.html?id=eec562e9554b46d2b61ba5a5b66456fd);

2. County Atlas Project (https://digital.library.mcgill.ca/countyatlas/default.htm);

3. "*Phase II Environmental Site Assessment, 10 Aspen Springs Drive, Bowmanville, Ontario*", prepared by Genivar Inc. for 2346120 Ontario Inc.., dated December 2013 (the "2013 Genivar Phase II Report");

4. "*Phase I Environmental Site Assessment, 10 Aspen Springs Drive, Bowmanville, Ontario*", prepared by WSP Canada Inc. for 2346120 Ontario Inc.., dated May 2014 (the "2014 WSP Phase I Report");

5. "*Geotechnical Investigation, Proposed Commercial Development, 10 Aspen Springs Drive, Bowmanville, Ontario*", prepared by WSP Canada Inc. for 2391546 Ontario Inc., dated June 2014 (the "2014 WSP Geotechnical Investigation");

6. Freeze, R. Allan, and Cherry, John A. *Groundwater*. 1979;

7. Ministry of the Environment and Climate Change, 2012. *Brownfields Environmental Site Registry Search*, (https://www.ontario.ca/page/brownfields-redevelopment);

8. Ministry of Environment and Climate Change Water Wells Online Database (https://www.ontario.ca/page/map-well-records);

9. Ministry of Northern Development and Mines (https://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth);

10. Natural Resources Canada, 2014. Toporama – Topographic Maps, The Atlas of Canada, (https://atlas.gc.ca/toporama/en/index.html);

11. Ontario, 2012a. *Environmental Protection Act*, R.S.O. 1990; and

12. Ontario, 2012b. Ontario Regulation 153/04, Records of Site Condition – Part XV.1 of the Act.

10.0 QUALIFICATIONS AND LIMITATIONS

Watters Environmental has prepared this report for the exclusive use of 2346120 Ontario Inc. in evaluating the environmental condition of the Phase One Property at the time of the Site reconnaissance. Watters Environmental will not be responsible for the use of this report by any other party, or reliance on or any decision to be made based on it without the prior written consent of Watters Environmental. Watters Environmental accepts no responsibility for damages, if any, by any other party as a result of decisions or actions based on this report.

This report presents an overview of issues of environmental concern, reflecting Watters Environmental's professional judgment using information reasonably available at the Phase One Property at the time of the Site reconnaissance. Watters Environmental has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to Watters Environmental at the time of the Site reconnaissance. The scope of work completed by Watters Environmental did not involve a review or evaluation of health and safety issues at the Site, or activities required to bring the Site into environmental compliance.

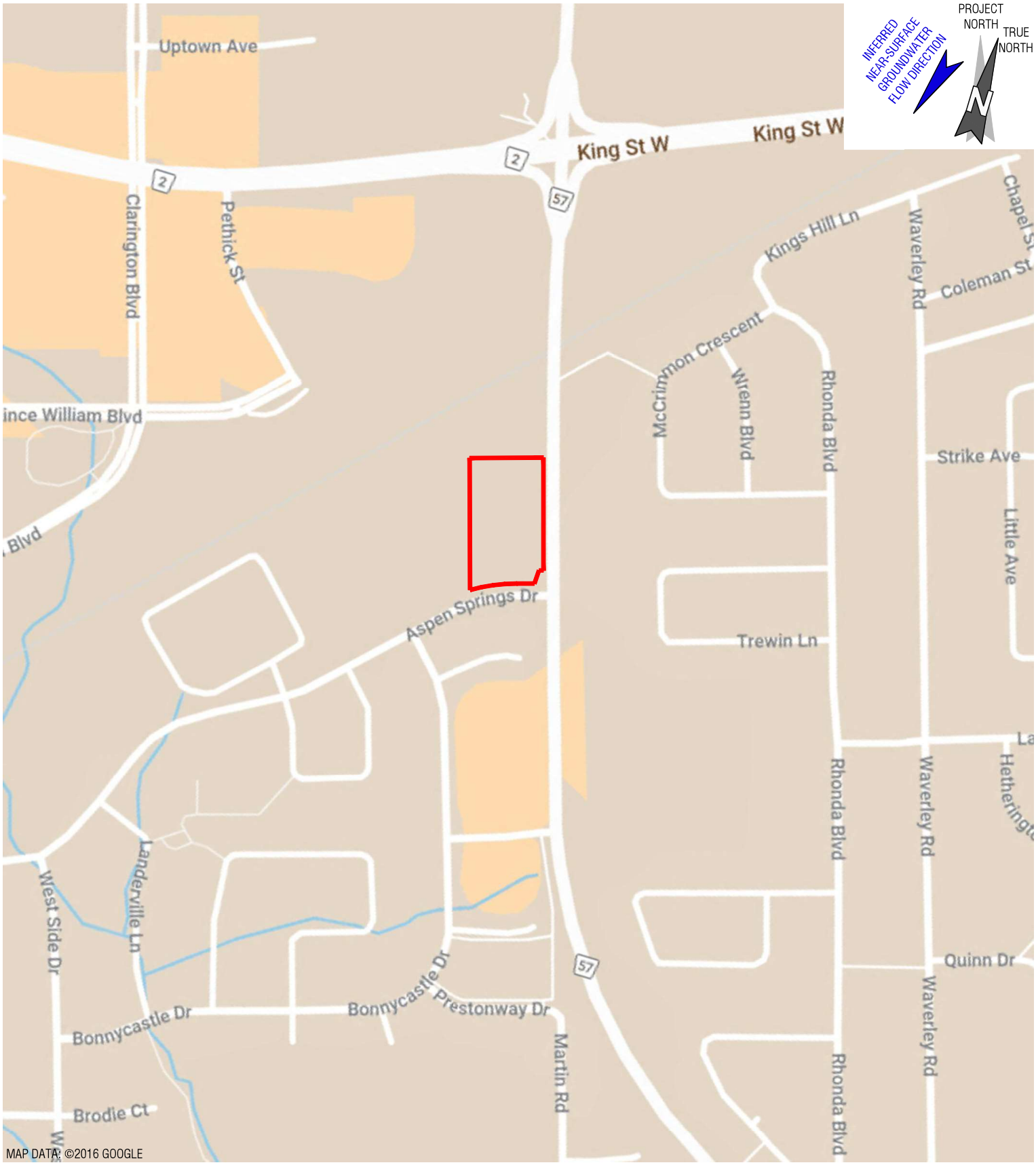
The scope of work for the Phase One ESA did not include conducting any intrusive investigations (e.g., cutting exploratory holes in solid walls) or preparing detailed cost estimates associated with addressing any environmental issues identified during the Phase One ESA; collecting any soil, groundwater, or air samples for laboratory analysis; preparing a scaled Site layout drawing; an assessment of biological features or related aspects of the natural environment; or an assessment of permits or licenses that may be required for re-development of the Phase One Property.

Any discussions regarding mould are based solely on visual and olfactory observations from a non-intrusive assessment. The assessment was conducted in readily accessible areas and did not involve intrusive or destructive activities, such as peeling back intact vinyl wallpaper or cutting holes in drywall walls or ceilings to inspect conditions in concealed areas. The comments regarding mould were based on the observations made at the time of the Site visit. Mould growth conditions can change with time. No assurance is made regarding changes in conditions subsequent to the time of the Site visit.

It is important to note that conducting a Phase One ESA does not eliminate the possibility that negative environmental conditions and/or variations of conditions not described in this report are present on the Site. Portions of the ground surface of the Site were covered with snow and/or ice at the time of the Site reconnaissance, which prevented observations of the exterior surface areas.

This report is complete only as an entire document, and no section is intended to be used separately.

FIGURES



LEGEND:

EXTENT OF THE PHASE ONE PROPERTY

0m 200m

SCALE

DRAWN: B. CALDERONE
CHECKED: T. LEONHARDT
DATE: APRIL 2022

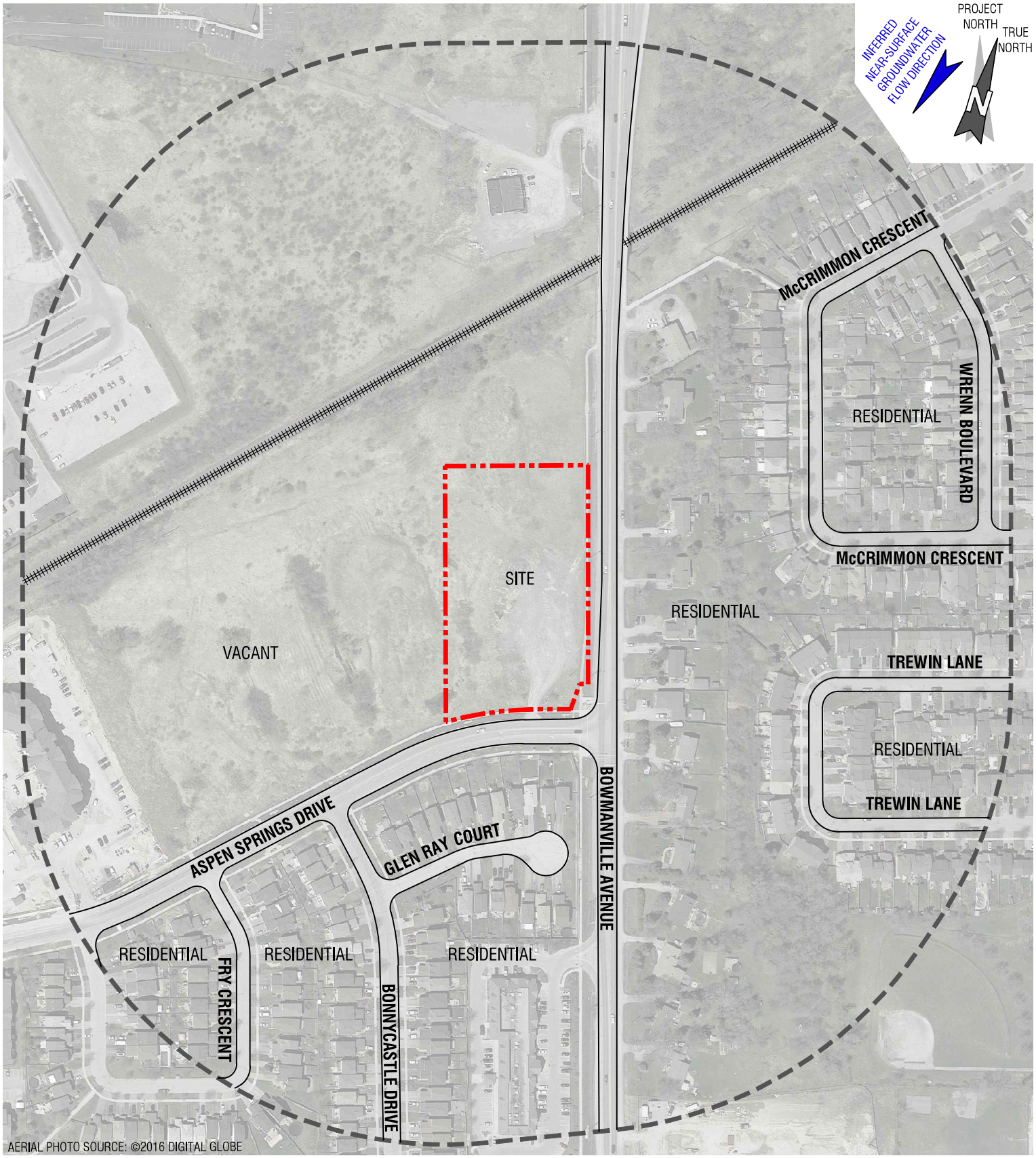
CLIENT: 2346120 ONTARIO INC.
SITE ADDRESS: 10 ASPEN SPRINGS DRIVE BOWMANVILLE, ONTARIO

REPORT NAME: PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

FIGURE NAME: PHASE ONE PROPERTY LOCATION MAP

PROJECT No: 21-0136.06

FIGURE No: 1



LEGEND:

EXTENT OF THE PHASE ONE PROPERTY

250m AREA OF ASSESSMENT

MTC MULTI-TENANT COMMERCIAL

MTR MULTI-TENANT RESIDENTIAL

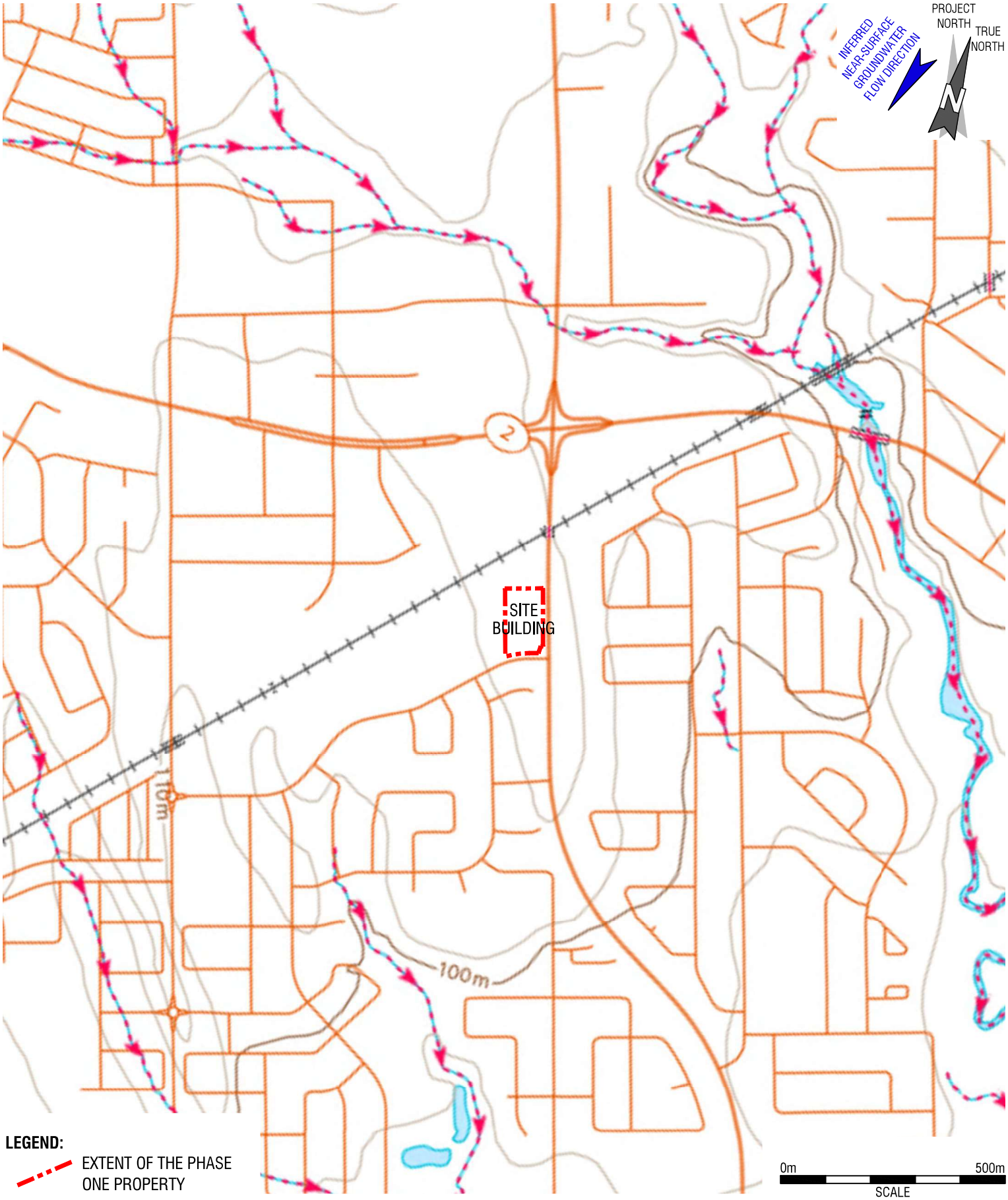
0m 50m 100m
SCALE

DRAWN: B. CALDERONE
CHECKED: T. LEONHARDT
DATE: APRIL 2022

CLIENT: 2346120 ONTARIO INC.
SITE ADDRESS: 10 ASPEN SPRINGS DRIVE BOWMANVILLE, ONTARIO

REPORT NAME: PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

FIGURE NAME: PHASE ONE STUDY AREA LAND USE MAP
PROJECT No: 21-0136.06
FIGURE No: 2



DRAWN: B. CALDERONE
CHECKED: T. LEONHARDT
DATE: APRIL 2022

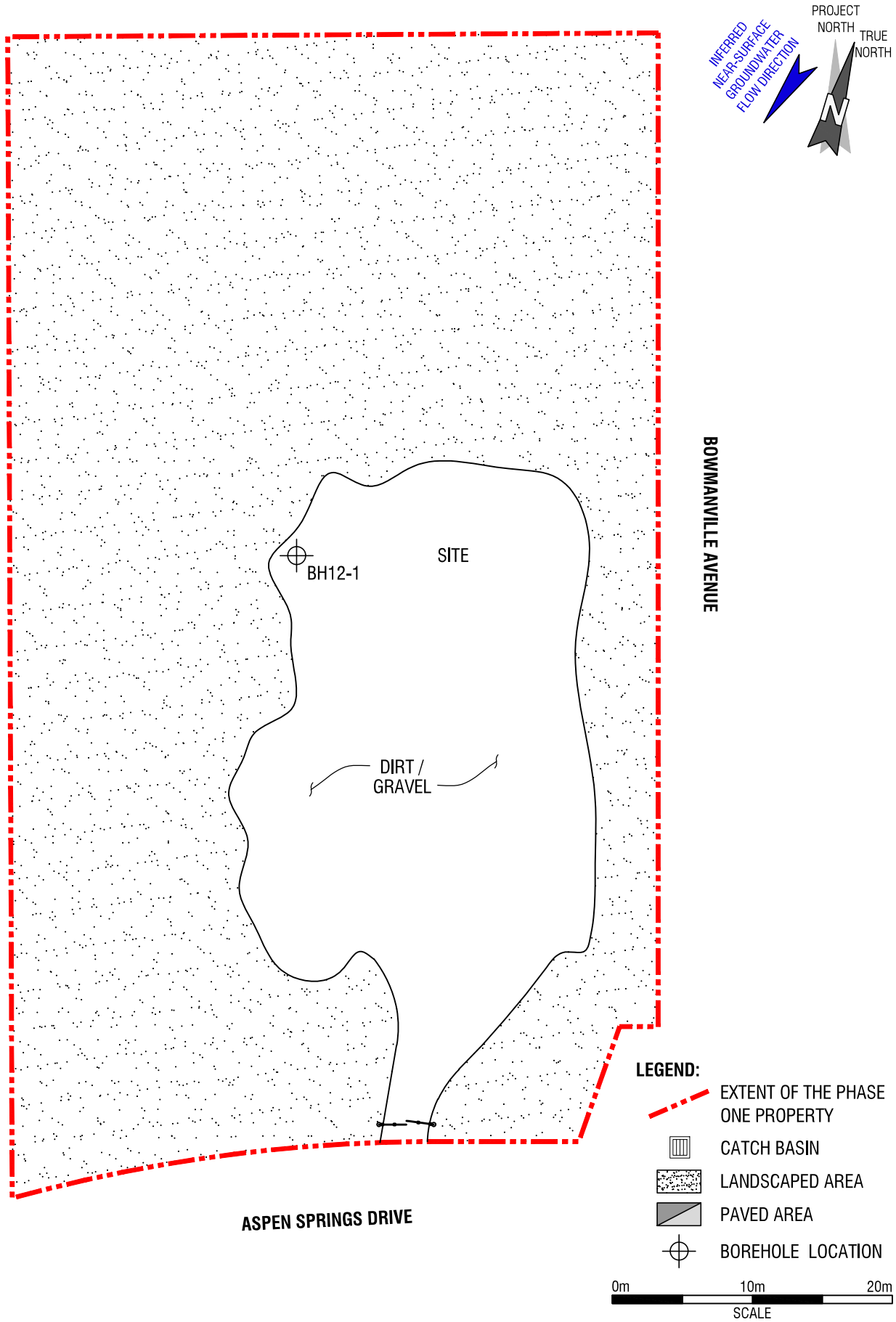
CLIENT: 2346120 ONTARIO INC.
SITE ADDRESS: 10 ASPEN SPRINGS DRIVE BOWMANVILLE, ONTARIO

REPORT NAME: PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

FIGURE NAME: TOPOGRAPHICAL MAP

PROJECT No: 21-0136.06

FIGURE No: 3



DRAWN: B. CALDERONE
CHECKED: T. LEONHARDT
DATE: APRIL 2022

CLIENT: 2346120 ONTARIO INC.
SITE ADDRESS: 10 ASPEN SPRINGS DRIVE BOWMANVILLE, ONTARIO

REPORT NAME: PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

FIGURE NAME: PHASE ONE PROPERTY LAYOUT PLAN

PROJECT No: 21-0136.06

FIGURE No: 4

APPENDIX A

Photographs

PHOTOGRAPHS

Photograph No. 1	
Date Taken: November 15, 2021	
Description: View of the gravel surface.	
Looking Towards: South	

Photograph No. 2	
Date Taken: November 15, 2021	
Description: View of the northwestern portion of the Site.	
Looking Towards: South	

Site Address: 10 Aspen Springs Drive, Bowmanville, Ontario

Project No.: 21-0136.06

PHOTOGRAPHS

Photograph No. 3 Date Taken: November 15, 2021 Description: View of the southwestern portion of the Site. Looking Towards: Northeast	

Photograph No. 4 Date Taken: November 15, 2021 Description: View of the piles of fill material previously investigated on the western portion of the Site. Looking Towards: North	

Site Address: 10 Aspen Springs Drive, Bowmanville, Ontario

Project No.: 21-0136.06

APPENDIX B

Plan of Survey

PROPERTY DESCRIPTION: PT LT 15 CON 1 DARLINGTON, PT 1 ON PL 40R22727;; MUNICIPALITY OF CLARINGTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 26934-0853

PIN CREATION DATE:
2004/10/06

OWNERS' NAMES
2346120 ONTARIO INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
FAD5915109	1990/08/08	APL FIRST REGN			WEST BOWMANVILLE DEVELOPMENTS LTD.	C
LT566837	1991/10/10	NOTICE AGREEMENT			THE CORPORATION OF THE TOWN OF NEWCASTLE	C
LT578130	1991/12/31	NOTICE AGREEMENT			THE CORPORATION OF THE TOWN OF NEWCASTLE	C
	REMARKS: LT566837					
LT774123	1996/10/08	NOTICE AGREEMENT			THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON	C
	REMARKS: LT566837					
40R22727	2004/06/02	PLAN REFERENCE				C
DR516742	2006/07/04	NOTICE		THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON	WEST BOWMANVILLE DEVELOPMENTS LTD.	C
40R25507	2008/07/10	PLAN REFERENCE				C
DR1138631	2012/11/16	TRANSFER	$1,500,000	MARTIN ROAD HOLDINGS LIMITED	2346120 ONTARIO INC.	C
	REMARKS: PLANNING ACT STATEMENTS					
DR1138694	2012/11/16	CHARGE	$1,500,000	2346120 ONTARIO INC.	CESARONI MANAGEMENT LIMITED	C
DR1138695	2012/11/16	NO ASSGN RENT GEN		2346120 ONTARIO INC.	CESARONI MANAGEMENT LIMITED	C
	REMARKS: DR1138694					
DR1243893	2014/02/03	NOTICE OF LEASE	$1	2346120 ONTARIO INC.	THE TDL GROUP CORP.	C
DR1248117	2014/02/28	NOTICE	$1	THE TDL GROUP CORP.	CESARONI MANAGEMENT LIMITED	C

PROPERTY DESCRIPTION: PT LT 15 CON 1 DARLINGTON, PTS 1, 2 & 3 PL 40R25507,; MUNICIPALITY OF CLARINGTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 26934-1035

PIN CREATION DATE:
2008/09/26

OWNERS' NAMES
2346120 ONTARIO INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
LT566837	1991/10/10	NOTICE AGREEMENT			THE CORPORATION OF THE TOWN OF NEWCASTLE	C
LT578130	1991/12/31	NOTICE AGREEMENT			THE CORPORATION OF THE TOWN OF NEWCASTLE	C
	REMARKS: LT566837					
LT774123	1996/10/08	NOTICE AGREEMENT			THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON	C
	REMARKS: LT566837					
40R25507	2008/07/10	PLAN REFERENCE				C
DR1138631	2012/11/16	TRANSFER	$1,500,000	MARTIN ROAD HOLDINGS LIMITED	2346120 ONTARIO INC.	C
	REMARKS: PLANNING ACT STATEMENTS					
DR1138694	2012/11/16	CHARGE	$1,500,000	2346120 ONTARIO INC.	CESARONI MANAGEMENT LIMITED	C
DR1138695	2012/11/16	NO ASSGN RENT GEN		2346120 ONTARIO INC.	CESARONI MANAGEMENT LIMITED	C
	REMARKS: DR1138694					
DR1243893	2014/02/03	NOTICE OF LEASE	$1	2346120 ONTARIO INC.	THE TDL GROUP CORP.	C
DR1248117	2014/02/28	NOTICE	$1	THE TDL GROUP CORP.	CESARONI MANAGEMENT LIMITED	C

APPENDIX C

EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS) Report

ERIS

DATABASE REPORT

Project Property:	*21-0136.06* *10 Aspen Springs Drive* *Bowmanville ON L1C 4W7*
Project No:	
Report Type:	*RSC Report (Urban)*
Order No:	*22030700330*
Requested by:	*Watters Environmental Group Inc.*
Date Completed:	*March 10, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*21-0136.06* *10 Aspen Springs Drive Bowmanville ON L1C 4W7*
Project No:	

Order Information:

Order No:	*22030700330*
Date Requested:	*March 7, 2022*
Requested by:	*Watters Environmental Group Inc.*
Report Type:	*RSC Report (Urban)*

Historical/Products:

City Directory Search	*CD - QUOTE Custom City Directory Search*
Topographic Map	*RSC Maps*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	*Abandoned Aggregate Inventory*	Y	0	0	0
AGR	*Aggregate Inventory*	Y	0	0	0
AMIS	*Abandoned Mine Information System*	Y	0	0	0
ANDR	*Anderson's Waste Disposal Sites*	Y	0	0	0
AST	*Aboveground Storage Tanks*	Y	0	0	0
AUWR	*Automobile Wrecking & Supplies*	Y	0	0	0
BORE	*Borehole*	Y	0	6	6
CA	*Certificates of Approval*	Y	0	4	4
CDRY	*Dry Cleaning Facilities*	Y	0	0	0
CFOT	*Commercial Fuel Oil Tanks*	Y	0	0	0
CHEM	*Chemical Manufacturers and Distributors*	Y	0	0	0
CHM	*Chemical Register*	Y	0	0	0
CNG	*Compressed Natural Gas Stations*	Y	0	0	0
COAL	*Inventory of Coal Gasification Plants and Coal Tar Sites*	Y	0	0	0
CONV	*Compliance and Convictions*	Y	0	0	0
CPU	*Certificates of Property Use*	Y	0	0	0
DRL	*Drill Hole Database*	Y	0	0	0
DTNK	*Delisted Fuel Tanks*	Y	0	0	0
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	1	2	3
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	Y	2	8	10
EIIS	*Environmental Issues Inventory System*	Y	0	0	0
EMHE	*Emergency Management Historical Event*	Y	0	0	0
EPAR	*Environmental Penalty Annual Report*	Y	0	0	0
EXP	*List of Expired Fuels Safety Facilities*	Y	0	0	0
FCON	*Federal Convictions*	Y	0	0	0
FCS	*Contaminated Sites on Federal Land*	Y	0	0	0
FOFT	*Fisheries & Oceans Fuel Tanks*	Y	0	0	0
FRST	*Federal Identification Registry for Storage Tank Systems (FIRSTS)*	Y	0	0	0
FST	*Fuel Storage Tank*	Y	0	0	0
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	15	15
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	1	1
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	4	4
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	19	20
	Total:		4	62	66

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		northwest corner of Aspen Springs Drive and Martin Road Bowmanville ON	ESE/0.0	0.01	23
2	EHS		10 Aspen Springs Dr Clarington ON L1C4W7	SSW/0.0	-0.01	23
2	ECA	2346120 Ontario Inc.	10 Aspen Springs Dr Clarington ON L1N 7K6	SSW/0.0	-0.01	23
3	WWIS		HWY 57 / RIPEN SERINGS DR BOWMANVILLE ON ***Well ID:*** 7193859	NNE/0.0	0.01	23

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
4	CA	WEST BOWMANVILLE DEV. LTD.-PT.LOTS 15&16	ASPEN SPRINGS DR./REG. RD.# 57 NEWCASTLE TOWN ON	ESE/23.4	1.73	26
5	INC		24 MARTIN ROAD, EDEN ON	ESE/46.8	2.44	26
6	EHS		1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	NE/55.6	1.91	27
6	EHS		1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	NE/55.6	1.91	27
6	EHS		1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	NE/55.6	1.91	27
6	EHS		1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	NE/55.6	1.91	28
6	EHS		1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	NE/55.6	1.91	28
7	WWIS		lot 15 con 1 ON ***Well ID:*** 1903006	NW/64.4	2.05	28
8	WWIS		ON ***Well ID:*** 1900041	ESE/73.2	2.83	31
9	WWIS		ON ***Well ID:*** 1900011	ESE/73.7	2.14	34
10	GEN	Aspen Springs Animal Hospital	1550 Bowmanville Ave, Unit 9 Bowmanville ON L1C 6N5	ESE/81.9	2.83	37

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	WWIS		ON **Well ID:** 1902833	N/101.5	2.05	37
12	CA	WEST BOWMANVILLE DEV. LTD.	BONNYCASTLE DR./GLEN RAY COURT NEWCASTLE TOWN ON	S/111.9	2.05	40
13	BORE		ON	N/118.3	2.10	41
14	BORE		ON	N/121.2	2.05	41
15	WWIS		ON **Well ID:** 1900040	SE/123.6	2.05	42
16	WWIS		ON **Well ID:** 1900026	SE/125.6	2.05	45
17	BORE		ON	N/132.2	2.05	48
18	BORE		ON	N/138.1	2.05	49
19	WWIS		ON **Well ID:** 1900027	ESE/145.9	-6.00	50
20	BORE		ON	N/147.8	1.91	52
21	WWIS		HIGHWAY 57 AND HIGHWAY 2 BOWMANVILLE ON **Well ID:** 7259230	N/153.4	2.05	52
22	BORE		ON	N/156.7	2.05	56
23	PES	LAWN RANGERS (BOWMANVILLE)	105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C 4W6	S/168.9	2.05	56

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
23	PES	LAWN RANGERS (BOWMANVILLE)	105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C 4W6	S/168.9	2.05	57
23	PES	LAWN RANGERS (BOWMANVILLE)	105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C4W6	S/168.9	2.05	57
23	PES	LAWN RANGERS (BOWMANVILLE)	105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C4W6	S/168.9	2.05	57
24	CA	MARTIN ROAD HOLDINGS LIMITED	FRY CRES.E./ASPEN SPRINGS BLVD CLARINGTON MUNICIPALITY ON	SW/172.0	0.16	58
24	CA	MARTIN ROAD HOLDINGS LIMITED	FRY CRES.E./ASPEN SPRINGS BLVD CLARINGTON MUNICIPALITY ON	SW/172.0	0.16	58
25	GEN	Apple Tree Dentistry Bowmanville	1550 Bowmanville Avenue Unit 7 Bowmanville ON L1C3K7	SSE/174.8	2.05	58
25	GEN	Aspen Springs Animal Hospital	1550 Bowmanville Ave, Unit 9 Bowmanville ON L1C 6N5	SSE/174.8	2.05	59
25	GEN	Aspen Springs Animal Hospital	1550 Bowmanville Ave, Unit 9 Bowmanville ON L1C 6N5	SSE/174.8	2.05	59
25	GEN	Apple Tree Dentistry Bowmanville	1550 Bowmanville Avenue Unit 7 Bowmanville ON L1C3K7	SSE/174.8	2.05	59
26	GEN	Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	SSE/187.2	2.05	59
26	GEN	Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	SSE/187.2	2.05	60
26	GEN	Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	SSE/187.2	2.05	60
26	GEN	Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON	SSE/187.2	2.05	60

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
26	GEN	Apple Tree Dentistry	39 Martin Rd Bowmanville ON L1C3K7	SSE/187.2	2.05	60
26	GEN	Apple Tree Dentistry	39 Martin Rd Bowmanville ON L1C3K7	SSE/187.2	2.05	61
26	GEN	Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	SSE/187.2	2.05	61
26	GEN	Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	SSE/187.2	2.05	61
26	GEN	Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	SSE/187.2	2.05	62
26	GEN	Apple Tree Dentistry Bowmanville	39 Martin Rd Bowmanville ON L1C3K7	SSE/187.2	2.05	62
27	WWIS		lot 14 con 1 ON ***Well ID:*** 1906829	N/193.1	-1.05	62
28	WWIS		ON ***Well ID:*** 1900015	ESE/194.8	-2.28	66
29	HINC		17 Fry Cres BOWMANVILLE ON L1C 4Y2	SSW/195.2	0.29	68
30	WWIS		HWY 2 AND REGIONAL ROAD 57 lot 15 con 1 BOWMANVILLE ON ***Well ID:*** 7336983	N/204.7	1.28	69
31	PINC	ENBRIDGE GAS INC	111 TREWIN LN,,BOWMANVILLE,ON,L1C 4X3,CA ON	E/223.6	-10.85	72
32	SPL		@ corner of Prince William & Pethick st. Clarington ON	WNW/230.6	1.08	72
33	WWIS		50 MARTIN ROAD REG RD 57 lot 14 con 1 BOWMANVILLE ON	SE/243.7	2.06	73

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7174957			
34	WWIS		lot 15 con 1 ON ***Well ID:*** 1908709	SSW/243.8	-1.17	76
35	ECA	The Corporation of the Municipality of Clarington	Clarington ON L1C 3A6	SSW/250.0	-1.55	79
35	ECA	The Regional Municipality of Durham	Clarington ON L1N 6A3	SSW/250.0	-1.55	79
36	EHS		1 Martin Road Bowmanville ON	N/257.8	-0.19	79
37	WWIS		ON ***Well ID:*** 1900014	ESE/259.4	-11.20	79
38	EHS		50 Martin Rd Clarington On Clarington ON L1C3K7	SE/259.9	2.58	82
39	WWIS		S/E CORNER OF HWY #2 & HWY #57 lot 14 con 2 BOWMANVILLE ON ***Well ID:*** 7039224	NNW/262.3	2.05	82
40	WWIS		215 KING STREET WEST BOWMANVILLE ON ***Well ID:*** 7295737	NNE/263.8	-2.88	83
41	WWIS		ON ***Well ID:*** 1900028	SE/265.1	2.56	86
42	EHS		Aspen Springs Drive, Bowmanville Bowmanville ON	WSW/272.0	-2.03	90
43	WWIS		50 REGIONAL RD 57 CLARINGTON ON ***Well ID:*** 7306629	ESE/288.9	-8.27	90
44	WWIS		50 REGIONAL RD 57 CLARINGTON ON ***Well ID:*** 7306624	SE/293.2	-6.93	93

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 6 BORE site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	118.3	13
	ON	121.2	14
	ON	132.2	17
	ON	138.1	18
	ON	147.8	20
	ON	156.7	22

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 4 CA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
WEST BOWMANVILLE DEV. LTD.-PT. LOTS 15&16	ASPEN SPRINGS DR./REG. RD.# 57 NEWCASTLE TOWN ON	23.4	4
WEST BOWMANVILLE DEV. LTD.	BONNYCASTLE DR./GLEN RAY COURT NEWCASTLE TOWN ON	111.9	12

Site	Address	Distance (m)	Map Key
MARTIN ROAD HOLDINGS LIMITED	FRY CRES.E./ASPEN SPRINGS BLVD CLARINGTON MUNICIPALITY ON	172.0	24
MARTIN ROAD HOLDINGS LIMITED	FRY CRES.E./ASPEN SPRINGS BLVD CLARINGTON MUNICIPALITY ON	172.0	24

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Jan 31, 2021 has found that there are 3 ECA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
2346120 Ontario Inc.	10 Aspen Springs Dr Clarington ON L1N 7K6	0.0	2
The Corporation of the Municipality of Clarington	Clarington ON L1C 3A6	250.0	35
The Regional Municipality of Durham	Clarington ON L1N 6A3	250.0	35

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Nov 30, 2021 has found that there are 10 EHS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	northwest corner of Aspen Springs Drive and Martin Road Bowmanville ON	0.0	1
	10 Aspen Springs Dr Clarington ON L1C4W7	0.0	2
	1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	55.6	6

Site	Address	Distance (m)	Map Key
	1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	55.6	6
	1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	55.6	6
	1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	55.6	6
	1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	55.6	6
	1 Martin Road Bowmanville ON	257.8	36
	50 Martin Rd Clarington On Clarington ON L1C3K7	259.9	38
	Aspen Springs Drive, Bowmanville Bowmanville ON	272.0	42

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Nov 30, 2021 has found that there are 15 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Aspen Springs Animal Hospital	1550 Bowmanville Ave, Unit 9 Bowmanville ON L1C 6N5	81.9	10
Apple Tree Dentistry Bowmanville	1550 Bowmanville Avenue Unit 7 Bowmanville ON L1C3K7	174.8	25

Site	Address	Distance (m)	Map Key
Aspen Springs Animal Hospital	1550 Bowmanville Ave, Unit 9 Bowmanville ON L1C 6N5	174.8	25
Aspen Springs Animal Hospital	1550 Bowmanville Ave, Unit 9 Bowmanville ON L1C 6N5	174.8	25
Apple Tree Dentistry Bowmanville	1550 Bowmanville Avenue Unit 7 Bowmanville ON L1C3K7	174.8	25
Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	187.2	26
Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	187.2	26
Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	187.2	26
Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON	187.2	26
Apple Tree Dentistry	39 Martin Rd Bowmanville ON L1C3K7	187.2	26
Apple Tree Dentistry	39 Martin Rd Bowmanville ON L1C3K7	187.2	26
Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	187.2	26
Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	187.2	26
Aspen Springs Animal Hospital	39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	187.2	26

Site	Address	Distance (m)	Map Key
Apple Tree Dentistry Bowmanville	39 Martin Rd Bowmanville ON L1C3K7	187.2	26

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	17 Fry Cres BOWMANVILLE ON L1C 4Y2	195.2	29

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated May 31, 2021 has found that there are 1 INC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	24 MARTIN ROAD, EDEN ON	46.8	5

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Jan 31, 2021 has found that there are 4 PES site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
LAWN RANGERS (BOWMANVILLE)	105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C4W6	168.9	23
LAWN RANGERS (BOWMANVILLE)	105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C4W6	168.9	23
LAWN RANGERS (BOWMANVILLE)	105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C 4W6	168.9	23

Site	Address	Distance (m)	Map Key
LAWN RANGERS (BOWMANVILLE)	105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C 4W6	168.9	23

PINC - Pipeline Incidents

A search of the PINC database, dated May 31, 2021 has found that there are 1 PINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ENBRIDGE GAS INC	111 TREWIN LN,,BOWMANVILLE,ON,L1C 4X3,CA ON	223.6	31

SPL - Ontario Spills

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

Site	Address	Distance (m)	Map Key
	@ corner of Prince William & Pethick st. Clarington ON	230.6	32

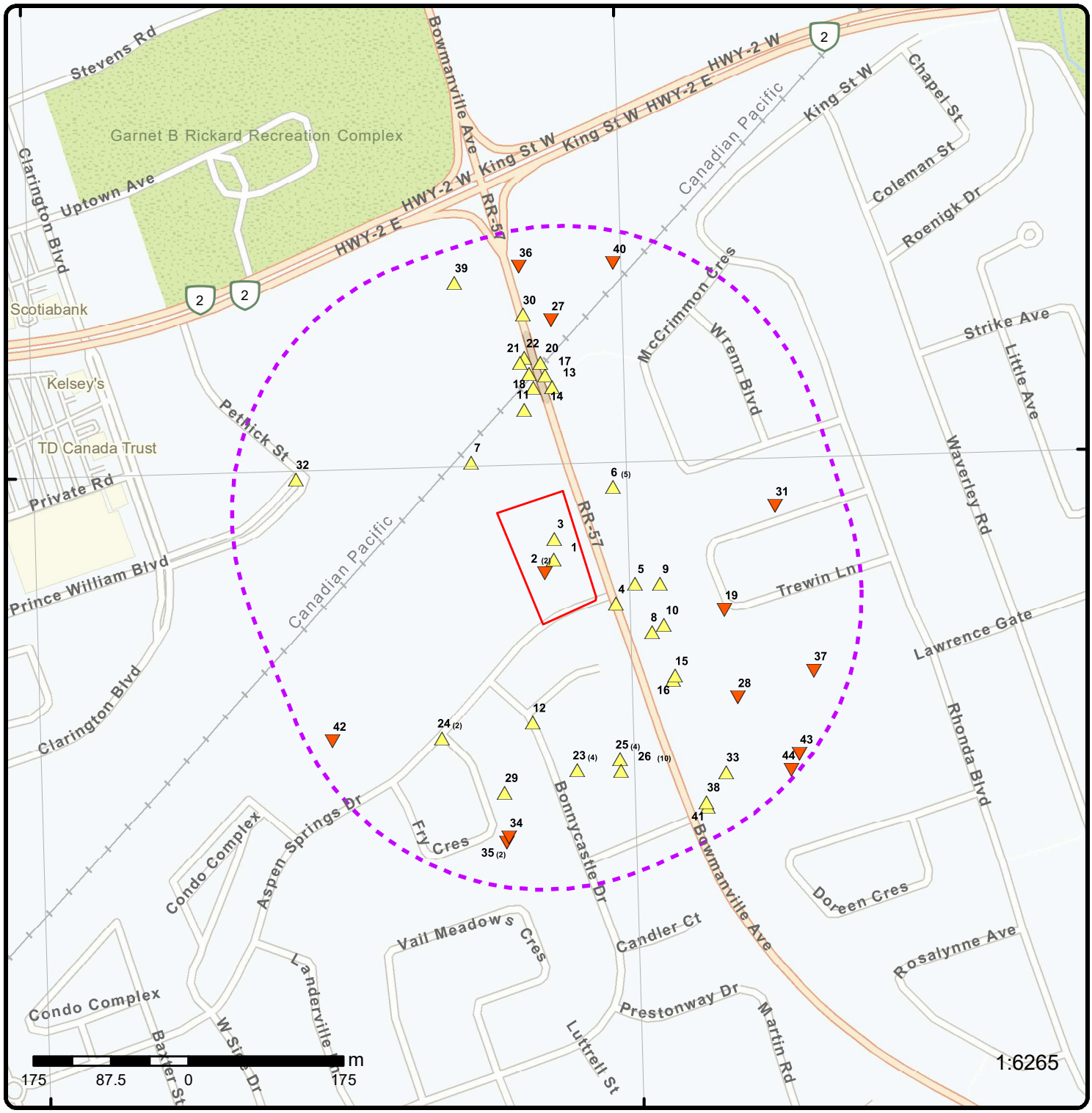
WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 20 WWIS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	HWY 57 / RIPEN SERINGS DR BOWMANVILLE ON ***Well ID:*** 7193859	0.0	3
	lot 15 con 1 ON ***Well ID:*** 1903006	64.4	7
	ON	73.2	8

Site	Address	Distance (m)	Map Key
	Well ID: 1900041		
	ON ***Well ID:*** 1900011	73.7	9
	ON ***Well ID:*** 1902833	101.5	11
	ON ***Well ID:*** 1900040	123.6	15
	ON ***Well ID:*** 1900026	125.6	16
	ON ***Well ID:*** 1900027	145.9	19
	HIGHWAY 57 AND HIGHWAY 2 BOWMANVILLE ON ***Well ID:*** 7259230	153.4	21
	lot 14 con 1 ON ***Well ID:*** 1906829	193.1	27
	ON ***Well ID:*** 1900015	194.8	28
	HWY 2 AND REGIONAL ROAD 57 lot 15 con 1 BOWMANVILLE ON ***Well ID:*** 7336983	204.7	30
	50 MARTIN ROAD REG RD 57 lot 14 con 1 BOWMANVILLE ON ***Well ID:*** 7174957	243.7	33
	lot 15 con 1 ON ***Well ID:*** 1908709	243.8	34

Site	Address	Distance (m)	Map Key
	ON ***Well ID:*** 1900014	259.4	37
	S/E CORNER OF HWY #2 & HWY #57 lot 14 con 2 BOWMANVILLE ON ***Well ID:*** 7039224	262.3	39
	215 KING STREET WEST BOWMANVILLE ON ***Well ID:*** 7295737	263.8	40
	ON ***Well ID:*** 1900028	265.1	41
	50 REGIONAL RD 57 CLARINGTON ON ***Well ID:*** 7306629	288.9	43
	50 REGIONAL RD 57 CLARINGTON ON ***Well ID:*** 7306624	293.2	44



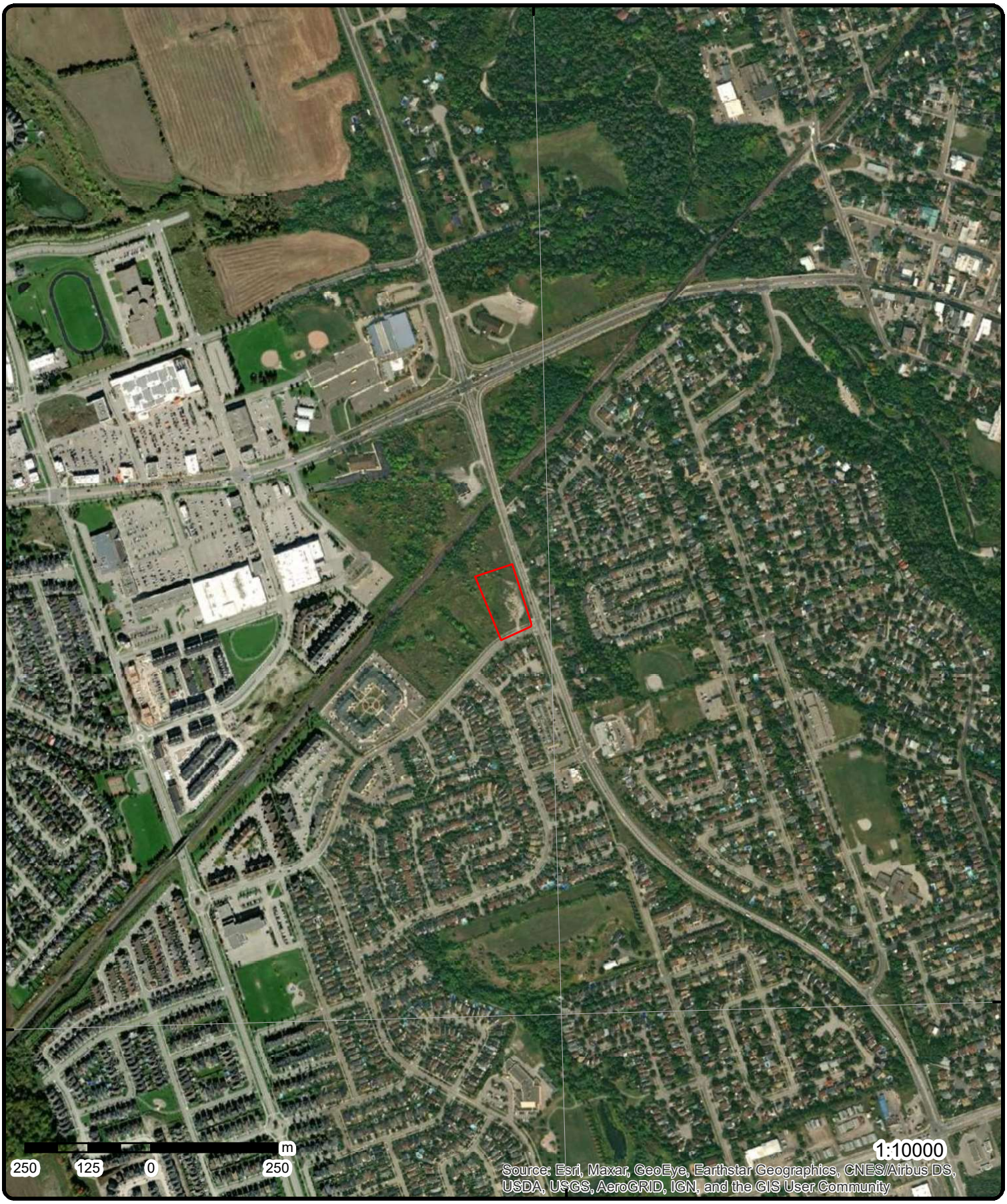
Map: 0.3 Kilometer Radius

Order Number: 22030700330

Address: 10 Aspen Springs Drive, Bowmanville, ON

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

78°42'W



43°54'N

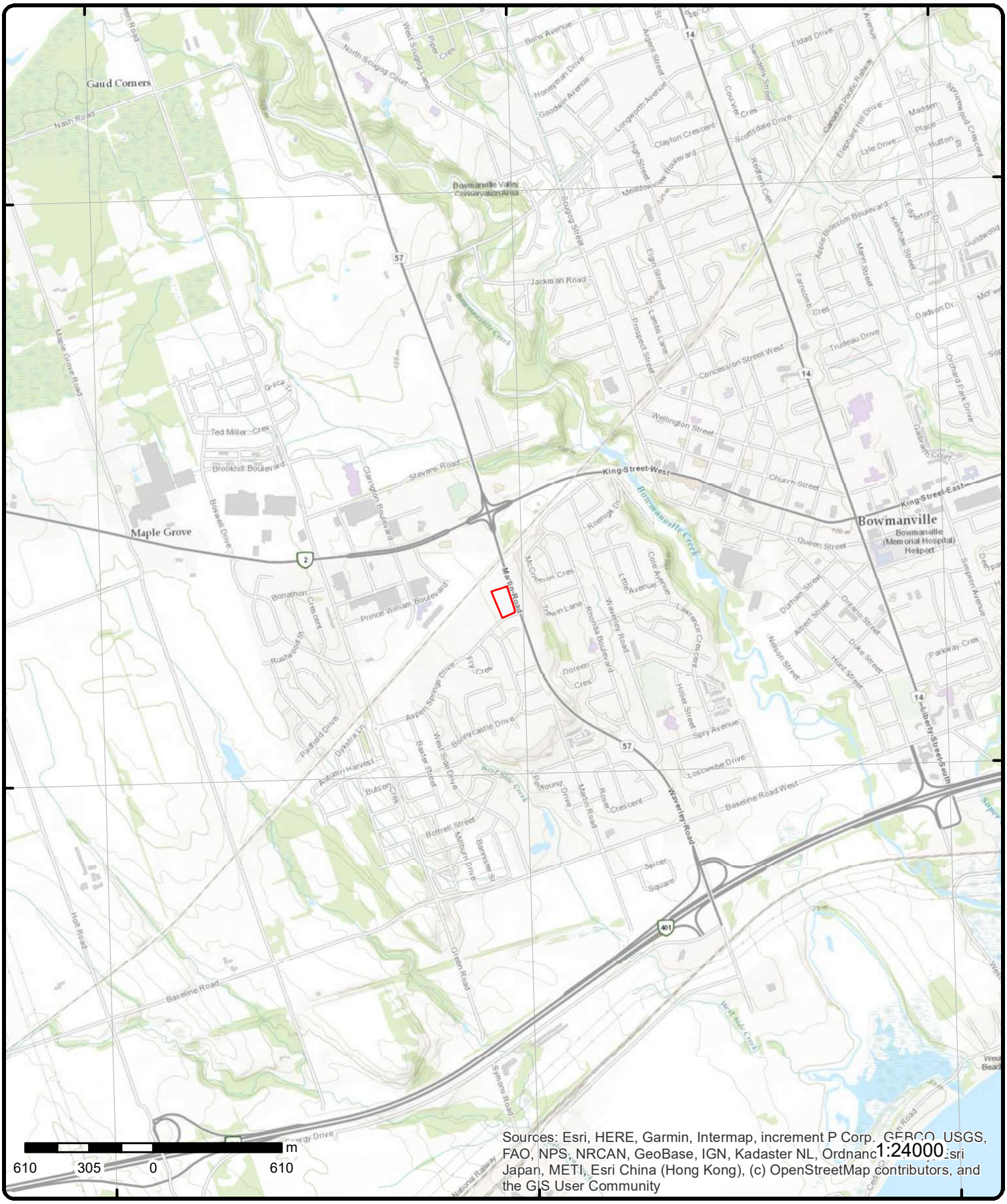
43°54'N

Aerial **Year: 2020**

Order Number: 22030700330

Address: 10 Aspen Springs Drive, Bowmanville, ON

Source: ESRI World Imagery



Topographic Map

Order Number: 22030700330

Address: 10 Aspen Springs Drive, ON

Source: ESRI World Topographic Map

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	ESE/0.0	117.8 / 0.01	northwest corner of Aspen Springs Drive and Martin Road Bowmanville ON	EHS

Order No:	20070515011	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	CAN - Complete Report	**Client Prov/State:**	
Report Date:	5/25/2007	**Search Radius (km):**	0.25
Date Received:	5/15/2007	**X:**	-78.701133
Previous Site Name:		**Y:**	43.907363
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps And /or Site Plans; Aerials Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 2	SSW/0.0	117.8 / -0.01	10 Aspen Springs Dr Clarington ON L1C4W7	EHS

Order No:	20140416067	**Nearest Intersection:**	
Status:	C	**Municipality:**	Durham
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	28-APR-14	**Search Radius (km):**	.25
Date Received:	16-APR-14	**X:**	-78.701259
Previous Site Name:		**Y:**	43.907228
Lot/Building Size:			
Additional Info Ordered:	Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 2	SSW/0.0	117.8 / -0.01	2346120 Ontario Inc. 10 Aspen Springs Dr Clarington ON L1N 7K6	ECA

Approval No:	4850-AD7GAB	**MOE District:**	
Approval Date:	2016-08-26	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	2346120 Ontario Inc.		
Address:	10 Aspen Springs Dr		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6720-AD5JWY-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	NNE/0.0	117.8 / 0.01	HWY 57 / RIPEN SERINGS DR BOWMANVILLE ON	WWIS

Well ID:	7193859	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	12/19/2012
Sec. Water Use:		**Selected Flag:**	TRUE

Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7501
Casing Material:		***Form Version:***	7
Audit No:	Z157403	***Owner:***	
Tag:	A130869	***Street Name:***	HWY 57 / RIPEN SERINGS DR
Construction Method:		***County:***	DURHAM
Elevation (m):		***Municipality:***	NEWCASTLE TOWN (DARLINGTON)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7193859.pdf

Additional Detail(s) (Map)

Well Completed Date:	2012/12/05
Year Completed:	2012
Depth (m):	6.096
Latitude:	43.9075799583184
Longitude:	-78.7011135902999
Path:	719\7193859.pdf

Bore Hole Information

Bore Hole ID:	1004222623	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	684599.00
Code OB Desc:		***North83:***	4864177.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	05-Dec-2012 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004684196
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	4.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004684195
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	0.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004684203
Layer:	1
Plug From:	0.0
Plug To:	8.5
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004684202
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1004684194
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004684199
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	10.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004684200
Layer:	1
Slot:	10
Screen Top Depth:	10.0
Screen End Depth:	20.0

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

Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Water Details

Water ID:	1004684198
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004684197
Diameter:	8.0
Depth From:	0.0
Depth To:	20.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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4 | **1 of 1** | **ESE/23.4** | **119.5 / 1.73** | **WEST BOWMANVILLE DEV. LTD.-PT.LOTS 15&16**
ASPEN SPRINGS DR./REG. RD.# 57
NEWCASTLE TOWN ON | **CA**

Certificate #:	7-0578-92-
Application Year:	92
Issue Date:	6/24/1992
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

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5 | **1 of 1** | **ESE/46.8** | **120.2 / 2.44** | **24 MARTIN ROAD, EDEN ON** | **INC**

Incident No:	1829384	**Any Health Impact:**	No
Incident ID:		**Any Enviro Impact:**	Yes
Instance No:		**Service Interrupted:**	No
Status Code:		**Was Prop Damaged:**	No
Attribute Category:	FS-Perform L1 Incident Insp	**Reside App. Type:**	
Context:		**Commer App. Type:**	
Date of Occurrence:	2016/12/09 00:00:00	**Indus App. Type:**	
Time of Occurrence:	10:42:00	**Institut App. Type:**	
Incident Created On:		**Venting Type:**	
Instance Creation Dt:		**Vent Conn Mater:**	
Instance Install Dt:		**Vent Chimney Mater:**	
Occur Insp Start Date:	2016/02/04 00:00:00	**Pipeline Type:**	
Approx Quant Rel:		**Pipeline Involved:**	
Tank Capacity:		**Pipe Material:**	
Fuels Occur Type:	Leak	**Depth Ground Cover:**	
Fuel Type Involved:	Fuel Oil	**Regulator Location:**	

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

Enforcement Policy:	NULL	**Regulator Type:**	
Prc Escalation Req:	NULL	**Operation Pressure:**	
Tank Material Type:		**Liquid Prop Make:**	
Tank Storage Type:		**Liquid Prop Model:**	
Tank Location Type:		**Liquid Prop Serial No:**	
Pump Flow Rate Cap:		**Liquid Prop Notes:**	
Task No:	6096260	**Equipment Type:**	
Notes:		**Equipment Model:**	
Drainage System:		**Serial No:**	
Sub Surface Contam.:		**Cylinder Capacity:**	
Aff Prop Use Water:		**Cylinder Cap Units:**	
Contam. Migrated:		**Cylinder Mat Type:**	
Contact Natural Env:		**Near Body of Water:**	
Incident Location:	24 MARTIN ROAD, EDEN - LEAK		
Occurence Narrative:	Leak from oil filter		
Operation Type Involved:	Private Dwelling		
Item:			
Item Description:			
Device Installed Location:			

6	1 of 5	NE/55.6	119.7 / 1.91	**1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7**	EHS

Order No:	20200629163	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	03-JUL-20	**Search Radius (km):**	.3
Date Received:	29-JUN-20	**X:**	-78.700273
Previous Site Name:		**Y:**	43.90808864
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Aerial Photos		

6	2 of 5	NE/55.6	119.7 / 1.91	**1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7**	EHS

Order No:	20200629163	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	03-JUL-20	**Search Radius (km):**	.3
Date Received:	29-JUN-20	**X:**	-78.700273
Previous Site Name:		**Y:**	43.90808864
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Aerial Photos		

6	3 of 5	NE/55.6	119.7 / 1.91	**1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7**	EHS

Order No:	20200629163	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	03-JUL-20	**Search Radius (km):**	.3
Date Received:	29-JUN-20	**X:**	-78.700273
Previous Site Name:		**Y:**	43.90808864
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	4 of 5	NE/55.6	119.7 / 1.91	1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	EHS

Order No:	20200629163	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	03-JUL-20	**Search Radius (km):**	.3
Date Received:	29-JUN-20	**X:**	-78.700273
Previous Site Name:		**Y:**	43.90808864
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	5 of 5	NE/55.6	119.7 / 1.91	1695 Bowmanville Avenue, 1715 Bowmanville Avenue, and 4 Martin Road Bowmanville ON L1C 3K7	EHS

Order No:	20200629163	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	03-JUL-20	**Search Radius (km):**	.3
Date Received:	29-JUN-20	**X:**	-78.700273
Previous Site Name:		**Y:**	43.90808864
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	1 of 1	NW/64.4	119.8 / 2.05	lot 15 con 1 ON	WWIS

Well ID:	1903006	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	2/4/1971
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4713
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	NEWCASTLE TOWN (DARLINGTON)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	015
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1903006.pdf

Additional Detail(s) (Map)

Well Completed Date:	1970/11/10
Year Completed:	1970
Depth (m):	20.7264
Latitude:	43.9083771614388
Longitude:	-78.7022522569584
Path:	190\1903006.pdf

Bore Hole Information

Bore Hole ID:	10072058	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	684505.10
Code OB Desc:		***North83:***	4864263.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	10-Nov-1970 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931147725
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30.0
Formation End Depth:	65.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931147726
Layer:	3
Color:	3
General Color:	BLUE
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	65.0
Formation End Depth:	68.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931147724
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES

Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961903006
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10620628
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930129602
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 68.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991903006
Pump Set At:
Static Level: 25.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 65.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934403374
Test Type: Draw Down
Test Duration: 30
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934128523
Test Type: Draw Down
Test Duration: 15
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934671574
Test Type: Draw Down
Test Duration: 45
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934921525
Test Type: Draw Down
Test Duration: 60
Test Level: 60.0
Test Level UOM: ft

Water Details

Water ID: 933513591
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 68.0
Water Found Depth UOM: ft

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8 ***1 of 1*** ***ESE/73.2*** ***120.6 / 2.83*** ***ON*** ***WWIS***

Well ID:	1900041	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	4/2/1965
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2113
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	DURHAM
Elevation (m):		***Municipality:***	BOWMANVILLE TOWN
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1900041.pdf

Additional Detail(s) (Map)

Well Completed Date: 1965/03/28
Year Completed: 1965

Depth (m): 18.288
Latitude: 43.906598756994
Longitude: -78.6997803047191
Path: 190\1900041.pdf

Bore Hole Information

Bore Hole ID: 10069109
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 28-Mar-1965 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 684709.10
North83: 4864071.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 931135606
Layer: 5
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 56.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135604
Layer: 3
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 36.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135602
Layer: 1

Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135605
Layer: 4
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 36.0
Formation End Depth: 56.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135603
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961900041
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10617679
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930126333
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	60.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933328651
Layer:	1
Slot:	
Screen Top Depth:	25.0
Screen End Depth:	40.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	991900041
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	53.0
Recommended Pump Depth:	54.0
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	4.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933510570
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	32.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933510569
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	25.0
Water Found Depth UOM:	ft

9	*1 of 1*	*ESE/73.7*	*119.9 / 2.14*		*WWIS*

Well ID:	1900011	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	9/28/1953
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3908
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	BOWMANVILLE TOWN
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1900011.pdf

Additional Detail(s) (Map)

Well Completed Date:	1953/06/04
Year Completed:	1953
Depth (m):	24.384
Latitude:	43.9070913028758
Longitude:	-78.699649249932
Path:	190\1900011.pdf

Bore Hole Information

Bore Hole ID:	10069079	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684718.10
Code OB Desc:		**North83:**	4864126.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	04-Jun-1953 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931135488
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	

Mat3:
Mat3 Desc:
Formation Top Depth: 40.0
Formation End Depth: 78.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135489
Layer: 3
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 78.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135487
Layer: 1
Color:
General Color:
Mat1: 14
Most Common Material: HARDPAN
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961900011
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10617649
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930126292
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:

Depth To:	80.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991900011
Pump Set At:	
Static Level:	40.0
Final Level After Pumping:	40.0
Recommended Pump Depth:	
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	
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:	
Flowing:	No

Water Details

Water ID:	933510542
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	
Water Found Depth UOM:	ft

---

10 | ***1 of 1*** | ***ESE/81.9*** | ***120.6 / 2.83*** | ***Aspen Springs Animal Hospital*** | ***GEN***

1550 Bowmanville Ave, Unit 9
Bowmanville ON L1C 6N5

Generator No:	ON8939130	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Dec 2018	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	312 P
Waste Class Desc:	Pathological wastes

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11 | ***1 of 1*** | ***N/101.5*** | ***119.8 / 2.05*** | ***ON*** | ***WWIS***

Well ID:	1902833	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	3/10/1970
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2517
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM

Elevation (m):		**Municipality:**	BOWMANVILLE TOWN
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1902833.pdf

Additional Detail(s) (Map)

Well Completed Date:	1970/01/07
Year Completed:	1970
Depth (m):	89.916
Latitude:	43.9089019223155
Longitude:	-78.7014848536352
Path:	190\1902833.pdf

Bore Hole Information

Bore Hole ID:	10071887	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684565.10
Code OB Desc:		**North83:**	4864323.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	07-Jan-1970 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931146999
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	156.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931147000
Layer:	2

Color:	8
General Color:	BLACK
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	156.0
Formation End Depth:	295.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961902833
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10620457
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930129416
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	156.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930129417
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	295.0
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991902833
Pump Set At:	
Static Level:	70.0
Final Level After Pumping:	295.0
Recommended Pump Depth:	250.0
Pumping Rate:	2.0
Flowing Rate:	
Recommended Pump Rate:	2.0
Levels UOM:	ft

Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934920963
Test Type:	Recovery
Test Duration:	60
Test Level:	215.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934127961
Test Type:	Recovery
Test Duration:	15
Test Level:	275.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934410479
Test Type:	Recovery
Test Duration:	30
Test Level:	255.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934671011
Test Type:	Recovery
Test Duration:	45
Test Level:	235.0
Test Level UOM:	ft

Water Details

Water ID:	933513397
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	156.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	*1 of 1*	*S/111.9*	*119.8 / 2.05*	***WEST BOWMANVILLE DEV. LTD. BONNYCASTLE DR./GLEN RAY COURT NEWCASTLE TOWN ON***	*CA*

Certificate #:	3-0717-93-
Application Year:	93
Issue Date:	7/5/1993
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

13 **1 of 1** **N/118.3** **119.9 / 2.10** **ON** **BORE**

Borehole ID:	831617	**Inclin FLG:**	No
OGF ID:	215577909	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	21-JUN-1968	**Municipality:**	
Static Water Level:		**Lot:**	14 & 15
Primary Water Use:		**Township:**	Darlington
Sec. Water Use:		**Latitude DD:**	43.909119
Total Depth m:	15.7	**Longitude DD:**	-78.701092
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	684596
Drill Method:	Boring	**Northing:**	4864348
Orig Ground Elev m:	123	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	122		
Concession:	1		
Location D:	CPR (BOWMANVILLE N LTS) * OVERHEAD		
Survey D:			
Comments:	W.L - no water; hole caved to 6.71m		

Borehole Geology Stratum

Geology Stratum ID:	6007358	**Mat Consistency:**	Very Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	15.7	**Material Texture:**	
Material Color:	Brown-Grey	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Heterogeneous mixture of clay, silt, sand and gravel, occasional boulders throughout, very dense or hard, brown to grey **Note: Many records provided by the department have a truncated [Stratum Description] field.		

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14 **1 of 1** **N/121.2** **119.8 / 2.05** **ON** **BORE**

Borehole ID:	831618	**Inclin FLG:**	No
OGF ID:	215577910	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	03-JUL-1968	**Municipality:**	
Static Water Level:	0.9	**Lot:**	14 & 15
Primary Water Use:		**Township:**	Darlington
Sec. Water Use:		**Latitude DD:**	43.909115
Total Depth m:	9.6	**Longitude DD:**	-78.701353
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	684575
Drill Method:	Boring	**Northing:**	4864347
Orig Ground Elev m:	115	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres

DEM Ground Elev m: 120
Concession: 1
Location D: CPR (BOWMANVILLE N LTS) * OVERHEAD
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	6007359	**Mat Consistency:**	Firm
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	9.6	**Material Texture:**	
Material Color:	Brown-Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial

Gsc Material Description:
Stratum Description: Glacial till - Het. mixture of clay, silt, sand & gravel, occasional boulders up to 0.2m in diameter throughout, trace of organics at about 1.34 m depth, firm to hard, brown to grey **Note: Many records provided by the department have a truncated [Stratum Description] field.

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15 | 1 of 1 | SE/123.6 | 119.8 / 2.05 | ON | WWIS

Well ID:	1900040	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	8/5/1964
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2113
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	BOWMANVILLE TOWN
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1900040.pdf

Additional Detail(s) (Map)

Well Completed Date:	1964/06/29
Year Completed:	1964
Depth (m):	12.8016
Latitude:	43.9061514178426
Longitude:	-78.6994737659948
Path:	190\1900040.pdf

Bore Hole Information

Bore Hole ID:	10069108	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684735.10
Code OB Desc:		**North83:**	4864022.00

Open Hole:
Cluster Kind:
Date Completed: 29-Jun-1964 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 931135601
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 28.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135599
Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135600
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 09
Mat2 Desc: MEDIUM SAND
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 1.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:	961900040
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10617678
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930126332
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	27.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933328650
Layer:	1
Slot:	
Screen Top Depth:	27.0
Screen End Depth:	42.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	991900040
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	37.0
Recommended Pump Depth:	38.0
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	4.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933510568
Layer:	1

Kind Code:	1
Kind:	FRESH
Water Found Depth:	28.0
Water Found Depth UOM:	ft

16 **1 of 1** **SE/125.6** **119.8 / 2.05** **ON** **WWIS**

Well ID:	1900026	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:		**Date Received:**	3/9/1959
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Abandoned-Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2202
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	BOWMANVILLE TOWN
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1900026.pdf

Additional Detail(s) (Map)

Well Completed Date:	1959/02/12
Year Completed:	1959
Depth (m):	54.864
Latitude:	43.9061069371661
Longitude:	-78.6995003856494
Path:	190\1900026.pdf

Bore Hole Information

Bore Hole ID:	10069094	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684733.10
Code OB Desc:		**North83:**	4864017.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	12-Feb-1959 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 931135549

Layer: 8
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 161.0
Formation End Depth: 162.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135542
Layer: 1
Color:
General Color:
Mat1: 23
Most Common Material: PREVIOUSLY DUG
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135550
Layer: 9
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 162.0
Formation End Depth: 180.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135545
Layer: 4
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 61.0
Formation End Depth: 62.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	931135546
Layer:	5
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	62.0
Formation End Depth:	98.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135548
Layer:	7
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	101.0
Formation End Depth:	161.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135547
Layer:	6
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	98.0
Formation End Depth:	101.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135543
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	13

Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	32.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135544
Layer:	3
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	32.0
Formation End Depth:	61.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961900026
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10617664
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930126313
Layer:	1
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

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17 ***1 of 1*** ***N/132.2*** ***119.8 / 2.05*** ***ON*** ***BORE***

Borehole ID:	831619	**Inclin FLG:**	No
OGF ID:	215577911	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	04-JUL-1968	**Municipality:**	
Static Water Level:		**Lot:**	14 & 15
Primary Water Use:		**Township:**	Darlington

Sec. Water Use:		**Latitude DD:**	43.909238
Total Depth m:	6.6	**Longitude DD:**	-78.701187
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	684588
Drill Method:	Boring	**Northing:**	4864361
Orig Ground Elev m:	115	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	119		
Concession:	1		
Location D:	CPR (BOWMANVILLE N LTS) * OVERHEAD		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6007360	**Mat Consistency:**	Stiff
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	6.6	**Material Texture:**	
Material Color:	Brown-Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Glacial till - heterogeneous mixture of clay, silt, sand and gravel, trace of organics at about 1.28m, stiff to hard, brown to grey **Note: Many records provided by the department have a truncated [Stratum Description] field.		

---

18 | ***1 of 1*** | ***N/138.1*** | ***119.8 / 2.05*** | ***ON*** | ***BORE***

Borehole ID:	831621	**Inclin FLG:**	No
OGF ID:	215577913	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	28-JUN-1968	**Municipality:**	
Static Water Level:	0.8	**Lot:**	14 & 15
Primary Water Use:		**Township:**	Darlington
Sec. Water Use:		**Latitude DD:**	43.909261
Total Depth m:	6.6	**Longitude DD:**	-78.70141
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	684570
Drill Method:	Boring	**Northing:**	4864363
Orig Ground Elev m:	115	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	118		
Concession:	1		
Location D:	CPR (BOWMANVILLE N LTS) * OVERHEAD		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6007362	**Mat Consistency:**	Very Stiff
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	6.6	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Glacial till - Het. mixture of clay, silt, sand and gravel, occasional boulders up to 0.15m diameter throughout, trace		

of organics at about 1.37m depth, very stiff to hard or very dense, grey **Note: Many records provided by the department have a truncated [Stratum Description] field.

19 | 1 of 1 | ESE/145.9 | 111.8 / -6.00 | ON | WWIS

Well ID:	1900027	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	5/2/1961
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	5422
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	BOWMANVILLE TOWN
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1900027.pdf

Additional Detail(s) (Map)

Well Completed Date:	1959/02/14
Year Completed:	1959
Depth (m):	48.768
Latitude:	43.9068031125565
Longitude:	-78.6987512867459
Path:	190\1900027.pdf

Bore Hole Information

Bore Hole ID:	10069095	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684791.10
Code OB Desc:		**North83:**	4864096.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	14-Feb-1959 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931135551
Layer:	1
Color:	2

General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135552
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20.0
Formation End Depth:	160.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961900027
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10617665
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930126314
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	160.0
Casing Diameter:	7.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991900027
Pump Set At:	
Static Level:	14.0
Final Level After Pumping:	60.0
Recommended Pump Depth:	

Pumping Rate:	24.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	14
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933510555
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	90.0
Water Found Depth UOM:	ft

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20 ***1 of 1*** ***N/147.8*** ***119.7 / 1.91*** ***ON*** ***BORE***

Borehole ID:	831620	**Inclin FLG:**	No
OGF ID:	215577912	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	05-JUL-1968	**Municipality:**	
Static Water Level:		**Lot:**	14 & 15
Primary Water Use:		**Township:**	Darlington
Sec. Water Use:		**Latitude DD:**	43.909374
Total Depth m:	9.6	**Longitude DD:**	-78.701244
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	684583
Drill Method:	Boring	**Northing:**	4864376
Orig Ground Elev m:	115	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	118		
Concession:	1		
Location D:	CPR (BOWMANVILLE N LTS) * OVERHEAD		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	6007361	**Mat Consistency:**	Compact
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	9.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Glacial till - Het. mixture of clay, silt, sand and gravel, occasional boulders up to 0.20m diameter throughout, compact to very dense or hard **Note: Many records provided by the department have a truncated [Stratum Description] field.		

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21 ***1 of 1*** ***N/153.4*** ***119.8 / 2.05*** ***HIGHWAY 57 AND HIGHWAY 2 BOWMANVILLE ON*** ***WWIS***

Well ID:	7259230	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring and Test Hole	**Date Received:**	3/14/2016
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Monitoring and Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	7247
Casing Material:		**Form Version:**	7
Audit No:	Z214095	**Owner:**	
Tag:	A179559	**Street Name:**	HIGHWAY 57 AND HIGHWAY 2
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	NEWCASTLE TOWN (DARLINGTON)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/725\7259230.pdf

Additional Detail(s) (Map)

Well Completed Date:	2015/05/19
Year Completed:	2015
Depth (m):	9.144
Latitude:	43.9093800085058
Longitude:	-78.7015299584654
Path:	725\7259230.pdf

Bore Hole Information

Bore Hole ID:	1005906827	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684560.00
Code OB Desc:		**North83:**	4864376.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	19-May-2015 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006033578
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	66
Mat3 Desc:	DENSE

Formation Top Depth: 22.0
Formation End Depth: 25.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006033579
Layer: 4
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 25.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006033576
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 0.0
Formation End Depth: 7.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006033577
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2:
Mat2 Desc:
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 7.0
Formation End Depth: 22.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006033587
Layer: 1
Plug From: 0.0
Plug To: 24.0

Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1006033586
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1006033575
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006033582
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 25.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006033583
Layer: 1
Slot: 10
Screen Top Depth: 25.0
Screen End Depth: 30.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.125

Water Details

Water ID: 1006033581
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 24.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1006033580
Diameter: 8.25
Depth From: 0.0
Depth To: 30.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	1 of 1	N/156.7	119.8 / 2.05	ON	BORE

Borehole ID:	831622	**Inclin FLG:**	No
OGF ID:	215577914	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	25-JUN-1968	**Municipality:**	
Static Water Level:		**Lot:**	14 & 15
Primary Water Use:		**Township:**	Darlington
Sec. Water Use:		**Latitude DD:**	43.909424
Total Depth m:	15.4	**Longitude DD:**	-78.701466
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	684565
Drill Method:	Boring	**Northing:**	4864381
Orig Ground Elev m:	123	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	119		
Concession:	1		
Location D:	CPR (BOWMANVILLE N LTS) * OVERHEAD		
Survey D:			
Comments:	No water level; hole caved to 8.08m		

Borehole Geology Stratum

Geology Stratum ID:	6007363	**Mat Consistency:**	Hard
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	15.4	**Material Texture:**	
Material Color:	Brown-Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Glacial till - Het. mixture of clay, silt, sand and gravel, occasional boulders up to 0.2m diameter throughout, hard or very dense, brown to grey **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	1 of 4	S/168.9	119.8 / 2.05	LAWN RANGERS (BOWMANVILLE) 105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C 4W6	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:		**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF Link:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	2 of 4	S/168.9	119.8 / 2.05	LAWN RANGERS (BOWMANVILLE) 105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C 4W6	PES

Detail Licence No:		Operator Box:	
Licence No:		Operator Class:	
Status:		Operator No:	
Approval Date:		Operator Type:	
Report Source:		Oper Area Code:	
Licence Type:	Operator	Oper Phone No:	
Licence Type Code:	02	Operator Ext:	
Licence Class:		Operator Lot:	
Licence Control:		Oper Concession:	
Latitude:		Operator Region:	
Longitude:		Operator District:	
Lot:		Operator County:	
Concession:		Op Municipality:	
Region:		Post Office Box:	
District:		MOE District:	
County:		SWP Area Name:	
Trade Name:			
PDF Link:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	3 of 4	S/168.9	119.8 / 2.05	LAWN RANGERS (BOWMANVILLE) 105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C4W6	PES

Detail Licence No:		Operator Box:	
Licence No:	04638	Operator Class:	
Status:		Operator No:	
Approval Date:		Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)	Oper Area Code:	905
Licence Type:	Operator	Oper Phone No:	6973737
Licence Type Code:	02	Operator Ext:	
Licence Class:	01	Operator Lot:	
Licence Control:		Oper Concession:	
Latitude:		Operator Region:	
Longitude:		Operator District:	
Lot:		Operator County:	
Concession:		Op Municipality:	
Region:		Post Office Box:	
District:		MOE District:	
County:		SWP Area Name:	
Trade Name:			
PDF Link:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	4 of 4	S/168.9	119.8 / 2.05	LAWN RANGERS (BOWMANVILLE) 105 BONNYCASTLE DRIVE BOWMANVILLE ON L1C4W6	PES

Detail Licence No:		Operator Box:	
Licence No:	04638	Operator Class:	
Status:		Operator No:	
Approval Date:		Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)	Oper Area Code:	905
Licence Type:	Operator	Oper Phone No:	6973737
Licence Type Code:	01	Operator Ext:	
Licence Class:	06	Operator Lot:	
Licence Control:		Oper Concession:	

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

Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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24 | ***1 of 2*** | ***SW/172.0*** | ***118.0 / 0.16*** | ***MARTIN ROAD HOLDINGS LIMITED FRY CRES.E./ASPEN SPRINGS BLVD CLARINGTON MUNICIPALITY ON*** | ***CA***

Certificate #: 3-0429-94-
Application Year: 94
Issue Date: 5/11/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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24 | ***2 of 2*** | ***SW/172.0*** | ***118.0 / 0.16*** | ***MARTIN ROAD HOLDINGS LIMITED FRY CRES.E./ASPEN SPRINGS BLVD CLARINGTON MUNICIPALITY ON*** | ***CA***

Certificate #: 7-0320-94-
Application Year: 94
Issue Date: 5/11/1994
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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25 | ***1 of 4*** | ***SSE/174.8*** | ***119.8 / 2.05*** | ***Apple Tree Dentistry Bowmanville 1550 Bowmanville Avenue Unit 7 Bowmanville ON L1C3K7*** | ***GEN***

Generator No: ON6480718
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		312 P			
Waste Class Desc:		Pathological wastes			

25	2 of 4	SSE/174.8	119.8 / 2.05	**Aspen Springs Animal Hospital** **1550 Bowmanville Ave, Unit 9** **Bowmanville ON L1C 6N5**	GEN

Generator No: ON8939130
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

25	3 of 4	SSE/174.8	119.8 / 2.05	**Aspen Springs Animal Hospital** **1550 Bowmanville Ave, Unit 9** **Bowmanville ON L1C 6N5**	GEN

Generator No: ON8939130
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

25	4 of 4	SSE/174.8	119.8 / 2.05	**Apple Tree Dentistry Bowmanville** **1550 Bowmanville Avenue Unit 7** **Bowmanville ON L1C3K7**	GEN

Generator No: ON6480718
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

26	1 of 10	SSE/187.2	119.8 / 2.05	**Aspen Springs Animal Hospital** **39 Martin Rd, Unit 9** **Bowmanville ON L1C 3K7**	GEN

Generator No: ON8939130
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2010
PO Box No:

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Country:				**MHSW Facility:**	

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

26	2 of 10	SSE/187.2	119.8 / 2.05	**Aspen Springs Animal Hospital** **39 Martin Rd, Unit 9** **Bowmanville ON L1C 3K7**	GEN

Generator No: ON8939130
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

26	3 of 10	SSE/187.2	119.8 / 2.05	**Aspen Springs Animal Hospital** **39 Martin Rd, Unit 9** **Bowmanville ON L1C 3K7**	GEN

Generator No: ON8939130
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

26	4 of 10	SSE/187.2	119.8 / 2.05	**Aspen Springs Animal Hospital** **39 Martin Rd, Unit 9** **Bowmanville ON**	GEN

Generator No: ON8939130
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

26	5 of 10	SSE/187.2	119.8 / 2.05	**Apple Tree Dentistry** **39 Martin Rd** **Bowmanville ON L1C3K7**	GEN

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

Generator No:	ON6480718	**Status:**	
SIC Code:	621210	**Co Admin:**	Hilary Barnes
SIC Description:	OFFICES OF DENTISTS	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2016	**Phone No Admin:**	9056233938 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

26	6 of 10	SSE/187.2	119.8 / 2.05	**Apple Tree Dentistry** **39 Martin Rd** **Bowmanville ON L1C3K7**	GEN

Generator No:	ON6480718	**Status:**	
SIC Code:	621210	**Co Admin:**	Hilary Barnes
SIC Description:	OFFICES OF DENTISTS	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Phone No Admin:**	9056233938 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

26	7 of 10	SSE/187.2	119.8 / 2.05	**Aspen Springs Animal Hospital** **39 Martin Rd, Unit 9** **Bowmanville ON L1C 3K7**	GEN

Generator No:	ON8939130	**Status:**	
SIC Code:	541940	**Co Admin:**	Gabrielle Benzaquen
SIC Description:	VETERINARY SERVICES	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2016	**Phone No Admin:**	905 623 0020 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

26	8 of 10	SSE/187.2	119.8 / 2.05	**Aspen Springs Animal Hospital** **39 Martin Rd, Unit 9** **Bowmanville ON L1C 3K7**	GEN

Generator No:	ON8939130	**Status:**	
SIC Code:	541940	**Co Admin:**	Gabrielle Benzaquen
SIC Description:	VETERINARY SERVICES	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Phone No Admin:**	905 623 0020 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	9 of 10	SSE/187.2	119.8 / 2.05	Aspen Springs Animal Hospital 39 Martin Rd, Unit 9 Bowmanville ON L1C 3K7	GEN

Generator No:	ON8939130	**Status:**	
SIC Code:	541940	**Co Admin:**	Gabrielle Benzaquen
SIC Description:	VETERINARY SERVICES	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2014	**Phone No Admin:**	905 623 0020 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	10 of 10	SSE/187.2	119.8 / 2.05	Apple Tree Dentistry Bowmanville 39 Martin Rd Bowmanville ON L1C3K7	GEN

Generator No:	ON6480718	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Dec 2018	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	312 P
Waste Class Desc:	Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
27	1 of 1	N/193.1	116.7 / -1.05	lot 14 con 1 ON	WWIS

Well ID:	1906829	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Public	**Date Received:**	2/6/1984
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2214
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	NEWCASTLE TOWN (DARLINGTON)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	014
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1906829.pdf

Additional Detail(s) (Map)

Well Completed Date: 1983/09/05

Year Completed:	1983
Depth (m):	16.1544
Latitude:	43.909794048226
Longitude:	-78.7010768949018
Path:	190\1906829.pdf

Bore Hole Information

Bore Hole ID:	10075493	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684595.10
Code OB Desc:		**North83:**	4864423.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	05-Sep-1983 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931162642
Layer:	4
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	60
Mat3 Desc:	CEMENTED
Formation Top Depth:	40.0
Formation End Depth:	45.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931162641
Layer:	3
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	84
Mat3 Desc:	SILTY
Formation Top Depth:	30.0
Formation End Depth:	40.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931162643

Layer:	5
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	45.0
Formation End Depth:	46.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931162639
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	81
Mat2 Desc:	SANDY
Mat3:	79
Mat3 Desc:	PACKED
Formation Top Depth:	0.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931162640
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	60
Mat3 Desc:	CEMENTED
Formation Top Depth:	15.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931162644
Layer:	6
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	46.0
Formation End Depth:	53.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961906829
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	10624063
Casing No:	1
Comment:	
Alt Name:	

Results of Well Yield Testing

Pump Test ID:	991906829
Pump Set At:	
Static Level:	25.0
Final Level After Pumping:	35.0
Recommended Pump Depth:	51.0
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	3.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934923864
Test Type:	Recovery
Test Duration:	60
Test Level:	30.0
Test Level UOM:	ft

Water Details

Water ID:	933517363
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	45.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933517362
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	30.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	1 of 1	ESE/194.8	115.5 / -2.28	ON	WWIS

Well ID:	1900015	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	10/4/1955
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2113
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	BOWMANVILLE TOWN
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1900015.pdf

Additional Detail(s) (Map)

Well Completed Date:	1955/09/28
Year Completed:	1955
Depth (m):	17.3736
Latitude:	43.9059087098017
Longitude:	-78.6985989699579
Path:	190\1900015.pdf

Bore Hole Information

Bore Hole ID:	10069083	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684806.10
Code OB Desc:		**North83:**	4863997.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	28-Sep-1955 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931135500
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY

Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20.0
Formation End Depth:	32.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135501
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	32.0
Formation End Depth:	57.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135499
Layer:	1
Color:	
General Color:	
Mat1:	23
Most Common Material:	PREVIOUSLY DUG
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961900015
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10617653
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930126297
Layer:	1
Material:	1

Open Hole or Material:	STEEL
Depth From:	
Depth To:	57.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991900015
Pump Set At:	
Static Level:	22.0
Final Level After Pumping:	48.0
Recommended Pump Depth:	
Pumping Rate:	3.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933510546
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	32.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	1 of 1	SSW/195.2	118.1 / 0.29	17 Fry Cres BOWMANVILLE ON L1C 4Y2	HINC

External File Num:	FS INC 0706-03261
Fuel Occurrence Type:	CO Release
Date of Occurrence:	6/25/2007
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Private Dwelling
Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	Root Cause: Equipment/Material/Component:Yes Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:No
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Near-miss
Affiliation:	Safety Authorities (MOL, ESA, Insurers, etc.)
County Name:	Durham
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	1 of 1	N/204.7	119.1 / 1.28	HWY 2 AND REGIONAL ROAD 57 lot 15 con 1 BOWMANVILLE ON	WWIS

Well ID: 7336983
Construction Date:
Primary Water Use: Test Hole
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z311577
Tag: A269562
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/10/2019
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7644
Form Version: 7
Owner:
Street Name: HWY 2 AND REGIONAL ROAD 57
County: DURHAM
Municipality: NEWCASTLE TOWN (DARLINGTON)
Site Info:
Lot: 015
Concession: 01
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/733\7336983.pdf

Additional Detail(s) (Map)

Well Completed Date: 2019/05/15
Year Completed: 2019
Depth (m): 9.144
Latitude: 43.9098650625863
Longitude: -78.7014739212485
Path: 733\7336983.pdf

Bore Hole Information

Bore Hole ID: 1007516920
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 15-May-2019 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 684563.00
North83: 4864430.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1008201682
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM:

Overburden and Bedrock Materials Interval

Formation ID: 1008201683
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008201681
Layer: 1
Color:
General Color:
Mat1: 06
Most Common Material: SILT
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth:
Formation End Depth UOM:

Annular Space/Abandonment Sealing Record

Plug ID: 1008202402
Layer: 1
Plug From:
Plug To:
Plug Depth UOM:

Annular Space/Abandonment Sealing Record

Plug ID: 1008202405
Layer: 3
Plug From: 24.0
Plug To: 30.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008202403
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008202404
Layer:	2
Plug From:	0.0
Plug To:	24.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008203290
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1008201109
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008203535
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	25.0
Casing Diameter:	0.75
Casing Diameter UOM:	Inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008203784
Layer:	1
Slot:	10
Screen Top Depth:	25.0
Screen End Depth:	30.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	1.125

Results of Well Yield Testing

Pump Test ID:	1008204084
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	

Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1008204018
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth:
Water Found Depth UOM:

Hole Diameter

Hole ID: 1008202998
Diameter: 8.0
Depth From: 0.0
Depth To: 30.0
Hole Depth UOM: ft
Hole Diameter UOM: Inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
31	1 of 1	E/223.6	106.9 / -10.85	ENBRIDGE GAS INC 111 TREWIN LN,,BOWMANVILLE,ON,L1C 4X3, CA ON	PINC

Incident ID:
Incident No: 2949530
Incident Reported Dt: 10/26/2020
Type: FS-Pipeline Incident
Status Code:
Tank Status: Pipeline Damage Reason Est
Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt:
Depth:
Customer Acct Name: ENBRIDGE GAS INC
Incident Address: 111 TREWIN LN,,BOWMANVILLE,ON,L1C 4X3,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:

Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:
Attribute Category:
Regulator Location:
Method Details:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	1 of 1	WNW/230.6	118.9 / 1.08	@ corner of Prince William & Pethick st.	SPL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Clarington ON	

Ref No:	7410-6Y87AR	***Discharger Report:***	
Site No:		***Material Group:***	Chemicals
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Discharges	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:	24	***Nearest Watercourse:***	
Contaminant Name:	ETHYLENE GLYCOL (ANTIFREEZE)	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Clarington
Nature of Impact:	Other Impact(s); Surface Water Pollution	***Site Lot:***	
Receiving Medium:	Water	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/7/2007	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	Unknown - Reason not determined	***Source Type:***	
Site Name:	Priv. Res. <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Clarington: Antifreeze to CB(<5L)		
Contaminant Qty:	5 L		

33	*1 of 1*	*SE/243.7*	*119.8 / 2.06*	*50 MARTIN ROAD REG RD 57 lot 14 con 1 BOWMANVILLE ON*	*WWIS*

Well ID:	7174957	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	1/13/2012
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	2662
Casing Material:		***Form Version:***	7
Audit No:	Z136841	***Owner:***	
Tag:	A108591	***Street Name:***	50 MARTIN ROAD REG RD 57
Construction Method:		***County:***	DURHAM
Elevation (m):		***Municipality:***	NEWCASTLE TOWN (DARLINGTON)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	014
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/717\7174957.pdf

Additional Detail(s) (Map)

Well Completed Date:	2011/09/13
Year Completed:	2011
Depth (m):	
Latitude:	43.9051562978956
Longitude:	-78.6987911026236
Path:	717\7174957.pdf

Bore Hole Information

Bore Hole ID:	1003633083	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	684793.00
Code OB Desc:		***North83:***	4863913.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	13-Sep-2011 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1004128135
Layer:	1
Plug From:	40.0
Plug To:	38.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004128137
Layer:	3
Plug From:	37.0
Plug To:	6.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004128139
Layer:	5
Plug From:	5.5
Plug To:	0.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004128138
Layer:	4
Plug From:	6.0
Plug To:	5.5
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004128136
Layer:	2
Plug From:	38.0

Plug To:	37.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004128134
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1004128128
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004128132
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004128133
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1004128131
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004128130
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	1 of 1	SSW/243.8	116.6 / -1.17	lot 15 con 1 ON	WWIS

Well ID:	1908709	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	12/9/1987
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3129
Casing Material:		**Form Version:**	1
Audit No:	12166	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	NEWCASTLE TOWN (DARLINGTON)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	015
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1908709.pdf

Additional Detail(s) (Map)

Well Completed Date:	1987/11/17
Year Completed:	1987
Depth (m):	9.144
Latitude:	43.9045519208074
Longitude:	-78.7018640167895
Path:	190\1908709.pdf

Bore Hole Information

Bore Hole ID:	10077338	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684548.10
Code OB Desc:		**North83:**	4863839.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	17-Nov-1987 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931171314
Layer:	3
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11

Mat2 Desc:	GRAVEL
Mat3:	91
Mat3 Desc:	WATER-BEARING
Formation Top Depth:	23.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931171312
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931171313
Layer:	2
Color:	
General Color:	
Mat1:	26
Most Common Material:	ROCK
Mat2:	01
Mat2 Desc:	FILL
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	1.0
Formation End Depth:	23.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961908709
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	10625908
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930135214
Layer:	1
Material:	3
Open Hole or Material:	CONCRETE

Depth From:
Depth To: 30.0
Casing Diameter: 30.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991908709
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 21.0
Recommended Pump Depth: 29.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 4.0
Levels UOM: ft
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

Draw Down & Recovery

Pump Test Detail ID: 934408563
Test Type: Draw Down
Test Duration: 30
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934127729
Test Type: Draw Down
Test Duration: 15
Test Level: 22.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934920756
Test Type: Draw Down
Test Duration: 60
Test Level: 26.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934667933
Test Type: Draw Down
Test Duration: 45
Test Level: 25.0
Test Level UOM: ft

Water Details

Water ID: 933519337
Layer: 1

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

Kind Code: 1
Kind: FRESH
Water Found Depth: 23.0
Water Found Depth UOM: ft

---

35 **1 of 2** **SSW/250.0** **116.2 / -1.55** **The Corporation of the Municipality of Clarington** **ECA**

Clarington ON L1C 3A6

Approval No: 8261-76JGPK
Approval Date: 2007-08-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Central Lake Ontario
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Corporation of the Municipality of Clarington
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7976-76HLGA-14.pdf
PDF Site Location:
MOE District: York-Durham
City:
Longitude: -78.7019
Latitude: 43.9045
Geometry X:
Geometry Y:

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35 **2 of 2** **SSW/250.0** **116.2 / -1.55** **The Regional Municipality of Durham** **ECA**

Clarington ON L1N 6A3

Approval No: 4785-76JGPR
Approval Date: 2007-08-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Central Lake Ontario
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Durham
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0659-76GSAS-14.pdf
PDF Site Location:
MOE District: York-Durham
City:
Longitude: -78.7019
Latitude: 43.9045
Geometry X:
Geometry Y:

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36 **1 of 1** **N/257.8** **117.6 / -0.19** **1 Martin Road Bowmanville ON** **EHS**

Order No: 20130220004
Status: C
Report Type: Standard Report
Report Date: 28-FEB-13
Date Received: 20-FEB-13
Previous Site Name: Rural residential/ agricultural
Lot/Building Size: approx. 2.4ha
Additional Info Ordered: Fire Insur. Maps and/or Site Plans
Nearest Intersection:
Municipality: Clarington (Former Darlington Township)
Client Prov/State: ON
Search Radius (km): .25
X: 0
Y: 0

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37 **1 of 1** **ESE/259.4** **106.6 / -11.20** **ON** **WWIS**

Well ID: 1900014
Construction Date:
Primary Water Use: Domestic
Data Entry Status:
Data Src: 1
Date Received: 10/4/1955

Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2113
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	BOWMANVILLE TOWN
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1900014.pdf

Additional Detail(s) (Map)

Well Completed Date:	1955/09/26
Year Completed:	1955
Depth (m):	18.288
Latitude:	43.9061570334143
Longitude:	-78.6975184529611
Path:	190\1900014.pdf

Bore Hole Information

Bore Hole ID:	10069082	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684892.10
Code OB Desc:		**North83:**	4864027.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	26-Sep-1955 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931135496
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135498
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	34.0
Formation End Depth:	60.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135497
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	34.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961900014
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10617652
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930126296
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	60.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991900014
Pump Set At:	
Static Level:	22.0
Final Level After Pumping:	55.0
Recommended Pump Depth:	
Pumping Rate:	3.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933510545
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	35.0
Water Found Depth UOM:	ft

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38 | ***1 of 1*** | ***SE/259.9*** | ***120.4 / 2.58*** | ***50 Martin Rd Clarington On Clarington ON L1C3K7*** | ***EHS***

Order No:	20131105022	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	14-NOV-13	***Search Radius (km):***	.25
Date Received:	05-NOV-13	***X:***	-78.699079
Previous Site Name:		***Y:***	43.904858
Lot/Building Size:	1.28 hectares		
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

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39 | ***1 of 1*** | ***NNW/262.3*** | ***119.8 / 2.05*** | ***S/E CORNER OF HWY #2 & HWY #57 lot 14 con 2 BOWMANVILLE ON*** | ***WWIS***

Well ID:	7039224	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	1/16/2007
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	4102
Casing Material:		***Form Version:***	3
Audit No:	Z56367	***Owner:***	
Tag:		***Street Name:***	S/E CORNER OF HWY #2 & HWY #57
Construction Method:		***County:***	DURHAM
Elevation (m):		***Municipality:***	NEWCASTLE TOWN (DARLINGTON)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	014
Well Depth:		***Concession:***	02
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	

Clear/Cloudy:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/703\7039224.pdf

Additional Detail(s) (Map)

Well Completed Date: 2006/12/02
Year Completed: 2006
Depth (m):
Latitude: 43.9102082123797
Longitude: -78.7024196425214
Path: 703\7039224.pdf

Bore Hole Information

Bore Hole ID: 11761766
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02-Dec-2006 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 684486.00
North83: 4864466.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Method of Construction & Well Use

Method Construction ID: 967039224
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 11769456
Casing No: 1
Comment:
Alt Name:

---

40 | **1 of 1** | **NNE/263.8** | **114.9 / -2.88** | **215 KING STREET WEST BOWMANVILLE ON** | **WWIS**

Well ID: 7295737
Construction Date:
Primary Water Use: Test Hole
Sec. Water Use: Monitoring
Final Well Status: Monitoring and Test Hole
Water Type:
Casing Material:
Audit No: Z268138
Tag: A233855
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:

Data Entry Status:
Data Src:
Date Received: 9/29/2017
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
Street Name: 215 KING STREET WEST
County: DURHAM
Municipality: BOWMANVILLE TOWN
Site Info: WKQ-010306 A0-A02
Lot:

Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/08/23
Year Completed: 2017
Depth (m): 4.572
Latitude: 43.9103613017595
Longitude: -78.7001845336099
Path:

Bore Hole Information

Bore Hole ID: 1006738395
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 23-Aug-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 684665.00
North83: 4864488.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006883554
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006883556
Layer: 3
Color: 2
General Color: GREY
Mat1: 06

Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006883555
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006883566
Layer:	3
Plug From:	4.0
Plug To:	15.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006883564
Layer:	1
Plug From:	0.0
Plug To:	0.5
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006883565
Layer:	2
Plug From:	0.5
Plug To:	4.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006883563
Method Construction Code:	D
Method Construction:	Direct Push
Other Method Construction:	

Pipe Information

Pipe ID:	1006883553
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006883559
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	5.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006883560
Layer:	1
Slot:	10
Screen Top Depth:	5.0
Screen End Depth:	15.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Water Details

Water ID:	1006883558
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006883557
Diameter:	6.0
Depth From:	0.0
Depth To:	15.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

41	*1 of 1*	*SE/265.1*	*120.3 / 2.56*	*ON*	*WWIS*

Well ID:	1900028	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/19/1959
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2202
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	DURHAM

Elevation (m):		**Municipality:**	BOWMANVILLE TOWN
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1900028.pdf

Additional Detail(s) (Map)

Well Completed Date:	1959/04/01
Year Completed:	1959
Depth (m):	32.9184
Latitude:	43.9048106782056
Longitude:	-78.6990646824467
Path:	190\1900028.pdf

Bore Hole Information

Bore Hole ID:	10069096	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684772.10
Code OB Desc:		**North83:**	4863874.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	01-Apr-1959 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931135553
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931135556
Layer:	4

Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 70.0
Formation End Depth: 72.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135555
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 32.0
Formation End Depth: 70.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135554
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 32.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931135558
Layer: 6
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 107.0
Formation End Depth: 108.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	931135557
Layer:	5
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	72.0
Formation End Depth:	107.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961900028
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10617666
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930126315
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	108.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991900028
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	108.0
Recommended Pump Depth:	20.0
Pumping Rate:	1.0
Flowing Rate:	
Recommended Pump Rate:	1.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933510556
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70.0
Water Found Depth UOM:	ft

---

42 | ***1 of 1*** | ***WSW/272.0*** | ***115.8 / -2.03*** | ***Aspen Springs Drive, Bowmanville Bowmanville ON*** | ***EHS***

Order No:	20140131032	***Nearest Intersection:***	
Status:	C	***Municipality:***	Clarington (Former Darlington Township)
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	06-FEB-14	***Search Radius (km):***	.25
Date Received:	31-JAN-14	***X:***	-78.704311
Previous Site Name:	Agricultural	***Y:***	43.905577
Lot/Building Size:			
Additional Info Ordered:			

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43 | ***1 of 1*** | ***ESE/288.9*** | ***109.5 / -8.27*** | ***50 REGIONAL RD 57 CLARINGTON ON*** | ***WWIS***

Well ID:	7306629	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Test Hole	***Date Received:***	2/28/2018
Sec. Water Use:	Monitoring	***Selected Flag:***	TRUE
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7230
Casing Material:		***Form Version:***	7
Audit No:	Z276221	***Owner:***	
Tag:	A226695	***Street Name:***	50 REGIONAL RD 57
Construction Method:		***County:***	DURHAM
Elevation (m):		***Municipality:***	BOWMANVILLE TOWN
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/05/31
Year Completed:	2017
Depth (m):	4.6
Latitude:	43.9053154123471
Longitude:	-78.6977513982545
Path:	

Bore Hole Information

Bore Hole ID:	1006993687	***Elevation:***	
DP2BR:		***Elevrc:***	

Spatial Status:		***Zone:***	17
Code OB:		***East83:***	684876.00
Code OB Desc:		***North83:***	4863933.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	5
Date Completed:	31-May-2017 00:00:00	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007179451
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Mat2 Desc:	SAND
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	0.20000000298023224
Formation End Depth:	2.0999999046325684
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007179450
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Mat2 Desc:	
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	0.20000000298023224
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007179452
Layer:	3
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	2.0999999046325684
Formation End Depth:	4.599999904632568

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007179460
Layer: 1
Plug From: 0.0
Plug To: 2.4000000953674316
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1007179459
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007179449
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007179455
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.8999999761581421
Depth To: 3.0
Casing Diameter: 5.199999809265137
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007179456
Layer: 1
Slot: 5
Screen Top Depth: 3.0
Screen End Depth: 4.599999904632568
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.0

Water Details

Water ID: 1007179454
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 1.5
Water Found Depth UOM: m

Hole Diameter

Hole ID:	1007179453
Diameter:	15.0
Depth From:	0.8999999761581421
Depth To:	4.599999904632568
Hole Depth UOM:	m
Hole Diameter UOM:	cm

44 **1 of 1** **SE/293.2** **110.9 / -6.93** **50 REGIONAL RD 57 CLARINGTON ON** **WWIS**

Well ID:	7306624	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Test Hole	**Date Received:**	2/28/2018
Sec. Water Use:	Monitoring	**Selected Flag:**	TRUE
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7230
Casing Material:		**Form Version:**	7
Audit No:	Z276222	**Owner:**	
Tag:	A226711	**Street Name:**	50 REGIONAL RD 57
Construction Method:		**County:**	DURHAM
Elevation (m):		**Municipality:**	NEWCASTLE TOWN (DARLINGTON)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2017/05/31
Year Completed:	2017
Depth (m):	3.8
Latitude:	43.9051557348231
Longitude:	-78.6978696292813
Path:	

Bore Hole Information

Bore Hole ID:	1006993672	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	684867.00
Code OB Desc:		**North83:**	4863915.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	6
Date Completed:	31-May-2017 00:00:00	**UTMRC Desc:**	margin of error : 300 m - 1 km
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1007179394
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Mat2 Desc:	SILT
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	0.800000011920929
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007179396
Layer:	3
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	1.7999999523162842
Formation End Depth:	3.799999952316284
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007179395
Layer:	2
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.800000011920929
Formation End Depth:	1.7999999523162842
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007179404
Layer:	1
Plug From:	0.0
Plug To:	1.7000000476837158
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID: 1007179403
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007179393
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007179399
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.8999999761581421
Depth To: 2.299999952316284
Casing Diameter: 5.199999809265137
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007179400
Layer: 1
Slot: 5
Screen Top Depth: 2.299999952316284
Screen End Depth: 3.799999952316284
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.0

Water Details

Water ID: 1007179398
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 1.7000000476837158
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1007179397
Diameter: 15.0
Depth From: 0.8999999761581421
Depth To: 3.799999952316284
Hole Depth UOM: m
Hole Diameter UOM: cm

Unplottable Summary

Total: 13 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
DTNK	STANLEY W HUNTER	LOT 15 CON 1 GLENELE TWP E G R	DURHAM ON	
DTNK	STANLEY W HUNTER	LOT 15 CON 1 GLENELE TWP E G R	DURHAM ON	N0G 1R0
DTNK	STANLEY HUNTER	LOT 15 CON 1 GLENELE TWP E G R	DURHAM ON	
DTNK	STANLEY HUNTER	LOT 15 CON 1 GLENELE TWP E G R	DURHAM ON	
DTNK	STANLEY HUNTER	LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA	ON	
DTNK	STANLEY HUNTER	LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA	ON	
DTNK	STANLEY W HUNTER	LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA	ON	
DTNK	STANLEY HUNTER	LOT 15 CON 1 GLENELE TWP E G R	DURHAM ON	
FST	STANLEY HUNTER	LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA	ON	
FST	STANLEY W HUNTER	LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA	ON	
FST	STANLEY HUNTER	LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA	ON	
PRT	STANLEY HUNTER	LOT 15 CON 1 GLENELE TWP E G R	DURHAM ON	
PRT	STANLEY W HUNTER	LOT 15 CON 1 GLENELE TWP E G R	DURHAM ON	

Unplottable Report

Site: ***STANLEY W HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

Database: ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10738670	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	35183	***Facility Location:***	
Instance Type:	FS Piping	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

Site: ***STANLEY W HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM ON N0G 1R0

Database: ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	9724830	***Expired Date:***	8/11/2001
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:		***Facility Location:***	
Instance Type:	FS Facility	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	

Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description:
Original Source: EXP
Record Date: Up to May 2013
Piping Underground:
Tank Underground:
Source:

Site: ***STANLEY HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

Database: ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 9393409
Status: EXPIRED
Instance ID: 384621
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: Fuels Safety Private Fuel Outlet - Self Serve
Original Source: EXP
Record Date: Up to Mar 2012
Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Site: ***STANLEY HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

Database: ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10738637
Status: EXPIRED
Instance ID: 36082
Instance Type: FS Piping
Instance Creation Dt:
Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:

Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Site: ***STANLEY HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA ON

Database: ***DTNK***

Site: ***STANLEY HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA ON

Database: ***DTNK***

Site: ***STANLEY W HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA ON

Database: ***DTNK***

Site: ***STANLEY HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

Database: ***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 10738653
Status: EXPIRED
Instance ID: 33752
Instance Type: FS Piping
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Piping
Original Source: EXP
Record Date: Up to Mar 2012

Site: ***STANLEY HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA ON

Database: ***FST***

Instance No: 10738628
Status:
Cont Name:
Instance Type:
Item: FS LIQUID FUEL TANK
Item Description: FS Liquid Fuel Tank
Tank Type: Liquid Fuel Single Wall UST
Install Date: 12/27/1990
Install Year: 1990
Years in Service:
Model: NULL
Description:
Capacity: 15000
Tank Material: Steel
Corrosion Protect:
Overfill Protect:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type: Gasoline
Fuel Type2: NULL
Fuel Type3: NULL
Piping Steel:
Piping Galvanized:
Tanks Single Wall St:
Piping Underground:
Num Underground:
Panam Related:
Panam Venue:

Fuel Storage Tank Details

Owner Account Name: STANLEY HUNTER

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: STANLEY HUNTER
Item: FS LIQUID FUEL TANK

Site: ***STANLEY W HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA ON

Database: ***FST***

Instance No: 10738661
Status:
Cont Name:
Instance Type:
Item: FS LIQUID FUEL TANK
Item Description: FS Liquid Fuel Tank
Tank Type: Liquid Fuel Single Wall UST
Install Date: 4/30/1992
Install Year: 1990
Years in Service:
Model: NULL
Description:
Capacity: 15000
Tank Material: Steel
Corrosion Protect:
Overfill Protect:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type: Gasoline
Fuel Type2: NULL
Fuel Type3: NULL
Piping Steel:
Piping Galvanized:
Tanks Single Wall St:
Piping Underground:
Num Underground:
Panam Related:
Panam Venue:

Fuel Storage Tank Details

Owner Account Name: STANLEY W HUNTER

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: STANLEY W HUNTER
Item: FS LIQUID FUEL TANK

Site: ***STANLEY HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA ON

Database: ***FST***

Instance No:	10738646	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Diesel
Tank Type:	Liquid Fuel Single Wall UST	***Fuel Type2:***	NULL
Install Date:	12/27/1990	***Fuel Type3:***	NULL
Install Year:	1990	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	2200	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA

Fuel Storage Tank Details

Owner Account Name: STANLEY HUNTER

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: STANLEY HUNTER
Item: FS LIQUID FUEL TANK

Site: ***STANLEY HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

Database: ***PRT***

Location ID: 4274
Type: private
Expiry Date:
Capacity (L): 17200.00
Licence #: 0001052755

Site: ***STANLEY W HUNTER***
LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

Database: ***PRT***

Location ID: 4274
Type: retail
Expiry Date: 1995-08-31
Capacity (L): 15000
Licence #: 0051900001

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Jul 2021

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Jan 31, 2022

Drill Hole Database: Provincial DRL

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

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

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

Government Publication Date: May 31, 2021

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- Jan 31, 2021

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, 2022

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011- Jan 31, 2021

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

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: May 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

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

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

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

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Nov 30, 2021

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994 - Jan 31, 2022

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: Oct 2011- Jan 31, 2021

Pipeline Incidents: Provincial PINC

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

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994 - Jan 31, 2022

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

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

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

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

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2019

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

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

Government Publication Date: May 31, 2021

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- Jan 31, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Sep 30, 2021

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX D

Correspondence with Regulatory Agencies

Amanda Grossi

From: Public Information Services <publicinformationservices@tssa.org>
Sent: March 7, 2022 2:21 PM
To: Amanda Grossi
Subject: RE: 21-0136.06 - TSSA - 10 Aspen Springs Dr., Bowmanville, ON.

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

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Mariah

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Amanda Grossi

<agrossi@wattersenvironmental.com>
Sent: March 7, 2022 12:29 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: 21-0136.06 - TSSA - 10 Aspen Springs Dr., Bowmanville, ON.

Hello,

Can you please check your records for information regarding any historical or current ASTs or USTs or inspection conducted at: 10 Aspen Springs Dr., Bowmanville, Ontario

Thank you,

Amanda Grossi

Director of First Impressions

Special Note: Due to the ongoing impacts of COVID-19, our staff are working remotely from home. As per the Provincial directive, our company remains open.

Watters Environmental Group Inc.
9135 Keele Street, Unit A1
Concord, Ontario
L4K 0J4

Tel: (416) 361-2407 ext. 200
Fax: (416) 361-2410

http://www.wattersenvironmental.com

Ontario

Ministry of the Environment, Conservation and Parks

Freedom of Information Request for Property Information

Instructions

Use this form to:

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

Fields marked with an asterisk (*) are mandatory.

Are you: *

☑ Submitting a new FOI Request for Property Information

☐ Paying a deposit or final fee for an existing FOI Request for Property Information

Section 1 – Description of Records Requested

Time Period for Records Requested

From (yyyy/mm/dd) * 1900/01/01

To (yyyy/mm/dd) * 2022/03/07

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

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Pesticide Licenses

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

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Permits to Take Water

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

Water Source *

☑ Groundwater ☑ Surface Water

☑ Noise Vibrations Approvals/Registrations

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Air Emissions Approvals/Registrations

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

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

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

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

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Waste Water - Industrial discharge

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

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

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

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

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

Company Name

☑ Waste Generator Registration - number/class

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

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

Section 2 – Requester Information

Last Name * Grossi

First Name * Amanda

Middle Initial

Business/Organization Name (if applicable or indicate "N/A") * Watters Environmental Group Inc.

Project/Reference Number (if applicable) 21-0136.06

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

☐ Yes ☑ No

Mailing Address

Unit Number A1

Street Number * 9135

Street Name * Keele Street

PO Box

City/Town * Concord

Province * ON

Postal Code * L4K 0J4

Telephone Number * 416-361-2407 ext. 200

Email Address * agrossi@wattersenvironmental.com

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

☐ Yes ☑ No

Section 3 – Current Property Address Information

Is the property a:

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

Are you requesting information about multiple addresses? *

☐ Yes ☑ No

Property Address

Unit Number

Street Number 10

Street Name Aspen Springs Drive

Full Lot Number

Concession

Geographic Township

City/Town/Village * Bowmanville

Closest Intersection

Section 4 – Previous Property Address Information

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

☑ Yes ☐ No

Prior/Historical Property Address

Unit Number | Street Number | Street Name

	10	Aspen Springs Drive

Full Lot Number | Concession | Geographic Township

City/Town/Village *

Bowmanville

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

10 Aspen Springs Drive
Bowmanville

Owner Name: 2346120 Ontario Inc.

Date of Ownership (yyyy/mm/dd):

Tenant Name:

Previous Property Owner/Tenant

10 Aspen Springs Drive
Bowmanville

Owner Name:

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: 10 Aspen Springs Dr Bowmanville ON.PNG
2. File Name: 10 Aspen Springs Dr Bowmanville ON - Aerial.PNG

Total File Size: 1.56 MB

Payment confirmation number: 23012258

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Bureau de l'accès à l'information et de la protection de la vie privée

12e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Téléc.: (416) 314-4285

Ontario

March 17, 2022

Amanda Grossi
Watters Environmental Group Inc.
9135 Keele Street, Unit A1
Concord, ON L4K 0J4

Dear Amanda Grossi:

RE: ***Freedom of Information and Protection of Privacy Act* Request**
Our File # A-2022-01892, Your Reference 21-0136.06

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of $5.00 (non-refundable application fee).

The search will be conducted on the following: 10 Aspen Springs Drive, Bowmanville. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search and preparation time.

Due to the COVID-19 outbreak, requesters may experience some delays with FOI requests at this time.

This is to advise you, we've gone digital! Requests submitted by fax will no longer be accepted starting August 31, 2021. If you submitted requests by fax before August 31, 2021, we'll process it. Please don't re-submit it using the online form or you might get charged twice. The online form can be found on the central forms repository at the following link https://www.forms.ssb.gov.on.ca/mbs/ssb/forms/ssbforms.nsf/FormDetail?OpenForm&ACT=RDR&TAB=PROFILE&SRCH=1&ENV=WWE&TIT=freedom+of+information&NO=012-2146E.

If you have any questions regarding this matter, please contact Nasreen Salar at or nasreen.salar@ontario.ca.

Yours truly,

Ryan Gunn
Manager (A), Access and Privacy Office

APPENDIX E

Qualifications of Watters Environmental and Key Personnel Involved with this Phase I ESA

QUALIFICATIONS OF WATTERS ENVIRONMENTAL AND KEY PERSONNEL INVOLVED WITH THIS PHASE ONE ESA

E-1 WATTERS ENVIRONMENTAL

Watters Environmental Group Inc. (Watters Environmental) offers a strategic business-focused approach in assisting our clients to proactively manage environmental issues, and to find practical solutions when environmental issues arise.

We are an employee-owned environmental consulting company that prides itself on uncompromising dedication to service quality and client satisfaction. We understand our client's needs for timeliness of response, and innovative, technically-sound solutions to their problems.

Watters Environmental brings together a team of experts in the related technical disciplines of environmental due diligence, environmental site assessment, environmental management systems, and environmental permitting. In addition, the team offers specialty-consulting services including technical peer review, litigation support, environmental risk assessment, and forensic environmental investigations.

Our team consists of recognized leaders in their disciplines, with real-world industry experience that allows Watters Environmental to provide cost-effective solutions to our clients. Our executive team has built lasting relationships with loyal, repeat clients who have come to rely upon us for our spirit of working closely with them to resolve their issues as if they were our own. Senior staff members are some of the most experience individuals in the industry, most with 15 to 20 years of environmental consulting experience. Our employees are highly motivated and pride themselves in being innovative and client focused.

Major corporations, law firms, lending institutions, investors and municipalities routinely call upon us to assist them with complex real estate transactions, or to help manage complicated environmental issues.

E-2 TANNER LEONHARDT, B.ENG., PROJECT MANAGER

Tanner is a Project Manager with Watters Environmental and holds a Bachelor of Engineering degree with a specialization in Water Resources. Tanner has over 3 years of experience in the areas of Phase I and II environmental site assessments, brownfields remediation, environmental due diligence and soil vapour assessments. Tanner provides technical support on environmental assessments for a variety of industrial, commercial, institutional and residential properties across Canada.

E-3 ROBERT J. WATTERS, PH.D., P.GEO. – PRESIDENT & CEO

Robert is the President and Chief Executive Officer of Watters Environmental. He maintains an active practice in assisting clients with the management of environmental matters regarding their real estate portfolios. Robert has either managed or directed hundreds of environmental liability and due diligence assessments across Canada, the United States and abroad for public offerings, financing, insolvencies, underwriting, mergers and acquisitions. Robert's experience is diverse, having been involved with environmental assessments of major building supplies manufacturing and retail operations, power plants, pulp and paper mills, hospitals, hotels, resorts, ports, manufacturing facilities, mining operations, apartments, office buildings, funeral homes and others. He also has very particular experience in coordinating environmental due diligence reviews for portfolios of real estate assets.