# PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

**10 ASPEN SPRINGS DRIVE BOWMANVILLE, ONTARIO** 



#### CONFIDENTIAL

## PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

#### 10 ASPEN SPRINGS DRIVE BOWMANVILLE, ONTARIO

Prepared for:

#### **2346120 ONTARIO INC.**

515 Consumers Road, Suite 701 Toronto, Ontario M2J 4Z2

Prepared by:

#### WATTERS ENVIRONMENTAL GROUP INC.

9135 Keele Street, Unit A1 Concord, Ontario L4K 0J4

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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.

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)		

### **Table 1: Phase One Property Information**

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.

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

#### Table 2: Chain of Title Review

#### 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

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• "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 exceedances]; 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	То	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

From	То	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

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

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:

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

## Table 4: EcoLog ERIS - Phase One Property Summary

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	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	the Site in an inferred downgradient direction.	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:

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)

across the property.

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

appeared to be demolished. Land grading was visible

## 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-andenergy/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 (<u>http://www.ontario.ca/environment-and-energy/well-records</u>). 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<sub>ESA</sub>). 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 exceedances*];

#### 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.

### <u>Radon</u>

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<sup>3</sup>). 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 multitenant 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**

- Municipality of Clarington Interactive Map. (<u>https://clarington.maps.arcgis.com/apps/webappviewer/index.html?id=eec562e9554b46d</u> <u>2b61ba5a5b66456fd</u>);
- 2. County Atlas Project (https://digital.library.mcgill.ca/countyatlas/default.htm);
- "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. for 2346120 Ontario Inc.., dated May 2014 (the "2014 WSP Phase I Report");
- "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;
- Ministry of the Environment and Climate Change, 2012. Brownfields Environmental Site Registry Search, (<u>https://www.ontario.ca/page/brownfields-redevelopment</u>);
- Ministry of Environment and Climate Change Water Wells Online Database (<u>https://www.ontario.ca/page/map-well-records</u>);
- 9. Ministry of Northern Development and Mines (https://www.mndm.gov.on.ca/en/minesand-minerals/applications/ogsearth);
- 10. Natural Resources Canada, 2014. Toporama Topographic Maps, The Atlas of Canada, (<u>https://atlas.gc.ca/toporama/en/index.html</u>);
- 11. Ontario, 2012a. Environmental Protection Act, R.S.O. 1990; and
- 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.

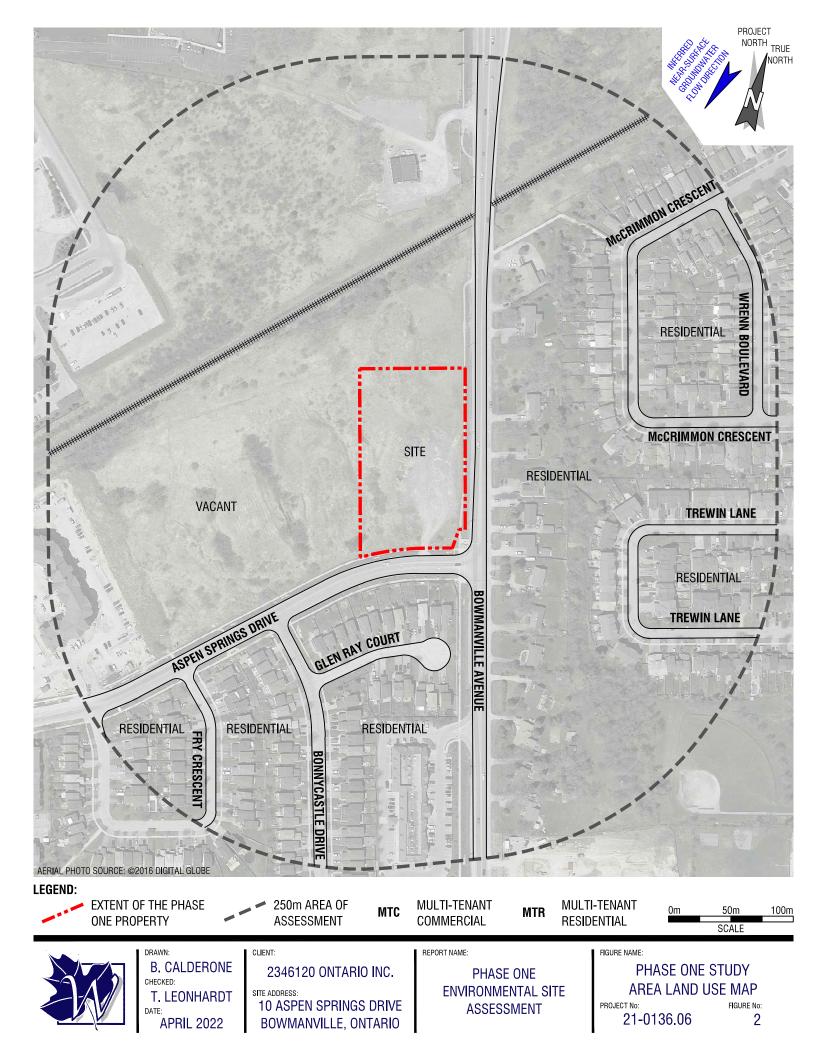
Any discussions regarding mould are based solely on visual and olfactory observations from a non-intrusive assessment. The assessment was conducted in readily accessible areas and did not involve intrusive or destructive activities, such as peeling back intact vinyl wallpaper or cutting holes in drywall 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.

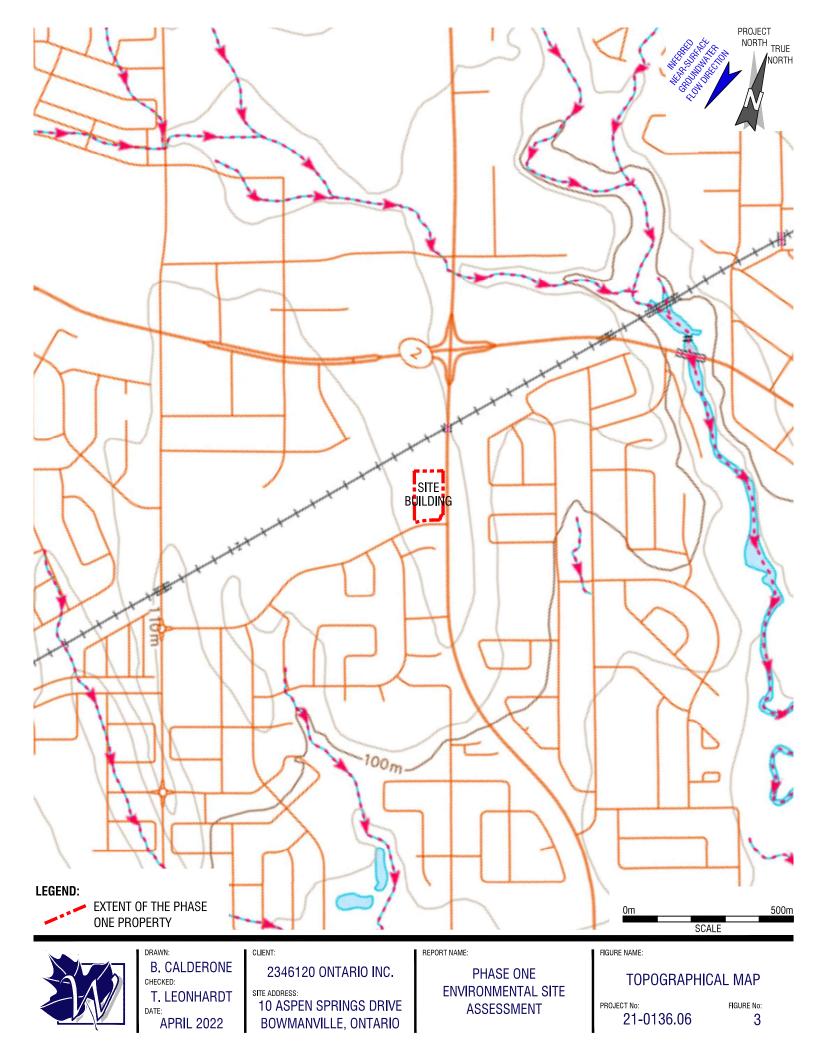
It is important to note that conducting a Phase One ESA does not eliminate the possibility that negative environmental conditions and/or variations of conditions not described in this report are present on the Site. Portions of the ground surface of the Site were covered with snow and/or ice at the time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

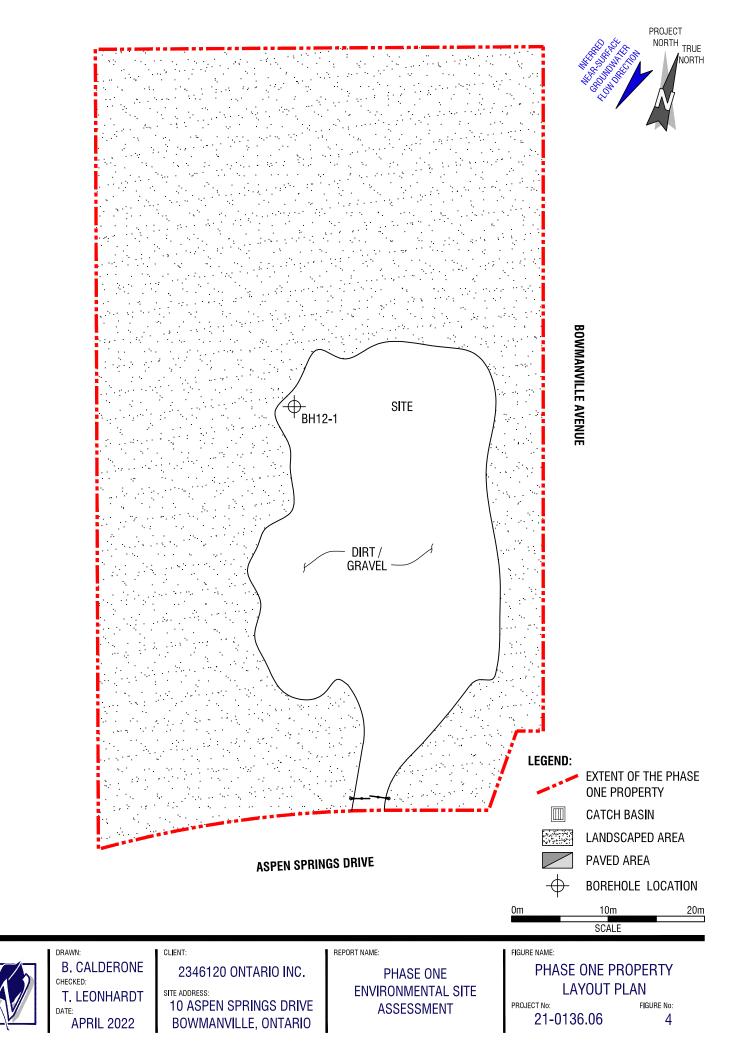
This report is complete only as an entire document, and no section is intended to be used separately.

**FIGURES** 







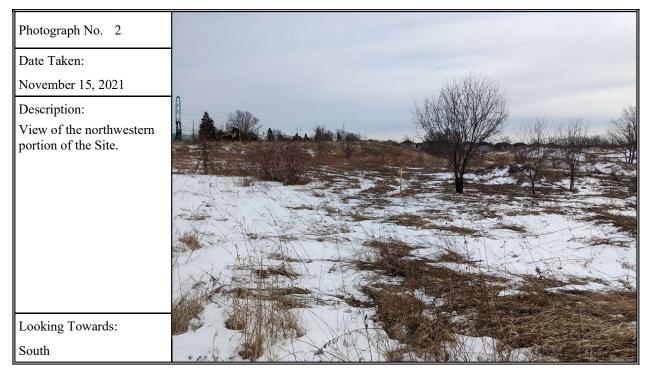


# APPENDIX A

Photographs

# PHOTOGRAPHS





Site Address:10 Aspen Springs Drive, Bowmanville, OntarioProject 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	
<u>L</u>	
Photograph No. 4	
Date Taken:	
November 15, 2021	and the second
Description: View of the piles of fill material previously investigated on the western portion of the Site.	
Looking Towards:	

Site Address:10 Aspen Springs Drive, Bowmanville, OntarioProject No.:21-0136.06

North

# **APPENDIX B**

**Plan of Survey** 

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$\mathbf{b}$	
Unitario	ServiceOntario

PAGE 1 OF 1

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OFFICE #40

26934-1036 (LT)

PREPARED FOR LISA+GARDINER ON 2014/05/09 AT 08:08:29

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

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

#### PROPERTY REMARKS:

ESTATE/QUALIFIER: FEE SIMPLE <u>RECENTLY:</u> DIVISION FROM 26934-0853

CAPACITY SHARE

LAND

REGISTRY

PIN CREATION DATE: 2004/10/06

OWNERS' NAMES

ABSOLUTE

<u>OWNERS' NAMES</u> 2346120 ONTARIO INC.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT	INCLUDES AL	L DOCUMENT TYPES (DEL	ETED 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	С
	1991/12/31 ARKS: LT5668	NOTICE AGREEMENT 37			THE CORPORATION OF THE TOWN OF NEWCASTLE	с
	1996/10/08 ARKS: LT5668	NOTICE AGREEMENT 37			THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON	С
40R22727	2004/06/02	PLAN REFERENCE				С
DR516742	2006/07/04	NOTICE		THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON	WEST BOWMANVILLE DEVELOPMENTS LTD.	С
40R25507	2008/07/10	PLAN REFERENCE				С
DR1138631 <i>REM</i>		TRANSFER NG ACT STATEMENTS	\$1,500,000	MARTIN ROAD HOLDINGS LIMITED	2346120 ONTARIO INC.	С
DR1138694	2012/11/16	CHARGE	\$1,500,000	2346120 ONTARIO INC.	CESARONI MANAGEMENT LIMITED	С
	2012/11/16 ARKS: DR1138	NO ASSGN RENT GEN 694		2346120 ONTARIO INC.	CESARONI MANAGEMENT LIMITED	С
DR1243893	2014/02/03	NOTICE OF LEASE	\$1	2346120 ONTARIO INC.	THE TDL GROUP CORP.	С
DR1248117	2014/02/28	NOTICE	\$1	THE TDL GROUP CORP.	CESARONI MANAGEMENT LIMITED	с

PAGE 1 OF 1

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OFFICE #40

26934-1560 (LT)

PREPARED FOR LISA+GARDINER ON 2014/05/09 AT 08:08:34

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

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

#### PROPERTY REMARKS:

ESTATE/QUALIFIER: FEE SIMPLE <u>RECENTLY:</u> DIVISION FROM 26934-1035

LAND

REGISTRY

PIN CREATION DATE: 2008/09/26

<u>OWNERS' NAMES</u> 2346120 ONTARIO INC.

ABSOLUTE

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT	INCLUDES AL	L DOCUMENT TYPES (DE	LETED INSTRUMENTS NOT INCLUDEI	D) **		
LT566837	1991/10/10	NOTICE AGREEMENT			THE CORPORATION OF THE TOWN OF NEWCASTLE	С
	1991/12/31 IARKS: LT5668	NOTICE AGREEMENT 37			THE CORPORATION OF THE TOWN OF NEWCASTLE	С
	1996/10/08 MARKS: LT5668	NOTICE AGREEMENT 37			THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON	С
40R25507	2008/07/10	PLAN REFERENCE				С
	2012/11/16 IARKS: PLANNI	TRANSFER NG ACT STATEMENTS	\$1,500,000 MARTIN ROAD	) HOLDINGS LIMITED	2346120 ONTARIO INC.	С
DR1138694	2012/11/16	CHARGE	\$1,500,000 2346120 ONT.	ARIO INC.	CESARONI MANAGEMENT LIMITED	С
	2012/11/16 IARKS: DR1138	NO ASSGN RENT GEN 694	2346120 ONT.	ARIO INC.	CESARONI MANAGEMENT LIMITED	С
DR1243893	2014/02/03	NOTICE OF LEASE	\$1 2346120 ONT.	ARIO INC.	THE TDL GROUP CORP.	с
DR1248117	2014/02/28	NOTICE	\$1 THE TDL GRO	UP CORP.	CESARONI MANAGEMENT LIMITED	С

# **APPENDIX C**

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



# DATABASE REPORT

**Project Property:** 

21-0136.06 10 Aspen Springs Drive Bowmanville ON L1C 4W7

Project No: Report Type: Order No: Requested by: Date Completed:

RSC Report (Urban) 22030700330 Watters Environmental Group Inc. March 10, 2022

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Unplottable Report	
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Definitions	

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# **Executive Summary**

#### Property Information:

**Project Property:** 

21-0136.06 10 Aspen Springs Drive Bowmanville ON L1C 4W7

Project No:

#### Order Information:

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

#### Historical/Products:

City Directory Search Topographic Map CD - QUOTE Custom City Directory Search 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
СНМ	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)	Ŷ	0	0	0
FST	Fuel Storage Tank	Ŷ	0	0	0
FSTH	Fuel Storage Tank - Historic	Ŷ	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Ŷ	0	15	15
GHG	Greenhouse Gas Emissions from Large Facilities	Ŷ	0	0	0
HINC	TSSA Historic Incidents	Ŷ	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	Y	0	0	0
NCPL	(NATES) 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	Y	0	0	0
NEBI	Sites National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	, Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Ŷ	0	0	0
NPCB	National PCB Inventory	Ŷ	0	0	0
NPRI	National Pollutant Release Inventory	Ŷ	0	0	0
OGWE	Oil and Gas Wells	Ŷ	0	0	0
OOGW	Ontario Oil and Gas Wells	Ŷ	0	0	0
OPCB	Inventory of PCB Storage Sites	Ŷ	0	0	0
ORD	Orders	Ŷ	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

Мар Кеу	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	<u>23</u>
2	EHS		10 Aspen Springs Dr Clarington ON L1C4W7	SSW/0.0	-0.01	<u>23</u>
2	ECA	2346120 Ontario Inc.	10 Aspen Springs Dr Clarington ON L1N 7K6	SSW/0.0	-0.01	<u>23</u>
<u>3</u>	WWIS		HWY 57 / RIPEN SERINGS DR BOWMANVILLE ON <b>Well ID:</b> 7193859	NNE/0.0	0.01	<u>23</u>

# Executive Summary: Site Report Summary - Surrounding Properties

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

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

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

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

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

# 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.

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

### **<u>CA</u>** - 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.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>	
WEST BOWMANVILLE DEV. LTDPT. LOTS 15&16	ASPEN SPRINGS DR./REG. RD.# 57 NEWCASTLE TOWN ON	23.4	<u>4</u>	
WEST BOWMANVILLE DEV. LTD.	BONNYCASTLE DR./GLEN RAY COURT NEWCASTLE TOWN ON	111.9	<u>12</u>	
originfo com   Environm	antal Diak Information Convision		Order Net 22020	700220

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

#### **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.

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

### **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.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	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	<u>6</u>

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

#### **<u>GEN</u>** - 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.

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

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

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

#### 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.

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

#### **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.

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

### 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.

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

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

#### **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.

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

#### SPL - Ontario Spills

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

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

#### WWIS - Water Well Information System

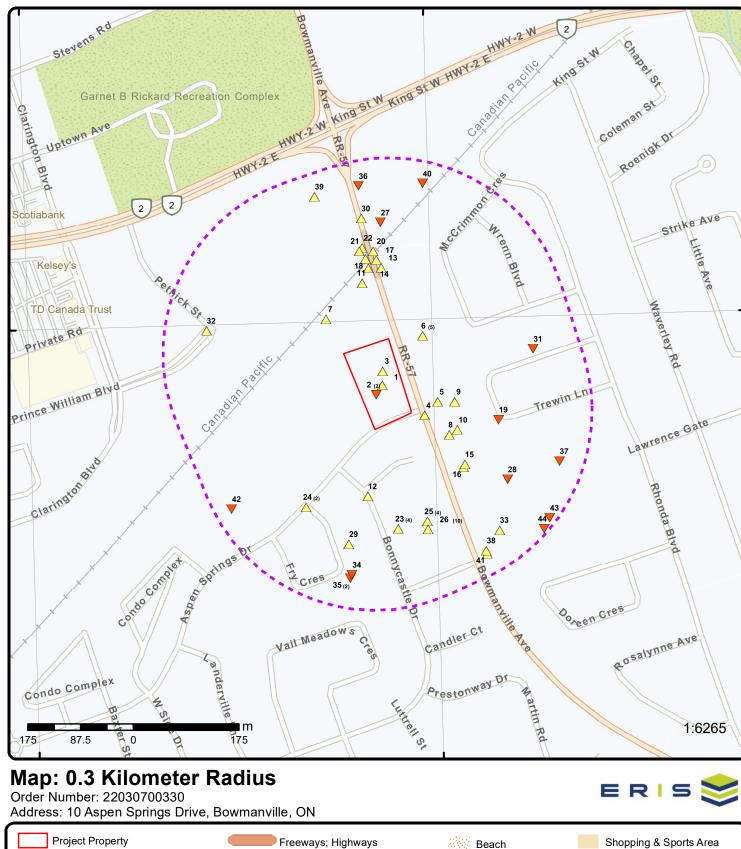
A search of the WWIS database, dated Sep 30, 2021 has found that there are 20 WWIS site(s) within approximately 0.30 kilometers of the project property.

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

<u>Address</u> Well ID: 1900041	<u>Distance (m)</u>	<u>Map Key</u>
ON <i>Well ID:</i> 1900011	73.7	<u>9</u>
ON	101.5	<u>11</u>
<i>Well ID:</i> 1902833 ON	123.6	<u>15</u>
Well ID: 1900040		
ON <i>Well ID:</i> 1900026	125.6	<u>16</u>
ON	145.9	<u>19</u>
<i>Well ID:</i> 1900027 HIGHWAY 57 AND HIGHWAY 2 BOWMANVILLE ON	153.4	<u>21</u>
Well ID: 7259230		
lot 14 con 1 ON <i>Well ID:</i> 1906829	193.1	<u>27</u>
ON	194.8	<u>28</u>
<i>Well ID:</i> 1900015 HWY 2 AND REGIONAL ROAD 57 lot 15 con 1 BOWMANVILLE ON <i>Well ID:</i> 7336983	204.7	<u>30</u>
50 MARTIN ROAD REG RD 57 lot 14 con 1 BOWMANVILLE ON	243.7	<u>33</u>
<i>Well ID:</i> 7174957 lot 15 con 1	243.8	34
ON Well ID: 1908709	270.0	<u>34</u>

Address	<u>Distance (m)</u> 259.4	Map Key
ON	200.4	<u>37</u>
<b>Well ID:</b> 1900014		
S/E CORNER OF HWY #2 & HWY #57 lot 14 con 2 BOWMANVILLE ON <i>Well ID:</i> 7039224	262.3	<u>39</u>
215 KING STREET WEST BOWMANVILLE ON	263.8	<u>40</u>
<b>Well ID:</b> 7295737		
ON	265.1	<u>41</u>
<b>Well ID:</b> 1900028		
50 REGIONAL RD 57 CLARINGTON ON	288.9	<u>43</u>
Well ID: 7306629		
50 REGIONAL RD 57 CLARINGTON ON	293.2	<u>44</u>

Well ID: 7306624



Traffic Circle; Ramp

Local Road

Rail

Major Arterial; Minor Arterial

Service Road; Traffic Circle; Ramp

78°42'W

78°42'30"W

Source: © 2021 ESRI StreetMap Premium.

Eris Sites with Higher Elevation

Eris Sites with Same Elevation

Eris Sites with Lower Elevation

Eris Sites with Unknown Elevation

**Buffer Outline** 

 $\triangle$ 

 $\nabla$ 

 $\bigcirc$ 

© ERIS Information Limited Partnership

University/College

Parkt (National)

Park (City/County)

Cemetery; Golf Course

Airport

Industrial Area

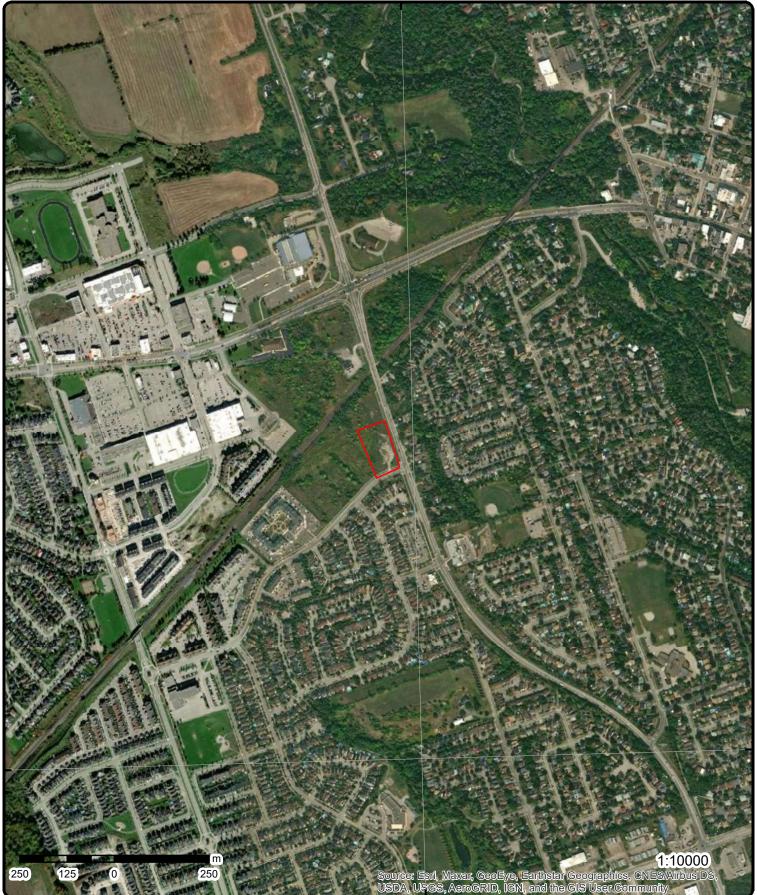
Military Base

Aircraft Roads

Hospital

Native Reservation

t3°54'30"N



78°42'W

43°54'N

# Aerial Year: 2020

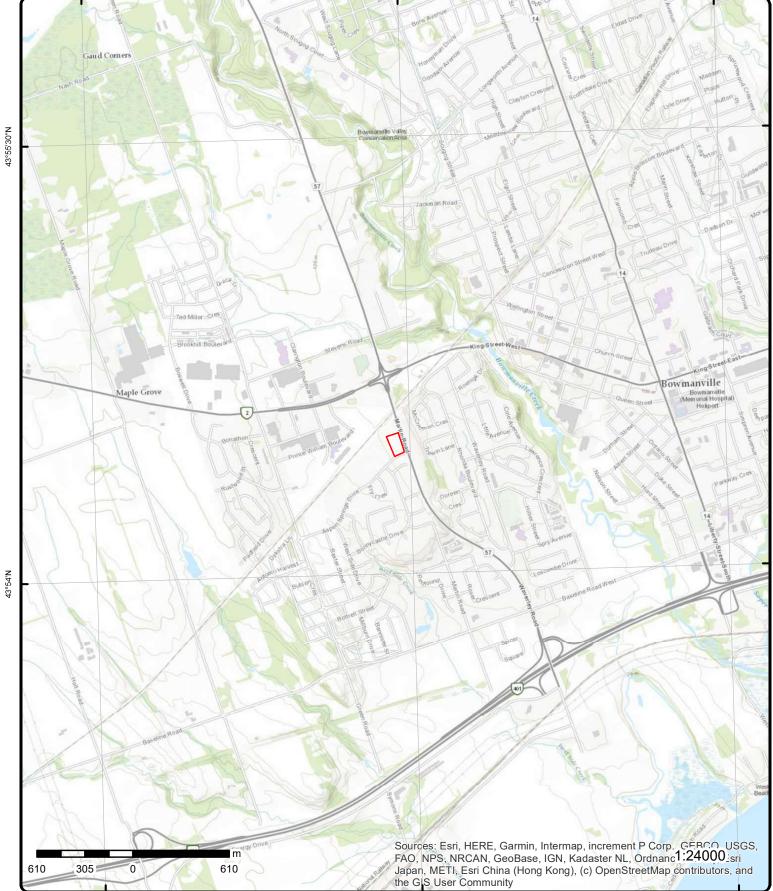
## Address: 10 Aspen Springs Drive, Bowmanville, ON

Source: ESRI World Imagery

### Order Number: 22030700330



© ERIS Information Limited Partnership



78°42'W

# **Topographic Map**

78°43'30"W

## Address: 10 Aspen Springs Drive, ON

Source: ESRI World Topographic Map

Order Number: 22030700330



© ERIS Information Limited Partnership

43°55'30"N

78°40'30"W

## Detail Report

Map Key	Number Records		Elev/Diff n) (m)	Site		DE
<u>1</u>	1 of 1	ESE/0.0	117.8/ 0.01	northwest corner of A Martin Road Bowmanville ON	Aspen Springs Drive and	EHS
Order No: Status: Report Type Report Date: Date Receive Previous Site Lot/Building Additional Im	ed: e Name: Size:	20070515011 C CAN - Complete Report 5/25/2007 5/15/2007 Fire Insur. Maps	s And /or Site Plans; /	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: Aerials Photos	0.25 -78.701133 43.907363	
2	1 of 2	SSW/0.0	117.8 / -0.01	10 Aspen Springs Dr Clarington ON L1C4	N7	EHS
Order No: Status: Report Type Report Date: Date Receive Previous Situ Lot/Building Additional Int	ed: e Name: Size:	20140416067 C Standard Report 28-APR-14 16-APR-14 Aerial Photos		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	Durham ON .25 -78.701259 43.907228	
<u>2</u>	2 of 2	SSW/0.0	117.8 / -0.01	2346120 Ontario Inc. 10 Aspen Springs Dr Clarington ON L1N 7	К6	ECA
Approval No Approval Da Status: Record Type Link Source: SWP Area Na Approval Typ Project Type: Business Nau Address: Full Address. Full PDF Link	te: :: :ame: : :: :: :: ::	MUNICIPAL AN 2346120 Ontari 10 Aspen Spring	gs Dr		-AD5JWY-14.pdf	
PDF Site Loc	ation: 1 of 1	NNE/0.0	117.8 / 0.01	HWY 57 / RIPEN SERI		WWIS
Well ID: Constructior Primary Wat Sec. Water L	er Use:	7193859 Monitoring		BOWMANVILLE ON Data Entry Status: Data Src: Date Received: Selected Flag:	12/19/2012 TRUE	

23

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Final Well St	atus:	Observatio	n Wells		Abandonment Rec:		
Water Type:					Contractor:	7501	
Casing Mater	rial:				Form Version:	7	
Audit No:		Z157403			Owner:		
Tag:		A130869			Street Name:	HWY 57 / RIPEN SERINGS DR	
Construction	ו				County:	DURHAM	
Method:					-		
Elevation (m)	):				Municipality:	NEWCASTLE TOWN (DARLINGTON)	
Elevation Re	liability:				Site Info:		
Depth to Bed					Lot:		
Well Depth:					Concession:		
Overburden/	Bedrock:				Concession Name:		
Pump Rate:					Easting NAD83:		
Static Water	Level:				Northing NAD83:		
Flowing (Y/N	D:				Zone:		
Flow Rate:	,				UTM Reliability:		
Clear/Cloudy	<i>ı</i> :				•		
					t/man manning/day.uplaada	s/2Water/Wells_pdfs/719\7193859.pdf	

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

17         684599.00         3:       4864177.00         :       UTM83         ::       4 <b>Desc:</b> margin of error : 30 m - 100 m <i>n</i> Method:       wwr

#### Overburden and Bedrock Materials Interval

Source Revision Comment: Supplier Comment:

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
Mat3 Desc: Formation Top Depth: Formation End Depth:	HARD 4.0 20.0

#### <u>Overburden and Bedrock</u> <u>Materials Interval</u>

Formation ID: Layer: Color:	1004684195 1 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

#### <u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Dia	4004004000
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

Мар Кеу	Number Records		Elev/Diff (m)	Site		DB
Screen Mater Screen Depth Screen Diamo Screen Diamo	n UOM: eter UOM:	5 ft inch 2.0				
Water Details	1					
Water ID: Layer: Kind Code: Kind: Water Found		1004684198				
Water Found	Depth UON	<b>1:</b> ft				
<u>Hole Diamete</u> Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM:	1004684197 8.0 0.0 20.0 ft inch				
<u>4</u>	1 of 1	ESE/23.4	119.5 / 1.73	WEST BOWMANVILLE DEV. LTDPT.LOTS 15&16 ASPEN SPRINGS DR./REG. RD.# 57 NEWCASTLE TOWN ON		CA
Certificate #: Application Y Issue Date: Approval Typ Status: Application T Client Name: Client Addres Client City: Client Postal Project Desca Contaminant Emission Con	Year: be: Type: ss: Code: ription: s:	7-0578-92- 92 6/24/1992 Municipal water Approved				
<u>5</u>	1 of 1	ESE/46.8	120.2 / 2.44	24 MARTIN ROAD, EI ON	DEN	INC
Incident No: Incident ID: Instance No: Status Code: Attribute Cate Context: Date of Occu Time of Occu Incident Crea Instance Crea Instance Inst Occur Insp S Approx Quan Tank Capacit Fuels Occur	egory: rrence: nted On: ation Dt: all Dt: tart Date: nt Rel: ty: Type:	1829384 FS-Perform L1 Incident Insp 2016/12/09 00:00:00 10:42:00 2016/02/04 00:00:00		Any Health Impact: Any Enviro Impact: Service Interrupted: Was Prop Damaged: Reside App. Type: Commer App. Type: Indus App. Type: Institut App. Type: Venting Type: Vent Conn Mater: Vent Cohimney Mater: Pipeline Type: Pipeline Involved: Pipe Material: Depth Ground Cover: Regulator Location:	No Yes No No	

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Enforcemen Prc Escalatie Tank Materia Tank Storag Tank Locatic Pump Flow I Task No: Notes: Drainage Sy Sub Surface Aff Prop Use Contam. Mig Contact Nate Incident Loc Occurence N Operation Ty Item: Item Descrip Device Insta	on Req: al Type: e Type: on Type: Rate Cap: stem: c Contam.: e Water: yrated: ural Env: ation: Varrative: ype Involved	L I: P	4 MARTIN ROAD, eak from oil filter rivate Dwelling	EDEN - LEAK	Regulator Type: Operation Pressure: Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Liquid Prop Notes: Equipment Type: Equipment Model: Serial No: Cylinder Capacity: Cylinder Cap Units: Cylinder Mat Type: Near Body of Water:		
<u>6</u>	1 of 5		NE/55.6	119.7 / 1.91	1695 Bowmanville Av Avenue, and 4 Martin Bowmanville ON L1C		EHS
Order No: Status: Report Type Report Date. Date Receive Previous Sit Lot/Building	: ed: e Name:	202006291 C Custom Re 03-JUL-20 29-JUN-20			Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .3 -78.700273 43.90808864	
Additional Ir		F	ire Insur. Maps and	l/or Site Plans; A	erial Photos		
<u>6</u>	2 of 5		NE/55.6	119.7 / 1.91	1695 Bowmanville Av Avenue, and 4 Martin Bowmanville ON L1C		EHS
Order No: Status: Report Type Report Date: Date Receiv Previous Sit Lot/Building Additional Ir	: ed: e Name: ' Size:	202006291 C Custom Re 03-JUL-20 29-JUN-20 F		l/or Site Plans; A	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: v:	ON .3 -78.700273 43.90808864	
<u>6</u>	3 of 5		NE/55.6	119.7 / 1.91	1695 Bowmanville Av Avenue, and 4 Martin Bowmanville ON L1C		EHS
Order No: Status: Report Type Report Date. Date Receive Previous Sit Lot/Building Additional Ir	: ed: e Name: ' Size:	202006291 C Custom Re 03-JUL-20 29-JUN-20 F		l/or Site Plans; A	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .3 -78.700273 43.90808864	

Map Key	Number Records		Elev/Diff (m)	Site		DB
<u>6</u>	4 of 5	NE/55.6	119.7 / 1.91	1695 Bowmanville Av Avenue, and 4 Martin Bowmanville ON L1C		EHS
Order No: Status: Report Type Report Date Date Receive Previous Sit Lot/Building Additional Ir	: ed: te Name: ı Size:	20200629163 C Custom Report 03-JUL-20 29-JUN-20 Fire Insur. Maps a	and/or Site Plans; A	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: Aerial Photos	ON .3 -78.700273 43.90808864	
<u>6</u>	5 of 5	NE/55.6	119.7 / 1.91	1695 Bowmanville Av Avenue, and 4 Martin Bowmanville ON L1C		EHS
Order No: Status: Report Type Report Date Date Receive Previous Sit Lot/Building Additional Ir	: ed: te Name: ı Size:	20200629163 C Custom Report 03-JUL-20 29-JUN-20 Fire Insur. Maps a	and/or Site Plans; A	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: V:	ON .3 -78.700273 43.90808864	
<u>7</u>	1 of 1	NW/64.4	119.8 / 2.05	lot 15 con 1 ON		WWIS
Well ID: Construction Primary Wat Sec. Water U Final Well Si Water Type: Casing Mate Audit No: Tag: Construction Elevation (m Elevation (m Elevation Re Depth to Bee Well Depth: Overburden, Pump Rate: Static Water Flowing (Y/M Flow Rate: Clear/Cloudy	ter Use: Use: tatus: erial: n Method: n): eliability: drock: /Bedrock: /Bedrock: v): y:	1903006 Domestic 0 Water Supply	83rdy cloudfront or	Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 2/4/1971 TRUE 4713 1 DURHAM NEWCASTLE TOWN (DARLING 015 01 CON	
PDF URL (M	.,		83rdv.cloudfront.ne	et/moe_mapping/downloads/	2Water/Wells_pdfs/190\1903006.pd	IT
Additional D Well Comple Year Comple Depth (m): Latitude: Longitude: Path:	eted Date:	2) 1970/11/10 1970 20.7264 43.908377161438 -78.70225225695 190\1903006.pdf				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DI
Bore Hole Inf	ormation					
Improvement Source Revis	us: esc: d: leted: 10-Nov-1970 00:00:00 :: purce Date: nt Location Source: nt Location Method: ision Comment:			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 684505.10 4864263.00 4 margin of error : 30 m - 100 m p4	
Supplier Com <u>Overburden a</u> Materials Inte	and Bedrock					
Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En	: r: n Material: p Depth:	931147725 2 3 BLUE 05 CLAY 12 STONES 30.0 65.0 ft				
<u>Overburden a</u> Materials Inte	and Bedrock					
Formation ID: Layer: Color: General Colo Mat1: Most Commo Mat2 Desc: Mat3 Desc: Formation To Formation En	: n Material: p Depth:	931147726 3 3 BLUE 11 GRAVEL 65.0 68.0 ft				
<u>Overburden a</u> Materials Inte						
Formation ID: Layer: Color: General Color Mat1: Most Commo Mat2: Mat2 Desc:	r:	931147724 1 6 BROWN 05 CLAY 12 STONES				

29

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3: Mat3 Desc:					
Formation To	n Denth:	0.0			
Formation E	nd Denth	30.0			
	nd Depth. nd Depth UOM:	ft			
<u>Method of Co Use</u>	onstruction & Well				
Method Cons	truction ID:	961903006			
Method Cons	struction Code:	1			
Method Cons	struction:	Cable Tool			
Other Method	d Construction:				
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID:		10620628			
Casing No:		1			
Comment:					
Alt Name:					
Construction	Record - Casing				
Casing ID:		930129602			
Layer:		1			
Material:		1			
Open Hole of	· Material:	STEEL			
Depth From:		69.0			
Depth To: Casing Diam	otor:	68.0 6.0			
Casing Diam		inch			
Casing Dept		ft			
<u>Results of W</u>	ell Yield Testing				
Pump Test IL	):	991903006			
Pump Set At					
Static Level:		25.0			
Final Level A	fter Pumping:	60.0			
Recommend	ed Pump Depth:	65.0			
Pumping Rat		6.0			
Flowing Rate	ed Pump Rate:	3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
	After Test Code:				
Water State A					
Pumping Tes		2			
Pumping Du		2			
Pumping Du	ration MIN:	0			
Flowing:		No			
<u>Draw Down &amp;</u>	Recovery				
Pump Test D	etail ID:	934403374			
Test Type:		Draw Down			
Test Duration	n:	30			
Test Level: Test Level U		60.0			
	<u> </u>	ft			

#### Draw Down & Recovery

Мар Кеу	Number Records	of Direction/ Distance (r	Elev/Diff n) (m)	Site		DB
Pump Test De Test Type: Test Duration Test Level: Test Level UC	1:	934128523 Draw Down 15 40.0 ft				
<u>Draw Down &amp;</u>	Recovery					
Pump Test De Test Type: Test Duration Test Level: Test Level UC	1:	934671574 Draw Down 45 60.0 ft				
<u>Draw Down &amp;</u>	Recovery					
Pump Test De Test Type: Test Duration Test Level: Test Level UC	1:	934921525 Draw Down 60 60.0 ft				
<u>Water Details</u>	1					
Water ID: Layer: Kind Code: Kind: Water Found Water Found		933513591 1 FRESH 68.0 ft				
<u>8</u>	1 of 1	ESE/73.2	120.6 / 2.83	ON		WWIS
Well ID: Construction Primary Wate Sec. Water Us Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/E Pump Rate: Static Water I Flowing (Y/N) Flow Rate:	Date: er Use: se: atus: ial: Method: : liability: rock: Bedrock: Level: ):	1900041 Domestic 0 Water Supply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 4/2/1965 TRUE 2113 1 DURHAM BOWMANVILLE TOWN	

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Clear/Cloudy:
PDF URL (Map):
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https://d2khazk8e83rdv.cloudfront.net/moe\_mapping/downloads/2Water/Wells\_pdfs/190\1900041.pdf

Additional Detail(s) (Map)

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

Depth (m): Latitude: Longitude: Path: Bore Hole Information Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location S Improvement Location M Source Revision Comme Supplier Comment: Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation End Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation End Depth: Formation End Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation End Depth UC Overburden and Bedrock Materials Interval Formation End Depth UC Overburden and Bedrock Materials Interval Formation Top Depth: Formation Top Depth: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation End Depth UC	s	Distance (m)	(m)			DE
Longitude: Path: Bore Hole Information Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location S Improvement Location M Source Revision Comme Supplier Comment: Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Formation End Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation Top Depth: Formation End Depth UC		18.288				
Path: Bore Hole Information Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location M Source Revision Comme Supplier Comment: Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Formation End Depth: Formation End Depth: Formation ID: Layer: Color: Formation End Depth UC Overburden and Bedrock Mat2: Formation End Depth: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation ID Depth: Formation End Depth: F		43.906598756994				
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DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location M Source Revision Comme Supplier Comment: Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Mat3 Desc: Formation End Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation End Depth: Formation End Depth: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation End Depth: Formation End Depth UC						
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Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location M Source Revision Comme Supplier Comment: Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3 Formation Top Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation End Depth UC Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation ID Depth: Formation End Depth: Formation End Depth: Formation End Depth: Formation End Depth: Formation End Depth UC				Elevrc:	47	
Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location M Source Revision Comme Supplier Comment: Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Formation Top Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation End Depth UC Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: General Color: Mat1: Most Common Material: Mat3 Desc: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation End Depth: Formation End Depth: Formation End Depth: Formation End Depth: Formation End Depth UC				Zone:	17	
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Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location M Source Revision Comme Supplier Comment: Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Formation Top Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation End Depth UC Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: General Color: Mat1: Most Common Material: Mat3 Desc: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation End Depth: Formation End Depth: Formation End Depth: Formation End Depth UC				North83:	4864071.00	
Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location So Improvement Location M Source Revision Comme Supplier Comment: Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation End Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation End Depth UC Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: General Color: Mat1: Most Common Material: Mat3 Desc: Formation ID Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation End Depth: Formation End Depth: Formation End Depth: Formation End Depth: Formation End Depth UC				Org CS:	-	
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Elevrc Desc: Location Source Date: Improvement Location So Improvement Location M Source Revision Comme Supplier Comment: <u>Overburden and Bedrock</u> Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Formation Top Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat2 Desc: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth UC	28-Mar-	1965 00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m	
Location Source Date: Improvement Location So Improvement Location M Source Revision Comme Supplier Comment: <u>Overburden and Bedrock</u> Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Formation Top Depth: Formation End Depth UC <u>Overburden and Bedrock</u> Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat3 Desc: Formation Top Depth: Formation Top Depth: Formation End Depth: Formation End Depth: Formation End Depth: Formation End Depth UC				Location Method:	p5	
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Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC <u>Overburden and Bedrock</u> Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC		5				
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Mat2: Mat2 Desc: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth UC		CLAY				
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Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC <u>Overburden and Bedrock</u> <u>Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Formation End Depth: Formation End Depth UC						
Formation Top Depth: Formation End Depth: Formation End Depth UC Overburden and Bedrock Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3 Desc: Formation Top Depth: Formation End Depth UC						
Formation End Depth: Formation End Depth UC <u>Overburden and Bedrock</u> <u>Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth UC		56.0				
Formation End Depth UC <u>Overburden and Bedrock</u> <u>Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat2 Desc: Mat3: Formation Top Depth: Formation End Depth: Formation End Depth UC		60.0				
Materials Interval Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Formation Top Depth: Formation End Depth UC	IOM:	ft				
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC	<u>ck</u>					
Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC						
Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC		931135604				
General Color: Mat1: Most Common Material: Mat2: Mat3 Desc: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC		3				
Mat1: Most Common Material: Mat2: Mat3: Mat3: Formation Top Depth: Formation End Depth: Formation End Depth UC		6				
Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC		BROWN				
Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC		11				
Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC		GRAVEL				
Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC						
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC						
Formation Top Depth: Formation End Depth: Formation End Depth UC						
Formation End Depth: Formation End Depth UC		10.0				
Formation End Depth UC		12.0				
	юм:	36.0 ft				
Overburden and Bedrock Materials Interval	<u>ck</u>					
		031135602				
Formation ID:		931135602 1				
Layer:		1				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Color:					
General Cold	or:				
Mat1:		02			
Most Commo	on Material:	TOPSOIL			
Mat2: Mat2 Desc:					
Matz Desc. Mat3:					
Mat3 Desc:					
Formation To	op Depth:	0.0			
Formation E	nd Depth:	1.0			
Formation E	nd Depth UOM:	ft			
Overburden	and Bedrock				
Materials Inte					
Formation ID	);	931135605			
Layer:		4			
Color:		2			
General Colo	or:	GREY			
Mat1:	•• • • •	05			
Most Commo	on Material:	CLAY			
Mat2: Mat2 Decei		12 STONES			
Mat2 Desc: Mat3:		STONES			
Mats. Mats Desc:					
Formation Te	op Depth:	36.0			
Formation E	nd Depth:	56.0			
	nd Depth UOM:	ft			
<u>Materials Inte</u>		021125602			
Formation ID Layer:	):	931135603 2			
Color:		6			
General Colo	or:	BROWN			
Mat1:		05			
Most Commo	on Material:	CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:	an Danthi	1.0			
Formation Te Formation E		1.0 12.0			
Formation E	nd Depth. nd Depth UOM:	ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction ID:	961900041			
	struction Code:	1			
Method Cons		Cable Tool			
Other Metho	d Construction:				
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID:		10617679			
Casing No:		1			
Comment:					
Alt Name:					

#### **Construction Record - Casing**

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930126333			
Layer:		1			
Material:		1			
Open Hole or I	Naterial:	STEEL			
Depth From:					
Depth To:		60.0			
Casing Diamet	er:	6.0			
Casing Diamet Casing Depth (		inch ft			
Construction F	<u> Record - Screen</u>				
Screen ID:		933328651			
Layer:		1			
Slot:		05.0			
Screen Top De	pth:	25.0			
Screen End De		40.0			
Screen Materia		£4			
Screen Depth (		ft			
Screen Diamet Screen Diamet		inch			
Results of Wel	<u>l Yield Testing</u>				
Pump Test ID:	-	991900041			
Pump Set At:					
Static Level:		20.0			
Final Level Aft	er Pumping:	53.0			
Recommended	d Pump Depth:	54.0			
Pumping Rate:	:	4.0			
Flowing Rate:					
Recommended	d Pump Rate:	4.0			
Levels UOM:		ft			
Rate UOM:		GPM			
	ter Test Code:	1			
Nater State Af		CLEAR			
Pumping Test		1			
Pumping Dura		2			
Pumping Dura Flowing:	tion MIN:	0 No			
<u>Nater Details</u>					
Nater ID:		933510570			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Nater Found D		32.0			
Nater Found D	Depth UOM:	ft			
Nater Details					
Nater ID:		933510569			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Nater Found D		25.0			
Nater Found D	Depth UOM:	ft			
9	1 of 1	ESE/73.7	119.9 / 2.14		
<u> </u>		202,10.7			WWIS

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Order No: 22030700330

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		L
					ON		
Well ID:		1900011			Data Entry Status:		
Construction	Date:				Data Src:	1	
Primary Wate	er Use:	Domestic			Date Received:	9/28/1953	
Sec. Water U		0			Selected Flag:	TRUE	
Final Well St	atus:	Water Supp	bly		Abandonment Rec:		
Water Type:			-		Contractor:	3908	
Casing Mate	rial:				Form Version:	1	
Audit No:					Owner:		
Tag:					Street Name:		
Construction	n Method:				County:	DURHAM	
Elevation (m	):				Municipality:	BOWMANVILLE TOWN	
Elevation Re	liability:				Site Info:		
Depth to Bec	lrock:				Lot:		
Well Depth:					Concession:		
Overburden/	Bedrock:				Concession Name:		
Pump Rate:					Easting NAD83:		
Static Water	Level:				Northing NAD83:		
Flowing (Y/N	) <i>:</i>				Zone:		
Flow Rate:					UTM Reliability:		
Clear/Cloudy	<i>'</i> :						

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: DP2BR:	10069079	Elevation: 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:			

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

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

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DB

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	D	8
Mat3:						
Mat3 Desc: Formation To	on Denth:	40.0				
Formation E	nd Depth:	78.0				
	nd Depth UOM:	ft				
Overburden	and Bedrock					
Materials Inte						
Formation ID	:	931135489				
Layer:		3				
Color: General Colo						
Mat1:	<i></i>	11				
Most Commo	on Material:	GRAVEL				
Mat2:						
Mat2 Desc: Mat3:						
Mat3 Desc:						
Formation To	op Depth:	78.0				
Formation E	nd Depth:	80.0				
Formation El	nd Depth UOM:	ft				
<u>Overburden</u> Materials Inte	and Bedrock_ erval					
Formation ID		931135487				
Layer:		1				
Color: General Colo						
Mat1:	<i></i>	14				
Most Commo	on Material:	HARDPAN				
Mat2:		11				
Mat2 Desc: Mat3:		GRAVEL				
Mat3 Desc:						
Formation To	op Depth:	0.0				
Formation E		40.0				
Formation El	nd Depth UOM:	ft				
<u>Method of Co</u> <u>Use</u>	onstruction & Well					
Method Cons		961900011				
Method Cons Method Cons	struction Code:	1 Cable Tool				
	d Construction:					
<u>Pipe Informa</u>	<u>tion</u>					
Pipe ID:		10617649				
Casing No:		1				
Comment: Alt Name:						
<u>Construction</u>	Record - Casing					
Casing ID:		930126292				
Layer:		1				
Material:	r Matarial:	1 97551				
Open Hole o Depth From:		STEEL				

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Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Depth To:			80.0				
Casing Diame			6.0				
Casing Diame Casing Depth			inch ft				
Casing Deptil	0011.		it in				
Results of We	ell Yield Te	<u>sting</u>					
Pump Test ID Pump Set At:			991900011				
Static Level:			40.0				
Final Level A	fter Pumpir	ng:	40.0				
Recommende							
Pumping Rate			4.0				
Flowing Rate. Recommende		ato					
Levels UOM:	ar ump na		ft				
Rate UOM:			GPM				
Water State A			1				
Water State A			CLEAR				
Pumping Tes			1				
Pumping Dur Pumping Dur							
Flowing:			No				
-							
<u>Water Details</u>							
Water ID:			933510542				
Layer:			1				
Kind Code:			1 FRESH				
Kind: Water Found	Denth:		FRESH				
mator i ouna							
Water Found	Depth UON	И:	ft				
Water Found	Depth UON	И:	ft				
Water Found	Depth UON	Л:	tt ESE/81.9	120.6 / 2.83	Aspen Springs Anim 1550 Bowmanville A Bowmanville ON L10	ve, Unit 9	 GEN
	1 of 1	<i>II:</i> ON89391	ESE/81.9	120.6 / 2.83	1550 Bowmanville A	ve, Unit 9 C 6N5	GEN
<u>10</u>	1 of 1		ESE/81.9	120.6 / 2.83	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin:	ve, Unit 9	 GEN
<u>10</u> Generator No SIC Code: SIC Descripti	1 of 1 : :	ON89391	<b>ESE/81.9</b> 30	120.6 / 2.83	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact:	ve, Unit 9 C 6N5	 GEN
<u>10</u> Generator No SIC Code: SIC Descripti Approval Yea	1 of 1 : :		<b>ESE/81.9</b> 30	120.6 / 2.83	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin:	ve, Unit 9 C 6N5	 GEN
<u>10</u> Generator No	1 of 1 : :	ON89391	<b>ESE/81.9</b> 30	120.6 / 2.83	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact:	ve, Unit 9 C 6N5	 GEN
<u>10</u> Generator No SIC Code: SIC Descriptit Approval Yea PO Box No: Country:	1 of 1 : :	ON89391 As of Dec	<b>ESE/81.9</b> 30	120.6 / 2.83	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:	ve, Unit 9 C 6N5	GEN
<u>10</u> Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: <u>Detail(s)</u>	1 of 1 : on: rs:	ON89391 As of Dec	<b>ESE/81.9</b> 30 22018	120.6 / 2.83	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:	ve, Unit 9 C 6N5	GEN
<u>10</u> Generator No SIC Code: SIC Descriptii Approval Yea PO Box No: Country: <u>Detail(s)</u> Waste Class:	1 of 1 : on: rs:	ON89391 As of Dec	<b>ESE/81.9</b> 30 2018 312 P		1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:	ve, Unit 9 C 6N5	GEN
<u>10</u> Generator No SIC Code: SIC Descriptii Approval Yea PO Box No: Country: <u>Detail(s)</u> Waste Class:	1 of 1 : on: rs:	ON89391 As of Dec	<b>ESE/81.9</b> 30 22018		1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:	ve, Unit 9 C 6N5	GEN
<u>10</u> Generator No SIC Code: SIC Descriptii Approval Yea PO Box No: Country: <u>Detail(s)</u> Waste Class:	1 of 1 : on: rs:	ON89391 As of Dec	<b>ESE/81.9</b> 30 2018 312 P		1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	ve, Unit 9 C 6N5	GEN
<u>10</u> Generator No SIC Code: SIC Descriptin Approval Yea PO Box No: Country: Detail(s) Waste Class: Waste Class:	1 of 1 : on: rs: Desc:	ON89391 As of Dec Canada	ESE/81.9 30 2018 312 P Pathological wastes	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	ve, Unit 9 C 6N5	
<u>10</u> Generator No SIC Code: SIC Descriptin Approval Yea PO Box No: Country: Detail( <u>s)</u> Waste Class: Waste Class: <u>11</u> Well ID:	1 of 1 : on: rs: Desc: 1 of 1	ON89391 As of Dec	ESE/81.9 30 2018 312 P Pathological wastes	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility: ON Data Entry Status:	ve, Unit 9 C 6N5 Registered	
<u>10</u> Generator No SIC Code: SIC Descriptin Approval Yea PO Box No: Country: Detail(s) Waste Class: Waste Class: <u>11</u> Well ID: Construction	1 of 1 : on: rs: Desc: 1 of 1 Date:	ON89391 As of Dec Canada	<i>ESE/81.9</i> 30 2018 312 P Pathological wastes <i>N/101.5</i>	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility: MHSW Facility: Data Entry Status: Data Src:	ve, Unit 9 C 6N5 Registered	
<u>10</u> Generator No SIC Code: SIC Descriptin Approval Yea PO Box No: Country: <u>Detail(s)</u> Waste Class: <u>11</u> <u>11</u> Well ID: Construction Primary Wate	1 of 1 : on: rs: Desc: 1 of 1 Date: r Use:	ON89391 As of Dec Canada	<i>ESE/81.9</i> 30 2018 312 P Pathological wastes <i>N/101.5</i>	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility: MHSW Facility: Data Entry Status: Data Src: Date Received:	<b>ve, Unit 9</b> C 6N5 Registered	
<u>10</u> Generator No SIC Code: SIC Descriptin Approval Yea PO Box No: Country: <u>Detail(s)</u> Waste Class: <u>11</u> <u>11</u> Well ID: Construction Primary Wate Sec. Water Us	1 of 1 : on: rs: Desc: 1 of 1 Date: r Use: se:	ON89391 As of Dec Canada 1902833 Domestic	ESE/81.9 30 2018 312 P Pathological wastes N/101.5	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility: MHSW Facility: Data Entry Status: Data Src:	ve, Unit 9 C 6N5 Registered	
<u>10</u> Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: <u>Detail(s)</u> Waste Class: <u>Uaste Class:</u> <u>11</u> Well ID: Construction Primary Wate Sec. Water Us Final Well Sta Water Type:	1 of 1 : on: rs: Desc: 1 of 1 Date: r Use: se: itus:	ON89391 As of Dec Canada 1902833 Domestic 0	ESE/81.9 30 2018 312 P Pathological wastes N/101.5	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility: MHSW Facility: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor:	ve, Unit 9 C 6N5 Registered 1 3/10/1970 TRUE 2517	
<u>10</u> Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: <u>Detail(s)</u> Waste Class: <u>Uaste Class:</u> <u>11</u> Well ID: Construction Primary Wate Sec. Water Us Final Well Sta Water Type: Casing Mater	1 of 1 : on: rs: Desc: 1 of 1 Date: r Use: se: itus:	ON89391 As of Dec Canada 1902833 Domestic 0	ESE/81.9 30 2018 312 P Pathological wastes N/101.5	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility: MHSW Facility: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version:	ve, Unit 9 C 6N5 Registered 1 3/10/1970 TRUE	
<u>10</u> Generator No SIC Code: SIC Descriptin Approval Yea PO Box No: Country: Detail(s) Waste Class: Waste Class: Waste Class: <u>11</u> Well ID: Construction Primary Wate Sec. Water Ust Final Well Stat Water Type: Casing Mater Audit No:	1 of 1 : on: rs: Desc: 1 of 1 Date: r Use: se: itus:	ON89391 As of Dec Canada 1902833 Domestic 0	ESE/81.9 30 2018 312 P Pathological wastes N/101.5	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility: MHSW Facility: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	ve, Unit 9 C 6N5 Registered 1 3/10/1970 TRUE 2517	
<u>10</u> Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: <u>Detail(s)</u> Waste Class: <u>Uaste Class:</u> <u>11</u> Well ID: Construction Primary Wate Sec. Water Us Final Well Sta Water Type: Casing Mater	1 of 1 : on: rs: Desc: 1 of 1 Date: r Use: se: itus: ial:	ON89391 As of Dec Canada 1902833 Domestic 0	ESE/81.9 30 2018 312 P Pathological wastes N/101.5	3	1550 Bowmanville A Bowmanville ON L10 Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility: MHSW Facility: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version:	ve, Unit 9 C 6N5 Registered 1 3/10/1970 TRUE 2517	

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Order No: 22030700330

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	
Elevation (m): Elevation Reli Depth to Bedr Well Depth: Overburden/B Pump Rate: Static Water L Flowing (Y/N). Flow Rate: Clear/Cloudy:	iability: rock: Bedrock: .evel: :			Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	BOWMANVILLE TOWN
PDF URL (Maj		https://d2khazk8e83	dv.cloudfront.ne	et/moe_mapping/downloads	s/2Water/Wells_pdfs/190\1902833.pdf
Additional De	<u>tail(s) (Map)</u>				
Well Complete Year Complete Depth (m): Latitude: Longitude: Path:		1970/01/07 1970 89.916 43.9089019223155 -78.7014848536352 190\1902833.pdf			
Bore Hole Info	ormation				
Improvement Source Revisi	c: ed: 07-Jan rce Date: Location Source: Location Method: ion Comment:	387 -1970 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 684565.10 4864323.00 4 margin of error : 30 m - 100 m p4
Supplier Com <u>Overburden a</u> Materials Intel	nd Bedrock				
Formation ID: Layer: Color: General Color Mat1: Most Commol Mat2: Mat2 Desc: Mat3 Desc:	r: n Material:	931146999 1 05 CLAY 12 STONES			
<u>Overburden a</u>	d Depth: d Depth UOM: <u>nd Bedrock</u>	0.0 156.0 ft			
<u>Materials Inter</u> Formation ID: Layer:		931147000 2			

DB

• •	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color: General Color:		8 BLACK			
Mat1:		17			
Most Common I Mat2:	wateriai:	SHALE			
Mat2 Desc:					
Mat3:					
Mat3 Desc: Formation Top	Depth:	156.0			
Formation End Formation End	Depth:	295.0 ft			
<u>Method of Cons</u> <u>Use</u>	struction & Well				
Method Constru	ution ID:	961902833			
Method Constru		1			
Method Constru Other Method C		Cable Tool			
Pipe Information	<u>n</u>				
Pipe ID:		10620457			
Casing No:		1			
Comment:					
Alt Name:					
Construction Re	ecord - Casing				
Casing ID:		930129416			
Layer: Material:		1			
Open Hole or M	aterial:	STEEL			
Depth From:		150.0			
Depth To: Casing Diamete	r:	156.0 6.0			
<b>Casing Diamete</b>	er UOM:	inch			
Casing Depth U	OM:	ft			
Construction Re	ecord - Casing				
Casing ID:		930129417			
Layer: Material:		2 4			
Open Hole or M	aterial:	4 OPEN HOLE			
Depth From:					
Depth To: Casing Diamete	· ·	295.0			
Casing Diamete	r UOM:	inch			
Casing Depth U	ОМ:	ft			
Results of Well	<u>Yield Testing</u>				
Pump Test ID:		991902833			
Pump Set At:		70.0			
Static Level: Final Level Afte	r Pumpina:	70.0 295.0			
Recommended	Pump Depth:	250.0			
Pumping Rate:		2.0			
Flowing Rate: Recommended	Pump Rate:	2.0			
Levels UOM:		ft			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Rate UOM: Water State A Water State A	After Test Code:	GPM 1 CLEAR			
Pumping Tes		2			
Pumping Dur		4			
Pumping Dur	ation MIN:	0			
Flowing:		No			
<u>Draw Down 8</u>	Recovery				
Pump Test D	etail ID:	934920963			
Test Type: Test Duration		Recovery 60			
Test Level:		215.0			
Test Level UC	ОМ:	ft			
<u>Draw Down 8</u>	Recovery				
Pump Test D	etail ID:	934127961			
Test Type:		Recovery			
Test Duration Test Level:	1:	15 275.0			
Test Level UC	ОМ:	ft			
<u>Draw Down 8</u>	Recovery				
Pump Test D	etail ID:	934410479			
Test Type:		Recovery			
Test Duration	n:	30			
Test Level: Test Level U(	л <i>м</i> -	255.0 ft			
		it.			
<u>Draw Down 8</u>	Recovery				
Pump Test D	etail ID:	934671011			
Test Type: Test Duration	.,	Recovery 45			
Test Duration		235.0			
Test Level U	ОМ:	ft			
<u>Water Details</u>	i.				
Water ID:		933513397			
Layer:		1			
Kind Code: Kind:		1 FRESH			
Water Found	Depth:	156.0			
Water Found		ft			
<u>12</u>	1 of 1	S/111.9	119.8 / 2.05	WEST BOWMANVILLE DEV. LTD. BONNYCASTLE DR./GLEN RAY COURT NEWCASTLE TOWN ON	СА
Certificate #:		3-0717-93-			
Application Y	'ear:	93			
Issue Date:		7/5/1993			
Approval Typ Status:	e:	Municipal sewage Approved			
Status: Application T	vpe:	Approved			
Client Name:	, ,- <del></del>				
<b>Client Addres</b>	ss:				

Мар Кеу	Number Records		ion/ ice (m)	Elev/Diff (m)	Site	D
Client City: Client Posta Project Desc Contaminan Emission Co	cription: ts:					
<u>13</u>	1 of 1	N/118.3		119.9 / 2.10	ON	BOR
Borehole ID:	:	831617			Inclin FLG:	No
OGF ID:		215577909			SP Status:	Initial Entry
Status: -		Decommissioned			Surv Elev:	No
Type:		Borehole			Piezometer:	No
Use:		Geotechnical/Geolog	gical Inve	stigation	Primary Name:	
Completion		21-JUN-1968			Municipality:	
Static Water					Lot:	14 & 15
Primary Wat					Township:	Darlington
Sec. Water L					Latitude DD:	43.909119
Total Depth	<i>m:</i>	15.7			Longitude DD:	-78.701092
Depth Ref:		Ground Surface			UTM Zone:	17
Depth Elev:					Easting:	684596
Drill Method	:	Boring			Northing:	4864348
Orig Ground	l Elev m:	123			Location Accuracy:	
Elev Reliabil	l Note:				Accuracy:	Within 10 metres
DEM Ground	d Elev m:	122				
Concession:	:	1				
.ocation D: Survey D:		CPR (BO)	VMANVIL	LE N LTS) * OVE	RHEAD	
Comments:		W.L - no v	vater; hole	e caved to 6.71m		
Geology Stra Top Depth: Bottom Dept Material Colo Material 1: Material 2: Material 3: Material 4: Gsc Material Stratum Des	th: or: I Descriptior	Heteroger				Very Dense boulders throughout, very dense or hard, brow uncated [Stratum Description] field.
<u>14</u>	1 of 1	N/121.2		119.8 / 2.05	ON	BOR
Borehole ID:		831618			Inclin FLG:	No
Sorenoie ID: DGF ID:	•	215577910			SP Status:	Initial Entry
JGF ID: Status:		Decommissioned			SP Status: Surv Elev:	No
Status: Type:		Borehole			Surv Elev: Piezometer:	No
Use:		Geotechnical/Geolog	nical Invo	stination	Primary Name:	
Completion	Date <sup>.</sup>	03-JUL-1968	gioar mive:	Siguion	Municipality:	
Static Water		0.9			Lot:	14 & 15
Primary Water		0.0			Township:	Darlington
•					Latitude DD:	43.909115
Sec. Water L		9.6				-78.701353
Total Depth   Dopth Bof:		9.6 Ground Surface			Longitude DD:	-78.701353 17
Depth Ref:		Ground Sunace			UTM Zone:	
Depth Elev:		Poring			Easting:	684575
Drill Method		Boring			Northing:	4864347
Orig Ground		115			Location Accuracy:	
Elev Reliabil	I Note:				Accuracy:	Within 10 metres

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Order No: 22030700330

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
DEM Groun Concession Location D: Survey D: Comments:	:	120	1 CPR (BOWMANVIL	LE N LTS) * OVE	ERHEAD	
Borehole G	eology Strat	tum				
Geology Sti Top Depth: Bottom Dep Material Co Material 1: Material 2: Material 3: Material 4: Gsc Materia Stratum Des	ith: lor: Il Descriptio		Glacial till - Het. miv	.34 m depth, firm	to hard, brown to grey **Not	Firm glacial oulders up to 0.2m in diameter throughout, trace of te: Many records provided by the department have
<u>15</u>	1 of 1		SE/123.6	119.8 / 2.05	ON	WWIS
Well ID: Constructio Primary Wa Sec. Water Final Well S Water Type Casing Mate	ter Use: Use: tatus:	1900040 Domestic 0 Water Sup	ply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version:	1 8/5/1964 TRUE 2113 1

Clear/Cloudy: PDF URL (Map):

Audit No:

Elevation (m): Elevation Reliability:

Well Depth:

Pump Rate: Static Water Level:

Flow Rate:

Flowing (Y/N):

Depth to Bedrock:

Overburden/Bedrock:

Construction Method:

Tag:

https://d2khazk8e83rdv.cloudfront.net/moe\_mapping/downloads/2Water/Wells\_pdfs/190\1900040.pdf

DURHAM

BOWMANVILLE TOWN

Owner: Street Name:

County: Municipality:

Site Info:

Concession:

**Concession Name:** Easting NAD83:

Northing NAD83:

UTM Reliability:

Lot:

Zone:

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

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DI
Open Hole:				Org CS:		
Cluster Kind:				UTMRC:	5	
Date Complete	<b>d:</b> 29-Jun	-1964 00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m	
Remarks:				Location Method:	p5	
Elevrc Desc:						
Location Sourc						
	ocation Source:					
	ocation Method:					
Source Revisio Supplier Comn						
<u>Overburden an</u> Materials Interv						
Formation ID:		931135601				
Formation ID:		3				
Layer: Color:		2				
General Color:		Z GREY				
General Color: Mat1:		05				
Most Common	Matorial	CLAY				
Mat2:	material.	12				
Mat2 Desc:		STONES				
Mat3:		11				
Mat3 Desc:		GRAVEL				
Formation Top	Depth:	28.0				
Formation End		42.0				
Formation End	Depth UOM:	ft				
Overburden an Materials Interv						
Formation ID:		931135599				
Layer:		1				
Color:						
General Color:						
Mat1:		02				
Most Common	Material:	TOPSOIL				
Mat2:						
Mat2 Desc:						
Mat3: Mat3 Doco:						
Mat3 Desc: Formation Top	Denth:	0.0				
Formation Top Formation End		1.0				
Formation End		ft				
	- 5901 00111					
Overburden an Materials Interv						
Formation ID:		931135600				
Layer:		2				
Color:		6				
General Color:		BROWN				
Mat1: Most Common	Matarial	05 CLAY				
Most Common Mat2:	wateriai:	09				
Matz: Mat2 Desc:		09 MEDIUM SAND				
Matz Desc: Mat3:		MEDIUM SAND				
Mat3 Desc:		GRAVEL				
Formation Top	Denth:	1.0				
Formation End	Depth:	28.0				
Formation End		ft				
. Jimadon Lilu						

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method of Co Use	onstruction & Well				
Method Cons Method Cons Method Cons	struction Code:	961900040 1 Cable Tool			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		10617678 1			
Construction	n Record - Casing				
Casing ID: Layer: Material: Open Hole o Depth From: Depth To: Casing Diam Casing Diam Casing Depth	eter: eter UOM:	930126332 1 1 STEEL 27.0 6.0 inch ft			
<u>Construction</u>	n Record - Screen				
Screen ID: Layer: Slot:		933328650 1			
Screen Top I Screen End I Screen Mate	Depth:	27.0 42.0			
Screen Depti Screen Diam Screen Diam	eter UOM:	ft inch			

#### 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

Map Key Numbe Record		Elev/Diff (m)	Site		DB
Kind Code: Kind: Water Found Depth: Water Found Depth UO	1 FRESH 28.0 <b>M:</b> ft				
<u>16</u> 1 of 1	SE/125.6	119.8 / 2.05	ON		wwis
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:	1900026 Abandoned-Supply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 3/9/1959 TRUE 2202 1 DURHAM BOWMANVILLE TOWN	
PDF URL (Map): <u>Additional Detail(s) (Ma</u> Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:			et/moe_mapping/downloads	s/2Water/Wells_pdfs/190\1900026.pdf	
Bore Hole Information Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source Revision Comm Supplier Comment:	Method: ent:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC: UTMRC Desc: Location Method:	17 684733.10 4864017.00 5 margin of error : 100 m - 300 m p5	
<u>Overburden and Bedroo Materials Interval</u> Formation ID:	931135549				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		8			
Color: General Colo	or:				
Mat1:		11			
Most Commo Mat2:	on Material:	GRAVEL			
Mat2 Desc:					
Mat3:					
Mat3 Desc: Formation To	on Denth:	161.0			
Formation E	nd Depth:	162.0			
Formation E	nd Depth UOM:	ft			
<u>Overburden</u> <u>Materials Inte</u>	and Bedrock_ erval				
Formation ID	):	931135542			
Layer: Color:		1			
General Cold	or:				
Mat1: Most Commo	n Matorial:	23 PREVIOUSLY DUG			
Mat2:	n material.	TREVIOUSET DUG			
Mat2 Desc:					
Mat3: Mat3 Desc:					
Formation To	op Depth:	0.0			
Formation El	nd Depth: nd Depth UOM:	5.0 ft			
r onnution Ei					
<u>Overburden</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID	):	931135550			
Layer: Color:		9			
General Colo	or:				
Mat1:		15			
Most Commo Mat2:	on Material:	LIMESTONE			
Mat2 Desc:					
Mat3: Mat3 Decei					
Mat3 Desc: Formation To	op Depth:	162.0			
Formation E	nd Depth:	180.0			
Formation El	nd Depth UOM:	ft			
<u>Overburden</u> Materials Inte	and Bedrock_ erval				
Formation ID	):	931135545			
Layer: Color:		4			
General Colo	or:				
Mat1:		11 ODAV/51			
Most Commo Mat2:	on Material:	GRAVEL			
Mat2 Desc:					
Mat3: Mat3 Daga:					
Mat3 Desc: Formation To	op Depth:	61.0			
Formation E	nd Depth:	62.0			
Formation E	nd Depth UOM:	ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>Overburden</u> Materials Inte	and Bedrock erval					
Formation ID	):	931135546				
Layer: Color:		5 3				
General Cold	or:	BLUE				
Mat1: Most Commo	n Matarial:	05 CLAY				
Mat2:	n waterial.	OLAT				
Mat2 Desc:						
Mat3: Mat3 Desc:						
Formation To		62.0				
Formation El	nd Depth: nd Depth UOM:	98.0 ft				
Formation El	na Deptri OOM:	п				
<u>Overburden</u> Materials Inte	<u>and Bedrock</u> erval					
Formation ID	):	931135548				
Layer:		7				
Color: General Colo	or.	3 BLUE				
Mat1:		05				
Most Commo Mat2:	on Material:	CLAY				
Mat2 Desc:						
Mat3:						
Mat3 Desc: Formation To	op Depth:	101.0				
Formation E	nd Depth: nd Depth UOM:	161.0 ft				
	and Bedrock					
<u>Materials Inte</u>	<u>erval</u>					
Formation ID	):	931135547				
Layer: Color:		6				
General Cold	or:					
Mat1: Most Commo	n Matarial:	11 GRAVEL				
Mat2:	n waterial.	GINAVEL				
Mat2 Desc:						
Mat3: Mat3 Desc:						
Formation To	op Depth:	98.0				
Formation El Formation El	nd Depth: nd Depth UOM:	101.0 ft				
<u>Overburden</u> Materials Inte	and Bedrock erval					
Formation ID	):	931135543				
Layer:		2				
Color: General Colo	or:	6 BROWN				
Mat1:		05				
Most Commo Mat2:	on Material:	CLAY 13				

Map Key	Number Records		Elev/Diff ı) (m)	Site		DB
Mat2 Desc:		BOULDERS				
Mat3:						
Mat3 Desc:						
Formation To	p Depth:	5.0				
Formation En		32.0				
Formation En	d Depth U	<b>OM:</b> ft				
<u>Overburden a</u> Materials Inte		<u>k</u>				
		001405544				
Formation ID:		931135544				
Layer:		3				
Color:						
General Color Matti	r:	11				
Mat1:		11 GRAVEL				
Most Commo	n materiai:					
Mat2:		05				
Mat2 Desc:		CLAY				
Mat3:						
Mat3 Desc:	n Danthi	22.0				
Formation To		32.0 61.0				
Formation En Formation En	d Deptn: d Depth I l					
ronnauon En	a Depth O					
Method of Co	nstruction	& Well				
<u>Use</u>						
Method Cons	truction ID	: 961900026				
Method Cons						
Method Cons Method Cons		Cable Tool				
Other Method						
Pipe Informat	<u>ion</u>					
		10617664				
Pipe ID: Cooing No.		10017004				
Casing No: Comment:		Ι				
Alt Name:						
An Name.						
Construction	<u>Record - C</u>	Casing				
Casing ID:		930126313				
Layer:		1				
Material:						
Open Hole or	Material:					
Depth From:						
Depth To:						
Casing Diame		4.0				
Casing Diame		inch				
Casing Depth	UOM:	ft				
<u>17</u>	1 of 1	N/132.2	119.8 / 2.05	ON		BORE
Damaka L. ID		804640			Nia	
Borehole ID:		831619		Inclin FLG:	No Initial Entry	
OGF ID:		215577911		SP Status:	Initial Entry	
Status:		Decommissioned		Surv Elev:	No	
Type:		Borehole	vention	Piezometer:	No	
Use: Completion D	ator	Geotechnical/Geological In	พธรแฐลแบท	Primary Name: Municipality:		
Completion D Static Water L		04-JUL-1968		Municipality:	14 & 15	
อเลนc vvater L				Lot: Township:	14 & 15 Darlington	
Primary Wate						

	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		D
Sec. Water Use:	,				Latitude DD:	43.909238	
Total Depth m:		6.6			Longitude DD:	-78.701187	
Depth Ref:		Ground St	irface		UTM Zone:	17	
•		Ground St	liace			684588	
Depth Elev:		D a site a			Easting:		
Drill Method:		Boring			Northing:	4864361	
Orig Ground Ele	ev m:	115			Location Accuracy:		
Elev Reliabil Not	te:				Accuracy:	Within 10 metres	
DEM Ground Ele	ev m:	119					
Concession:			1				
ocation D:			CPR (BOWMANVIL	LENLTS) * OVE	RHFAD		
Survey D:				,,			
Comments:							
Borehole Geolog	gy Stratu	<u>m</u>					
Geology Stratun	n ID:	6007360			Mat Consistency:	Stiff	
Top Depth:		0			Material Moisture:		
Bottom Depth:		6.6			Material Texture:		
Material Color:		Brown-Gre	ev		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	
Ssc Material Des	•						
Stratum Descrip	buon:					trace of organics at about 1.28n nave a truncated [Stratum Desc	
<u>18</u> 1 0	of 1		N/138.1	119.8 / 2.05	ON		BOR
_	of 1	831621	N/138.1	119.8 / 2.05		No	BOF
Borehole ID:	of 1	831621		119.8 / 2.05	Inclin FLG:	No Initial Entry	BOF
	of 1	21557791	3	119.8 / 2.05	Inclin FLG: SP Status:	Initial Entry	BOF
Borehole ID: DGF ID: Status:	of 1	21557791 Decommis	3	119.8 / 2.05	Inclin FLG: SP Status: Surv Elev:	Initial Entry No	BOF
— Borehole ID: DGF ID: Status: Type:	of 1	21557791 Decommis Borehole	3 sioned		Inclin FLG: SP Status: Surv Elev: Piezometer:	Initial Entry	BOF
Borehole ID: DGF ID: Status: Type: Jse:		21557791 Decommis Borehole Geotechni	3 ssioned cal/Geological Inve		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name:	Initial Entry No	BOF
	e <i>:</i>	215577913 Decommis Borehole Geotechni 28-JUN-19	3 ssioned cal/Geological Inve		Inclin FLG: SP Status: Surv Elev: Piezometer:	Initial Entry No No	BOF
	e <i>:</i>	21557791 Decommis Borehole Geotechni	3 ssioned cal/Geological Inve		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name:	Initial Entry No	BOF
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev	e: /el:	215577913 Decommis Borehole Geotechni 28-JUN-19	3 ssioned cal/Geological Inve		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality:	Initial Entry No No	BOF
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U	e: /el: Jse:	215577913 Decommis Borehole Geotechni 28-JUN-19	3 ssioned cal/Geological Inve		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township:	Initial Entry No No 14 & 15 Darlington	BO
Gorehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use:	e: /el: Jse:	215577913 Decommis Borehole Geotechni 28-JUN-19 0.8	3 ssioned cal/Geological Inve		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD:	Initial Entry No No 14 & 15 Darlington 43.909261	BO
Borehole ID: OGF ID: Status: Fype: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Fotal Depth m:	e: /el: Jse:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8	3 ssioned cal/Geological Inve 968		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Lot: Township: Latitude DD: Longitude DD:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141	BOF
Borehole ID: DGF ID: Status: Type: See: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref:	e: /el: Jse:	215577913 Decommis Borehole Geotechni 28-JUN-19 0.8	3 ssioned cal/Geological Inve 968		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Lot: Township: Latitude DD: Longitude DD: UTM Zone:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17	BO
Borehole ID: DGF ID: Status: Fype: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Fotal Depth m: Depth Ref: Depth Elev:	e: /el: Jse:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground St	3 ssioned cal/Geological Inve 968		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570	BOF
Gorehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Les Static Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method:	e: /el: Jse:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring	3 ssioned cal/Geological Inve 968		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17	BOF
Gorehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Les Static Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method: Drig Ground Ele	e: vel: Jse: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground St	3 ssioned cal/Geological Inve 968		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363	BO
Gorehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Les Static Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method: Drig Ground Ele	e: vel: Jse: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring	3 ssioned cal/Geological Inve 968		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570	BOF
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Les Static Water Use: Total Depth m: Depth Ref: Depth Elev: Drig Ground Ele Elev Reliabil Not	e: vel: Jse: ev m: te:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring	3 ssioned cal/Geological Inve 968		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363	BOF
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Static Water Use: Total Depth m: Depth Ref: Depth Ref: Depth Elev: Drig Ground Ele Elev Reliabil Not DEM Ground Ele	e: vel: Jse: ev m: te:	215577913 Decommiss Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115	3 ssioned cal/Geological Inve 968		Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363	BOF
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method: Drig Ground Ele Elev Reliabil Not DEM Ground Ele Concession:	e: vel: Jse: ev m: te:	21557791: Decommiss Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363	BOF
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method: Dig Ground Ele Elev Reliabil Not DEM Ground Ele Concession: Location D:	e: vel: Jse: ev m: te:	21557791: Decommiss Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118	3 ssioned cal/Geological Inve 968	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363	BOF
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Elev: Depth Elev: Drig Ground Ele Elev Reliabil Not DEM Ground Ele Concession: Location D: Survey D:	e: vel: Jse: ev m: te:	21557791: Decommiss Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363	BOI
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Ref: Depth Elev: Drill Method: Drig Ground Ele Elev Reliabil Not DEM Ground Ele Concession: Location D: Survey D: Comments:	e: /el: Jse: ev m: te: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363	BOF
Borehole ID: DGF ID: Status: Type: Use: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method: Drig Ground Ele Elev Reliabil Not DEM Ground Ele Concession: Location D: Survey D: Comments: Borehole Geolog	e: /se: /se: ev m: te: ev m: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363 Within 10 metres	BO
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Elev: Drig Ground Ele Elev Reliabil Not DEM Ground Ele Concession: Location D: Survey D: Comments: Borehole Geolog	e: /se: /se: ev m: te: ev m: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363	BO
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Elev: Drig Ground Ele Elev Reliabil Not Drig Ground Ele Concession: Location D: Survey D: Comments: Borehole Geolog Geology Stratun Top Depth:	e: /se: /se: ev m: te: ev m: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118 <b>m</b> 6007362 0	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy: ERHEAD	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363 Within 10 metres	BO
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Static Water Use: Total Depth m: Depth Ref: Depth Elev: Drig Ground Ele Elev Reliabil Not DEM Ground Ele Concession: Location D: Survey D: Comments: Borehole Geolog Geology Stratun Top Depth: Bottom Depth:	e: /se: /se: ev m: te: ev m: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118 <b>m</b> 6007362 0 6.6	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy: ERHEAD	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363 Within 10 metres	BO
Borehole ID: DGF ID: Status: Sype: Jse: Completion Date Static Water Lev Static Water Use: Total Depth m: Depth Ref: Depth Ref: Depth Elev: Drig Ground Ele Elev Reliabil Not Drig Ground Ele Concession: Location D: Survey D: Comments: Borehole Geolog Geology Stratum Top Depth: Bottom Depth: Material Color:	e: /se: /se: ev m: te: ev m: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118 <b>m</b> 6007362 0 6.6 Grey	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy: ERHEAD	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363 Within 10 metres	BO
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Ref: Depth Elev: Drill Method: Drig Ground Ele Concession: Location D: Survey D: Comments: Borehole Geolog Geology Stratun Top Depth: Bottom Depth: Material Color: Material 1:	e: /se: /se: ev m: te: ev m: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118 <b>m</b> 6007362 0 6.6 Grey Till	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy: ERHEAD	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363 Within 10 metres	BOI
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method: Drill Method: Drill Method: Diff Ground Ele Concession: Location D: Survey D: Comments: Borehole Geolog Geology Stratun Top Depth: Bottom Depth: Material Color: Material 2:	e: /se: /se: ev m: te: ev m: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118 <b>m</b> 6007362 0 6.6 Grey Till Clay	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy: ERHEAD Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group:	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363 Within 10 metres	BO
Borehole ID: DGF ID: Status: Type: Jse: Completion Date Static Water Lev Primary Water U Sec. Water Use: Total Depth m: Depth Ref: Depth Ref: Depth Elev: Drill Method: Drig Ground Ele Concession: Location D: Survey D: Comments: Borehole Geolog Geology Stratun Top Depth: Bottom Depth: Material Color: Material 1:	e: /se: /se: ev m: te: ev m: ev m:	21557791: Decommis Borehole Geotechni 28-JUN-19 0.8 6.6 Ground Su Boring 115 118 <b>m</b> 6007362 0 6.6 Grey Till	3 isioned cal/Geological Inve 968 urface 1	stigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy: ERHEAD	Initial Entry No No 14 & 15 Darlington 43.909261 -78.70141 17 684570 4864363 Within 10 metres	BO

Material 4: S Gsc Material Description: Stratum Description:

Glacial till - Het. mixture of clay, silt, sand and gravel, occasional boulders up to 0.15m diameter throughout, trace

	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	
				ut 1.37m depth, ver a truncated [Stratun		e, grey **Note: Many records provided by the
<u>19</u>	1 of 1	E	SE/145.9	111.8 / -6.00	ON	wi
Well ID: Constructio Primary Wa Sec. Water ( Final Well S Water Type: Casing Mate Audit No: Tag: Constructio Elevation ( Elevation Ra Depth to Be Well Depth: Overburden Pump Rate: Static Water Flowing (Y/I	ter Use: Use: Status: erial: on Method: n): eliability: edrock: n/Bedrock: r Level:	1900027 Domestic 0 Water Supply	,		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone:	1 5/2/1961 TRUE 5422 1 DURHAM BOWMANVILLE TOWN
Flow Rate: Clear/Cloud PDF URL (M	ly:	http	os://d2khazk8e8	33rdv.cloudfront.ne	UTM Reliability:	s/2Water/Wells_pdfs/190\1900027.pdf
Additional [	Detail(s) (Ma	<u>p)</u>				
Year Compl Depth (m): Latitude: Longitude:		195 48. 43. -78	59/02/14 59 768 906803112556 .698751286745 )\1900027.pdf			
Well Comple Year Compl Depth (m): Latitude: Longitude: Path: Bore Hole It	leted:	195 48. 43. -78	59 768 906803112556 .69875128674			
Year Compl Depth (m): Latitude: Longitude: Path: Bore Hole II DP2BR: Spatial Stati Code OB: Code OB De Den Hole: Cluster Kind Date Compl Remarks: Elevrc Desc Location So Improvemel	leted: nformation D: us: esc: d: leted: c: ource Date: nt Location ision Comm	195 48. 43. -78 190 10069095 10069095 14-Feb-1959 Source: Method:	59 768 906803112556 .69875128674 0\1900027.pdf		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 684791.10 4864096.00 5 margin of error : 100 m - 300 m p5
Year Compl Depth (m): Latitude: Longitude: Path: Bore Hole II DP2BR: Spatial Stati Code OB: Code OB De Dpen Hole: Cluster Kind Date Compl Remarks: Elevrc Desc Location So Improvement Source Revis	leted: <u>nformation</u> D: us: esc: d: leted: s: ource Date: nt Location nt Location ision Common omment: <u>n and Bedroo</u>	195 48. 43. -78 190 10069095 10069095 14-Feb-1959 Source: Method: ient:	59 768 906803112556 .69875128674 0\1900027.pdf		Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	684791.10 4864096.00 5 margin of error : 100 m - 300 m

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Colo	or:	GREY			
Mat1: Most Commo	on Material:	05 CLAY			
Mat2:	material.	13			
Mat2 Desc:		BOULDERS			
Mat3: Mat3 Desc:					
Formation To	op Depth:	0.0			
Formation Er Formation Er	nd Depth: nd Depth UOM:	20.0 ft			
<u>Overburden a</u> Materials Inte					
Formation ID	):	931135552			
Layer:		2			
Color: General Colo		2 GREY			
Mat1:	<i>n</i> .	05			
Most Commo	on Material:	CLAY			
Mat2: Mat2 Desc:		12 STONES			
Mat2 Dese. Mat3:		OTONLO			
Mat3 Desc:	D (1	00.0			
Formation To Formation E		20.0 160.0			
	nd Depth UOM:	ft			
<u>Method of Co Use</u>	onstruction & Well				
Method Cons		961900027			
Method Cons Method Cons	struction Code:	1 Cable Tool			
	d Construction:				
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID:		10617665			
Casing No: Comment:		1			
Alt Name:					
<u>Construction</u>	Record - Casing				
Casing ID:		930126314			
Layer: Material:		1 1			
Material: Open Hole of	r Material:	STEEL			
Depth From:		400.0			
Depth To: Casing Diam	otor:	160.0 7.0			
Casing Diam	eter UOM:	inch			
Casing Dept	h UOM:	ft			
<u>Results of W</u>	ell Yield Testing				
Pump Test IL		991900027			
Pump Set At. Static Level:		14.0			
Final Level A	fter Pumping:	60.0			
Recommend	ed Pump Depth:				

Мар Кеу	Number Records		Direction/ Distance (m	Elev/Diff ) (m)	Site		D
Pumping Rate Flowing Rate: Recommende		ate:	24.0				
Levels UOM:	un ump ne		ft				
Rate UOM:			GPM				
Nater State A	fter Test C	ode:	1				
Vater State A			CLEAR				
Pumping Test			1				
Pumping Dura			14				
Pumping Dura Flowing:	ation win:		0 No				
Water Details							
Water ID:			933510555				
Layer: Kind Code:			1				
Kind Code: Kind:			r FRESH				
Water Found	Depth:		90.0				
Nater Found		1:	ft				
<u>20</u>	1 of 1		N/147.8	119.7 / 1.91	ON		BOR
Borehole ID:		831620			Inclin FLG:	No	
OGF ID:		2155779	12		SP Status:	Initial Entry	
Status:		Decomm			Surv Elev:	No	
Гуре:		Borehole			Piezometer:	No	
Jse:		Geotech	nical/Geological In	vestigation	Primary Name:		
Completion D	ate:	05-JUL-1	1968		Municipality:		
Static Water L	.evel:				Lot:	14 & 15	
Primary Wate					Township:	Darlington	
Sec. Water Us					Latitude DD:	43.909374	
Total Depth m	:	9.6	<b>.</b> .		Longitude DD:	-78.701244	
Depth Ref:		Ground S	Surface		UTM Zone:	17	
Depth Elev: Drill Method:		Boring			Easting:	684583 4864376	
Orig Ground E	lov m:	115			Northing: Location Accuracy:	4804370	
Elev Reliabil N		110			Accuracy:	Within 10 metres	
DEM Ground		118			Accuracy.		
Concession:			1				
Location D:				/ILLE N LTS) * OVE	ERHEAD		
Survey D: Comments:							
Borehole Geo	<u>logy Stratu</u>	<u>ım</u>					
Geology Strat	um 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: Material 4:		Silt Sand			Geologic Period: Depositional Gen:	dacial	
material 4: Gsc Material L	Description				Depositional Gen:	glacial	
Stratum Desc				dense or hard **Not		boulders up to 0.20m diame / the department have a trun	
	1 of 1		N/153.4	119.8 / 2.05	HIGHWAY 57 AND HI		

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Well ID: Construction Primary Wate Sec. Water U Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation Rei Depth to Bed Well Depth: Overburden// Pump Rate: Static Water Flowing (Y/N Flow Rate: Clear/Cloudy	er Use: Monitor Ise: 0 atus: Monitor rial: Z21409 A17955 Method: Iiability: Irock: Bedrock: Level: ):	ing and Test Hole ing and Test Hole 5		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	3/14/2016 TRUE 7247 7 HIGHWAY 57 AND HIGHWAY 2 DURHAM NEWCASTLE TOWN (DARLINGTON)	
PDF URL (Ma	ар):	https://d2khazk8e83	3rdv.cloudfront.n	et/moe_mapping/downloads	s/2Water/Wells_pdfs/725\7259230.pdf	
Additional De	etail(s) (Map)					
Well Complet Year Comple Depth (m): Latitude: Longitude: Path:		2015/05/19 2015 9.144 43.9093800085058 -78.7015299584654 725\7259230.pdf				

#### Bore Hole Information

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

Improvement Location Method: Source Revision Comment: Supplier Comment:

#### <u>Overburden and Bedrock</u> <u>Materials Interval</u>

1006033578
3
6
BROWN
28
SAND
11
GRAVEL
66
DENSE

nber of ords	Direction/ Distance (m)	Elev/Diff (m)	Site	D
oth: oth: oth UOM:	22.0 25.0 ft			
edrock_				
	1006033579			
	28			
erial:	SAND			
	06			
th				
oth UOM:	ft			
edrock_				
erial:	FILL			
	11			
th.				
oth UOM:	ft			
edrock_				
	100000577			
	BROWN			
	06			
erial:	SILT			
	66			
th:				
oth:	22.0			
oth UOM:	ft			
ndonment				
	1006033587			
	1			
	0.0			
	24.0			
	erial: th: th: th: th: th: th: th: th: th: th	eords Distance (m) th: 22.0 th: 25.0 th UOM: ft edrock erial: 1006033579 4 2 GREY 28 SAND 06 SILT 66 DENSE th: 25.0 th: 25.0 SAND 06 SILT 66 BROWN 01 ft edrock th: 7.0 th UOM: ft 1006033576 1 6 BROWN 01 FILL 11 GRAVEL 66 BROWN 01 FILL 11 GRAVEL 66 BROWN 01 ft th: 7.0 th UOM: ft edrock th: 7.0 th UOM: ft Harmonic ft edrock th: 7.0 th UOM: ft 1006033577 2 6 BROWN 06 BROWN 01 FILL 11 GRAVEL 66 DENSE th: 7.0 th UOM: ft Harmonic ft 1006033577 2 6 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN 07 BROWN	Distance (m)         (m)           th:         22.0           th:         25.0           th UOM:         ft           edrock.         1006033579           4         2           GREY         28           erial:         SAND           06         SILT           66         DENSE           th:         25.0           th:         20           GREY         28           erial:         SAND           06         SILT           66         DENSE           th:         30.0           th UOM:         ft           edrock         10060033576           f         6           BROWN         01           erial:         FILL           11         GRAVEL           66         DENSE           th:         0.0           th:         7.0           th UOM:         ft           edrock         1006033577           e         BROWN           06         SILT           edrock         Z           erial:         SILT           edr	bitsence (m)         (m)           th:         22.0           th:         25.0           th:         25.0           th:         25.0           th:         25.0           th:         25.0           th:         25.0           th:         1006033579           4         2           gREY         28           arial:         SAND           06         SLT           DENSE         5LT           th:         25.0           th:         25.0           DENSE         5LT           th:         30.0           th:         25.0           th:         25.0           th:         30.0           th:         25.0           th:         25.0           th:         30.0           th:         30.0           th:         25.0           th:         1006033576           1         6           BROWN         01           th:         7.0           th:         7.0           th:         7.0           th:         7.0

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug Depth U	IOM:	ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction Code:	1006033586 2 Rotary (Convent.)			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1006033575 0			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diam Casing Diam Casing Depth	eter: eter UOM:	1006033582 1 5 PLASTIC 0.0 25.0 2.0 inch ft			
<u>Construction</u>	Record - Screen				
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mater Screen Diam Screen Diam	Depth: rial: h UOM: eter UOM:	1006033583 1 10 25.0 30.0 5 ft inch 2.125			
Water Details	2				
Water ID: Layer: Kind Code: Kind: Water Found Water Found	Depth: Depth UOM:	1006033581 1 8 Untested 24.0 ft			
<u>Hole Diamete</u>	er				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM:	1006033580 8.25 0.0 30.0 ft inch			

	lumber of Records	Direction/ Distance (n	Elev/Diff n) (m)	Site	DE
<u>22</u> 1 c	of 1	N/156.7	119.8 / 2.05	ON	BORE
Borehole ID:	63,	1622		Inclin FLG:	No
		5577914			
OGF ID:				SP Status:	Initial Entry
Status: –		commissioned		Surv Elev:	No
Туре:		rehole		Piezometer:	No
Use:		otechnical/Geological Ir	nvestigation	Primary Name:	
Completion Date		JUN-1968		Municipality:	
Static Water Lev				Lot:	14 & 15
Primary Water U	se:			Township:	Darlington
Sec. Water Use:				Latitude DD:	43.909424
Total Depth m:	15.	4		Longitude DD:	-78.701466
Depth Ref:	Gro	ound Surface		UTM Zone:	17
Depth Elev:				Easting:	684565
Drill Method:	Bo	ring		Northing:	4864381
Orig Ground Ele				Location Accuracy:	
Elev Reliabil Not		-		Accuracy:	Within 10 metres
DEM Ground Ele		2		Accuracy.	
Concession:	<b>v III.</b> 113	, 1			
			IVILLE N LTS) * OVE		
Location D:		CPR (BOWWAN	IVILLE IN LIS) OVE	ERNEAD	
Survey D:			1 11 0 00		
Comments:		No water level; r	nole caved to 8.08m		
Borehole Geolog	<u>ay Stratum</u>				
Geology Stratum		07363		Mat Consistency:	Hard
Top Depth:	0			Material Moisture:	
Bottom Depth:	15.			Material Texture:	
Material Color:	Bro	own-Grey		Non Geo Mat Type:	
Material 1:	Till			Geologic Formation:	
Material 2:	Cla	ıу		Geologic Group:	
Material 3:	Silt			Geologic Period:	
Material 4:	Sai	nd		Depositional Gen:	glacial
Gsc Material Des	scription:			•	5
Stratum Descrip	tion:	Glacial till - Het. very dense, brov Description] fielc	vn to grey **Note: M	sand and gravel, occasional any records provided by the	I boulders up to 0.2m diameter throughout, hard e department have a truncated [Stratum
<u>23</u> 1 c	of 4	S/168.9	119.8 / 2.05	LAWN RANGERS (B 105 BONNYCASTLE	PF.
				BOWMANVILLE ON	
Detail Licence N	о:			<b>Operator Box:</b>	
Licence No:				Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:				Oper Area Code:	
Licence Type:				Oper Phone No:	
Licence Type Co	ode:			Operator Ext:	
Licence Class:				Operator Lot:	
Licence Control:	•			Oper Concession:	
Latitude:				Operator Region:	
Longitude:				Operator District:	
-				-	
Lot: Concoccioni				Operator County:	
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	
County:				SWP Area Name:	
Trade Name:					
PDF Link:					

PDF Link: PDF Site Location:

Мар Кеу	Numbe Record		Direction/ Distance (m	Elev/Diff ) (m)	Site		DB
<u>23</u>	2 of 4		S/168.9	119.8 / 2.05	LAWN RANGERS (B 105 BONNYCASTLE BOWMANVILLE ON	DRIVE	PES
Detail Licem Licence No: Status: Approval Da Report Sour Licence Typ Licence Cla: Licence Cor Latitude: Longitude: Lot: Concession Region: District: County: Trade Name PDF Link: PDF Site Lo	ate: rce: pe Code: ss: ntrol: :	Operator 02			Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Operator Region: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:		
<u>23</u>	3 of 4		S/168.9	119.8 / 2.05	LAWN RANGERS (B 105 BONNYCASTLE BOWMANVILLE ON	DRIVE	PES
Detail Licen Licence No: Status: Approval Da Report Sour Licence Typ Licence Clas Licence Cor Latitude: Longitude: Lot: Concession Region: District: County: Trade Name PDF Link: PDF Site Lo	ate: rce: pe: code: ss: ntrol: :	04638 Legacy Lic Operator 02 01	censes (Excluding	g TS)	Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:	905 6973737	
<u>23</u>	4 of 4		S/168.9	119.8 / 2.05	LAWN RANGERS (B 105 BONNYCASTLE BOWMANVILLE ON	DRIVE	PES
Detail Licen Licence No: Status: Approval Da Report Sour Licence Typ Licence Typ Licence Clas Licence Cor	ate: rce: be: be Code: ss:	04638 Legacy Lid Operator 01 06	censes (Excluding	g TS)	Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession:	905 6973737	

Certificate #:       3-0429-94- 94         Application Year:       94         Save Date:       5/11/1994         Approval Type:       Municipal sewage         Status:       Approved         Client Address:       Client Address:         Client Address:       Client Address:         Client Address:       Client Address:         Client Address:       Client Address:         Client Address:       Contaminants:         Emission Control:       5/11/1994         Approved Type:       94         Approxed Type:       Municipal water         Application Type:       Contaminants:         Emission Control:       5/11/1994         Approved Type:       Municipal water         Approved Type:       Municipal water         Approved Type:       Municipal water         Approved Type:       Client Address:         Client Address:       Client Address:         Client Address:       Approved         Approved Type:       Municipal water         Approved Type:       Municipal water         Status:       Approved         Approved Type:       Client Address:         Client Address:       Client Address:         Cli	Map Key	Number Records		Elev/Diff (m)	Site	DB
Employee     FRY CRES.E./ASPEN SPRINGS BLVD     C       Certificate #:     3-0429-94-       Application Year:     94       Issue Date:     5/11/1994       Approved Type:     Municipal sewage       Status:     Approved       Application Type:     Municipal sewage       Client Name:     Client Name:       Client Name:     Client Name:       Client Address:     Client Code:       Project Description:     Control:         24     2 of 2       SW/172.0     118.0 / 0.16       MARTIN ROAD HOLDINGS LIMITED     FRY CRES.E./ASPEN SPRINGS BLVD       Certificate #:     7-0320-94-       Application Year:     94       Approved     Suppoved       Approved     Suppoved       Approved     Suppoved       Client Name:     Situs:       Client Name:     Situs:       Client Name:     Situs:       Client Name:     Approved       Client Name:     Situs:       Client Name:     Apple Tree Denti	Longitude: Lot: Concession: Region: District: County: Trade Name: PDF Link:	ation:			<i>Operator District: Operator County: Op Municipality: Post Office Box: MOE District:</i>	
Application Year:       94         Esue Date:       5111/1994         Approval Type:       Municipal sewage         Status:       Approved         Application Type:       Client Address:         Client Name:       Client Address:         Client Address:       Client City:         Client Code:       Project Description:         Contaminants:       Emission Control:         24       2 of 2         SW/172.0       118.0 / 0.16         MARTIN ROAD HOLDINGS LIMITED         Froject Description:         Contaminants:         Emission Control:         24       2 of 2         SW/172.0       118.0 / 0.16         Martin ROAD HOLDINGS LIMITED         Fr Y CRES.E./ASPEN SPRINGS BLVD         Certificate #:       7-0320-94-         Application Year:       94         Issue Date:       5/11/1994         Approved       Approved         Approved       Approved         Approved       Seproved         Approved       Approved         Approved       Approved         Sidue:       Sec/174.8       119.8 / 2.05         Apple Tree Dentistry Bowmanville       Sec/174.8	<u>24</u>	1 of 2	SW/172.0	118.0 / 0.16	FRY CRES.E./ASPEN SPRINGS BLVD	CA
Certificate #:       7-0320-94- Application Year:       94         Issue Date:       5/11/1994         Approval Type:       Municipal water         Status:       Approved         Application Type:       Municipal water         Client Name:       Client Name:         Client Address:       Client Address:         Client Postal Code:       Project Description:         Contaminants:       Emission Control:         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       Status:       Registered Co Admin:       Co Admin:         SIC Code:       Co Admin:       Choice of Contact:       Phone No Admin:         Approval Years:       As of Jul 2020       Phone No Admin:       Phone No Admin:	Application Ye Issue Date: Approval Type Status: Application Ty Client Name: Client Addres. Client City: Client Postal O Project Descrit Contaminants	e: ype: s: Code: iption: s:	94 5/11/1994 Municipal sewage			
Application Year:       94         Issue Date:       5/11/1994         Approval Type:       Municipal water         Status:       Approved         Application Type:       Client Name:         Client Name:       Client Address:         Client Address:       Code:         Project Description:       Code:         Contaminants:       Emission Control:         25       1 of 4         SSE/174.8       119.8 / 2.05         Apple Tree Dentistry Bowmanville       Client Control:         25       1 of 4         SSE/174.8       119.8 / 2.05         Apple Tree Dentistry Bowmanville       Client Control:         6EN       Code:         Code:       Code:         SIC Code:       Co Admin:         SIC Code:       Choice of Contact:         Approval Years:       As of Jul 2020         Phone No Admin:       Contam: Facility:	<u>24</u>	2 of 2	SW/172.0	118.0 / 0.16	FRY CRES.E./ASPEN SPRINGS BLVD	СА
Image: Constraint of the second state of the seco	Application Ye Issue Date: Approval Type Status: Application Ty Client Name: Client Addres. Client City: Client Postal O Project Descrit Contaminants	e: ype: s: Code: iption: s:	94 5/11/1994 Municipal water			
SIC Code:       Co Admin:         SIC Description:       Choice of Contact:         Approval Years:       As of Jul 2020       Phone No Admin:         PO Box No:       Contam. Facility:	<u>25</u>	1 of 4	SSE/174.8	119.8 / 2.05	1550 Bowmanville Avenue Unit 7	GEN
<u>Detail(s)</u>	SIC Code: SIC Descriptic Approval Yeai PO Box No: Country:	on:	As of Jul 2020		Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:	

Мар Кеу	Numbe Record		Elev/Diff ) (m)	Site	DB
Waste Class Waste Class		312 P Pathological was	tes		
<u>25</u>	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 N SIC Code: SIC Descript Approval Ye PO Box No: Country:	tion: ears:	ON8939130 As of Jul 2020 Canada		Status:RegisteredCo Admin:Choice of Contact:Phone No Admin:Contam. Facility:MHSW Facility:	
<u>Detail(s)</u>					
Waste Class Waste Class		312 P Pathological was	tes		
<u>25</u>	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 N SIC Code: SIC Descript Approval Ye PO Box No: Country:	tion: ears:	ON8939130 As of Nov 2021 Canada		Status:RegisteredCo Admin:Choice of Contact:Phone No Admin:Contam. Facility:MHSW Facility:	
<u>Detail(s)</u>					
Waste Class Waste Class	-	312 P Pathological was	tes		
<u>25</u>	4 of 4	SSE/174.8	119.8 / 2.05	Apple Tree Dentistry Bowmanville 1550 Bowmanville Avenue Unit 7 Bowmanville ON L1C3K7	GEN
Generator N SIC Code: SIC Descript Approval Ye PO Box No: Country:	tion:	ON6480718 As of Nov 2021 Canada		Status:RegisteredCo Admin:Choice of Contact:Phone No Admin:Contam. Facility:MHSW Facility:	
<u>Detail(s)</u>					
Waste Class Waste Class		312 P Pathological was	tes		
<u>26</u>	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 N SIC Code: SIC Descript Approval Ye PO Box No:	tion:	ON8939130 541940 Veterinary Services 2010		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:	

Map Key	Numbe Record		Elev/Diff (m)	Site	DB
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class		312 PATHOLOGICAL V	VASTES		
<u>26</u>	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 SIC Code: SIC Descripti Approval Yea PO Box No: Country:	ion:	ON8939130 541940 Veterinary Services 2011		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class		312 PATHOLOGICAL V	VASTES		
<u>26</u>	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 SIC Code: SIC Descripti Approval Yea PO Box No: Country:	ion:	ON8939130 541940 Veterinary Services 2012		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class		312 PATHOLOGICAL V	VASTES		
<u>26</u>	4 of 10	SSE/187.2	119.8 / 2.05	Aspen Springs Animal Hospital 39 Martin Rd, Unit 9 Bowmanville ON	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country:	ion:	ON8939130 541940 VETERINARY SERVICES 2013		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class		312 PATHOLOGICAL V	VASTES		
<u>26</u>	5 of 10	SSE/187.2	119.8 / 2.05	Apple Tree Dentistry 39 Martin Rd Bowmanville ON L1C3K7	GEN

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Generator No SIC Code: SIC Descript Approval Ye PO Box No: Country:	tion:	ON6480718 621210 OFFICES O 2016 Canada	F DENTISTS		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	Hilary Barnes CO_OFFICIAL 9056233938 Ext. No No	
<u>Detail(s)</u>							
Waste Class Waste Class		31 P/	12 ATHOLOGICAL W	/ASTES			
<u>26</u>	6 of 10	:	SSE/187.2	119.8 / 2.05	Apple Tree Dentistry 39 Martin Rd Bowmanville ON L1C	3K7	GEN
Generator No SIC Code: SIC Descript Approval Ye PO Box No: Country:	tion:	ON6480718 621210 OFFICES O 2015 Canada	F DENTISTS		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	Hilary Barnes CO_OFFICIAL 9056233938 Ext. No No	
<u>Detail(s)</u>							
Waste Class Waste Class	-	31 P/	12 ATHOLOGICAL W	/ASTES			
<u>26</u>	7 of 10	\$	SSE/187.2	119.8 / 2.05	Aspen Springs Anima 39 Martin Rd, Unit 9 Bowmanville ON L1C	-	GEN
Generator No SIC Code: SIC Descript Approval Ye PO Box No: Country:	tion:	ON8939130 541940 VETERINAF 2016 Canada	RY SERVICES		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	Gabrielle Benzaquen CO_OFFICIAL 905 623 0020 Ext. No No	
<u>Detail(s)</u>							
Waste Class Waste Class			12 ATHOLOGICAL W	/ASTES			
<u>26</u>	8 of 10	S	SSE/187.2	119.8 / 2.05	Aspen Springs Anima 39 Martin Rd, Unit 9 Bowmanville ON L1C	•	GEN
Generator No SIC Code: SIC Descript Approval Ye PO Box No: Country:	tion:	ON8939130 541940 VETERINAF 2015 Canada	RY SERVICES		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	Gabrielle Benzaquen CO_OFFICIAL 905 623 0020 Ext. No No	
<u>Detail(s)</u>							
Waste Class Waste Class		31 P/	12 ATHOLOGICAL W	/ASTES			

30 Martin Ro, Unit 9     Bowmanville OV I 1C 3KT       Generator No:     ONI8939130     Status:       SIC Code:     S1/140     Co.Admfr:     Gabrielle Benzaquen       SIC Maproval Vers:     2014     Contact:     CO.Ortact:     CO.Ortact: <th>y Number of Records</th> <th>Direction/ Elev/Diff Distance (m) (m)</th> <th>Site</th> <th></th> <th>DB</th>	y Number of Records	Direction/ Elev/Diff Distance (m) (m)	Site		DB
SiC Coerdination:       541940       Co Admin:       Co Admin:       Co Admin:       Co OPFICIAL         Approval Years:       2014       Phone No Admin:       905623 0020 Ext.       Co.         Country:       Canada       MHSW Facility:       No       No         Country:       Canada       MHSW Facility:       No       No         Detail(s)       Waste Class:       312       Status:       No       No         26       10 of 10       SSE/187.2       119.8 / 2.05       Apple Tree Dentistry Bowmanville       G         350 Code:       PATHOLOGICAL WASTES       Status:       Registered       Co Admin:       Status:       Registered         SiC Code:       ON6480718       Status:       Registered       Co Admin:       Status:       Registered       Status:       Registered       Status:       Registered       Status:       Registered       Status:       Registered       Status:       Status:       Registered       Status:       Status:       Registered       Status:       Status:       Registered       Status:       Status: <th>9 of 10</th> <th>SSE/187.2 119.8 / 2.05</th> <th>39 Martin Rd, Unit 9</th> <th></th> <th>GEN</th>	9 of 10	SSE/187.2 119.8 / 2.05	39 Martin Rd, Unit 9		GEN
Waste Class:     312 PATHOLOGICAL WASTES       26     10 of 10     SSE/187.2     119.8 / 2.05 39 Martin Rd Bowmanville ON L1C3K7       26     10 of 10     SSE/187.2     119.8 / 2.05 39 Martin Rd Bowmanville ON L1C3K7       Generator No:     ON6480718     Status:     Registered Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:       Country:     Canada     Contam. Facility: Waste Class:     As of Dec 2018 Phone No Admin: Contam. Facility:       27     1 of 1     N/193.1     116.7 / -1.05 ON     for 14 con 1 ON       27     1 of 1     N/193.1     116.7 / -1.05 ON     for 14 con 1 ON       Well ID:     1906829     Data Entry Status: Data Src:     1 Data Src:     22/14 Data Src:     1 Data Src:     2       Construction Date:     Public     Steeted Flag:     TRUE     Abandonment Rec:     22/14 Data Src:     1 Data Src:     1 Da	: 541940 ription: VETERINA Years: 2014 lo:		Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:	CO_OFFICIAL 905 623 0020 Ext. No	
Waste Class Desc:       PATHOLOGICAL WASTES         26       10 of 10       SSE/187.2       119.8 / 2.05       Apple Tree Dentistry Bowmanville 39 Martin Rd Bowmanville ON L1C3K7       Generator No:       ON6480718       Status:       Registered       Generator No:       Co Admin:					
39     Martin Rd     Bowmanville ON L1C3K7       Generator No:     ON6480718     Status:     Registered       SIC Code:     Co Admin:     Choice of Contact:       SIC Description:     As of Dec 2018     Phone No Admin:       Oproval Years:     As of Dec 2018     Contam. Facility:       Country:     Canada     MHSW Facility:       Detail((s)     Waste Class:     312 P       Waste Class:     312 P     Pathological wastes       27     1 of 1     N/193.1     116.7 / -1.05     lot 14 con 1       ON     ON     ON     V       Well ID:     1906829     Data Entry Status:       Construction Date:     Public     Data Src:     1       Primary Water Use:     0     Selected Flag:     TRUE       Final Well Status:     Valer Supply     Abandonment Rec:     2214       Casing Material:     Form Version:     1       Audit No:     Site Vane:     Ourmer:     1       Construction Method:     Concession:     0     0       Elevation (m):     Elevation (m):     DURHAM     Conversion:     1       Audit No:     Site Unity:     NetWare Supply     Manme:     ConN       Elevation Reliability:     Concession:     01     0    <					
SiC Code: Contact: Co	10 of 10	SSE/187.2 119.8 / 2.05	39 Martin Rd		GEN
Country:       Canada       MHSW Facility:         Detail(s)       Waste Class:       312 P         Waste Class:       312 P         Waste Class:       Pathological wastes         27       1 of 1       N/193.1       116.7/-1.05       lot 14 con 1       N         Well ID:       1906829       Data Entry Status:       Data Src:       1         Construction Date:       Public       Data Src:       1       1         Primary Water Use:       Public       Data Received:       2/6/1984         Sec. Water Use:       0       Selected Flag:       TRUE         Final Well Status:       Water Supply       Abandonment Rec:       2/214         Construction Method:       Contractor:       2/214         Construction Method:       Contractor:       2/214         Construction Method:       Contractor:       2/214         Construction Method:       Contractor:       0         Construction Method:       Contractor:       0/214         Construction Method:       Concession:       1         Construction Method:       Concession:       0/14         Elevation Reliability:       Networkson:       0/1         Depth to Bedrock:       Concession Name: <td>: ription: Years: As of Dec 2</td> <td></td> <td>Co Admin: Choice of Contact: Phone No Admin:</td> <td>Registered</td> <td></td>	: ription: Years: As of Dec 2		Co Admin: Choice of Contact: Phone No Admin:	Registered	
Waste Class:       312 P Pathological wastes         27       1 of 1       N/193.1       116.7 / -1.05       lot 14 con 1 ON       Image: Construction 1         27       1 of 1       N/193.1       116.7 / -1.05       lot 14 con 1 ON       Image: Construction 1       Image: Construction 2       <					
Waste Class Desc:       Pathological wastes         27       1 of 1       N/193.1       116.7 / -1.05       lot 14 con 1 ON       N         Well ID:       1906829       Data Entry Status:       Data Src:       1         Construction Date:       Public       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:       2/214         Casing Material:       A       Form Version:       1         Audit No:       Owner:       3treet Name:       Country:       DURHAM         Elevation Method:       Contractor:       UN       UN       0Acontext         Depth to Bedrock:       Lot:       014       000000000000000000000000000000000000					
ONWell ID:1906829Data Entry Status: Data Src:1Construction Date: Primary Water Use:PublicDate Received:2/6/1984Sec. Water Use:0Selected Flag:TRUEFinal Well Status:Water SupplyAbandonment Rec: Contractor:2214Water Type: Casing Material: Audit No:Contractor:2214Tag: Construction Method: Elevation Reliability:Owner: Street Name: County:1Depth to Bedrock: Well Depth:Lot:014Well Depth: Overburden/Bedrock:Concession:01Overburden/Bedrock: Flowing (Y/N):KaticConces: Cone:ConFlow Rate:UTM Reliability:Sitelity:Sitelity:Flow Rate:UTM Reliability:Cone: Cone:Cone:					
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Primary Water Use:PublicDate Received:2/6/1984Sec. Water Use:0Selected Flag:TRUEFinal Well Status:Water SupplyAbandonment Rec:Water Type:Water Type:Contractor:2214Casing Material:Form Version:1Audit No:Owner:1Tag:County:DURHAMConstruction Method:County:DURHAMElevation (m):Kreet Name:County:NEWCASTLE TOWN (DARLINGTON)Elevation Reliability:Site Info:014Well Depth:Concession:01Overburden/Bedrock:Concession:01Pump Rate:Easting NAD83:Static Water Level:Flowing (Y/N):Zone:Tone:Flow Rate:UTM Reliability:Sone:			-	1	
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Casing Material:Form Version:1Audit No:Owner:Tag:Tag:Street Name:Construction Method:County:DURHAMElevation (m):Municipality:NEWCASTLE TOWN (DARLINGTON)Elevation Reliability:Site Info:Depth to Bedrock:Lot:014Well Depth:Concession:01Overburden/Bedrock:Concession Name:CONPump Rate:Easting NAD83:Static Water Level:Flowing (Y/N):Zone:UTM Reliability:		pply	•	IRUE	
Tag:Street Name:Construction Method:County:DURHAMElevation (m):Municipality:NEWCASTLE TOWN (DARLINGTON)Elevation Reliability:Site Info:Depth to Bedrock:Lot:014Well Depth:Concession:01Overburden/Bedrock:Concession Name:CONPump Rate:Easting NAD83:Static Water Level:Northing NAD83:Flowing (Y/N):Zone:Flow Rate:UTM Reliability:	aterial:		Form Version:		
Construction Method:County:DURHAMElevation (m):Municipality:NEWCASTLE TOWN (DARLINGTON)Elevation Reliability:Site Info:Depth to Bedrock:Lot:014Well Depth:Concession:01Overburden/Bedrock:Concession Name:CONPump Rate:Easting NAD83:Static Water Level:Northing NAD83:Flowing (Y/N):Zone:Vertice Concession					
Elevation Reliability:Site Info:Depth to Bedrock:Lot:014Well Depth:Concession:01Overburden/Bedrock:Concession Name:CONPump Rate:Easting NAD83:Static Water Level:Northing NAD83:Flowing (Y/N):Zone:Flow Rate:UTM Reliability:			County:		`
Well Depth:Concession:01Overburden/Bedrock:Concession Name:CONPump Rate:Easting NAD83:Static Water Level:Northing NAD83:Flowing (Y/N):Zone:Flow Rate:UTM Reliability:				NEWGASTLE TOWN (DARLINGTON	)
Overburden/Bedrock:Concession Name:CONPump Rate:Easting NAD83:Static Water Level:Northing NAD83:Flowing (Y/N):Zone:Flow Rate:UTM Reliability:					
Static Water Level:     Northing NAD83:       Flowing (Y/N):     Zone:       Flow Rate:     UTM Reliability:	en/Bedrock:		Concession Name:		
Flowing (Y/N): Zone: Flow Rate: UTM Reliability:					
Flow Rate: UTM Reliability:					
	2:		UTM Reliability:		
PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/190\1906829.pdf	<i>(Map):</i> h	https://d2khazk8e83rdv.cloudfron	t.net/moe_mapping/downloads/	2Water/Wells_pdfs/190\1906829.pdf	
Additional Detail(s) (Map)	<u>l Detail(s) (Map)</u>				
Well Completed Date: 1983/09/05	pleted Date: 1	1983/09/05			

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	
Year Complet Depth (m): Latitude: Longitude: Path:	ted:	1983 16.1544 43.909794048226 -78.7010768949018 190\1906829.pdf			
<u>Bore Hole Inf</u>	ormation				
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sou Improvement Improvement Source Revis	: 100754 s: sc: ted: 05-Sep rce Date: t Location Source: t Location Method: sion Comment:	93 -1983 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 684595.10 4864423.00 4 margin of error : 30 m - 100 m p4
Supplier Com Overburden a					
<u>Materials Inte</u>					
Formation ID.	:	931162642			
Layer:		4			
Color:		2			
General Colo	r:	GREY			
Mat1:		05			
Most Commo	on Material:	CLAY 12			
<i>Mat2:</i> Mat2 Desc:		STONES			
Mat2 Desc. Mat3:		60			
Mato. Mat3 Desc:		CEMENTED			
Formation To	op Depth:	40.0			
Formation En	nd Depth:	45.0			
Formation En	nd Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
<u>Materials Inte</u>	erval	931162641			
<u>Materials Inte</u> Formation ID.	erval	931162641 3			
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<u>Materials Inte</u> Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc:	<u>erval</u> : r:	3 3 BLUE 05 CLAY 28 SAND			
<u>Materials Inte</u> Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat2 Desc: Mat3:	<u>erval</u> : r:	3 3 BLUE 05 CLAY 28			
Materials Inte Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To	<u>erval</u> : r: on Material: op Depth:	3 3 BLUE 05 CLAY 28 SAND 84 SILTY 30.0			
Materials Inte Formation ID. Layer: Color: General Colo Mat1: Most Commo Mat2 Desc: Mat3 Desc: Formation To Formation En	<u>erval</u> : r: on Material: op Depth:	3 3 BLUE 05 CLAY 28 SAND 84 SILTY			
Materials Inte Formation ID. Layer: Color: General Colo Mat1: Most Commo Mat2 Desc: Mat3 Desc: Formation To Formation En	erval : r: on Material: op Depth: nd Depth: nd Depth UOM: and Bedrock	3 3 BLUE 05 CLAY 28 SAND 84 SILTY 30.0 40.0			

.ayer: Color:			
.010r'	5		
	6 BROWN		
General Color: //at1:	28		
//acr. //ost Common Material:	SAND		
lat2:	0/110		
/at2 Desc:			
Nat3:			
lat3 Desc:			
Formation Top Depth:	45.0		
Formation End Depth:	46.0		
Formation End Depth UOM:	ft		
Dverburden and Bedrock Aaterials Interval			
Formation ID:	931162639		
.ayer:	1		
Color: Conoral Color:	6 BROWN		
General Color: //at1:	05		
lati: Iost Common Material:	CLAY		
lat2:	81		
lat2 Desc:	SANDY		
Nat3:	79		
/lat3 Desc:	PACKED		
Formation Top Depth:	0.0		
Formation End Depth:	15.0		
Formation End Depth UOM:	ft		
Dverburden and Bedrock Materials Interval			
Formation ID:	931162640		
.ayer:	2		
Color:	3		
General Color:	BLUE		
/at1: /ost Common Material:	05 CLAY		
Nost Common Material: Nat2:	12		
lat2 Desc:	STONES		
Nat3:	60		
/at3 Desc:	CEMENTED		
Formation Top Depth:	15.0		
Formation End Depth:	30.0		
Formation End Depth UOM:	ft		
<u>Dverburden and Bedrock</u> <u>Naterials Interval</u>			
Formation ID:	931162644		
.ayer:	6		
Color:	2		
General Color:	GREY		
Nat1:	05		
Nost Common Material:	CLAY		
/lat2: /lat2 Desc:	13 BOULDERS		
natz Desc: Nat3:	DUOLDERO		
lat3 Desc:			
Formation Top Depth:	46.0		
Formation End Depth:	53.0		
Formation End Depth UOM:	ft		

<u>Method of Construction &amp; Well</u> <u>Use</u>	
Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	961906829 6 Boring
Pipe Information	
Pipe ID: Casing No: Comment: Alt Name:	10624063 1
Results of Well Yield Testing	
Pump Test ID: Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate: Recommended Pump Rate: Levels UOM: Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:	991906829 25.0 35.0 51.0 7.0 3.0 ft GPM 2 CLOUDY 2 0 30 No
Draw Down & Recovery	
<i>Pump Test Detail ID: Test Type: Test Duration: Test Level: Test Level UOM:</i>	934923864 Recovery 60 30.0 ft
Water Details	
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:	933517363 2 1 FRESH 45.0 ft
Water Details	
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:	933517362 1 1 FRESH 30.0 ft

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>28</u>	1 of 1		ESE/194.8	115.5 / -2.28	ON		wwis
Well ID:		1900015			Data Entry Status:		
Constructio	n Date:				Data Src:	1	
Primary Wat	ter Use:	Domestic			Date Received:	10/4/1955	
Sec. Water l	Use:	0			Selected Flag:	TRUE	
Final Well S	tatus:	Water Sup	ply		Abandonment Rec:		
Water Type:	:		-		Contractor:	2113	
Casing Mate	erial:				Form Version:	1	
Audit No:					Owner:		
Tag:					Street Name:		
Constructio	n Method:				County:	DURHAM	
Elevation (m	n):				Municipality:	BOWMANVILLE TOWN	
Elevation Re	eliability:				Site Info:		
Depth to Be	drock:				Lot:		
Well Depth:					Concession:		
Overburden	/Bedrock:				Concession Name:		
Pump Rate:					Easting NAD83:		
Static Water					Northing NAD83:		
Flowing (Y/I	N):				Zone:		
Flow Rate:					UTM Reliability:		
Clear/Cloud	ly:						

# PDF URL (Map):

 $https://d2 khazk8e83 rdv.cloudfront.net/moe\_mapping/downloads/2Water/Wells\_pdfs/190\1900015.pdf$ 

## 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: DP2BR:	10069083	Elevation: 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	n Source:		

Overburden and Bedrock Materials Interval

Improvement Location Method: Source Revision Comment: Supplier Comment:

931135500
2
6
BROWN
05
CLAY

Mai2 Desc:     STONES       Mai3 Desc:     200       Formation End Daph:     32.0       Formation End Daph:     32.0       Formation End Daph:     32.0       Overburden and Bedrock.     *       Atteriais Lutexcal     91135501       Loyer:     2       General Color:     3       Color:     2       General Color:     GREY       Mat2     STONES       Mat2     STONES       Mat2     STONES       Mat2     STONES       Mat2     GREAT       Color:     2       General Color:     GREY       Mat2     STONES       Mat2     STONES       Mat2     STONES       Formation Top Depth:     32.0       Formation End Depth:     57.0       Formation Top Depth:     32.0       Formation Top Depth: <th>Map Key</th> <th>Number of Records</th> <th>Direction/ Distance (m)</th> <th>Elev/Diff (m)</th> <th>Site</th> <th>DB</th>	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mail:       Bail:         Formation Top Depth:       20.0         Formation End Depth:       32.0         Formation End Depth:       32.0         Materials Interval       Image: State St	Mat2:					
Mail Desc:     Formation End Depth:     32.0       Formation End Depth:     32.0       Formation End Depth:     32.0       Formation End Depth:     32.0       Formation ID:     931135501       Layer:     3       Color:     2       General Color:     6       General Color:     3       Golor:     2       General Color:     6       Mail:     05       Matt:     07       Matt:     07 <t< td=""><td></td><td></td><td>STONES</td><td></td><td></td><td></td></t<>			STONES			
Formation End Depth:     32.0       Formation End Depth:     1       Coverburden and Bodrock.     931135801       Materials Interval     9       Formation D:     931135801       Layer:     3       Color:     2       General Color:     0       General Color:     0       Matt:     05       Matt:     07       Matt:     07       Matt:     07       Matt:     07       Matt:     07       Mattr:     07       Mattr: <td< td=""><td>Mat3 Desc:</td><td></td><td></td><td></td><td></td><td></td></td<>	Mat3 Desc:					
Formation End Depth UOM:     It       Overburden and Bedrock.     31135501       Layer:     3       Corrent Comment Statematics Interval     31135501       Layer:     3       Color:     2       General Color:     GR       Matti Statematics     CLAV       Matti Comment Material:     COmment Comment Material:       Overburden and Bedrock.     Anterial Stateward       Material Interval     Gr       Formation ID:     931135499       Layer:     1       Comment Color:     Material Stateward       Material Interval     PREVIOUSLY DUG       Matti     PREVIOUSLY DUG       Matti Stateward     Question       Material Interval     PREVIOUSLY DUG       Matti Stateward     Question       Material Interval     PREVIOUSLY DUG       Matti Stateward     Question       Material Interval     Question       Mato Construction ID:     961900015						
Outputter and Bedrock.         Materials Interval         Formation ID:       931135501         Color:       2         General Color:       3         Matti       05         Matti       11         Matti       05         Formation Top Depth:       57.0         Formation End Depth:       20         Color:       23         Matti Desc:       24         Matti       25         Matti Desc:       20.0         Formation Top Depth:       20.0         Formation End Depth:       20.0         Formation End Depth:       20.0	Formation E	nd Depth:				
Materials Interval         931135501           Layer:         3           Color:         2           General Color:         2           General Color:         0           Matt:         05           Matt:         05           Matt:         05           Matt:         05           Matt:         05           Matt:         02           Matt:         02           Matt:         03           Matt:         02           Matt:         02           Matt:         02           Matt:         02           Matt:         02           Matt:         02           Formation End Depth:         0300           Materials Interval         70           Formation End Depth:         031135499           Layer:         1           Mattr:         031135499           Layer:         1           Mattr:         03013000000000000000000000000000000000	Formation Er	ia Deptil OOM.	it.			
Layer:         3           Color:         2           General Color:         GREY           Mat1:         CLAY           Mat2:         12           Mal2 Desc:         STONES           Mat2:         GRAVEL           Formation Top Depth:         32.0           Formation Top Depth:         32.0           Formation End Depth:         57.0           Formation End Depth:         57.0           Formation ID cepth:         931135499           Layer:         1           Color:         S           General Color:         S           General Color:         S           Mat2:         S <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Color:         2           Genoral Color:         GREY           Matt:         05           Matt:         12           Matt:         12           Matt:         12           Matt:         12           Matt:         14           Matt:         11           Matt:         11           Matt:         57.0           Formation Top Depth:         57.0           Formation End Depth:         57.0           Formation End Depth:         57.0           Formation End Depth:         57.0           Formation End Depth:         57.0           Formation ID:         931135499           Layer:         1           Color:         1           Materials Interval         23           Matt:         23           Matt:         23           Matt:         24           Matt:         23           Matt:         24           Matt:         23           Matt:         24           Matt:         23           Matt:         96           Matt:         96           Matt:         96 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
General Color:CREYMat1:05Most Common Material:CLAYMat2:12Mat2 Desc:STONESMat3:11Mat3 Desc:GRAVELFormation End Depth:57.0Formation End Depth:57.0Pormation End Depth:931135499Layer:1Corburdon and BortockMat2Mat2 Desc:931135499Layer:1General Color:23Mat2Stanterial:Premation End Depth:23Stanterial:PREVIOUSLY DUGMat2:Stanterial:Mat2:Stanterial:Formation End Depth:0.0Color:0.0Formation End Depth:0.0Formation End Depth:0.0Construction & WelltUseCable ToolOther Method Construction:Cable ToolConstruction Record - Casing <t< td=""><td>Layer:</td><td></td><td></td><td></td><td></td><td></td></t<>	Layer:					
Matt:         05           Most Common Material:         12           Matz:         12           Matz:         STONES           Formation Depth:         STONES           Layer:         1           Color:         STONES           General Color:         Stones           Matz:         PSEVIOUSLY DUG           Matz:         Stones           Matz:		· · ·				
Mariz         12           Mariz Desci:         STONES           Mariz Mariz         11           Mariz Desci:         GRAVEL           Formation Top Depth:         32.0           Formation End Depth:         50.0           Formation End Depth:         70.0           Formation End Depth:         1           Overburden and Bedrock         ************************************	Mat1:					
Mart Desc:         STONES           Mart Desc:         1           Mart Desc:         GRAVEL           Formation End Depth:         32.0           Formation End Depth:         57.0           Formation End Depth:         57.0           Formation End Depth:         1           Orschurden and Bedrock.         Statument           Materials Interval         931135499           Layer:         1           Color:         1           General Color:         2           Matt Desc:         7           Formation Fand Depth:         0.0           Formation Fand Depth:         0.0           Formation End Depth:         0.0           Formation End Depth:         0.0           Formation Fand Depth:         0.0           Formation Fand Depth:         0.0           Formation End Depth:         0.0		on Material:				
Mati:         11           Mati Desc:         GRAVEL           Formation Top Depth:         32.0           Formation End Depth:         57.0           Formation End Depth:         57.0           Formation End Depth:         57.0           Formation End Depth:         57.0           Porture In and Bedrock.         Waterials Interval           Formation ID:         931135499           Layer:         1           Color:         General Color:           Mati:         23           Mati:         23           Mati:         21           General Color:         31           Mati:         23           Mati:         23           Mati:         23           Mati:         24           Mati:         24           Mati:         24           Mati:         24           Mati:         24           Mati:         20.0           Formation End Depth:         0.0           Formation End Depth:         0.0           Mathod Construction & Well         24.0           Method Construction:         24.0           Method Construction:         26.0						
Math Desc:GRAVELFormation Dopht32.0Formation End Depth:57.0Formation End Depth UOM:1Overburden and Bedrock Materials. IntervalFormation ID:931135499Layer:1Color:General Color:Matt23Most Common Material:PEVIOUSLY DUGMatt2 Desc:0.0Formation End Depth:0.0Formation End Depth:0.0Cable ToolCable ToolOther Method Construction Code:1Pipe Information1Pipe Information1Pipe Information1Construction Record - Casing1Comment:1Alt Name:1Casing No:1Casing ID:901026297Layer:1						
Formation End Depth UOM:       97.0         Formation End Depth UOM:       1         Overburden and Bedrock.       931135499         Layer:       1         Color:       931135499         Eager:       1         Color:       9         General Color:       1         Matt:       23         Most Common Material:       PREVIOUSLY DUG         Matt:       0.0         Formation End Depth:       0.0         Semation End Depth:       0.0         Other Method Construction Robert       Selbe Tool         Other Method Construction:       Cable Tool         Other Method Construction:       Selbe Tool<	Mat3 Desc:					
Formation End Depth UOM:       1         Overburden and Bedrock.       931135499         Materials Interval       1         Formation ID:       931135499         Layer:       1         Color:       3         General Color:       3         Matt:       23         Most Common Material:       PREVIOUSLY DUG         Mat2       Desc:         Mat2       0         Formation Top Depth:       0.0         Formation End Depth:       20.0         Formation Code:       1         Wethod Construction & Well       June         Use       Secondary Secon						
Overburden and Pedrock.         Materials Ind Di:       931135499         Laye:       1         Color:       3         General Color:       3         Matt :       23         Most Common Material:       PREVIOUSLY DUG         Matt :       0.0         Matt 2 besc:       0.0         Matt 2 besc:       0.0         Formation Top Depth:       0.0         Formation End Depth:       20.0         Formation End Depth:       0.0         State       State         Bethod Construction & Well       State         Use       State       State         Pipe Information       10617653         Casing No:       1         Comment:       Ait Name:         Construction Record - Casing       930126297         Laye:       1	Formation E	nd Depth: nd Depth LIOM:				
Materials Interval         Formation ID:       931135499         Layer:       1         Color:       I         General Color:       I         Mat1:       23         Most Common Material:       PREVIOUSLY DUG         Mat2:       I         Mat3:       I         Mat3:       I         Mat3:       I         Formation Top Depth:       0.0         Formation End Depth:       0.0         Pipe Information       Selie Tool         Other Method Construction:       Cable Tool         Other Method Construction:       1         Pipe ID:       10617653         Casing No:       1         Comment:       1         Alt Name:	r onnation Ei	la Deptil OOM.	it.			
Layer:1Color:3General Color:23Mat1:23Most Cormon Material:PREVIOUSLY DUGMat2:7Mat3:7Mat3:7Mat3:0.0Formation Top Depth:0.0Formation End Depth:20.0Formation End Depth:0.0Formation End Depth:0.0Construction ID:961900015Method Construction Code:1Method Construction:Cable ToolPipe Information1Comment:1Alt Name:1Construction Record - Casing930126297Layer:1						
Color:       3         Mat1:       23         Most Common Material:       PREVIOUSLY DUG         Mat2:       9         Mat2:       9         Mat3:       9         Mat3:       0.0         Formation Top Depth:       0.0         Formation End Depth       0.0         Method Construction & Well       Use         Method Construction ID:       961900015         Method Construction:       Cable Tool         Other Method Construction:       Cable Tool         Other Method Construction:       10617653         Casing No:       1         Comment:       At Name:         Construction Record - Casing       1         Casing ID:       930126297         Layer:       1						
General Color:     23       Mat1:     23       Most Common Material:     PREVIOUSLY DUG       Mat2     Mat3:       Mat3	Layer:		1			
Mat1:23Most Common Material:PREVIOUSLY DUGMat2:PREVIOUSLY DUGMat3:PREVIOUSLY DUGMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandMat3:UnderstandFormation End Depth:20.0Formation End Depth UOM:ftMethod Construction & WellUnderstandUse961900015Method Construction Code:1Method Construction:Gable ToolOther Method Construction:10617653Casing No:1Construction Record - CasingCasing ID:930126297Layer:1		or.				
Mat2:       Mat3:         Mat3:       Sesc:         Formation End Depth:       0.0         Formation End Depth:       20.0         Formation End Depth:       20.0         Formation End Depth:       10.0         Method of Construction & Well       Image: Construction & Well         Use       Method Construction & Well         Method Construction Code:       1         Method Construction:       Cable Tool         Other Method Construction:       Cable Tool         Pipe Information       10617653         Casing No:       1         Alt Name:       Souther Second - Casing         Casing ID:       930126297         Layer:       1	Mat1:		23			
Mat2 Desc:       Mat3 Desc:         Formation Top Depth:       0.0         Formation End Depth:       20.0         Formation End Depth       USB         Method of Construction & Well       USB         Method Construction ID:       961900015         Method Construction Code:       1         Method Construction:       Cable Tool         Other Method Construction:       Cable Tool         Pipe Information       10617653         Casing No:       1         Alt Name:       930126297         Layer:       1		on Material:	PREVIOUSLY DUG			
Mat3:						
Mat3 Desc:0.0Formation Top Depth:0.0Formation End Depth:20.0Formation End Depth UOM:ftMethod of Construction & Well Use961900015Method Construction ID:961900015Method Construction Code:1Method Construction:Cable ToolOther Method Construction:10617653Casing No:1Construction Record - Casing930126297Layer:1						
Formation End Depth:       20.0         Formation End Depth UOM:       ft         Method of Construction & Well.	Mat3 Desc:					
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:       10617653         Pipe ID:       10617653         Comment:       1         Alt Name:       930126297         Layer:       1						
Method of Construction & Well. Use       961900015         Method Construction Code:       1         Method Construction:       Cable Tool         Other Method Construction:       Cable Tool         Pipe Information       10617653         Casing No:       1         Alt Name:       930126297         Layer:       1						
Use       961900015         Method Construction Code:       1         Method Construction:       Cable Tool         Other Method Construction:       Cable Tool         Pipe Information       1         Pipe ID:       10617653         Casing No:       1         Construction Record - Casing       930126297         Layer:       1	Formation El	ia Depth OOM:	it.			
Method Construction Code:       1         Method Construction:       Cable Tool         Other Method Construction:       Pipe Information         Pipe ID:       10617653         Casing No:       1         Comment:       1         Alt Name:       930126297         Layer:       1	<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Construction:       Cable Tool         Other Method Construction:       Cable Tool         Pipe Information       10617653         Casing No:       1         Comment:       1         Alt Name:       930126297         Layer:       1	Method Cons	struction ID:	961900015			
Other Method Construction:         Pipe Information         Pipe ID:       10617653         Casing No:       1         Comment:       1         Alt Name:       Value         Construction Record - Casing       930126297         Layer:       1						
Pipe ID:       10617653         Casing No:       1         Comment:       1         Alt Name:       1         Construction Record - Casing       1         Casing ID:       930126297         Layer:       1			Cable Iool			
Casing No:     1       Comment:     1       Alt Name:     1       Construction Record - Casing     1       Casing ID:     930126297       Layer:     1	<u>Pipe Informa</u>	<u>tion</u>				
Casing No:     1       Comment:     1       Alt Name:     1       Construction Record - Casing     1       Casing ID:     930126297       Layer:     1	Pine ID:		10617653			
Comment: Alt Name: Construction Record - Casing Casing ID: 930126297 Layer: 1						
Casing ID: 930126297 Layer: 1	Comment: Alt Name:					
Layer: 1	<u>Construction</u>	Record - Casing				
Layer: 1	Casina ID:		930126297			
Material: 1	Layer:		1			
	Material:		1			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site			DB
Open Hole or	Material:	STEEL					
Depth From: Depth To:		57.0					
Casing Diame	tor:	6.0					
Casing Diame		inch					
Casing Depth		ft					
<u>Results of We</u>	ll Yield Testing						
Pump Test ID: Pump Set At:	:	991900015					
Static Level:		22.0					
Final Level Af	ter Pumpina:	48.0					
	d Pump Depth:	40.0					
Pumping Rate		3.0					
Flowing Rate:							
	d Pump Rate:						
Levels UOM:		ft					
Rate UOM:	fter Test Code:	GPM					
Water State A		1 CLEAR					
Pumping Test		1					
Pumping Dura		4					
Pumping Dura		0					
Flowing:		No					
<u>Water Details</u>							
Water ID:		933510546					
Layer:		1					
Kind Code:		1					
Kind:		FRESH					
Water Found		32.0 ft					
Water Found I		11					
<u>29</u>	1 of 1	SSW/195.2	118.1 / 0.29	17 Fry Cres	0/0		HINC
				BOWMANVILLE ON L1C	412		
External File N		FS INC 0706-0326	51				
Fuel Occurren Date of Occur		CO Release 6/25/2007					
Fuel Type Invo		Natural Gas					
Status Desc:	olveu.	Completed - Caus	al Analysis(End)				
Job Type Des	c:	Incident/Near-Miss					
Oper. Type Inv		Private Dwelling					
Service Interr		No					
Property Dam		No					
Fuel Life Cycl		Utilization					
Root Cause:			oment/Material/Con Human Factors:N	nponent:Yes Procedures:No o	Maintenance:No	Design:No	Training:No
Reported Deta							
Fuel Category		Gaseous Fuel					
Occurrence T	ype:	Near-miss					
Affiliation:		•	(MOL, ESA, Insure	ers, etc.)			
County Name		Durham					
Approx. Quan							
Nearby body o							
Enter Drainag Approx. Quan							
Environmenta	l Impact						

Map Key	Numbei Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>30</u>	1 of 1		N/204.7	119.1 / 1.28	HWY 2 AND REGION BOWMANVILLE ON	IAL ROAD 57 lot 15 con 1	wwis
Well ID:		7336983			Data Entry Status:		
Constructio	n Date:				Data Src:		
Primary Wat	ter Use:	Test Hole			Date Received:	7/10/2019	
Sec. Water L	Use:				Selected Flag:	TRUE	
Final Well S	tatus:	Test Hole			Abandonment Rec:		
Water Type:					Contractor:	7644	
Casing Mate	erial:				Form Version:	7	
Audit No:		Z311577			Owner:		
Tag:		A269562			Street Name:	HWY 2 AND REGIONAL ROAD 57	
Constructio	n Method:				County:	DURHAM	
Elevation (m	n):				Municipality:	NEWCASTLE TOWN (DARLINGTON	۷)
Elevation Re	eliability:				Site Info:		
Depth to Be	drock:				Lot:	015	
Well Depth:					Concession:	01	
Overburden	/Bedrock:				Concession Name:	CON	
Pump Rate:					Easting NAD83:		
Static Water	r Level:				Northing NAD83:		
Flowing (Y/N	N):				Zone:		
Flow Rate:	-				UTM Reliability:		
Clear/Cloud	y:				-		

PDF URL (Map):

 $https://d2 khazk8e83 rdv.cloudfront.net/moe\_mapping/downloads/2Water/Wells\_pdfs/733 \ 7336983.pdf$ 

## 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: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date:	1007516920 15-May-2019 00:00:00	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 684563.00 4864430.00 UTM83 4 margin of error : 30 m - 100 m wwr
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Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

#### <u>Overburden and Bedrock</u> <u>Materials Interval</u>

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

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	D
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To	op Depth:				
Formation E					
Formation E	nd Depth UOM:				
<u>Overburden a</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID	):	1008201683			
Layer:		3			
Color:		2			
General Colo	or:	GREY			
Mat1:		11			
Most Commo	on Material:	GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:	<b>D</b> (1)				
Formation To		00.0			
Formation E	nd Depth:	30.0			
Formation Ei	nd Depth UOM:	ft			
<u>Overburden a</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID	):	1008201681			
Layer:		1			
Color:					
General Colo	or:				
Mat1:		06			
Most Commo	on Material:	SILT			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:					
Mat3 Desc:	<b>-</b> <i>4</i>	0.0			
Formation To	op Depth:	0.0			
Formation E	nd Deptn:				
Formation El	nd Depth UOM:				
<u>Annular Spaces Sealing Reco</u>	<u>ce/Abandonment</u> ord				
Plug ID:		1008202402			
Layer:		1			
Plug From:					
Plug To:					
Plug Depth L	JOM:				
<u>Annular Spaces Sealing Recc</u>	<u>ce/Abandonment</u> ord				
Plug ID:		1008202405			
Layer:		3			
Plug From:		24.0			
Plug To:		30.0			
Plug Depth L	JOM:	ft			
Annular Spa	<u>ce/Abandonment</u>				

<u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	D
Plug ID:		1008202403			
Layer:		1			
Plug From:		0.0			
Plug To:		1.0			
Plug Depth U	JOM:	ft			
<u>Annular Spaces Sealing Recc</u>	<u>ce/Abandonment</u> ord				
Plug ID:		1008202404			
Layer:		2			
Plug From:		0.0			
Plug To:		24.0			
Plug Depth U	JOM:	ft			
<u>Method of Co Use</u>	onstruction & Well				
Method Cons		1008203290			
Method Cons	struction Code:	6			
Method Cons		Boring			
Other Metho	d Construction:				
Pipe Informa	<u>tion</u>				
Pipe ID:		1008201109			
Casing No:		0			
Comment:					
Alt Name:					
Construction	n Record - Casing				
Casing ID:		1008203535			
Layer:		1			
Material:		5			
Open Hole o		PLASTIC			
Depth From:		0.0			
Depth To:		25.0			
Casing Diam		0.75			
Casing Diam	eter UOM:	Inch			
Casing Deptl	h UOM:	ft			
Construction	n Record - Screen				
Screen ID:		1008203784			
Layer:		1			
Slot:	Danitha	10			
Screen Top L	Jeptn:	25.0			
Screen End I		30.0			
Screen Mate		5			
Screen Depti		ft in ch			
Screen Diam Screen Diam		inch 1.125			
<u>Results of W</u>	<u>lell Yield Testing</u>				
Pump Test IL	D:	1008204084			
Pump Set At.	:				
Static Level:					

Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth:

Мар Кеу	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Rate. Flowing Rate: Recommended Levels UOM: Rate UOM: Water State Af Water State Af Pumping Test Pumping Dura Pumping Dura Flowing:	d Pump Rat fter Test Co fter Test: Method: ntion HR:	ft GPM			
<u>Water Details</u>					
Water ID: Layer: Kind Code: Kind: Water Found I Water Found I		1008204018 1 8 Untested			
<u>Hole Diameter</u>	ŗ				
Hole ID: Diameter: Depth From: Depth To: Hole Depth UC Hole Diameter		1008202998 8.0 0.0 30.0 ft Inch			
<u>31</u>	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: Incident Report Type: Status Code: Tank Status: Task No: Spills Action O Fuel Type: Fuel Occurren Date of Occurren Occurrence St Depth: Customer Accc Incident Addres Operation Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence De Damage Reaso Notes:	rted Dt: Centre: ce Tp: rence: tart Dt: t Name: ess: e: e: e:	2949530 10/26/2020 FS-Pipeline Incident Pipeline Damage Reason Est ENBRIDGE GAS IN0 111 TREWIN LN,,BC		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: L1C 4X3,CA	
<u>32</u>	1 of 1	WNW/230.6	118.9 / 1.08	@ corner of Prince William & Pethick st.	SPL

Map Key Numbe Record		Elev/Diff m) (m)	Site	Ĺ
			Clarington ON	
Ref No: Site No: ncident Dt:	7410-6Y87AR		Discharger Report: Material Group: Health/Env Conseg:	Chemicals
Year:			Client Type:	
ncident Cause:	Other Discharges		Sector Type:	Other
ncident Event:	<b>.</b>		Agency Involved:	
Contaminant Code:			Nearest Watercourse:	
Contaminant Name: Contaminant Limit 1:	ETHYLENE GLYCOL (AN	NTIFREEZE)	Site Address: Site District Office:	
Contam Limit Freq 1:			Site Postal Code:	
Contaminant UN No 1:			Site Region:	
Environment Impact:	Confirmed		Site Municipality:	Clarington
Vature of Impact:	Other Impact(s); Surface	Water Pollution	Site Lot:	
Receiving Medium:	Water		Site Conc:	
Receiving Env:			Northing:	
MOE Response: Dt MOE Arvl on Scn:			Easting:	
MOE Reported Dt:	2/7/2007		Site Geo Ref Accu: Site Map Datum:	
Dt Document Closed:	21112001		SAC Action Class:	
ncident Reason:	Unknown - Reason not de	etermined	Source Type:	
Site Name:	Priv. Res. <un< td=""><td>OFFICIAL&gt;</td><td></td><td></td></un<>	OFFICIAL>		
Site County/District:				
Site Geo Ref Meth:				
Incident Summary:	-	freeze to CB(<5L)		
Contaminant Qty:	5 L			
33 1 of 1	SE/243.7	119.8 / 2.06	50 MARTIN ROAD RE BOWMANVILLE ON	EG RD 57 lot 14 con 1 WW
Well ID:	7174957		Data Entry Status:	
Construction Date:			Data Src:	
Primary Water Use:			Date Received:	1/13/2012
Sec. Water Use:	Abandanad Other		Selected Flag:	TRUE
Final Well Status: Nater Type:	Abandoned-Other		Abandonment Rec: Contractor:	Yes 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:	044
Depth to Bedrock:			Lot:	014 01
Well Depth: Overburden/Bedrock:			Concession: Concession Name:	CON
Pump Rate:			Easting NAD83:	0011
Static Water Level:			Northing NAD83:	
Flowing (Y/N):			Zone:	
Flow Rate:			UTM Reliability:	
Clear/Cloudy:				
PDF URL (Map):	https://d2khazk	8e83rdv.cloudfront.ne	et/moe_mapping/downloads/	2Water/Wells_pdfs/717\7174957.pdf
Additional Detail(s) (Ma	<u>ap)</u>			
	2011/09/13			
Well Completed Date				
	2011			
Year Completed:	2011			
Well Completed Date: Year Completed: Depth (m): Latitude:	43.9051562978	956		
Year Completed: Depth (m):		6236		

# Bore Hole Information

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

<u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

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

#### <u>Annular Space/Abandonment</u> <u>Sealing Record</u>

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

#### <u>Annular Space/Abandonment</u> <u>Sealing Record</u>

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

#### <u>Annular Space/Abandonment</u> <u>Sealing Record</u>

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

#### <u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Plug ID:	1004128136
Layer:	2
Plug From:	38.0

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To: Plug Depth U(	OM:	37.0 ft			
<u>Method of Cor</u> <u>Use</u>	nstruction & Well				
Method Const Method Const Method Const Other Method	ruction Code: ruction:	1004128134			
<u>Pipe Informati</u>	ion				
Pipe ID: Casing No: Comment: Alt Name:		1004128128 0			
Construction	<u> Record - Casing</u>				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To:	Material:	1004128132			
Casing Diame Casing Diame Casing Depth	ter UOM:	inch ft			
Construction	<u>Record - Screen</u>				
Screen ID: Layer: Slot: Screen Top De	epth:	1004128133			
Screen End D Screen Materi Screen Depth Screen Diame Screen Diame	epth: al: UOM: ter UOM:	ft inch			
<u>Water Details</u>					
Water ID: Layer: Kind Code: Kind:	- 4	1004128131			
Water Found I Water Found I		ft			
<u>Hole Diameter</u>	:				
Hole ID: Diameter: Depth From:		1004128130			
Depth To: Hole Depth UC Hole Diameter	DM: · UOM:	ft inch			

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>34</u>	1 of 1		SSW/243.8	116.6 / -1.17	lot 15 con 1 ON	wwis
Well ID:		1908709			Data Entry Status:	
Constructio	n Date:				Data Src:	1
Primary Wat	ter Use:	Domestic			Date Received:	12/9/1987
Sec. Water l	Use:	0			Selected Flag:	TRUE
Final Well S	tatus:	Water Sup	ply		Abandonment Rec:	
Water Type:	•				Contractor:	3129
Casing Mate	erial:				Form Version:	1
Audit No:		12166			Owner:	
Tag:					Street Name:	
Constructio	n Method:				County:	DURHAM
Elevation (m	n):				Municipality:	NEWCASTLE TOWN (DARLINGTON)
Elevation Re	eliability:				Site Info:	
Depth to Be	drock:				Lot:	015
Well Depth:					Concession:	01
Overburden	/Bedrock:				Concession Name:	CON
Pump Rate:					Easting NAD83:	
Static Water	r Level:				Northing NAD83:	
Flowing (Y/I	V):				Zone:	
Flow Rate:					UTM Reliability:	
Clear/Cloud	'y:					

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: DP2BR:	10077338	Elevation: 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 Improvement Location			

#### <u>Overburden and Bedrock</u> <u>Materials Interval</u>

Source Revision Comment: Supplier Comment:

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

• •	mber of cords	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc: Mat3: Mat3 Desc: Formation Top De <sub>l</sub> Formation End De Formation End De	pth:	GRAVEL 91 WATER-BEARING 23.0 30.0 ft			
<u>Overburden and B</u> <u>Materials Interval</u>	<u>edrock</u>				
Formation ID: Layer: Color: General Color:		931171312 1			
Mat1: Most Common Ma Mat2: Mat2 Desc: Mat3:	terial:	02 TOPSOIL			
Mat3 Desc: Formation Top De <sub>l</sub> Formation End De <sub>l</sub> Formation End De <sub>l</sub>	pth:	0.0 1.0 ft			
<u>Overburden and B</u> <u>Materials Interval</u>	edrock_				
Formation ID: Layer: Color: General Color:		931171313 2			
Mat1: Most Common Ma Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top De Formation End De Formation End De	oth: pth:	26 ROCK 01 FILL 73 HARD 1.0 23.0 ft			
<u>Method of Constru Use</u>	ction & Well				
Method Construct Method Construct Method Construct Other Method Con	ion Code: ion:	961908709 6 Boring			
Pipe Information					
Pipe ID: Casing No: Comment: Alt Name:		10625908 1			
Construction Reco	ord - Casing				
Casing ID: Layer: Material: Open Hole or Mate	erial:	930135214 1 3 CONCRETE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth From:					
Depth To:		30.0			
Casing Diam		30.0			
Casing Diame Casing Depth		inch ft			
Casing Depth		it.			
<u>Results of We</u>	ell Yield Testing				
Pump Test ID		991908709			
Pump Set At: Static Level:		20.0			
Final Level A	fter Pumpina:	21.0			
	ed Pump Depth:	29.0			
Pumping Rat		8.0			
Flowing Rate	: ed Pump Rate:	4.0			
Levels UOM:	sa r ump Rate.	ft			
Rate UOM:		GPM			
	fter Test Code:	1			
Water State A		CLEAR			
Pumping Tes Pumping Dur		2 1			
Pumping Dur		0			
Flowing:		No			
<u>Draw Down 8</u>	Recovery				
Pump Test De	etail ID:	934408563			
Test Type:		Draw Down			
Test Duration	n:	30			
Test Level:		24.0			
Test Level UC	DM:	ft			
<u>Draw Down 8</u>	<u>Recovery</u>				
Pump Test D	etail ID:	934127729			
Test Type:		Draw Down			
Test Duration Test Level:	n:	15 22.0			
Test Level. Test Level UC	ОМ:	ft			
<u>Draw Down 8</u>	Recovery				
	-	004000750			
Pump Test Do Test Type:	etail ID:	934920756 Draw Down			
Test Duration	n:	60			
Test Level:		26.0			
Test Level UC	ОМ:	ft			
<u>Draw Down 8</u>	Recovery				
Pump Test D	etail ID:	934667933			
Test Type:		Draw Down			
Test Duration	n:	45			
Test Level:		25.0			
Test Level UC	DM:	ft			
<u>Water Details</u>	:				
Water ID:		933519337			
Layer:		1			
78	erisinfo.com   En	vironmental Risk Info	ormation Service	es	Order No: 22030700330

Map Key	Number Records		Elev/Diff (m)	Site		DB
Kind Code: Kind: Water Found Water Found		1 FRESH 23.0 I: ft				
<u>35</u>	1 of 2	SSW/250.0	116.2/-1.55	The Corporation of Clarington	the Municipality of	ECA
				Clarington ON L1C	3A6	
Approval No: Approval Dat		8261-76JGPK 2007-08-30		MOE District: City:	York-Durham	
Status: Record Type: Link Source: SWP Area Na Approval Typ Project Type: Business Nar	ame: be: :	MUNICIPAL AND	AND PRIVATE SE PRIVATE SEWAG of the Municipality or	EWORKS	-78.7019 43.9045	
Address: Full Address: Full PDF Link PDF Site Loc	<i>c:</i>	https://www.acces	ssenvironment.ene.	gov.on.ca/instruments/797	6-76HLGA-14.pdf	
35	2 of 2	SSW/250.0	116.2/-1.55	The Regional Munic	ipality of Durham	ECA
				Clarington ON L1N	6A3	LUA
Approval No: Approval Dat Status: Record Type: Link Source: SWP Area Na Approval Typ Project Type: Business Nai Address: Full Address: Full Address: Full PDF Link PDF Site Loc	te: : : : : : : : : : : : :	MUNICIPAL AND The Regional Mu	AND PRIVATE SE PRIVATE SEWAG nicipality of Durham ssenvironment.ene.e		York-Durham -78.7019 43.9045 9-76GSAS-14.pdf	
<u>36</u>	1 of 1	N/257.8	117.6 / -0.19	1 Martin Road Bowmanville ON		EHS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building S Additional Ini	ed: e Name: Size:	20130220004 C Standard Report 28-FEB-13 20-FEB-13 Rural residential/ agricultura approx. 2.4ha Fire Insur. Maps a		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	Clarington (Former Darlingt ON .25 0 0	on Township)
<u>37</u>	1 of 1	ESE/259.4	106.6 / -11.20	ON		WWIS
<i>Well ID:</i> Construction Primary Wate		1900014 Domestic		Data Entry Status: Data Src: Date Received:	1 10/4/1955	
79	erisinfo.co	m   Environmental Risk Ir	formation Service	9S	Order No	: 22030700330

Records		Distance (m)	( <i>m</i> )	Site		
	0			Selected Flag:	TRUE	
us:	water Sup	рру			0140	
					I	
lethod:					DURHAM	
				2	BOWMANVILLE TOWN	
ability:				Site Info:		
ock:				Lot:		
				Concession:		
edrock:				Concession Name:		
evel:						
				UTM Reliability:		
):		https://d2khazk8e83	rdv.cloudfront.ne	t/moe_mapping/downloads	/2Water/Wells_pdfs/190\1900014.p	odf
		1055/00/20				
a:						
<u>rmation</u>						
	10069082			Elevation:		
					17	
:						
				Org CS:		
				UTMRC:	9	
ed:	26-Sep-19	55 00:00:00		UTMRC Desc:	unknown UTM	
				Location Method:	p9	
ce Date:						
nent:	nt:					
<u>id Bedrock</u>	<u>(</u>					
<u>val</u>						
		1				
		00				
Motorial						
waterial:		I UPSUIL				
Depth:		0.0				
Depth:		1.0				
I Depth UO	ОМ:	ft				
	us: l: lethod: ability: bock: edrock: edrock: edrock: ail(s) (Map d Date: d Date: d Date: d: rmation : ce Date: cocation S occation S occation S occation M on Comme nent: ad Bedrock val	us: Water Sup l: Method: ability: bok: edrock: edrock: evel: ): ail(s) (Map) d Date: ail(s) (Map) d Da	wis: Water Supply d: Method: hbility: bock: edrock: edrock: evel: https://d2khazk8e83 ail(s) (Map) d Date: 1955/09/26 1955 18.288 43.9061570334143 -78.6975184529611 190\1900014.pdf rmation 10069082 : d: 26-Sep-1955 00:00:00 ce Date: cocation Source: cocation Method: on Comment: ment: hd Bedrock val 931135496 1 02 TOPSOIL	us: Water Supply d: Method: hbility: pock: adrock: adrock: avel: https://d2khazk8e83rdv.cloudfront.ne ail(s) (Map) d Date: 1955/09/26 d: 1955 18.288 43.9061570334143 -78.6975184529611 190/1900014.pdf rmation 10069082 : d: 26-Sep-1955 00:00:00 ce Date: .ocation Source: .ocation Source: .ocation Method: on Comment: hent: vd Bedrock val 931135496 1 02 TOPSOIL	us: Water Supply Abandonment Rec: Contractor: Contractor: Porm Version: Method: billity: bolk: corression : corression : corression : corression Name: Easting NAD83: corression Name: Easting NAD83: corression Name: Easting NAD83: Zone: UTM Reliability: ): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads all(s) (Map) d Date: 1955/09/26 d: 1955 d: 1955 d: 1955 190014.pdf frmation 10069082 Elevation: East83: Org CS: UTMRC Desc: Location Method: re Date: .ocation Source: .ocation Source: .ocation Source: .ocation Method: n Comment: nent: d Bedrock val 931135496 1 02 Material: TOPSOIL	us:     Water Supply     Abandommönt Rec:     1       ut:     Contractor:     2113.       ut:     Form Version:     1       www.rec:     Street Name:     Ourner:       billifu:     Street Name:     Ourner:       street Name:     Contractor:     DURHAM       Municipality:     BOWMANVILLE TOWN     BOWMANVILLE TOWN       billifu:     Stite Info:     Concession:       street Name:     Concession:     Concessi

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	
<u>Overburden</u> <u>Materials Int</u>	and Bedrock erval				
Formation IL	D:	931135498			
Layer:		3			
Color:		2			
General Cold	or:	GREY			
Mat1:		05			
Most Comm	on Material:	CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation T		34.0			
Formation E		60.0			
Formation E	nd Depth UOM:	ft			
<u>Overburden</u> <u>Materials Int</u>	and Bedrock erval				
Formation IL	D:	931135497			
Layer:		2			
Color:		6			
General Cole	or:	BROWN			
Mat1:		05			
Most Comm	on Material:	CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:	on Donth:	1.0			
Formation T Formation E		34.0			
	nd Depth UOM:	ft			
<u>Method of C</u> <u>Use</u>	onstruction & Well				
Method Con	struction ID:	961900014			
	struction Code:	1			
Method Con	struction:	Cable Tool			
Other Metho	d Construction:				
<u>Pipe Informa</u>	ation				
Pipe ID:		10617652			
Casing No:		1			
Comment:					

# **Construction Record - Casing**

Casing ID: Layer:	930126296 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

Alt Name:

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Results of W	ell Yield Tes	<u>ting</u>					
Pump Test ID Pump Set At:			991900014				
Static Level: Final Level A Recommond	•		22.0 55.0				
Recommende Pumping Rat Flowing Rate Recommende	te: e:		3.0				
Levels UOM: Rate UOM:	•		ft GPM				
Water State A Water State A	After Test:	ode:	1 CLEAR				
Pumping Tes Pumping Dur Pumping Dur	ration HR:		1 4 0				
Flowing:			No				
Water Details	5						
Water ID: Layer: Kind Code:			933510545 1 1				
Kind: Water Found Water Found		:	FRESH 35.0 ft				
<u>38</u>	1 of 1		SE/259.9	120.4 / 2.58	50 Martin Rd Claringt Clarington ON L1C3K		EHS
Order No: Status:		201311( C	05022		Nearest Intersection: Municipality:		
Report Type: Report Date:		Standar 14-NOV			Client Prov/State: Search Radius (km):	ON .25	
Date Receive Previous Site Lot/Building	e Name:	05-NOV			X: Y:	-78.699079 43.904858	
Additional In			Fire Insur. Maps an	d/or Site Plans			
<u>39</u>	1 of 1		NNW/262.3	119.8 / 2.05	S/E CORNER OF HW BOWMANVILLE ON	Y #2 & HWY #57 lot 14 con 2	wwis
Well ID: Construction Primary Wate		7039224	4		Data Entry Status: Data Src: Date Received:	1/16/2007	
Sec. Water U Final Well Sta Water Type:	lse:	Abando	ned-Other		Selected Flag: Abandonment Rec: Contractor:	TRUE Yes 4102	
Casing Mater Audit No:	rial:	Z56367			Form Version: Owner: Street Name:	3 S/E CORNER OF HWY #2 & HW	V #57
Tag: Construction Elevation (m)	):				County: Municipality:	DURHAM NEWCASTLE TOWN (DARLING	
Elevation Rel Depth to Bed Well Depth: Overburden/l	lrock:				Site Info: Lot: Concession: Concession Name:	014 02	
Pump Rate: Static Water Flowing (Y/N,					Easting NAD83: Northing NAD83: Zone:		

	Number Records		tion/ El nce (m) (n	lev/Diff n)	Site		DB
Clear/Cloud	y:						
PDF URL (M	lap):	https://d2	khazk8e83rdv.	cloudfront.net/	moe_mapping/downloads	/2Water/Wells_pdfs/703\7039224.pdf	
Additional D	Detail(s) (Maj	<u>)</u>					
Well Comple Year Comple Depth (m): Latitude: Longitude: Path:			82123797 196425214				
		10011000	221.001				
<u>Bore Hole In</u>	<u>nformation</u>						
Bore Hole IE DP2BR: Spatial Statu Code OB: Code OB De Open Hole: Cluster Kinc Date Comple Remarks: Elevrc Desc Location So Improvemer Improvemer Source Revi Supplier Con <u>Method of C</u> <u>Use</u>	us: esc: eted: : ource Date: nt Location S nt Location I ision Comm mment:	lethod: ent:	00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 684486.00 4864466.00 UTM83 3 margin of error : 10 - 30 m wwr	
Method Con	struction Co		24				
Method Con Method Con	struction Co struction:	ode:	24				
Method Con Method Con Method Con Other Metho <u>Pipe Informa</u>	estruction Co estruction: od Construct	ode:	24				
Method Con Method Con Other Metho <u>Pipe Informa</u> Pipe ID: Casing No:	estruction Co estruction: od Construct	ode:					
Method Con Method Con Other Metho Pipe Informa Pipe ID: Casing No: Comment:	estruction Co estruction: od Construct	ode: tion: 11769456	5	4.9 / -2.88	215 KING STREET V BOWMANVILLE ON	VEST	wwis

Order No: 22030700330

• •	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Well Depth: Overburden/Be Pump Rate: Static Water Le Flowing (Y/N): Flow Rate: Clear/Cloudy:				Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:		
PDF URL (Map)	:					
Additional Deta	<u>iil(s) (Map)</u>					
Well Completed Year Completed Depth (m): Latitude: Longitude: Path:		2017/08/23 2017 4.572 43.9103613017595 -78.7001845336099				
Bore Hole Infor	mation					
	d: 23-Aug- e Date: ocation Source: ocation Method: n Comment:	3395 2017 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 684665.00 4864488.00 UTM83 4 margin of error : 30 m - 100 m wwr	
<u>Overburden and</u> Materials Interv						
Formation ID: Layer: Color: General Color: Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Formation End Formation End	Depth: Depth:	1006883554 1 8 BLACK 02 TOPSOIL 0.0 1.0 ft				
<u>Overburden and</u> <u>Materials Interv</u>						
Formation ID: Layer: Color: General Color: Mat1:		1006883556 3 2 GREY 06				

Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
n Material:	SILT				
	CLAY				
p Depth:	10.0				
	15.0				
d Depth UOM:	ft				
<u>nd Bedrock</u> rval					
	1006883555				
?					
	06				
n Material:	SILT				
	05				
	CLAY				
d Depth UOM:	π				
<u>e/Abandonment</u> r <u>d</u>					
	1006883566				
	3				
	4.0				
	15.0				
ОМ:	ft				
<u>e/Abandonment</u> r <u>d</u>					
	1006883564				
	1				
ОМ:	0.5 ft				
e/Abandonment_ rd					
	1006883565				
	2				
	0.5				
	4.0				
ОМ:	ft				
nstruction & Well					
truction ID:	1006883563				
	D				
truction:	Direct Push				
Construction:					
	Records   n Material:   o Depth:   d Depth UOM:   nd Bedrock   rval   c:   n Material:   o Depth:   d Depth UOM:   d Depth:   d Depth   d Dom:   cd   DM:   cd   DM:   cd   DM:   cd   DM:   cd   DM:   cd   DM:   cd   cd	RecordsDistance (m)n Material:SILT OS CLAYn Depth:10.0d Depth:15.0d Depth UOM:ftnd Bedrock rval1006883555:BROWN O6n Material:SILT O5 CLAYn Material:1.0ob Depth:1.0ob Depth: <td>Records     Distance (m) (m)       n Material:     SILT 05 CLAY       o Depth:     10.0       d Depth:     15.0       d Depth UOM:     ft       nd Bedrock. rval     1006883555       :     BROWN 06       nd Material:     SILT 05 CLAY       o Depth:     1.0       o Depth:     1.0       o Depth:     1.0       of Depth:     1.0       o Depth:     1.0       o Depth:     1.0       o Depth:     1.0.0       d Depth UOM:     ft       e/Abandonment.     15.0       c/Abandonment.     1006883566       3     4.0       DM:     ft       e/Abandonment.     1006883565       2     0.5       DM:     ft       it     1006883565       2     0.5       DM:     ft</td> <td>Records         Distance (m)         (m)           n Material:         SIL T OS CLAY         OS CLAY           o Depth:         10.0 d Depth:         15.0 t           o Depth:         1006883555 2 6 8         Image: Clay           nd Bedrock. Vol         1006883555 2 6 8         Image: Clay           n Material:         SIL T 05 CLAY         Image: Clay           n Material:         SIL T 05 CLAY         Image: Clay           n Depth:         10.0 d Depth:         10.0 15.0 t         Image: Clay           n Depth:         10.0 d Depth:         10.0 0.5 t         Image: Clay           n Depth:         10.0 0.5 t         Image: Clay         Image: Clay           n Difference:         Image: Clay         Image: Clay</td> <td>Records         Distance (m)         (m)           n Material:         SLT CLAY         SLT CLAY           o Depth::         10.0         SLT           d Depth::         15.0         T           nd Badrock. real         1006883555         2           r:         BROWN         BROWN           00         Depth::         1.0           01         Docess555         2           r:         BROWN         BROWN           00         Depth::         1.0           01         Docess3555         2           r:         BROWN         BROWN           05         CLAY         DEpth::           05         CLAY         DEpth::           05         CLAY         DEpth::           05         CLAY         DEpth::           05         DEpth::         1.0           05         DEpth::         1.0           05         DEpth::         1.0           06         Depth::         1.0           06         DEpth::         1.0           07         DEpth::         1.0           08         DEpth::         1.0           08         &lt;</td>	Records     Distance (m) (m)       n Material:     SILT 05 CLAY       o Depth:     10.0       d Depth:     15.0       d Depth UOM:     ft       nd Bedrock. rval     1006883555       :     BROWN 06       nd Material:     SILT 05 CLAY       o Depth:     1.0       o Depth:     1.0       o Depth:     1.0       of Depth:     1.0       o Depth:     1.0       o Depth:     1.0       o Depth:     1.0.0       d Depth UOM:     ft       e/Abandonment.     15.0       c/Abandonment.     1006883566       3     4.0       DM:     ft       e/Abandonment.     1006883565       2     0.5       DM:     ft       it     1006883565       2     0.5       DM:     ft	Records         Distance (m)         (m)           n Material:         SIL T OS CLAY         OS CLAY           o Depth:         10.0 d Depth:         15.0 t           o Depth:         1006883555 2 6 8         Image: Clay           nd Bedrock. Vol         1006883555 2 6 8         Image: Clay           n Material:         SIL T 05 CLAY         Image: Clay           n Material:         SIL T 05 CLAY         Image: Clay           n Depth:         10.0 d Depth:         10.0 15.0 t         Image: Clay           n Depth:         10.0 d Depth:         10.0 0.5 t         Image: Clay           n Depth:         10.0 0.5 t         Image: Clay         Image: Clay           n Difference:         Image: Clay         Image: Clay	Records         Distance (m)         (m)           n Material:         SLT CLAY         SLT CLAY           o Depth::         10.0         SLT           d Depth::         15.0         T           nd Badrock. real         1006883555         2           r:         BROWN         BROWN           00         Depth::         1.0           01         Docess555         2           r:         BROWN         BROWN           00         Depth::         1.0           01         Docess3555         2           r:         BROWN         BROWN           05         CLAY         DEpth::           05         CLAY         DEpth::           05         CLAY         DEpth::           05         CLAY         DEpth::           05         DEpth::         1.0           05         DEpth::         1.0           05         DEpth::         1.0           06         Depth::         1.0           06         DEpth::         1.0           07         DEpth::         1.0           08         DEpth::         1.0           08         <

Order No: 22030700330

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Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Pipe Informa</u>	<u>ntion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1006883553 0			
<u>Construction</u>	<u>n Record - Casing</u>				
Casing ID:		1006883559			
Layer:		1			
Material:		5			
Open Hole o	r Material:	PLASTIC			
Depth From:		0.0			
Depth To:		5.0			
Casing Diam	eter:	2.0			
Casing Diam	eter UOM:	inch			
Casing Dept	h UOM:	ft			
<u>Construction</u>	n Record - Screen				
Screen ID:		1006883560			
Layer:		1			
Slot		10			

Luyer.	
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

<u>41</u>	1 of 1	SE/265.1	120.3 / 2.56	ON		WWIS
Well ID: Constructi Primary Wa Sec. Water Final Well S Water Type Casing Ma Audit No:	ater Use: Use: Status: Ə:	1900028 Domestic 0 Water Supply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	1 6/19/1959 TRUE 2202 1	
Tag: Constructio	on Method:			Street Name: County:	DURHAM	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	
Elevation (m) Elevation Re Depth to Bed Well Depth: Overburden// Pump Rate: Static Water Flowing (Y/N) Flow Rate: Clear/Cloudy	liability: Irock: Bedrock: Level: I):			Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	BOWMANVILLE TOWN
PDF URL (Ma	ap):	https://d2khazk8e83	rdv.cloudfront.ne	et/moe_mapping/downloads	s/2Water/Wells_pdfs/190\1900028.pdf
Additional De	etail(s) (Map)				
Well Comple Year Comple Depth (m): Latitude: Longitude: Path:		1959/04/01 1959 32.9184 43.9048106782056 -78.6990646824467 190\1900028.pdf			
Bore Hole Ini	formation				
Bore Hole ID DP2BR: Spatial Statu Code OB: Code OB Des Open Hole: Cluster Kind:	s: sc:	096		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	17 684772.10 4863874.00 5
Improvement	urce Date: t Location Source: t Location Method: sion Comment:	-1959 00:00:00		UTMRC Desc: Location Method:	margin of error : 100 m - 300 m p5
<u>Overburden a</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color: General Colo Mat1:	or:	931135553 1 02			
Most Commo Mat2: Mat2 Desc: Mat3: Mat3 Desc:	on Material:	TOPSOIL			
Formation To Formation Er Formation Er		0.0 1.0 ft			
Overburden a Materials Inte	<u>and Bedrock</u> erval				
Formation ID	):	931135556			

DB

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:					
General Colo	r:				
Mat1:		11			
Most Commo	n Material:	GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3: Mat3 Desc:					
Formation To	n Donth:	70.0			
Formation Er		72.0			
Formation Er	nd Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
Formation ID	:	931135555			
Layer:	-	3			
Color:		3			
General Colo	r:	BLUE			
Mat1:		05			
Most Commo	n Material:	CLAY			
Mat2:					
Mat2 Desc:					
Mat3: Mat3 Desc:					
Formation To	n Denth:	32.0			
Formation Er		70.0			
	nd Depth UOM:	ft			
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID	:	931135554			
Layer:		2			
Color:		6			
General Colo	r:	BROWN			
Mat1:		05			
Most Commo	n Material:	CLAY			
Mat2: Mat2 Decei		13 BOULDERS			
Mat2 Desc: Mat3:		BOULDERS			
Mat3 Desc:					
Formation To	p Depth:	1.0			
Formation Er		32.0			
Formation Er	nd Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
		021125550			
Formation ID	•	931135558 6			
Layer: Color:		U			
General Colo	r:				
Mat1:	••	09			
Most Commo	n Material:	MEDIUM SAND			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To		107.0			
Formation Er		108.0			
rormation Er	nd Depth UOM:	ft			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden a</u> Materials Inte					
Formation ID Layer: Color:	:	931135557 5			
General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3:		05 CLAY			
Mat3 Desc: Formation To Formation Er		72.0 107.0 ft			
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons	truction Code:	961900028 1 Cable Tool			
<u>Pipe Informat</u>	tion				
Pipe ID: Casing No: Comment: Alt Name:		10617666 1			
<u>Construction</u>	<u> Record - Casing</u>				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diamo Casing Diamo Casing Depth	eter: eter UOM:	930126315 1 STEEL 108.0 4.0 inch ft			
<u>Results of We</u>	ell Yield Testing				
Recommende Pumping Rat Flowing Rate	fter Pumping: ed Pump Depth: e: :	991900028 20.0 108.0 20.0 1.0			
Levels UOM: Rate UOM:	t Method: ation HR:	1.0 ft GPM 2 CLOUDY 1 4 0 No			

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		D
Nater Details	<u>I</u>						
Nater ID:		g	33510556				
Layer:		1					
Kind Code:		1					
Kind:			RESH				
Nater Found			0.0				
Nater Found	Depth UOI	<b>VI:</b> ft					
<u>42</u>	1 of 1		WSW/272.0	115.8/-2.03	Aspen Springs Drive, Bowmanville ON	Bowmanville	EHS
Order No:		201401310	32		Nearest Intersection:		
Status:		C			Municipality:	Clarington (Former Darlington	Fownship)
Report Type:		Standard R	eport		Client Prov/State:	ON	
Report Date: Date Receive	d.	06-FEB-14 31-JAN-14			Search Radius (km): X:	.25 -78.704311	
Previous Site		Agricultural			х. Ү:	43.905577	
Lot/Building		Agricultural			1.	43:903377	
Additional Inf		:					
<u>43</u>	1 of 1		ESE/288.9	109.5 / -8.27	50 REGIONAL RD 57 CLARINGTON ON		ww
Nell ID:		7306629			Data Entry Status:		
Construction	Date	7300023			Data Src:		
Primary Wate		Test Hole			Data Src. Date Received:	2/28/2018	
Sec. Water U		Monitoring			Selected Flag:	TRUE	
Final Well Sta		Observatio	n Wells		Abandonment Rec:		
Nater Type:					Contractor:	7230	
Casing Mater	ial:				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 Rel					Site Info:		
Depth to Bed	rock:				Lot:		
Nell Depth:					Concession:		
Overburden/E	Bedrock:				Concession Name:		
Pump Rate:					Easting NAD83:		
Static Water I					Northing NAD83:		
Flowing (Y/N) Flow Rate:	):				Zone:		
Clear/Cloudy	:				UTM Reliability:		
PDF URL (Ma	p):						
Additional De	etail(s) (Maj	<u>p)</u>					
Nell Complet	ted Date:	2	017/05/31				
Year Complet			017				
Depth (m):			.6				
Latitude:		4	3.9053154123471				
Longitude:		-	78.6977513982545	5			
Path:							
Bore Hole Inf	ormation						
Bore Hole ID:		100699368	7		Elevation:		
DP2BR:					Elevrc:		
			nmental Risk Info				203070033

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Spatial Status	s:			Zone:	17	
Code OB:				East83:	684876.00	
Code OB Des	ic:			North83:	4863933.00	
Open Hole:				Org CS:	UTM83	
<b>Cluster Kind:</b>				UTMRC:	5	
Date Complet	ted: 31-May	-2017 00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m	
Remarks:		2011 00100100		Location Method:	wwr	
				Location Method.	VV VVI	
Elevrc Desc:						
Location Sou	rce Date:					
Improvement	Location Source:					
Improvement	Location Method:					
•	ion Comment:					
Supplier Com						
ouppiler oon	iniciti.					
<u>Overburden a</u> Materials Inte						
materials mite	<u></u>					
Formation ID.	:	1007179451				
Layer:		2				
Color:		6				
General Colo	r:	BROWN				
Mat1:		06				
Most Commo	n Material:	SILT				
Mat2:		28				
Mat2 Desc:		SAND				
Mat2 Desc. Mat3:		66				
mats:						
		DENSE				
	op Depth:	0.20000002980232	224			
Formation To		0.200000002980232				
Formation To Formation En Formation En	nd Depth: nd Depth UOM:					
Formation To Formation En Formation En <u>Overburden a</u> <u>Materials Inte</u> Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2 Mat2 Desc: Mat2 Desc: Mat3 Desc: Formation To Formation En	nd Depth: nd Depth UOM: <u>and Bedrock</u> e <u>rval</u> : r: n Material: op Depth:	0.200000002980232 2.099999904632568	34			
Formation To Formation En Formation En Materials Inter Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En Formation En	nd Depth: and Depth UOM: <u>and Bedrock</u> <u>erval</u> : r: n Material: of Depth: and Depth: and Depth UOM:	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.20000002980232	34			
Overburden a Materials Inte Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat2 Desc: Mat3 Desc: Formation To Formation En	nd Depth: and Depth UOM: and Bedrock erval : r: r: n Material: of Depth: and Depth: and Depth UOM: and Bedrock erval	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.20000002980232	34			
Formation To Formation En Formation En Materials Inter Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En Formation En Formation ID.	nd Depth: and Depth UOM: and Bedrock erval : r: r: n Material: of Depth: and Depth: and Depth UOM: and Bedrock erval	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m	34			
Formation To Formation En Formation En Materials Inte Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En Formation En Formation ID. Layer:	nd Depth: and Depth UOM: and Bedrock erval : r: r: n Material: of Depth: and Depth: and Depth UOM: and Bedrock erval	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m	34			
Formation To Formation En Formation En Materials Inte Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En Formation En Formation ID. Layer: Color:	nd Depth: and Depth UOM: and Bedrock erval : r: r: n Material: n Material: nd Depth: nd Depth: nd Depth: nd Depth UOM: and Bedrock erval	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2	34			
Formation To Formation En Formation En Formation En Aterials Inter Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3: Desc: Formation To Formation En Formation En Formation En Formation ID. Layer: Color: General Colo.	nd Depth: and Depth UOM: and Bedrock erval : r: r: n Material: n Material: nd Depth: nd Depth: nd Depth: nd Depth UOM: and Bedrock erval	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY	34			
Formation To Formation En Formation En Formation En Aterials Inte Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En Formation En Formation En Formation ID. Layer: Color: General Colo. Mat1:	nd Depth: and Depth UOM: and Bedrock erval : r: n Material: an Material: and Depth: and Depth UOM: and Bedrock erval :	0.20000002980232 2.0999999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY 34	34			
Formation To Formation En Formation En Formation En Materials Inte Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat3 Desc: Formation En Formation En Formation En Formation En Formation ID. Layer: Color: General Colo. Mat1: Most Commo	nd Depth: and Depth UOM: and Bedrock erval : r: n Material: an Material: and Depth: and Depth UOM: and Bedrock erval :	0.20000002980232 2.0999999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY 34 TILL	34			
Formation To Formation En Formation En Formation En Materials Inter Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat3 Desc: Formation En Formation En Formation En Formation En Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2:	nd Depth: and Depth UOM: and Bedrock erval : r: n Material: an Material: and Depth: and Depth UOM: and Bedrock erval :	0.20000002980232 2.0999999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY 34 TILL 28	34			
Formation To Formation En Formation En Formation En Materials Inter Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat3 Desc: Formation En Formation En Formation En Formation En Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2:	nd Depth: and Depth UOM: and Bedrock erval : r: n Material: an Material: and Depth: and Depth UOM: and Bedrock erval :	0.20000002980232 2.0999999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY 34 TILL	34			
Formation To Formation En Formation En Formation En Materials Inter Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat3 Desc: Formation En Formation En Formation En Formation En Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc:	nd Depth: and Depth UOM: and Bedrock erval : r: n Material: an Material: and Depth: and Depth UOM: and Bedrock erval :	0.20000002980232 2.0999999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY 34 TILL 28 SAND	34			
Formation To Formation En Formation En Formation En Materials Inte Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Formation En Formation En Formation En Formation En Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat2 Desc: Mat2 Desc: Mat2 Desc: Mat3	nd Depth: and Depth UOM: and Bedrock erval : r: n Material: an Material: and Depth: and Depth UOM: and Bedrock erval :	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY 34 TILL 28 SAND 66	34			
Formation To Formation En Formation En Formation En Materials Inter Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation En Formation En Formation En Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat2 Desc: Mat2 Desc: Mat3 Desc:	ad Depth: ad Depth UOM: and Bedrock erval : r: n Material: ad Depth: ad Depth: ad Depth UOM: and Bedrock erval : r: n Material:	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY 34 TILL 28 SAND 66 DENSE	224			
Formation To Formation En Formation En Formation En Materials Inter Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En Formation En Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat2 Desc: Mat2 Desc: Mat2 Desc: Mat2 Desc: Mat3	ad Depth: and Depth UOM: and Bedrock erval : r: n Material: and Depth: ad Depth: ad Depth UOM: and Bedrock erval : r: n Material:	0.20000002980232 2.099999904632568 m 1007179450 1 6 BROWN 01 FILL 77 LOOSE 0.0 0.200000002980232 m 1007179452 3 2 GREY 34 TILL 28 SAND 66	34 224			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation E	nd Depth UOM:	m			
<u>Annular Spa</u> Sealing Reco	<u>ce/Abandonment</u> ord				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	JOM:	1007179460 1 0.0 2.4000000953674310 m	5		
<u>Method of Co Use</u>	onstruction & Well				
Method Con	struction Code:	1007179459 6 Boring			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1007179449 0			
<u>Construction</u>	n Record - Casing				
Casing ID: Layer: Material: Open Hole o Depth From: Depth To: Casing Diam Casing Diam Casing Dept	eter: eter UOM:	1007179455 1 5 PLASTIC 0.899999976158142 3.0 5.199999809265137 cm m	1		
<u>Construction</u>	n Record - Screen				
Screen ID: Layer: Slot: Screen Top I Screen End Screen Mate Screen Diam Screen Diam	Depth: rial: h UOM: eter UOM:	1007179456 1 5 3.0 4.599999904632568 5 m cm 6.0			
<u>Water Detail</u>	5				
Water ID: Layer: Kind Code: Kind: Water Found Water Found	l Depth: l Depth UOM:	1007179454 1 8 Untested 1.5 m			
Holo Diamot	or.				

<u>Hole Diameter</u>

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	Di
Hole ID: Diameter: Depth From: Depth To: Hole Depth UC Hole Diameter		1007179453 15.0 0.89999997615814 4.59999990463256 m cm			
<u>44</u>	1 of 1	SE/293.2	110.9 / -6.93	50 REGIONAL RD 57 CLARINGTON ON	wwi
Well ID: Construction I Primary Water Sec. Water Use Final Well Stat Water Type: Casing Materia Audit No: Tag: Construction I Elevation (m): Elevation Relia Depth to Bedro Well Depth: Overburden/Be Pump Rate: Static Water Lo Flowing (Y/N): Flow Rate: Clear/Cloudy:	Use: Test l e: Monit us: Obse al: Z276 A226 Method: ability: ock: edrock: evel:	Hole oring rvation Wells 222		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	2/28/2018 TRUE 7230 7 50 REGIONAL RD 57 DURHAM NEWCASTLE TOWN (DARLINGTON)
PDF URL (Map Additional Det					
Well Complete Year Complete Depth (m): Latitude: Longitude: Path:	d Date:	2017/05/31 2017 3.8 43.9051557348231 -78.6978696292813			
Bore Hole Info	<u>rmation</u>				
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc Open Hole: Cluster Kind:		993672		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	17 684867.00 4863915.00 UTM83 6
Date Complete Remarks: Elevrc Desc: Location Sour Improvement I	ce Date: Location Source Location Methoc on Comment:			UTMRC Desc: Location Method:	margin of error : 300 m - 1 km wwr

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	Di
Materials Inte	erval				
Formation ID	:	1007179394			
Layer:		1			
Color:		6			
General Colo	r:	BROWN			
Mat1:		28			
Most Commo	on Material:	SAND			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:		77			
Mat3 Desc:		LOOSE			
Formation To		0.0			
Formation Er		0.800000011920929			
Formation Er	nd Depth UOM:	m			
	and Bedrock				
Materials Inte	erval				
Formation ID	:	1007179396			
Layer:		3			
Color:		2			
General Colo	r:	GREY			
Mat1:		34			
Most Commo	on Material:	TILL			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		66			
Mat3 Desc:		DENSE			
Formation To	op Depth:	1.799999952316284	2		
Formation Er	nd Depth:	3.799999952316284			
	nd Depth UOM:	m			
<u>Overburden a</u> Materials Inte	and Bedrock				
Formation ID	:	1007179395			
Layer:		2			
Color:		2			
General Colo	<i>r</i> :	GREY			
Mat1:		28			
Most Commo	n Material:	SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
1/- 40					
Mat3 Desc:	<b>D</b> (1	0.00000011000000			
Mat3 Desc: Formation To	op Depth:	0.80000011920929			
Mat3 Desc: Formation Tc Formation Er	nd Depth:	1.799999952316284			
Mat3: Mat3 Desc: Formation Tc Formation Er Formation Er	pp Depth: nd Depth: nd Depth UOM:				
Mat3 Desc: Formation Tc Formation Er Formation Er	nd Depth: nd Depth UOM: ce/Abandonment	1.799999952316284			
Mat3 Desc: Formation Tc Formation Er Formation Er <u>Annular Spac</u> Sealing Reco	nd Depth: nd Depth UOM: ce/Abandonment	1.799999952316284 m			
Mat3 Desc: Formation Tc Formation Er Formation Er <u>Annular Spac</u> Sealing Reco Plug ID:	nd Depth: nd Depth UOM: ce/Abandonment	1.799999952316284 m 1007179404			
Mat3 Desc: Formation Tc Formation Er Formation Er <u>Annular Spac</u> <u>Sealing Reco</u> Plug ID: Layer:	nd Depth: nd Depth UOM: ce/Abandonment	1.799999952316284 m 1007179404 1			
Mat3 Desc: Formation Tc Formation Er Formation Er <u>Annular Spac</u> <u>Sealing Reco</u> Plug ID: Layer: Plug From:	nd Depth: nd Depth UOM: ce/Abandonment	1.799999952316284 m 1007179404 1 0.0	2		
Mat3 Desc: Formation Tc Formation Er Formation Er <u>Annular Spac</u> Sealing Reco Plug ID:	nd Depth: nd Depth UOM: <u>ce/Abandonment</u> <u>ord</u>	1.799999952316284 m 1007179404 1	2		

Method of Construction & Well Use

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	D
	struction Code:	1007179403 6			
Method Cons Other Metho	struction: d Construction:	Boring			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID:		1007179393			
Casing No: Comment: Alt Name:		0			
Construction	n Record - Casing				
Casing ID:		1007179399			
Layer: Material:		1 5			
Material: Open Hole of	r Material:	PLASTIC			
Depth From:		0.899999976158142			
Depth To:	otori	2.299999952316284 5.199999809265137			
Casing Diam Casing Diam	eter UOM:	cm			
Casing Dept	h UOM:	m			
Construction	<u>n Record - Screen</u>				
Screen ID:		1007179400			
Layer: Slot:		1 5			
Screen Top I	Depth:	2.299999952316284	Ļ		
Screen End I	Depth:	3.799999952316284	Ļ		
Screen Mate Screen Depti		5 m			
Screen Diam		cm			
Screen Diam	eter:	6.0			
Water Details	5				
Water ID:		1007179398			
Layer: Kind Code:		1 8			
Kind:		Untested			
Water Found	I Depth:	1.700000047683715	58		
Water Found	Depth UOM:	m			
Hole Diamete	<u>er</u>				
Hole ID:		1007179397			
Diameter:		15.0	01		
Depth From: Depth To:		0.899999976158142 3.799999952316284			
Hole Depth L		m			
Hole Diamete		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**

#### <u>Site:</u> STANLEY W HUNTER LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

#### Delisted Expired Fuel Safety Facilities

Instance No:	1073867	0
Status:	EXPIRE	D
Instance ID:	35183	
Instance Type:	FS Pipin	g
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		
TSSAMax Hazard Rank		
TSSA Risk Based Period		
TSSA Volume of Directiv	ves:	
TSSA Periodic Exempt:		
TSSA Statutory Interval:		
TSSA Recd Insp Interva	:	
TSSA Recd Tolerance:		
TSSA Program Area:		
TSSA Program Area 2:		
Description:		FS Piping
Original Source:		EXP
Record Date:		Up to Mar 2012

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

#### <u>Site:</u> STANLEY W HUNTER LOT 15 CON 1 GLENELE TWP E G R DURHAM ON N0G 1R0

#### Delisted Expired Fuel Safety Facilities

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



97

Database:

DTNK

**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:

<u>Site:</u> STANLEY HUNTER LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

#### Delisted Expired Fuel Safety Facilities

9393409 Instance No: Status: **EXPIRED** 384621 Instance ID: Instance Type: FS Facility Instance Creation Dt: Instance Install Dt: Item Description: Manufacturer: Model: Serial No: ULC Standard: Quantity: Unit of Measure: **Overfill Prot Type:** Creation Date: Next Periodic Str DT: TSSA Base Sched Cycle 2: TSSAMax Hazard Rank 1: TSSA Risk Based Periodic Yn: **TSSA Volume of Directives:** TSSA Periodic Exempt: TSSA Statutory Interval: TSSA Recd Insp Interva: **TSSA Recd Tolerance:** TSSA Program Area: TSSA Program Area 2: Description: Fuels Safety Private Fuel Outlet - Self Serve EXP **Original Source: Record Date:** Up to Mar 2012

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:

Expired Date:

<u>Site:</u> STANLEY HUNTER LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

Delisted Expired Fuel Safety Facilities

Instance No:10Status:EXInstance ID:36Instance Type:FSInstance Creation Dt:

10738637 EXPIRED 36082 FS Piping Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2:

98

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Order No: 22030700330

Database:

DTNK

Database: DTNK

Item L Manuf Model Serial ULC S Quant Unit o Overfi Creati Next F TSSA TSSA TSSA TSSA TSSA TSSA TSSA	No: Standard:	1:	Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Source:	
	Program Area 2:			
	iption:	FS Piping		
	nal Source: rd Date:	EXP Up to Mar 2012		
<u>Site:</u>	STANLEY HUNTER LOT 15 CON 1 GLEN	ELE TWP E G R DURHAM NOG 1	IRO ON CA ON	Database: DTNK
<u>Site:</u>	STANLEY HUNTER LOT 15 CON 1 GLEN	ELE TWP E G R DURHAM NOG 1	IRO ON CA ON	Database: DTNK
<u>Site:</u>	STANLEY W HUNTE LOT 15 CON 1 GLEN	R ELE TWP E G R DURHAM NOG 1	IRO ON CA ON	Database: DTNK
<u>Site:</u>	STANLEY HUNTER LOT 15 CON 1 GLEN	ELE TWP E G R DURHAM ON		Database: DTNK
<u>Delist</u> Facilit	ed Expired Fuel Safety ties			
Status Instan Instan Instan Item E Manuf Model Serial ULC S Quant ULC S Quant Overfi Creati Next F TSSA TSSA TSSA	s: EXF ace ID: 337 ace Type: FS I ace Creation Dt: ace Install Dt: Description: facturer: I: No: Standard:	Piping	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 Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Source:	

Order No: 22030700330

TSSA Recd Insp Interva: TSSA Recd Tolerance: TSSA Program Area: TSSA Program Area 2: **Description:** Original Source: Record Date:

FS Piping EXP Up to Mar 2012

#### <u>Site:</u> STANLEY HUNTER LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA ON

Instance No: Status: Cont Name: Instance Type: Item: Item Description: Tank Type: Install Date: Install Year: Years in Service: Model: Description: Capacity: Tank Material: Corrosion Protect: Overfill Protect: Facility Type: Parent Facility Type: Facility Location: Device Installed Locatio	FS Liqui Liquid FI 12/27/19 1990 NULL 15000 Steel	ID FUEL TANK d Fuel Tank Jel Single Wall UST 90 FS Liquid Fuel Tank	Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: Panam Venue:	
Fuel Storage Tank Deta	<u>ils</u>	STANLEY HUNTER		
Owner Account Name:		STANLET HUNTER		
<u>Liquid Fuel Tank Detail</u>	<u>s</u>			
Overfill Protection: Owner Account Name: Item:		STANLEY HUNTER FS LIQUID FUEL TANK		

#### <u>Site:</u> STANLEY W HUNTER LOT 15 CON 1 GLENELE TWP E G R DURHAM N0G 1R0 ON CA ON

Instance No: Status: Cont Name: Instance Type: Item: Item Description: Tank Type: Install Date: Install Year: Years in Service: Model: Description: Capacity: Tank Material: Corrosion Protect: Overfill Protect: Facility Type: Parent Facility Type:	FS Liqui	IID FUEL TANK d Fuel Tank uel Single Wall UST	Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: Panam Venue:	Gasoline NULL NULL
Facility Location: Device Installed Location	on:	LOT 15 CON 1 GLENELE TWP E	G R DURHAM N0G 1R0 ON C	CA

Database: **FST** 

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#### Fuel Storage Tank Details

#### Owner Account Name: STANLEY W HUNTER

#### Liquid Fuel Tank Details

STANLEY W HUNTER
FS LIQUID FUEL TANK

# Site: STANLEY HUNTER

#### LOT 15 CON 1 GLENELE TWP E G R DURHAM NOG 1R0 ON CA ON

Instance No: Status: Cont Name: Instance Type: Item: Item Description: Tank Type: Install Date: Install Year: Years in Service: Model: Description: Capacity: Tank Material: Corrosion Protect: Overfill Protect: Facility Type: Parent Facility Type: Facility Location: Device Installed Location <u>Fuel Storage Tank Deta</u> Owner Account Name:		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Diesel Fuel Type2: NULL Fuel Type3: NULL Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: Panam Venue:	
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         Location ID:       4274         Type:       private         Expiry Date:       17200.00         Licence #:       0001052755			

#### <u>Site:</u> STANLEY W HUNTER LOT 15 CON 1 GLENELE TWP E G R DURHAM ON

4274
retail
1995-08-31
15000
0051900001



Database: PRT

# 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:

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\*

Provincial Aggregate Inventory: 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:

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:

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:

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:

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: 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

AAGR

AGR

AMIS

ANDR

AST

AUWR

Provincial

Provincial

Private

Provincial

Private

Provincial

Certificate of Property Use.

Government Publication Date: 1994 - Jan 31, 2022

Canadian Natural Gas Vehicle Alliance. Government Publication Date: Dec 2012 -Nov 2021 Provincial Inventory of Coal Gasification Plants and Coal Tar Sites: COAL

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

#### 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

### **Compliance and Convictions:**

## Government Publication Date: 1989-Jul 2021

# or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil

Government Publication Date: 1999-Jan 31, 2020

Government Publication Date: 1985-Oct 30, 2011\*

Government Publication Date: Jan 2004-Dec 2019

Certificates of Approval:

**Dry Cleaning Facilities:** 

Commercial Fuel Oil Tanks:

### diesel tanks. Records are not verified for accuracy or completeness. Government Publication Date: May 31, 2021

tetrachloroethylene to the environment from dry cleaning facilities.

Please refer to those individual databases for any information after Oct.31, 2011.

Private **Chemical Manufacturers and Distributors:** 

listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of

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.).

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or

updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA).

Chemical Register:

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

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing

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\*

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.

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) -

operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be

Federal List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's

> Provincial CFOT

CHM

Provincial 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

CA

CDRY

### ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can

Private

Provincial

Drill Hole Database:

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:**

Environmental Registry:

#### 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: 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

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment

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:

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:

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:** 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:

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\*

Provincial

Provincial

Provincial

Provincial

DTNK

FBR

**FCA** 

**FFM** 

EIIS

DRL

Provincial

Federal

Private

Federal

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#### Emergency Management Historical Event:

Government Publication Date: Dec 31, 2016

#### Environmental Penalty Annual Report: 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.

List of Expired Fuels Safety Facilities:

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

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.

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Government Publication Date: May 31, 2020

Contaminated Sites on Federal Land:

Federal Convictions:

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\*

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

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

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:

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

# 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

Federal Identification Registry for Storage Tank Systems (FIRSTS):

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:

105

Provincial

Provincial

Federal

Federal

**EPAR** 

EXP

**FCON** 

FCS

FOFT

FRST

Provincial

Federal

Federal

Provincial

**FST** 

**FMHF** 

### Order No: 22030700330

Fuel Storage Tank - Historic:

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:**

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

Government Publication Date: 2013-Dec 2019

#### Greenhouse Gas Emissions from Large Facilities:

# **TSSA Historic Incidents:**

dioxide equivalents (kt CO2 eq).

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\*

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon

## Indian & Northern Affairs Fuel Tanks:

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\*

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

Fuel Oil Spills and Leaks:

#### Landfill Inventory Management Ontario:

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:

106

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\*

Provincial

Provincial

Private

Provincial

Provincial

Federal

Provincial

Federal

GHG

**FSTH** 

GEN

IAFT

INC

LIMO

Mineral Occurrences:

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):

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\*

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of

Non-Compliance Reports: 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:

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\*

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on

#### National Defense & Canadian Forces Spills:

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

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\*

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

#### National Energy Board Pipeline Incidents:

# Government Publication Date: 2008-Jun 30, 2021

National Defence & Canadian Forces Waste Disposal Sites:

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 Energy Board Wells:

107

Federal

Provincial

Federal

Federal

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified

Federal

Federal

Provincial

MNR

NATE

NDFT

NDSP

NDWD

NEBI

NEBP

Federal

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jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

PCFT

### National Environmental Emergencies System (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:

#### 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:

#### 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

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.

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

Government Publication Date: 1988-Nov 30, 2021

#### Ontario Oil and Gas Wells:

Oil and Gas Wells:

#### 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: 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.

#### 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: 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

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

#### Parks Canada Fuel Storage Tanks:

108

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\*

OGWE

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

Provincial

Private

Federal

NEES

Federal

Federal

Private

Provincial

Federal

**NPRI** 

NPCB

Government Publication Date: 1989-1996\*

Private and Retail Fuel Storage Tanks:

### take water. Government Publication Date: 1994 - Jan 31, 2022

**Ontario Regulation 347 Waste Receivers Summary:** 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

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental 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

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:

### or propane storage tanks. Government Publication Date: 1999-Sep 30, 2021

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.

**Ontario Spills:** 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

Pesticide Register: 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:**

#### 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

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).

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

Provincial Record of Site Condition: RSC

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 requirements related to site assessment and clean up.

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 /

### Scott's Manufacturing Directory:

## Government Publication Date: 1992-Mar 2011\*

#### Provincial

Provincial

Provincial

Private

#### Provincial

Provincial

PES

PINC

PRT

SCT

110

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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).

Transport Canada Fuel Storage Tanks:

Government Publication Date: 1990-Dec 31, 2019

#### Anderson's Storage Tanks: The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks,

for research purposes only.

# Government Publication Date: 1915-1953\*

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

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

Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power

#### 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.

Variances for Abandonment of Underground Storage Tanks:

Government Publication Date: May 31, 2021

#### Waste Disposal Sites - MOE CA Inventory:

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:

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:

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

#### Wastewater Discharger Registration Database:

### Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the

Private

Provincial

Federal List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands,

Provincial

Provincial

Provincial

Provincial

#### **WWIS**

### TANK

SRDS

TCFT

VAR

WDS

**WDSH** 

# 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.'

<u>Unplottables:</u> 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 PMTo:Amanda GrossiSubject: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 <u>https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?\_mid\_=392</u> and email the completed form to <u>publicinformationservices@tssa.org</u> 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: <u>publicinformationservices@tssa.org</u>

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.

**[CAUTION]:** This email originated outside the organisation. Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

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

# 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

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# 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) *	To (yyyy/mm/dd) *
1900/01/01	2022/03/07

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

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	Only pesticide licenses post Se supporting documentation is av	•	r to September 2018, only Pesticide license applications and
	No Supporting Documents	✓ All Supporting Documents	Some Supporting Documents
$\checkmark$	Permits to Take Water		
	No Supporting Documents	✓ All Supporting Documents	Some Supporting Documents
	Water Source *		
	✓ Groundwater ✓ Surface	e Water	
<b>√</b>	Noise Vibrations Approvals/Reg	istrations	
	No Supporting Documents	✓ All Supporting Documents	Some Supporting Documents
✓	Air Emissions Approvals/Registi	rations	
	No Supporting Documents	✓ All Supporting Documents	Some Supporting Documents
✓	Water Approvals/Registrations - storage, pumping stations (local		nission, treatment, ground level, standpipes & elevated
	No Supporting Documents	✓ All Supporting Documents	Some Supporting Documents
<b>√</b>	Sewage - Treatment, Stormwat	er, Storm, Leachate & Lieachate	Treatment & Sewage pump stations, Sanitary
	No Supporting Documents	✓ All Supporting Documents	Some Supporting Documents
✓	Waste Water - Industrial dischar	rge	
	No Supporting Documents	✓ All Supporting Documents	Some Supporting Documents
$\checkmark$	Waste Sites - Disposal, Landfill	sites, Transfer stations, Processi	ing sites, Incinerator sites
	No Supporting Documents	✓ All Supporting Documents	Some Supporting Documents
✓	0 ,	haulers: sewage, non-hazardous s) storage, transfer or destruction	s & hazardous waste, mobile waste processing units, n, 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 *	First Name * Middle Initial			
Grossi	Amanda			
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? *				
Mailing Address				
Unit Number Street Number * Street Name *				
A1 9135 Keele Street				
PO Box City/Town *	Province * Postal Code *			
Concord	ON L4K 0J4			
Telephone Number * Email Address *				
416-361-2407 ext. 200 agrossi@watters	senvironmental.com			
Is there an alternate contact (e.g. office admin)? * ☐ Yes  ✓ No				
Section 3 – Current Property Address Inform	ation			
Is the property a: Park Lake First Nation Band Wind Farm Federal Land Island Unsurveyed Land Are you requesting information about multiple addresses? * Yes ✓ No				
Property Address				
Unit Number Street Number Street Name				
10 Aspen Springs	s 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	Date of Ownership (yyyy/mm/dd)
	2346120 Ontario Inc.	
	Tenant Name	
Previ	ous Property Owner/Tenant	
	spen Springs Drive nanville	
	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

12<sup>th</sup> 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



12° étage 40, avenue St. Clair ouest Toronto ON M4V 1M2 Tél. : (416) 314-4075 Téléc.: (416) 314-4285

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.