



**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3493, 3497, AND 3499 INNES ROAD, OTTAWA, ONTARIO**

Prepared for:

Gestion FRAMI
6587712 Canada Inc.
1085 Boulevard de la Carrière
Gatineau, QC J8Y 6V4

Prepared by:

BluMetric Environmental Inc.
1682 Woodward Drive
Ottawa, ON K2C 3R8

Project Number: 230028-00
January 19, 2023

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1. EXECUTIVE SUMMARY

In October 2022, BluMetric Environmental Inc. (BluMetric®) was retained by Gestion FRAMI, 6587712 Canada Inc. to prepare a Phase One ESA for the property located at 3494, 3497, and 3499 Innes Road, Ottawa, Ontario (subsequently referred to as the “Phase One Property”). Previous Phase I and II ESAs were completed on the Phase One Property by BluMetric in 2020. Updated reports were requested in support of a Site Plan Application. As per the requirements of the City of Ottawa Site Plan Approval process, this Phase One ESA was completed in general accordance with Ontario Regulation (O. Reg.) 153/04. It is understood that the Phase One ESA will not be supporting any record of site condition (RSC filing) and, therefore, reporting is not subject to meeting all requirements outlined in Ontario Regulation 153/04, as amended (O. Reg. 153/04).

The Phase One Property is located in the Orléans West-Innes ward of the City of Ottawa in an area of mixed residential, commercial, and industrial land uses. The Phase One Property is located on the north side of Innes Road, approximately 600 m east of Orleans Boulevard, and consists of three parcels with a total area of approximately 0.61 hectares (ha). The western parcel, 3493 Innes Road, is roughly L-shaped with an area of approximately 0.25 ha and consists of a single-storey garage outbuilding. The central parcel, 3497 Innes Road, is rectangular in shape with an area of 0.18 ha and has a single-storey sales office structure (trailer) on its central area. The eastern parcel, 3499 Innes Road, is also rectangular in shape with an area of 0.18 ha and remains vacant land. The remainder of the Phase One Property consists of grassy areas with mature trees and a gravel-covered driveway, accessed from Innes Road. The Phase One Property is bounded by Innes Road at its southern boundary, residential properties to the north and east, and a commercial plaza to the west. A portion of the western part of the Phase One Property (3493 Innes Road) extends behind the adjacent property at 3469 Innes Road. The property at 3469 Innes Road consists of a commercial plaza and an Ultramar fuel service station.

The Phase One Property is generally flat with an approximate elevation of 91 m above sea level (ASL). There is a slightly elevated area in the centre of the Phase One Property which generally slopes downward to the north (back of property) and to the east. Rideau Valley Conservation Authority (RVCA) GeoPortal mapping indicates the Phase One Property is situated on the boundary between the West Bilberry Creek and Mud Creek (GCK) catchment areas of the Ottawa River East Subwatershed. On a regional scale, topography slopes north to the Ottawa River, and bedrock groundwater flow is believed to be oriented to the northwest towards the Ottawa River, which is approximately 5 km northwest of the Phase One Property.



Based on a records review, site reconnaissance and interview with individuals knowledgeable with the Phase One Property, no potentially contaminating activities (PCAs) were identified at the Phase One Property. Multiple PCAs were identified for the Phase One Study Area. The potential for each PCA to create an area of potential environmental concern (APEC) for the Phase One Property was assessed as follows:

Item	Potentially Contaminating Activity	Location of Potentially Contaminating Activity	Potential Environmental Concern to the Phase One Property – Y/N (Rationale)
28.	Gasoline and Associated Products Storage in Fixed Tanks	<p><u>3469 Innes Road</u> Gasoline service station with at least two L underground fuel tanks, tanks installed in 1987 and 2015, and records of three other underground fuel oil tanks (Located <40 m west-southwest of the Phase One Property).</p> <p><u>3605 Innes Road</u> Delisted 10,000 L fuel oil tank, installed on 28 June 2006. Delisted 4,546 L fuel oil tank said to be 12 years old. Record date was April 2013. Standby emergency diesel generator set (Located 247 m east-northeast of the Phase One Property).</p>	<p>Y (PCA is located in near proximity to the western boundary to the Phase One Property).</p> <p>N (PCA is located a significant distance and crossgradient to the Phase One Property).</p>
GEN	Waste Generator	<p><u>3605 Innes Road</u> Waste generator of inorganics and alkaline wastes – heavy metals between 1997 and 2004; light fuels, oil skimmings and sludges and waste oils and lubricants in 2005; and alkaline wastes – heavy metals and acid wastes – heavy metals in 2021 and 2022 (Located 247 m east-northeast of the Phase One Property).</p>	<p>N (PCA is located a significant distance and crossgradient to the Phase One Property).</p>
SPL	Spill	<p><u>3469 Innes Road</u> 50 L spill of engine oil to the sewer dated September 23, 2010. Unknown quantity of hydraulic oil spilled into the lot on May 16, 2002. The spill was contained (Located <40 m west-southwest of the Phase One Property).</p> <p><u>3443 Innes Road</u> Spill of oil or gas from property to the road and catchbasin on April 8, 2019 (Located 70 m west-southwest of the Phase One Property).</p>	<p>N (Fairly small spill amount and inferred to have occurred on opposite side of fuel service station at 3469 Innes Road and therefore considered to be crossgradient to the Phase One Property).</p> <p>N (Inferred to be a small spill amount given residential use. Also, PCA is located crossgradient to the Phase One Property).</p>
58.	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	<p><u>Innes Road</u> Westbay Investments Inc., unnamed landfill site (Located 800 m east-northeast of the Phase One Property).</p>	<p>N (PCA is located a significant distance and crossgradient to the Phase One Property).</p>



Item	Potentially Contaminating Activity	Location of Potentially Contaminating Activity	Potential Environmental Concern to the Phase One Property – Y/N (Rationale)
12.	Concrete, Cement and Lime Manufacturing	<u>3544 Innes Road</u> Concrete forming company (Normco Forming Limited) in operation between 2001 and 2005 (Located 85 m southeast of the Phase One Property).	N (PCA is located crossgradient to the Phase One Property).
58.	Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	<u>3636 Innes Road</u> Builders' Warehouse lumber and building materials storage facility, in operation since 1985 (Located 250 m southeast of the Phase One Property).	N (PCA is located a significant distance and crossgradient to the Phase One Property).
55.	Transformer Manufacturing, Processing and Use	Pole and pad mount transformers were observed throughout the Phase One Study Area.	N (Subsurface impacts derived from mineral insulating oils are localized and have low mobility in soils).

Source: Table 2, Schedule D, O. Reg. 153/04

The presence of the Ultramar fuel service station to the immediate west (3469 Innes Road) of the Phase One Property is considered to create an Area of Potential Environmental Concern (APEC) for the westernmost portion of the Phase One Property. Spill records associated with 3469 Innes Road (<40 m west of the Phase One Property) and 3443 Innes Road (70 m west of the Phase One Property) were considered to be low risk for environmental impact but would be also captured by an investigation of the APEC pertaining to the fuel service station at 3469 Innes Road.

The contaminants of potential concern and the potentially affected media for the aforementioned APEC is summarized as follows:

APEC	Location of APEC	PCA(s)	Contaminants of Potential Concern	Potentially Affected Media
A	Western Boundary of Phase One Property	#28 – Gasoline and Associated Products Storage in Fixed Tanks	BTEX and PHCs	Groundwater

Notes:

BTEX – Benzene, Toluene, Ethylbenzene, and Xylene PHCs – Petroleum Hydrocarbons

In June 2020, BluMetric completed a Phase II ESA at the Phase One Property to investigate the soil and groundwater quality at two locations (MW1 and MW2) on the western portion of the Phase One Property. The soil and groundwater chemical results at both sample locations were found to be below laboratory method detection limits and did not exceed the applicable O. Reg. 153/04 Table 7 Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Conditions for Residential/Parkland/Institutional Property Use and coarse textured soils.



Since the fuel service station has remained in operation since 2020, it continues to create an APEC on the westernmost part of the Phase One Property. Given that the above Phase II ESA did not find any soil impacts and since groundwater was not observed within the overburden material, it is the opinion of the Qualified Person (QP) that there would be no pathways for any new soil impacts on the Phase One Property and that the fuel service station does not pose a concern for soils at the Phase Two Property. Therefore, the QP recommends that a Phase Two ESA be conducted to solely investigate the identified APEC for potential changes in groundwater quality.



2. INTRODUCTION

2.1 PHASE ONE PROPERTY INFORMATION

Municipal Address(es), Property Identification Number (PIN) and Property Description

The Phase One Property consists of three parcels of land with the municipal addresses of 3493, 3497, and 3499 Innes Road. The boundaries of the Phase One Property are provided on Figure 1 and shown in the survey plans in Section 10.1.

The general location of the Phase One Property is provided as Figure 2. The Phase One Property is located on the north side of Innes Road, approximately 600 m east of Orleans Boulevard. The Phase One Property is located in the Orléans West-Innes ward of the City of Ottawa in an area of mixed residential and commercial land uses. The westernmost parcel, 3493 Innes Road, is roughly L-shaped with an area of approximately 0.25 hectares (ha) and consists of a single-storey garage structure. The central parcel, 3497 Innes Road, is rectangular in shape with an area of 0.18 ha and has a single-storey structure (trailer) in its central area. The easternmost parcel, 3499 Innes Road, is also rectangular in shape with an area of 0.18 ha and remains vacant land. The remainder of the Phase One Property consists of grassy areas with mature trees and a gravel-covered driveway accessed from Innes Road.

The Phase One Property is bounded by Innes Road at its southern boundary. Residential properties are to the north and east of the Phase One Property and a commercial plaza (3469 Innes Road) is to the west of the Phase One Property. A portion of the western part of the Phase One Property (3493 Innes Road) extends behind the adjacent property at 3469 Innes Road which consists of a commercial plaza and fuel service station.

The legal description of the Phase One Property is:

Legal Description: Part of Lot 5 Concession 2, RP 5R-8564 Parts 1, 2, &3 and RP 5R-3024 Part 3, City of Ottawa.

Property Identification Numbers (PINs): 04406-0223, 04406-0224, and 04406-0225

The NAD83 UTM coordinates for the centre of the Phase One Property are:

- Zone: 18
- Easting: 458873 m
- Northing: 5032821 m



Name, Address, and Other Contact Information for the Property Owner:

The Phase One Property is currently owned by the Gestion FRAMI.

Name, Status, and Other Contact Information for Any Other Person who Engaged the Qualified Person to conduct the Phase One ESA:

The principal client contact is as follows:

Mr. Michel Lapensée, President
Gestion FRAMI, 6587712 Canada Inc.
1085 Boulevard de la Carrière
Gatineau, QC J8Y 6V4
819-664-4306 | mfgolf@hotmail.com

2.2 TERMS OF REFERENCE

In October 2022, BluMetric was retained by Gestion FRAMI, 6587712 Canada Inc. to prepare a Phase One ESA for the property located at 3493, 3497, and 3499 Innes Road, Ottawa, Ontario (subsequently referred to as the “Phase One Property”). Previous Phase I and II ESAs were completed on the Phase One Property by BluMetric in 2020. Updated reports were requested by the City of Ottawa to support Site Plan approval applications. As per the requirements of the City of Ottawa Site Plan Approval process, this Phase One ESA was completed in general accordance with Ontario Regulation (O. Reg.) 153/04. However, it is understood that the Phase One ESA will not be supporting any record of site condition (RSC filing) and, therefore, reporting is not subject to meeting all requirements outlined in Ontario Regulation 153/04, as amended (O. Reg. 153/04). Therefore, the requirement for a legal survey is excluded.

In general terms, the purpose of a Phase One ESA is to determine if a property is subject to actual or potential contamination. The tasks of a Phase One ESA typically include:

- Reviewing environmental source information about the Phase One Property;
- Inspecting the Phase One Property for evidence of current or past potentially contaminating activities (PCAs) that could contribute to areas of potential environmental concern (APECs);
- Noting PCAs in the Phase One Study Area that could contribute to APECs at the Phase One Property;
- Interviewing site personnel or other knowledgeable parties about past and present operations and activities;



- Reviewing environmental documentation and site operating records that the property owner, operator, or client can provide;
- Making inquiries to provincial and municipal agencies about environmental records on file;
- Identifying APECs on the Phase One Property; and,
- Using the assembled information to prepare a report.

Since Phase One ESAs do not include the testing of samples or the measuring of environmental parameters, the conclusions presented in a Phase One ESA report often are limited to identifying PCAs that may contribute to APECs at the Phase One Property.

2.3 GENERAL DESCRIPTION OF THE PHASE ONE PROPERTY

The Phase One Property is irregular in shape and has a total area of approximately 1.51 acres (approximately 0.61 hectares). Approximately 0.62 acres (0.25 ha) corresponds with 3493 Innes Road, 0.44 acres (0.18 ha) corresponds with 3497 Innes Road, and the remaining 0.44 acres (0.18 ha) corresponds with 3499 Innes Road. The Phase One Property has a frontage of approximately 91 m along the north side of Innes Road and a depth of approximately 61 m. A portion of the western part of the Phase One Property (3493 Innes Road) extends 41 m (approximate) behind the adjacent property located at 3469 Innes Road.

A trailer previously used as a real-estate sales office was noted on the central part of the Phase One Property (3497 Innes Road) and a garage outbuilding was noted on the western part of the Phase One Property (3493 Innes Road). Both structures are planned for demolition/removal, prior to the proposed commercial redevelopment. Aerial photographs discussed further in Section 3.1 indicate that a two-storey stone house was present in the current location of the trailer prior to 2011 and has been removed from the site. The remainder of the property area is primarily grass-covered, with a gravel driveway and parking area accessed from Innes Road. Several mature trees were noted across the property.

The Phase One Property is generally surrounded to the north and east by residential land uses. The property to the immediate west (3469 Innes Road) of the Phase One Property is a commercial plaza and an Ultramar fuel service station, while further west beyond Pagé Road is a mix of commercial and residential development. The area to the south of the Phase One Property, south of Innes Road is mostly lands reserved for future development along with some commercial and residential properties along Pagé Road. As per the City of Ottawa zoning maps, the Phase One Property is currently zoned as Residential First Density Zone (R1). Zoning surrounding the Phase One Property is described as:

- Residential (R1) to the north and east;



- Local Commercial Zone (LC) and R1 to the west; and
- Light Industrial Zone (IL) Development Reserve Zone (DR) to the south.

The Phase One Property and all surrounding properties are serviced by municipal water and sewer services. The Phase One Property and Phase One Study Area are illustrated in Figure 3.



3. SCOPE OF INVESTIGATION

This Phase One ESA is being performed for due diligence purposes and to support municipal Site Plan approval applications. The Phase One ESA report will not be used in support of the filing of a Record of Site Condition (RSC) but has been prepared in general accordance with the requirements described in O. Reg. 153/04.

The following tasks were undertaken from October to January 2023 to prepare this report:

- A review of records. Records previously requested and reviewed by BluMetric in the previous Phase I ESA (BluMetric, 2020) were utilized to inform this report. Additional requests for information were filed with the City of Ottawa Historical Land Use Inventory (HLUI 2019) database and ERIS. The assembled information is presented in Section 4.
- A review of existing environmental reports (Section 4.1.5).
- An assessment of the physical site conditions (see Section 4.4).
- Interviews were conducted with persons with knowledge of the Phase One Property. The details of the interviews are provided in Section 5.
- A reconnaissance of the Phase One Property and the Phase One Study Area. This information is presented in Section 6.
- Based on the accumulated information, identification of any PCA on the Phase One Property and within the Phase One Study Area that may represent an APEC for the Phase One Property: and,
- Presentation of the study findings in a Phase One ESA report.



4. RECORDS REVIEW

4.1 GENERAL

4.1.1 Phase One Study Area

The qualified person (QP) determined that the conventional distance of 250 m from the Phase One Property boundary was adequate for defining the Phase One Study Area for all records reviewed, with the exception that a distance of 2 km was appropriate for reviewing records that pertain to active or former waste disposal sites, coal gasification plants, and coal tar sites, given that such sources can cause impacts that extend for distances of more than 250 m. The Phase One Property and Phase One Study Area are illustrated in Figure 3.

The search radius for historical records requested from ERIS (discussed in sections 4.2.1, 4.2.2 and 4.2.7) was set to 250 m from the boundary of the Phase One Property. In these database searches, each property surrounding the collective Phase One Property was identified as a point representing the municipal address of a given property. In the historical records searches, the inclusion or exclusion of properties located partially within the Phase One Study Area depended on whether this point was located within the study area buffer created by ERIS.

The geographic location of the Phase One Study Area was assessed in consideration of its location within topographical mapping provided by the Rideau Valley Conservation Authority (RVCA) and Ontario Base Mapping (OBM). An inferred groundwater flow direction to the northwest was determined.

4.1.2 First Developed Use Determination

Based on the available historical aerial photographs for the Phase One Property and Phase One Study Area (see Section 4.4.1), the Phase One Property was originally used for agricultural purposes prior to the 1950s. In the early 1950s, the Phase One Property was developed with a residential dwelling, built on the centre of the property (3497 Innes Road). Aerial photographs also showed several other smaller structures/sheds on the north and west parts of the property. In the 1990s, a large outbuilding (i.e. garage) was constructed on the west side of the property (3493 Innes Road). The original dwelling was demolished between 2008 and 2011, and a rectangular structure (trailer) was constructed on the property in its former location. The trailer remains on the Phase One Property. The garage building also remains partially intact on the Phase One Property. The rest of the Phase One Property has remained undeveloped land.



The reviewed information indicates that up to at least 1950, the Phase One Property was either undeveloped or cleared and used for agricultural purposes (grazing or crops). The Phase One Property appears to have been first developed around 1954 for 'residential use'.

4.1.3 Fire Insurance Maps

A request for Fire Insurance Maps (FIMs) was not completed as part of this Phase One ESA. Production of FIMs ceased in 1974. Historical aerial photography (discussed in Section 4.4.1) indicates the Phase One Study Area was largely undeveloped with only few rural residential properties as of the 1976 aerial photograph.

4.1.4 Chain of Title

A chain of title for the Phase One Property was not requested as part of this Phase One ESA. According to ownership information presented in previous reports (discussed in Section 4.1.6), the Phase One Property is currently owned by Gestion FRAMI (6587712 Canada Inc.) who acquired the property from Rockcliffe Asset Management Inc. in 2019.

4.1.5 City Directories

A city directory search was completed by ERIS on May 28, 2020, as part of a previous Phase I ESA completed by BluMetric (2020). The search included the Phase One Property (3493, 3497, and 3499 Innes Road) and adjacent properties along Innes Road (3390 - 3530) and Pagé Road (2240 - 2410). The Phase One Property was not listed in any of the City Directories from 1992 through 2011.

The following list was recorded for the properties located along Innes Road, from 3390 (approximately 200 m west of the Phase One Property) to 3530 (approximately 100 m east of the Phase One Property):

- 1992: 3469 Innes Road - Heavenly Pastries
- 1992: 3484 Innes Road - Diamond Dust Lightning Garden Centre
- 1992: Murphy J Landscape & Design Ltd
- 1992: Summer Rain Irrigation
- 1992: 3490 Innes Road - Orleans Berryland
- 1992, 1996/1997, 2001/2002: 3442 Innes Road - Innes Kitchen and Bath
- 1992, 1996/1997, 2001/2002: Innes Veterinary Clinic
- 1992, 1996/1997, 2001/2002, 2006/2007: 3499 Innes Road - Gerald Gauthier Construction
- 1996/1997, 2001/2002, 2006/2007, 2011: Kouri Shaheen



- 1996/1997, 2001/2002: Brewmasters Club Maitres-Brasseurs
- 1996/1997: 3490 Innes Road - Bad Dawg Batting Cages
- 1996/1997, 2001/2002, 2006/2007, 2011: Sweetheart Rose Ltd
- 2001/2002, 2006/2007: Gabriel's Pizza
- 2006/2007, 2011: 3469 Innes Road - Ultramar Ltd
- 2006/2007, 2011: Pronto Food Marts
- 2006/2007, 2011: Innes Road Animal Hospital
- 2006/2007, 2011: Lynn Novak Flowers
- 2006/2007, 2011: Brian Johnson Agent
- 2006/2007, 2011: Co-Operators
- 2006/2007, 2011: Orleans Dry Cleaners
- 2006/2007, 2011: Can DO Cash
- 2006/2007, 2011: 3484 Innes Road - State Farm Insurance
- 2006/2007, 2011: 3490 Innes Road - Golfland
- 2006/2007, 2011: Sean's Snack Shack
- 2006/2007: 3519 Innes Road - Chattan Insulation Inc.

The following list was recorded for the properties located along Pagé Road, from 2240 (approximately 150 m northwest of the Phase One Property) to 2410 (approximately 500 m southwest of the Phase One Property):

- 2011: 2310 Pagé Road - Susan Bablitz Dentistry
- 1996/1997, 2001/2002, 2006/2007, 2011: 2360 Pagé Road - Action Towing
- 2001/2002, 2006/2007: Orleans Blvd Towing & Recycling
- 2011: Action Orleans Towing
- 1996/1997, 2006/2007, 2011: 2381 Pagé Road - Andre Charon Painting and Decorating Inc.
- 2011: 2384 Pagé Road - Guy TV Repairs
- 1996/1997, 2001/2002, 2006/2007, 2011: 2405 Pagé Road - J & M Auto Service

Based on the above City Directories search results, the Ultramar Ltd. fuel service station located at 3469 Innes Road, <40 m west of the Phase One Property, was identified as a PCA with the potential to cause environmental impacts to the Phase One Property and is discussed further in Section 7.2.2.



Although drycleaning activities would be considered a PCA, Orleans Dry Cleaners, identified in the above directories at 3469 Innes Road since 2006, is not considered to be a PCA for the Phase One Property since it is understood to be a drop-off (depot) location and no drycleaning activities are performed on-site at this location. No other PCAs were identified from our review of the above city directories.

4.1.6 Environmental Reports

The following previous environmental reports concerning the Phase One Property were provided to BluMetric for review:

- *Paterson Group Inc., 2010. Phase I – Environmental Site Assessment, 3493, 3497 & 3499 Innes Road, Ottawa, Ontario. Dated February 8, 2010.*
- *Paterson Group Inc., 2019. Phase I – Environmental Site Assessment Update, 3493 and 3497 Innes Road, Ottawa, Ontario. Dated March 27, 2019.*

The following salient information was gleaned from the reports:

- In February 2010, Paterson Group conducted a Phase I ESA of the properties located at 3493, 3497, and 3499 Innes Road, Ottawa for Rockcliffe Asset Management Inc.
- Two structures were present on the property at the time: a two-storey stone residential dwelling and a garage building. It was noted the residential dwelling was historically heated by oil, and an AST was once located in the basement of the home, which had reportedly been removed approximately 20 years prior to the original assessment in 2010. The assessor indicated that the basement floors appeared to be in good condition, with no visible cracks or staining, at the time of the investigation.
- A geotechnical investigation was previously completed by Paterson Group in 2010 for the site. Five (5) test pits were advanced on the subject property as part of the geotechnical investigation. Shallow bedrock was identified on the site ranging from 0.7 m to 1.5 m below surface grade (bgs). No signs of environmental contamination were identified during the geotechnical investigation.
- The property to the immediate west of the Phase One Property was occupied as a fuel service station. It was noted that the pump islands and underground storage tanks associated with the Ultramar fuel service station were located <40 m southwest of the Phase One Property. The groundwater table was not encountered in the test pit (TP1) located closest to the neighbouring petroleum fuels service station.
- A Phase II ESA was recommended to assess the potential environmental impacts associated with the presence of the fuel service station immediately west of the Phase One Property.



- In March 2019, Paterson Group completed a Phase I ESA Update of the properties located at 3493 and 3497 for Gestion FRAMI. The report was prepared to supplement the 2010 Phase I ESA conducted by Paterson Group for the Property and was intended to meet O. Reg. 153/04 requirements for a Phase One ESA.
- No PCAs were identified on the Phase One Property; however, the Ultramar fuel service station on the adjacent property to the west was identified as a PCA and was considered an Area of Potential Environmental Concern (APEC) for the Phase One Property. Contaminants of potential environmental concern were considered to include Petroleum Hydrocarbons (PHCs), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). Conclusions from the updated assessment indicated that a Phase II ESA was required for the Phase One Property.

The following environmental reports concerning the Phase One Property were previously prepared by BluMetric for Gestion FRAMI:

- *BluMetric Environmental Inc., 2020. Phase I Environmental Site Assessment, 3493, 3497, & 3499 Innes Road, Ottawa, Ontario. Dated June 26, 2020.*
- *BluMetric Environmental Inc., 2020. Phase II Environmental Site Assessment, 3493, 3497 & 3499 Innes Road, Ottawa, Ontario. Dated July 7, 2020.*

The following salient information was gleaned from the reports:

- In June 2020, BluMetric was retained by Gestion FRAMI to prepare a Phase I Environmental Site Assessment of the subject property. This Phase I ESA was conducted to CSA guideline Z768-01 (R2016).
- The Phase One Property was agricultural land prior to development with residences in the 1960s. Structures on the Phase One Property at the time included a garage planned for demolition and a trailer planned for removal from the site.
- Based on the information collected during the Phase I ESA, the presence of the Ultramar fuel service station to the immediate west (3469 Innes Road) of the Phase I Property was identified as a PCA and APEC on the Phase One Property. No other APECs were identified.
- A Phase II ESA was subsequently recommended to investigate the APEC identified in association with the fuel service station.
- In July 2020, a Phase II ESA was conducted on the subject property, in accordance with CSA Z769-00 standards for due diligence purposes.



- Two boreholes (MW1 and MW2) were advanced on the Phase One Property along the western boundary of the property. MW2 was installed at the closest proximity to the fuel pumps and underground storage tanks (USTs) located on the adjacent property to the west. The boreholes were advanced through the overburden into the bedrock to a total depth of 7.6 m bgs. One soil sample was selected from each of the borehole location for laboratory analyses, including PHC F1-F4 fractions and BTEX.
- Both boreholes were subsequently completed and installed as monitoring wells. Static groundwater levels were recorded at each of the well locations and ground water samples were collected and submitted for analyses of PHC F1-F4 fractions and BTEX.
- Subsurface materials encountered within the boreholes included silt overlying clay (MW1) and fine sand overlying silt (MW2). Bedrock was encountered at 1.14 m bgs at MW1 and 0.86 m bgs at MW2. No visual or olfactory indications of environmental impact for soil were noted.
- Static ground water elevations were higher at MW1 (95.82 m ASL) compared to MW2 (95.42 m ASL). Since MW2 is located further west on the subject property, the measured static ground water elevations indicated that the majority of the Phase One Property may be upgradient or crossgradient to the ground water flow leaving the adjacent property at 3469 Innes Road.
- Based on site condition standards of the Phase One Property, soil and groundwater analytical results were compared to Table 7 Generic Site Condition Standards for shallow coarse soils in a non-potable ground water condition, and for residential / parkland/ institutional property use. No exceedances of the applicable O. Reg. 153/04 Table 7 SCS were identified for any of the soil or ground water samples analyzed.

Based on the above review of previous environmental work completed for the Phase One Property, no existing PCAs were identified on the Phase One Property. The former heating oil AST would be considered a PCA for the Phase One Property; however, since the AST was removed prior to work completed by Paterson Group (2010), and no environmental impacts associated with the tank were identified, it is the opinion of the Qualified Person (QP) that the risk of any residual environmental impacts associated with the presence of the former AST on the Phase One Property is considered low.

One PCA was identified within the Phase One Study Area from the above review of historical reports, summarized in the table below:

Potentially Contaminating Activity	Description of Potentially Contaminating Activity
28. Gasoline and Associated Products Storage in Fixed Tanks	Ultramar Fuel Service Station located <40 m west of the Phase One Property at 3469 Innes Road.

Source: Table 2, Schedule D, *Ontario Regulation 153/04*



4.2 ENVIRONMENTAL SOURCE INFORMATION

A search of federal government, provincial government, and private source databases was undertaken by Environmental Risk Information Services Inc. (ERIS) for the Phase One Property and Phase One Study Area in October 2022. Database records were identified within a 250 m radius of the Phase One Property boundary (i.e., within the Phase One Study Area). It should be noted that each address or record in the ERIS database is assigned a geographic point and the distance value is the distance between plotted points not the distance from or between property boundaries. A list and description of the databases searched is provided within the ERIS report in Appendix 10.3.

All of the identified records were assessed to determine if they posed a potential risk to the environmental condition of the Phase One Property based on:

- The type of record and the potential it could be related to/cause environmental contamination.
- The age of the record.
- The distance of the record from the Phase One Property boundary; and,
- The position of the record in relation to the Phase One Property (i.e., up-gradient or down-gradient). Based on topography and groundwater data discussed in BluMetric (2020), groundwater flow is believed to flow in a northwest direction across the Phase One Property.

Records which were determined to be of environmental interest for the Phase One Property and Phase One Study Area are summarized in the following sections. Records identified within the BORE and WWIS databases describe the location and characteristics of boreholes and water wells located within the Phase One Property or Phase One Study Area. Records identified within the EHS database are records of previous ERIS searches. These database records are not indicative of PCAs and were not included within the following sections.

4.2.1 Federal Government Database Records

No federal government database records were found for the Phase One Property or for the Phase One Study Area.

4.2.2 Ontario Government Database Records

Four provincial government database records were found for the Phase One Property, including the following four water well information system (WWIS) records:



- Two of the records were domestic water supply wells; well record #1501219 for a well installed in 1962 and well record #1501218 for a well installed in 1960. Well record #1501219 indicates clay and stones were underlain by limestone bedrock, present from 0.91 m bgs to a depth of 15.15 m bgs, the final completion depth. Well record #1501218 indicates the well was completed at 11.28 m bgs and indicates 0.3 m of sand was found overlying grey limestone bedrock. The water supply wells are no longer in use as the Phase I Property and Phase I Study Area is now municipally serviced. No water supply wells were observed on the Phase One Property at the time of the site visit.
- Two additional well records were found for the Phase One Property, for monitoring and test holes; well record # 7365221 and well record #7365220. Both wells were installed on June 19, 2020 at 3493 Innes Road by BluMetric (discussed in Section 4.1.6).

The following provincial government databases returned records for the Phase One Study Area:

- Borehole (**BORE**)
- Certificates of Approval (**CA**)
- Commercial Fuel oil Tanks (**CFOT**)
- Delisted Fuel Tanks (**DTNK**)
- Environmental Activity and Sector Registry (**EASR**)
- Environmental Compliance Approval (**ECA**)
- Fuel Storage Tank (**FST**)
- Fuel Storage Tank – Historic (**FSTH**)
- Ontario Regulation 347 Waste Generators Summary (**GEN**)
- Pipeline Incidents (**PINC**)
- Private and Retail Fuel Storage Tanks (**PRT**)
- Record of Site Condition (**RSC**)
- Ontario Spills (**SPL**)
- Water Well Information System (**WWIS**)

Descriptions of the provincial government databases are provided in Appendix 10.3.

The following records of interest were identified for the Phase One Study Area within the provincial government databases:



Address	Distance from centre of Phase One Property (direction)	Company	Activity Type	Database	Number of Records	Potentially Contaminating Activity
3605 Innes Road	247 m (ENE)	Bell Canada	Commercial fuel oil tank – 10,000 L fibreglass double wall UST, installed on 28 June 2006.	CFOT	1	Gasoline and Associated Products Storage in Fixed Tanks (28)
			Delisted fuel storage tank – double walled 10,000 L fuel oil tank, installed on 28 June 2006.	DTNK	2	
			Delisted 4,546 L fibreglass fuel oil tank said to be 12 years old. Record date was April 2013.			
			Certificate of approval dated 12 January 2004, related to air emissions from a standby emergency diesel generator set providing power to the telecommunications building.	ECA	1	
			Waste generator registered for inorganics and alkaline wastes – heavy metals between 1997 and 2004; light fuels, oil skimmings and sludges and waste oils and lubricants in 2005; and alkaline wastes – heavy metals and acid wastes – heavy metals in 2021 and 2022.	GEN	2	Waste generator (GEN)
3469 Innes Road	25 m (WSW)	2339401 Ontario Inc.	Three delisted fuel storage tanks at an active gasoline service station.	DTNK	4	Gasoline and Associated Products Storage in Fixed Tanks (28)
			Three (22,730 L and 45,480 L) single walled fibreglass underground gasoline tanks, installed in 1987.	FST	5	
			Two 65,000 L double walled fibreglass underground tanks, installed in 2015.			
		977998 Ontario Ltd. Pronto Food Mart	Three active (22,730 L and 45,480 L) underground gasoline storage tanks, installed in 1987, associated with a gasoline station. Record was dated 2007 and 2008.	FSTH	2	
			Retail fuel storage tanks with a capacity of 113,500 L, expired on November 30, 1994.	PRT	2	
		None	50 L spill of engine oil to the sewer dated September 23, 2010.	SPL	1	Spill (SPL)
		Canadian Waste Services	Unknown quantity of hydraulic oil spilled into the lot on May 16, 2002. The spill was contained.	SPL	1	Spill (SPL)



Address	Distance from centre of Phase One Property (direction)	Company	Activity Type	Database	Number of Records	Potentially Contaminating Activity
3443 Innes Road	70 m (WSW)	None	Spill of oil or gas from property to the road and catchbasin on April 8, 2019.	SPL	1	Spill (SPL)

Based on geographic location in relation to the Phase One Property and/or associated nature of the activity/operation, some of the records above may pose an environmental concern for the Phase One Property and are discussed in Section 7.2.

4.2.3 Ontario Ministry of the Environment, Conservation and Parks

A request for information about the Phase One Property was filed through MECP Freedom of Information (FOI) on May 28 and June 23, 2020. Responses received on February 22, 2021 revealed that no records were located responsive to the requests.

Correspondence with the MECP FOI is provided in Appendix 10.3.

4.2.4 Areas of Natural and Scientific Interest

Areas of Natural and Scientific Interest (ANSI) includes water bodies, wetlands, wooded areas, conservation areas, municipal parks, provincial parks, natural parks and nature reserves. An ANSI map was provided by Environmental Risk Information Services Inc. (ERIS).

No ANSI was identified within the Phase One Property or within the Phase One Study Area. The nearest ANSI is the Blackburn Hamlet DND Forest located 1.29 km west-southwest of the Phase One Property. A copy of the map is provided in Appendix 10.3.

4.2.5 Technical Standards and Safety Authority

A request for information about the Phase One Property was filed with the Technical Standards & Safety Authority (TSSA) on May 26 and June 23, 2020, for information of any outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the Phase One Property. Responses received on July 8 and 31, 2020 noted that a search of TSSA public records did not locate any documents related to the fuels safety program. It was the opinion of the Qualified Person (QP) that an updated information request to TSSA would not identify any new information for the Phase One Property.

The TSSA's June 24, 2020 response is provided in Appendix 10.3.



It should be noted that the Fuels Safety Division did not register private fuel underground or aboveground storage tanks prior to January 1990 or furnace oil tanks prior to May 1, 2002. Also note that the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences etc. or aboveground gas or diesel tanks.

4.2.6 Municipal Records

The Historical Land Use Inventory (HLUI) database for the Phase One Property and Phase One Study area was provided by the City of Ottawa on December 23, 2022. It is understood that information provided within the HLUI database was updated as of 2019.

No records were identified at the Phase One Property within the HLUI information response.

There were 6 properties with activity numbers within a 250 m radius of the Phase One Property identified within the HLUI search, summarized below. The full HLUI search is included in Section 10.3. A short list of activities/properties of potential interest for the Phase One Property is produced below. The list was compiled based on the described nature of the Activity.

Activity ID	Company Name (Years of Operation) and Address	Facility Type / Comments	PCA Identified? (Y/N)
1355, 1356, 12171	Ultramar (2006 to 2017) and 977998 Ontario Ltd. Pronto Food Mart at 3469 Innes Road.	Gasoline service station – self serve, with two active underground gasoline storage tanks installed in 1987 (located in commercial plaza adjacent to the west of the Phase One Property; service station is <40 m the west-southwest of the Phase One Property).	Y
12170	Orleans Dry Cleaners (2006 to 2017) and Carrefour Dry Cleaners (2006 to 2012) at 3469 Innes Road.	Dry cleaning facility located in commercial plaza adjacent to the west side of the Phase One Property.	N
1609, 1675, 1786	Enbridge Gas Distribution Inc.	Gas Pipeline, located south of the Phase One Property running parallel to Innes Road.	N
6474	Westbay Investments Inc. at Innes Road (Block 280 on Plan 4M-419).	Unnamed landfill site located approximately 800 m east-northeast of the Phase One Property.	Y
12173	Brewmasters Club Maitres-Brasseurs (2001) at 3469 Innes Road	Soft drink industry located in commercial plaza adjacent to the west side of the Phase One Property.	N
12178	Bell Canada (2000-2005) at 3605 Innes Road	Telecommunication carriers industry located 217 m east-northeast of the Phase One Property.	N
12147	Plumbing Depot (2001-2006) at 3544 Innes Road	Plumbing, heating, air conditioning, mechanical work located 85 m southeast of the Phase One Property.	N
12148	Lynx Energy SVC Limited (2005) at 3544 Innes Road	Mechanical specialty work located 85 m southeast of the Phase One Property.	N



Activity ID	Company Name (Years of Operation) and Address	Facility Type / Comments	PCA Identified? (Y/N)
9845	Normco Forming Limited (2001-2005) at 3544 Innes Road	Structural and related work (concrete forming company) located 85 m southeast of the Phase One Property.	Y
13938	Builders' Warehouse (1985 to 2016) at 3636 Innes Road	Lumber and building materials, wholesale.	Y

Based on geographic location in relation to the Phase One Property and/or associated nature of the activity/operation, some of the records above may pose an environmental concern for the Phase One Property and are discussed in Section 7.2.

The Orleans Dry Cleaners, identified at 3469 Innes Road since 2006, is not considered to be a PCA for the Phase One Property since it is understood to be a drop-off (depot) location and no drycleaning activities are performed on-site at this location.

4.2.7 Private Records

Two ERIS historical searches (EHS) records were found for the Phase One Property. No other private database records were found for the Phase One Property. The following private databases returned records for the Phase One Study Area:

ERIS Historical Searches (EHS)

Descriptions of the private record databases are provided in Appendix 10.3.

No records of interest were identified for the Phase One Study Area within the provincial government databases.

4.2.8 Waste Disposal Sites

The following sources were accessed to determine if any waste disposal sites were historically or are currently present within a 2 km radius of the Phase One Property:

- Waste Disposal Site Inventory (MOE, 1991): this document contains a listing of active and closed waste disposal Sites in Ontario as of October 31, 1990. This inventory uses the Universal Transverse Mercator (UTM) grid system to locate the waste disposal sites. The UTM coordinates at the centre of the Phase One Property are approximately 458873 m E and 5032821 m N, Zone 18 T;
- MECP's online "Small Landfill Sites" database (MECP, undated);
- MECP's online "Large Landfill Sites" database (MECP, 2020);



- The document titled “Old Landfill Management Strategy, Phase 1 - Identification of Sites, City of Ottawa, Ontario” (Golder Associates, 2004); and,
- The City of Ottawa mapping website GeoOttawa.

The Phase One Property and adjoining properties are not listed as current or former waste disposal facilities. No active or closed waste disposal sites were identified within 2 km of the Phase One Property.

The MECP’s online “Small Landfill Sites” database (MECP, undated) and “Large Landfill Sites” database (MECP, 2020) were accessed on 28 October 2022 and did not identify any Small Landfill Sites within 2 km of the Phase One Property. The Navan Waste Recycling and Disposal Facility located at 3354 Navan Road, was identified approximately 2.7 km south of the Phase One Property.

The document entitled, Old Landfill Management Strategy, Phase 1 - Identification of Sites, City of Ottawa, Ontario (Golder Associates, 2004), contains a listing of old waste disposal sites in Ottawa, Ontario, as compiled in 2004. one landfill was identified within 2 km of the Phase One Property:

Landfill No.	Distance from Phase I Property (direction)
Unnamed Landfill	0.80 km (ENE)

The above unnamed historical landfill site was identified for the property formerly located at 1900 Ken Steele Court, approximately 800 m east-northeast of the Phase One Property. Available aerial photography showed that the property was redeveloped for residential use prior to 1991. Given its distance from the Phase One Property, and its redevelopment for residential purposes, the historical landfill site is not considered to pose environmental risk to the Phase One Property.

The ERIS report on the Phase One Property returned no records for active waste disposal sites within 250 m of the Phase One Property.

4.2.9 Coal Gasification Plants, Coal Tar Sites and Former Industrial Sites

Inventories of industrial sites where coal tar was produced or used (Intera, 1988) and the inventories of coal gasification plants (Intera, 1987) listed no sites located within 2 km of the Phase One Property. Likewise, inventories of former industrial sites in Ottawa (Intera, 1988b) also identified no sites within 2 km of the Phase One Property.



4.2.10 Polychlorinated Biphenyls Sites

A search of the Ontario Inventory of Polychlorinated Biphenyls (PCB) Storage Sites (January 1992) revealed no sites within 2 km of the Phase One Property.

4.3 SUMMARY OF FINDINGS FROM ENVIRONMENTAL SOURCE INFORMATION REVIEW

No PCAs were identified for the Phase One Property based on the records review.

PCAs identified within the Phase One Study Area based on the records review include:

Item	Potentially Contaminating Activity	Area Associated with Potentially Contaminating Activity	Information Source
28.	Gasoline and Associated Products Storage in Fixed Tanks	<p><u>3469 Innes Road</u> Gasoline service station with at least two L underground fuel tanks, tanks installed in 1987 and 2015, and records of three other underground fuel oil tanks (Located <40 m west-southwest of the Phase One Property).</p> <p><u>3605 Innes Road</u> Delisted 10,000 L fuel oil tank, installed on 28 June 2006. Delisted 4,546 L fuel oil tank said to be 12 years old. Record date was April 2013. Standby emergency diesel generator set (Located 247 m east-northeast of the Phase One Property.)</p>	<p>Section 4.2.2, 4.2.6</p> <p>Section 4.2.2</p>
GEN	Waste Generator	<p><u>3605 Innes Road</u> Waste generator of inorganics and alkaline wastes – heavy metals between 1997 and 2004; light fuels, oil skimmings and sludges and waste oils and lubricants in 2005; and alkaline wastes – heavy metals and acid wastes – heavy metals in 2021 and 2022 (Located 247 m east-northeast of the Phase One Property).</p>	Section 4.2.2
SPL	Spill	<p><u>3469 Innes Road</u> 50 L spill of engine oil to the sewer dated September 23, 2010. Unknown quantity of hydraulic oil spilled into the lot on May 16, 2002. The spill was contained (Located <40 m west-southwest of the Phase One Property).</p> <p><u>3443 Innes Road</u> Spill of oil or gas from property to the road and catchbasin on April 8, 2019 (Located 70 m west-southwest of the Phase One Property).</p>	<p>Section 4.2.2</p> <p>Section 4.2.2</p>
58.	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	<p><u>Innes Road</u> Westbay Investments Inc., unnamed landfill site (Located 800 m east-northeast of the Phase One Property).</p>	Section 4.2.6, 4.2.8



Item	Potentially Contaminating Activity	Area Associated with Potentially Contaminating Activity	Information Source
12.	Concrete, Cement and Lime Manufacturing	<u>3544 Innes Road</u> Concrete forming company (Normco Forming Limited) in operation between 2001 and 2005 (Located 85 m southeast of the Phase One Property).	Section 4.2.6
58.	Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	<u>3636 Innes Road</u> Builders' Warehouse lumber and building materials storage facility, in operation since 1985 (Located 250 m southeast of the Phase One Property).	Section 4.2.6

Source: Table 2, Schedule D, O. Reg. 153/04

4.4 PHYSICAL SETTING SOURCES

4.4.1 Aerial Photos

Aerial photographs with coverage of the Phase One Property and Phase One Study Area were accessed on the City of Ottawa mapping website GeoOttawa for the period from 1945 to 2021. Photos taken prior to 1945 were not available. Aerial photographs are provided in Appendix 10.4 and reviewed as follows:

Year (source)	Description	
	Phase One Property	Phase One Study Area
1945 (NAPL)	The Phase One Property appears to be vacant and used for agricultural purposes.	The Phase One Study Area appears to be predominantly agricultural land and wooded areas, with a few farmhouses and buildings sparsely developed on the land. Innes road is visible to the south of the Phase One Property.
1954 (NAPL)	The Phase One Property has been developed with at least three structures visible on the property, including a dwelling on the centre of the property (3497 Innes Road), and a shed structure on the north side of the property. The west side of the property (3493 Innes Road) appears to be partly tree covered and developed with other small structures/sheds. The east side of the Phase One Property (3499 Innes Road) is vacant agricultural land.	To the north of the Phase One Property is a large rectangular outbuilding – likely used for farming and agricultural fields. There are no other visible significant changes to the Phase One Study Area from the 1945 aerial photograph.
1965 (GeoOttawa Website)	There is no significant visible change to the use of the Phase One Property. The residence and several small structures/ sheds remain on the centre and east sides of the Phase One Property. The east side of the Phase One Property is not shown in the air photo coverage.	A residence is visible on the property to the west of the Phase One Property followed by Page Road. Residential properties are noted southwest of the Phase One Property, southwest of Innes and Page Road. Other farming type operations appear to be in operation along the south side of Innes Road, south of the Phase One Property. East of the Phase One Property is not covered by the air photo.



Year (source)	Description	
	Phase One Property	Phase One Study Area
1976 (GeoOttawa Website)	The Phase One Property remains developed with the residence on the centre of the property (3497 Innes Road), and two rectangular structures on the west side of the property (3493 Innes Road). The east side of the property (3499 Innes Road) and the remainder of the Phase One Property consists of vacant, grassy areas with some trees.	The farm building to the north of the Phase One Property has been removed. The dwelling to the west of the Phase One Property remains intact, with a second building visible on the lot, at the northeast corner of Page and Innes Road and in the location of the current Ultramar service station. Additional residential development is noted to the northwest of the Phase One Property, along Page Road and east of the Phase One Property. South of the Phase One Property remains used mainly for agricultural purposes.
1981 (NAPL)	There are no significant visible changes to the Phase One Property from the 1976 aerial photograph.	There are no significant visible changes in the use of the properties within the Phase One Study Area since the 1976 aerial photograph.
1991 (GeoOttawa Website)	The residence remains on the centre of the Phase One property (3497 Innes Road) with several mature trees and a small rectangular shed at the north side of the property. To the west of the dwelling is a large outbuilding, likely the garage building. A small garden is visible on the southeast side of the Phase One Property. The remainder of the property is grassy areas with mature trees and shrubs.	The property to the west of the Phase One Property has been redeveloped to include the current commercial plaza and fuel service station (at the southwest corner of the site). North of the Phase One Property has been developed with a residential subdivision. Further residential development has also occurred in the southwest and northeast parts of the Phase One Study Area. South of the Phase One Property, on the south side of Innes Road, appears to be developed as a golf driving range and other commercial operations.
1999 (GeoOttawa Website)	There do not appear to be any significant visible changes to the use of the Phase One Property since the 1991 aerial photographs.	Other than additional residential development northwest of the Phase One Property, there does not appear to be any significant visible changes to the use of the Phase One Study Area since the 1991 aerial photographs.
2002 (GeoOttawa Website)	There do not appear to be any significant visible changes to the use of the Phase One Property since the 1999 aerial photographs.	Other than additional residential development northwest of the Phase One Property, there does not appear to be any significant visible changes to the use of the Phase One Study Area since the 1991 aerial photographs.
2008 (GeoOttawa Website)	There do not appear to be any significant visible changes to the use of the Phase One Property since the 2002 aerial photographs.	Other than the removal of some residences and commercial operations along the south side of Innes Road for road widening, there does not appear to any significant visible changes to the use of the Phase One Study Area since the 2002 aerial photograph.
2011 (GeoOttawa Website)	The residence has been demolished. The garage structure remains intact. No other significant changes in the use of the Phase One Property were noted since the 2008 aerial photograph.	The property at the southwest corner of Innes and Page Road has been redeveloped for commercial use. No other significant changes were noted since the 2008 aerial photograph.
2014 (GeoOttawa Website)	A rectangular structure, likely the existing trailer, is visible on the centre of the Phase One Property. The garage structure remains on the property. A small billboard is also visible on the southeast side of the property.	The vacant property at the southeast corner of Innes and Page Road is under construction with a multi-storey building. Further south of the building are several other smaller residential structures.



Year (source)	Description	
	Phase One Property	Phase One Study Area
2018 (GeoOttawa Website)	No significant visible changes are noted since the 2014 aerial photograph.	A multi-storey building to the southwest of the Phase One Property (retirement residence) has been constructed on the southeast corner of Page Road and Innes Road.
2021 (GeoOttawa Website)	The rear portion of the garage building has been removed leaving only the front portion of the structure intact. The trailer remains on the centre of the Phase One Property.	A roadway was developed through the golf range property south of the Phase One Property. A property to the southeast of the site appears to be used for the storage and stockpiling of fill and aggregate material, likely related to development further south of the study area.

NAPL – National Air Photo Library

Based on the review of historic aerial photographs, the Phase One Property was originally developed in the approximately the early 1950s with a residence and several other smaller structures/sheds. The remainder of the Phase One Property appears to have been used as agricultural land until approximately the 1980s. In the 1990s, a large garage building was constructed on the west side of the Phase One Property. The original dwelling was demolished between 2008 and 2010 and was replaced by a rectangular trailer in about 2014 which remains on the Phase One Property. The garage building also remain partially intact on the Phase One Property.

The Phase One Study Area appears to have been largely used for agricultural purposes until the mid-1950s. From the 1950s onwards, land use within the Phase One Study Area largely shifted to residential development, with some commercial development along properties fronting Innes Road (mainly the south side of Innes Road). A fuel service station has been in operation in the commercial plaza <40 m west-southwest of the Phase One Property since approximately the late 1980s.

Based on geographic location in relation to the Phase One Property and/or associated nature of the activities observed on the aerial photographs, some of the activities above may pose an environmental concern for the Phase One Property and are discussed in Section 7.2.

4.4.2 Topography, Hydrology, Geology

Topographic maps for the Phase One Study Area are included in Appendix 10.2.

The Phase One Property is generally flat with an approximate elevation of 91 m above sea level (ASL). There is a slightly elevated area in the centre of the Phase One Property which generally slopes downward to the north (back of property) and to the east. No permanent surface water features were observed on the Phase One Property. Surface drainage on the Phase One Property



is believed to generally occur through infiltration, though some runoff onto adjacent properties and to Innes Road may occur during particularly wet periods. There are no visible drainage ditches on the Phase One Property. However, storm sewer catch basins are located along the roadside curb on the north side of Innes Road. City of Ottawa storm sewer mapping indicates the Innes Road storm sewer system and municipal sanitary sewer system drain to the west along the roadway.

Rideau Valley Conservation Authority (RVCA) GeoPortal mapping indicates the Phase One Property is situated on the boundary between the West Bilberry Creek and Mud Creek (GCK) catchment areas of the Ottawa River East Subwatershed. On a regional scale, topography slopes north to the Ottawa River, and groundwater flow is believed to be oriented to the northwest towards the Ottawa River, which is approximately 5 km northwest of the Phase One Property. Locally, the Phase One Property appears to be located at the divide for surface drainage to the northwest towards the Ottawa River and surface drainage to the southeast towards the Mer Bleu bog.

Published accounts by the Ontario Geological Survey describe the bedrock geology of the Phase One Property and Phase One Study Area as consisting of fossiliferous limestone of the Bobcaygeon Formation (OGS MRD-219-June 2007). Overburden material is minimal in the area; reports indicate overburden consists of unconsolidated quaternary sediments up to 1 m thick (OGS MRD-128 Rev. 2010). A geotechnical Investigation completed by Paterson Group (discussed in Section 4.1.6) along with the 2010 Phase I ESA (Paterson Group Inc, 2010) included five test pits advanced to shallow bedrock between 0.7 and 1.5 m below surface grade on the Phase One Property. The BluMetric June 2020 drilling program (also discussed in Section 4.1.6) encountered limestone bedrock at depths of 1.14 m bgs at MW1 and 0.86 m bgs at MW2. At MW1, overburden was comprised of approximately 0.3 m of silt over approximately 0.8 m of clay. At MW2, overburden was comprised of approximately 0.6 m of fine sand over approximately 0.25 m of silt.

The static water table was approximately 3 m into limestone bedrock with a higher static groundwater elevation at MW1 compared to MW2 (BluMetric, 2020). Since MW2 is located further to the west on the Phase One Property, the measured static groundwater elevations indicate that the majority of the 3493, 3497 and 3499 Innes Road property is potentially located up gradient or crossgradient to groundwater flow leaving the 3469 Innes Road property.

4.4.3 Fill Materials

It is possible that fill material may have been brought onto the Phase One Property during the construction of the original structures that were historically on the property prior to 2011. It was noted at the time of the 2020 site visit (BluMetric, 2020) that the topography in the area of the commercial trailer, which was in the historic location of the original stone house, appeared to be



slightly elevated, sloping downward towards the back of the property and to the east. There were no historical records or indications from aerial photos confirming the presence of fill material of unknown quality or construction debris from the former stone house on the Phase One Property.

Given the historical residential land use on the Phase One Property, results of the site investigations conducted as part of this Phase One ESA and historical assessments, and the shallow bedrock in the area, the presence of fill material on the Phase One Property is not considered to be a PCA on the Phase One Property.

4.4.4 Water Bodies

There are no surface water bodies located on the Phase One Property or within the Phase One Study Area. The closest surface waterbody to the Phase One Property is Bilberry Creek, located approximately 0.74 km northwest of the Phase One Property.

4.4.5 Well Records

As noted in Section 4.2.2, four well records were found within the Water Well Information System (**WWIS**) database for the Phase One Property, which included two domestic supply wells, installed in the 1960s, and two monitoring and test holes, installed by BluMetric in 2020 (discussed in Section 4.1.6).

A total of 36 other well records were also found for properties within the Phase One Study Area, 27 of which are supply wells located within 200 m of the Phase One Property. Overburden within the vicinity of the site is generally described as clay, silt, or rock overlying shallow grey limestone.

As properties within the Phase One Study Area are serviced with municipal water, it is inferred that the domestic water supply wells are no longer in use.

4.4.6 Site Operating Records

Regulatory Permits

No regulatory operating permits were identified for the Phase One Property.



5. INTERVIEWS

A phone interview was conducted with Ms. Valerie Lapensee, Sales and Administration Manager for Matelas Lapensee Mattresses on November 8, 2022 at 12:00 pm. The interview was conducted by Ms. Amanda Gartshore of BluMetric under the supervision of Robert Hillier, P.Geo., Qualified Person (QP) for the Phase One ESA. A summary of the relevant information provided during the interview is provided below.

- Ms. Lapensee indicated that there are currently two structures on the Phase One Property, a sales trailer and a garage/workshop building. Ms. Lapensee indicated that the garage/workshop building has been proposed for demolition for some time, but that the property owners are awaiting permit approvals from the City of Ottawa. Ms. Lapensee indicated that all utility services have been shut off for the property, including water and natural gas.
- Ms. Lapensee indicated that the Phase One Property is proposed for a zoning change from residential to commercial use, for the development of two commercial buildings that will be used as a mattress retail store, warehousing, and offices.
- Ms. Lapensee indicated that there have been no changes to the structures on the Phase One Property since the previous environmental report was completed in 2019. The only maintenance to the property includes grass cutting. No salt or de-icing chemicals are applied to the surfaces of the property.

No PCAs were identified for the Phase One Property or within the Phase One Study Area based on information collected during the interview.



6. SITE RECONNAISSANCE

6.1 GENERAL REQUIREMENTS

The Phase One Property and Phase One Study Area were visited for approximately one hour on November 18, 2022, by Mr. Lake Johnson of BluMetric under the supervision of Robert Hillier, P. Geo., QP for the Phase One ESA. Weather conditions at the time of the site visit were sunny and clear; the ambient air temperature was approximately 16°C. The ground surface was covered in snow and ice, which may have obstructed the visual inspection of some areas of the Phase One Property.

Access to all areas of the Phase One Property was possible during the site visit with the exception of the sales trailer, which was boarded up.

The Phase One Study Area, other than the Phase One Property, was also investigated on November 18, 2022, by Mr. Lake Johnson of BluMetric. A 250 m radius area was surveyed and occupants of neighbouring properties were recorded. The Phase One Property is primarily surrounded by residential, industrial, and commercial land use.

Photographs of the Phase One Property compiled during the site visit are included in Section 10.4.

6.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

6.2.1 Structures and Other Improvements

i. Description of Structures and Other Improvements

The Phase One Property was observed to consist of two structures, a sales trailer on the centre of the property (3497 Innes Road) and a garage building on the west side of the property (3493 Innes Road). The Phase One Property was unoccupied at the time of the inspection. The sales trailer consisted of concrete exterior walls. The inside of the sales trailer was not accessed at the time of the inspection, which appeared to have been vandalized and broken into. The garage building consisted of metal siding, concrete block and plywood walls, drywalled ceilings, and a concrete floor. The inside of the garage building appeared to be deteriorated, with several areas of the ceiling falling in and building debris and materials scattered throughout the structure.

The remainder of the Phase One Property consisted of grassy areas with a gravel driveway and some trees.



ii. Below Ground Structures Associated with Structures and Other Improvements

Both structures on the Phase One Property are understood to be at grade, with no basement or below grade improvements.

No catch basins were observed on the Phase One Property. Two monitoring wells were present along the west side of the Phase One Property, installed by BluMetric in 2020.

iii. Tanks

No evidence of any storage tanks were observed on the Phase One Property.

iv. Water Sources Associated with Structures and Other Improvements

Other than two ground water monitoring wells observed on the west side of the property, no potable or non-potable water sources were noted on the Phase One Property at the time of the site visit.

The municipal water service is understood to have been disconnected at the Phase One Property. However, municipal water and sanitary services are available at the Phase One Property and within the Phase One Study Area.

6.2.2 Underground Utilities and Service Corridors

At the time of the site visit, the natural gas, municipal water, and electrical and telecommunication services had all been disconnected at the Phase One Property. Underground utility conduits connect to the Sales trailer from the east side and to the garage building along the north side. No electrical transformers were observed on the Phase One Property.

6.2.3 Interiors of Structures and Buildings

i. Entry/Exit Points

The Phase One Property has only one access point from the Innes Road, along the south side of the property. The trailer on the Phase One Property had entry and exit access points from the north and south sides. The garage building has entry and exit points from the south and east sides.



ii. Heating Systems

There was no heating service provided to the structures on the Phase One Property at the time of the site visit. All of the utility services, including the natural gas connection, had reportedly been disconnected.

iii. Cooling Systems

There was no cooling service provided to the structures on the Phase One Property at the time of the site visit. All of the utility services had reportedly been disconnected.

iv. Drains, Pits and Sumps

There were no drains, pits, or sumps observed inside the garage building. No access to the trailer was made available; however, it is understood that there are no below ground features associated with this structure.

v. Unidentified Substances in the Interior of Any Building or Structure

No unidentified substances were observed inside the structures on the Phase One Property.

vi. Stains and Corrosion on Floors

Some staining (minimal) was observed in the garage building, in the vicinity of three 4 L containers of used motor oil sorted in the garage building.

6.2.4 Exterior Portions of the Phase One Property

i. Current and Former Wells

Two groundwater monitoring wells (installed by BluMetric in 2020) were observed along the west boundary of the Phase One Property at the time of the site visit. No other wells were observed at the Phase One Property.

ii. Sewage Works

There was no evidence of any sewage works observed at the Phase One Property at the time of the site visit.



iii. Ground Surface Details

The ground cover consisted of grassy areas, with a gravel driveway accessed from Innes Road, and some trees throughout the property.

Surface runoff on the Phase One Property is inferred in to infiltrate the grassy areas or to run off the property into storm drains along Innes Road.

iv. Railway Lines and Spurs

No evidence of any railway lines or spurs were observed at the Phase One Property at the time of the site visit.

6.2.5 Parts of the Phase One Property Not Covered by Buildings or Other Structures

i. Stained Soil, Vegetation or Pavement

No stained soil, vegetation or pavement was directly observed at the Phase One Property in areas not covered by buildings or other structures. No information in regard to stained soil, vegetation or pavement was received.

ii. Stressed Vegetation

No stressed vegetation was directly observed at the Phase One Property. No information in regard to stressed vegetation was received.

iii. Area Where Fill or Debris May Have Been Placed or Graded

No areas where fill or debris may have been placed or graded were directly observed at the Phase One Property.

iv. Potentially Contaminating Activities in Areas Not Covered by Buildings or Other Structures

No PCAs in areas not covered by buildings or other structures were directly observed during the site reconnaissance.



v. Unidentified Substances in Areas Not Covered by Buildings or Other Structures

No unidentified substances were directly observed on the Phase One Property in areas not covered by buildings or other structures. No information in regard to unidentified substances in areas not covered by buildings or other structures was received.

6.2.6 Enhanced Investigation at the Property

An Enhanced Investigation Property is defined in O. Reg. 153/04 as a property which is being used or has been used, in whole or in part, for an industrial use or for any of the following commercial uses:

- As a 'garage', defined in O. Reg. 153/04 as a place or premises where motor vehicles are received for maintenance or repairs for compensation;
- As a bulk liquid dispensing facility, including a gasoline outlet; and/or,
- The operation of dry cleaning equipment. O. Reg. 511/09, s. 14.

Based on the above descriptions of use, the Phase One ESA Property is not an Enhanced Investigation Property as defined in O. Reg. 153/04.

6.2.7 Phase One Study Area Reconnaissance

BluMetric surveyed the area within a 250 m radius of the Phase One Property boundary and noted the activities on neighbouring properties. Observations have been incorporated, where appropriate, throughout the Phase One ESA report.

The Phase One Property is bound to the south by Innes Road. North and east of the Phase One Property is predominantly a residential subdivision. West of the Phase One Property is a commercial plaza at 3469 Innes Road, occupied by Orleans Dry Cleaners (depot), Innes Road Animal Hospital, Co-operators Insurance, Sweetheart Rose florist, Purolator, Gabriela's Pizza, and an Ultramar fuel service station. Further west is Page Road and residential properties along the north side of Innes Road. South of the Phase One Property, along the south side of Innes Road are residential properties and largely vacant land (former driving range) proposed for residential redevelopment.

Multiple pole-mounted transformers were observed along Innes Road. No leaks or stains were reported or observed in the vicinity at any of these transformers.



6.2.8 Summary of Findings

No PCAs were identified on the Phase One Property during the site reconnaissance.

The following PCAs were identified for the Phase One Study Area from the site reconnaissance:

Item	Potentially Contaminating Activity	Area Associated with Potentially Contaminating Activity	Information Source
28.	Gasoline and Associated Products Storage in Fixed Tanks	<u>3469 Innes Road</u> Gasoline service station located 65 m west-southwest of the Phase One Property.	Section 6.2.7
55.	Transformer Manufacturing, Processing and Use	Pole and pad mount transformers were observed throughout the Phase One Study Area.	Section 6.2.7

Source: Table 2, Schedule D, O. Reg. 153/04

6.3 WRITTEN DESCRIPTION OF THE INVESTIGATIONS

The investigations conducted for this assessment are described in Sections 3.0 through 6.0.

Chronologically, the first task was to review information obtained by filing requests with organizations notably the ERIS databases (see Section 4.2). Physical setting sources were also obtained and reviewed at this time. On November 18, 2022, BluMetric conducted a site reconnaissance of the Phase One Property and the Phase One Study Area (see Section 6.0).

The review and evaluation of the assembled information is presented in Section 7.0 and Conclusions are presented in Section 8.0. Aside from the reconnaissance, interviews, and review of information collected from numerous sources, no other investigations were conducted.



7. REVIEW AND EVALUATION OF INFORMATION

7.1 CURRENT AND PAST USES

The Phase One Property has the following history of use:

Time Period	Use(s)	Description
Prior to 1950s	Phase One Property was vacant, possibly used for agricultural purposes.	Agricultural or Other Use
1950s to 2008	Phase One Property developed with a residential dwelling, built on the centre of the property (3497 Innes Road). In the 1990s, a large outbuilding (i.e. garage) was constructed on the west side of the property (3493 Innes Road).	Residential Use
2008 to Present	The original dwelling was demolished between 2008 and 2010. In the 2010s, part of the garage building was also demolished. The garage building remains partly intact on the west side of the Phase One Property (3493 Innes Road). A sales trailer structure was brought onto the centre parcel of the property (3497 Innes Road) and put in the location of the former dwelling. The rest of the Phase One Property has remained undeveloped land.	Agricultural or Other Use

7.2 POTENTIALLY CONTAMINATING ACTIVITY

7.2.1 Phase One Property

No PCAs were identified at the Phase One Property from historical or current activities.

The former heating oil AST would be considered a PCA for the Phase One Property; however, since the AST was removed prior to work completed by Paterson group (2010), and no environmental impacts associated with the tank were identified, it is the opinion of the QP that the risk of any residual environmental impacts associated with the presence of the former AST on the Phase One Property is considered low.

7.2.2 Phase One Study Area

Through records review, interviews, and a site reconnaissance visit, PCAs were identified in the Phase One Study Area. These concerns are associated with PCAs as defined in O.Reg. 153/04, as amended. The PCAs noted within the Phase One Study Area are summarized as follows:



Item	Potentially Contaminating Activity	Location of Potentially Contaminating Activity	Information Source
28.	Gasoline and Associated Products Storage in Fixed Tanks	<p><u>3469 Innes Road</u> Gasoline service station with at least two L underground fuel tanks, tanks installed in 1987 and 2015, and records of three other underground fuel oil tanks (Located <40 m west-southwest of the Phase One Property).</p> <p><u>3605 Innes Road</u> Delisted 10,000 L fuel oil tank, installed on 28 June 2006. Delisted 4,546 L fuel oil tank said to be 12 years old. Record date was April 2013. Standby emergency diesel generator set (Located 247 m east-northeast of the Phase One Property.)</p>	<p>Sections 4.1.6, 4.2.2, 4.2.6</p> <p>Section 4.2.2</p>
GEN	Waste Generator	<p><u>3605 Innes Road</u> Waste generator of inorganics and alkaline wastes – heavy metals between 1997 and 2004; light fuels, oil skimmings and sludges and waste oils and lubricants in 2005; and alkaline wastes – heavy metals and acid wastes – heavy metals in 2021 and 2022 (Located 247 m east-northeast of the Phase One Property).</p>	Section 4.2.2
SPL	Spill	<p><u>3469 Innes Road</u> 50 L spill of engine oil to the sewer dated September 23, 2010. Unknown quantity of hydraulic oil spilled into the lot on May 16, 2002. The spill was contained (Located <40 m west-southwest of the Phase One Property).</p> <p><u>3443 Innes Road</u> Spill of oil or gas from property to the road and catchbasin on April 8, 2019 (Located 70 m west-southwest of the Phase One Property).</p>	<p>Section 4.2.2</p> <p>Section 4.2.2</p>
58.	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	<p><u>Innes Road</u> Westbay Investments Inc., unnamed landfill site (Located 800 m east-northeast of the Phase One Property).</p>	Sections 4.2.6, 4.2.8
12.	Concrete, Cement and Lime Manufacturing	<p><u>3544 Innes Road</u> Concrete forming company (Normco Forming Limited) in operation between 2001 and 2005 (Located 85 m southeast of the Phase One Property).</p>	Section 4.2.6
58.	Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	<p><u>3636 Innes Road</u> Builders' Warehouse lumber and building materials storage facility, in operation since 1985 (Located 250 m southeast of the Phase One Property).</p>	Section 4.2.6
55.	Transformer Manufacturing, Processing and Use	<p>Pole and pad mount transformers were observed throughout the Phase One Study Area.</p>	Section 6.2.7

Source: Table 2, Schedule D, O. Reg. 153/04



7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

7.3.1 Evaluation of Information

Information from each of the components of the Phase One ESA was evaluated and considered to identify areas of potential environmental concern (APECs) (former or current PCAs which pose a moderate to high environmental risk to the Phase One Property). In determining the areas of actual or potential environmental concern at the Phase One Property, BluMetric has evaluated the information collected during this Phase One ESA based on the concepts of source, pathways, and receptors.

Because Phase One ESAs do not include the testing of samples or the measuring of environmental parameters, the areas of potential environmental concern on the Phase One Property are speculative.

No PCAs were identified at the Phase One Property from historical or current activities.

The following PCAs were identified within the Phase One Study Area from historical or current activities and are identified on Figure 3:

Item	Potentially Contaminating Activity	Location of Potentially Contaminating Activity	Potential Environmental Concern to the Phase One Property – Y/N (Rationale)
28.	Gasoline and Associated Products Storage in Fixed Tanks	<p><u>3469 Innes Road</u> Gasoline service station with at least two L underground fuel tanks, tanks installed in 1987 and 2015, and records of three other underground fuel oil tanks (Located <40 m west-southwest of the Phase One Property).</p> <p><u>3605 Innes Road</u> Delisted 10,000 L fuel oil tank, installed on 28 June 2006. Delisted 4,546 L fuel oil tank said to be 12 years old. Record date was April 2013. Standby emergency diesel generator set (Located 247 m east-northeast of the Phase One Property.)</p>	<p>Y (PCA is located in near proximity to the western boundary to the Phase One Property).</p> <p>N (PCA is located a significant distance and crossgradient to the Phase One Property).</p>
GEN	Waste Generator	<p><u>3605 Innes Road</u> Waste generator of inorganics and alkaline wastes – heavy metals between 1997 and 2004; light fuels, oil skimmings and sludges and waste oils and lubricants in 2005; and alkaline wastes – heavy metals and acid wastes – heavy metals in 2021 and 2022 (Located 247 m east-northeast of the Phase One Property).</p>	<p>N (PCA is located a significant distance and crossgradient to the Phase One Property).</p>



Item	Potentially Contaminating Activity	Location of Potentially Contaminating Activity	Potential Environmental Concern to the Phase One Property – Y/N (Rationale)
SPL	Spill	<p><u>3469 Innes Road</u> 50 L spill of engine oil to the sewer dated September 23, 2010. Unknown quantity of hydraulic oil spilled into the lot on May 16, 2002. The spill was contained (Located <40 m west-southwest of the Phase One Property).</p> <p><u>3443 Innes Road</u> Spill of oil or gas from property to the road and catchbasin on April 8, 2019 (Located 70 m west-southwest of the Phase One Property).</p>	<p>N (Fairly small spill amount and inferred to have occurred on opposite side of fuel service station at 3469 Innes Road and therefore considered to be crossgradient to the Phase One Property).</p> <p>N (Inferred to be a small spill amount given residential use. Also, PCA is located crossgradient to the Phase One Property).</p>
58.	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	<p><u>Innes Road</u> Westbay Investments Inc., unnamed landfill site (Located 800 m east-northeast of the Phase One Property).</p>	N (PCA is located a significant distance and crossgradient to the Phase One Property).
12.	Concrete, Cement and Lime Manufacturing	<p><u>3544 Innes Road</u> Concrete forming company (Normco Forming Limited) in operation between 2001 and 2005 (Located 85 m southeast of the Phase One Property).</p>	N (PCA is located crossgradient to the Phase One Property).
58.	Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	<p><u>3636 Innes Road</u> Builders' Warehouse lumber and building materials storage facility, in operation since 1985 (Located 250 m southeast of the Phase One Property).</p>	N (PCA is located a significant distance and crossgradient to the Phase One Property).
55.	Transformer Manufacturing, Processing and Use	Pole and pad mount transformers were observed throughout the Phase One Study Area.	N (Subsurface impacts derived from mineral insulating oils are localized and have low mobility in soils).

Source: Table 2, Schedule D, O. Reg. 153/04

7.3.2 Identified Areas of Potential Environmental Concern

The following areas of potential environmental concern (APECs) were identified on the Phase One Property and are indicated on Figure 4:

APEC	Location of Area of Potential Environmental Concern on Phase One Property	PCA
A	Western Boundary of Phase One Property	#28. Gasoline and Associated Products Storage in Fixed Tanks

Source: Table 2, Schedule D, O. Reg. 153/04



The search of environmental source information yielded records for fuel storage tanks at the 3469 Innes Road property dating back to 1987 and a review of the available aerial photos for the Phase One Study Area indicate that the petroleum fuels service station was present at this location since prior to 1991. Based on the information collected during the Phase One ESA, the presence of the Ultramar fuel service station to the immediate west (3469 Innes Road) of the Phase One Property is considered to create an Area of Potential Environmental Concern (APEC) for the westernmost portion of the Phase One Property. Spill records associated with 3469 Innes Road (<40 m west of the Phase One Property) and 3443 Innes Road (70 m west of the Phase One Property) were considered to be low risk for environmental impact but would be also captured by an investigation of the APEC pertaining to the fuel service station at 3469 Innes Road.

7.3.3 Contaminants of Potential Concern

The Phase One ESA identified the following contaminants of potential concern based on the PCA activities:

- Benzene, toluene, ethylbenzene and xylene (BTEX)
- Petroleum hydrocarbons (PHCs) in the F1 to F4 fractions

As discussed in Section 4.1.6, in June 2020, BluMetric completed a Phase II ESA at the Phase One Property to investigate the soil and groundwater quality at two locations on the western portion of the Phase One Property. The soil and groundwater chemical results at both sample locations were found to be below laboratory method detection limits and did not exceed the applicable O. Reg. 153/04 Table 7 Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Conditions for Residential/Parkland/Institutional Property Use and coarse textured soils.

Since the fuel service station has remained in operation since 2020, it continues to create an APEC on the westernmost part of the Phase One Property. Given that the above Phase II ESA did not find any soil impacts and since groundwater was not observed within the overburden material, it is the opinion of the QP that there would be no pathways for any new soil impacts on the Phase One Property and that the fuel service station does not pose a concern for soils at the Phase Two Property.

Based on the above, the contaminants of potential concern and the potentially affected media for the identified APEC for the Phase One Property are summarized as follows:



APEC	Location of APEC	PCA(s)	Contaminants of Potential Concern	Potentially Affected Media
A	Western Boundary of the Phase One Property	#28 – Gasoline and Associated Products Storage in Fixed Tanks.	PHCs, BTEX	Ground Water

7.3.4 Information Gaps in Phase One Investigation

Access to all areas of the Phase One Property was possible during the site visit with the exception of the sales trailer structure.

All efforts were made to obtain records for the Phase One Property and the Phase One Study Area. Those information searches without responses at the time of report preparation are noted herein.

7.3.5 Phase One Conceptual Site Model

Figure 4 provides the conceptual site model (CSM) for the Phase One Property and Phase One Study Area. Figure 4 shows:

- The location of existing buildings and structures,
- water bodies (if present) located in whole or in part on the Phase One Study Area,
- roads within the Phase One Study Area,
- the locations of water supply wells on the Phase One Property,
- uses of properties adjacent to the Phase One Property,
- areas where any potentially contaminating activity has occurred, and
- areas of potential environmental concern.

The Phase One CSM does not include the following types of information for the following reasons:

- There is no figure which illustrates areas of natural significance in the Phase One Study Area because there are no areas of natural significance in the Phase One Study Area.
- There is no figure which illustrates the locations of water supply wells on the Phase One Property because there were no well records identified on the Phase One Property.

Geological and hydrogeological information pertaining to the site is discussed in Section 4.4.



8. CONCLUSIONS

8.1 IS A PHASE TWO ESA REQUIRED BEFORE AN RSC IS SUBMITTED?

As discussed above, an area of potential environmental concern has been identified on the Phase One Property. A Phase Two ESA would be required before an RSC could be submitted.

8.2 CAN AN RSC BE SUBMITTED BASED ON THE PHASE ONE ESA ALONE?

It is the opinion of the QP that an RSC cannot be submitted solely on the basis of this Phase One ESA report. It is recommended that a Phase Two ESA be conducted to examine potential impacts at the Phase One Property prior to filing an RSC.

8.3 LIMITING CONDITIONS, QP STATEMENT, AND QP SIGNATURE

Limiting Conditions

This Phase One ESA report was completed in general accordance with O. Reg. 153/04. The findings in this report are based on: observations made during a site visit; interviews with people familiar with the site; a review of historical records concerning the current and past uses of the Phase One Property; and requests for information filed with provincial and municipal agencies.

The conclusions presented in this report represent our professional opinion and are based on the conditions observed on the dates set out in the report, the information available at the time this report was prepared, the scope of work, and any limiting conditions noted herein.

BluMetric provides no assurances regarding changes to conditions subsequent to the time of the assessment. BluMetric makes no warranty as to the accuracy or completeness of the information provided by others or of the conclusions and recommendations predicated on the accuracy of that information.

This report has been prepared for Gestion FRAMI. Any use a third party makes of this report, any reliance on the report, or decisions based upon the report, are the responsibility of those third parties unless authorization is received from BluMetric in writing. BluMetric accepts no responsibility for any loss or damages suffered by any unauthorized third party as a result of decisions made or actions taken based on this report.



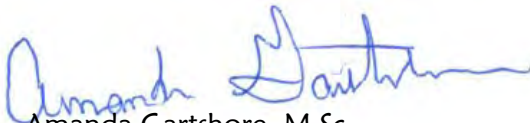
This report was written by Amanda Gartshore, M.Sc. and Robert Hillier, P.Geo.

Statement and Signature of the Qualified Person

This Phase One Environmental Site Assessment of the Phase One Property includes the evaluation of information gathered from a records review, site reconnaissance, and interviews. It has been conducted in accordance with O. Reg. 153/04, as amended, by or under the supervision of a qualified person.

Sincerely yours,

BluMetric Environmental Inc.



Amanda Gartshore, M.Sc.
Environmental Scientist



Robert Hillier, P.Geo., QP_{ESA}
Senior Hydrogeologist



9. REFERENCES

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FIGURES



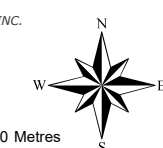


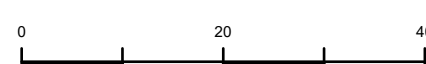
LEGEND

- Property Outline
- Existing Structure
- Former Structure Footprint
- + Monitoring Well Location

1				
REV.	DESCRIPTION	YY/MM/DD	BY	CHK

REFERENCES
 PROPRIETARY INFORMATION MAY NOT BE REPRODUCED OR DIVULGED WITHOUT PRIOR WRITTEN CONSENT OF BLUMETRIC ENVIRONMENTAL INC. DO NOT SCALE DRAWING. THIS DRAWING MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS.





1:750

CLIENT

Gestion FRAMI
 1085 Boulevard de la Carriere
 Gatineau, Quebec, J9Y 6V4

PROJECT

Phase One Environmental Site Assessment
 3493, 3497 and 3499 Innes Road
 Ottawa, ON

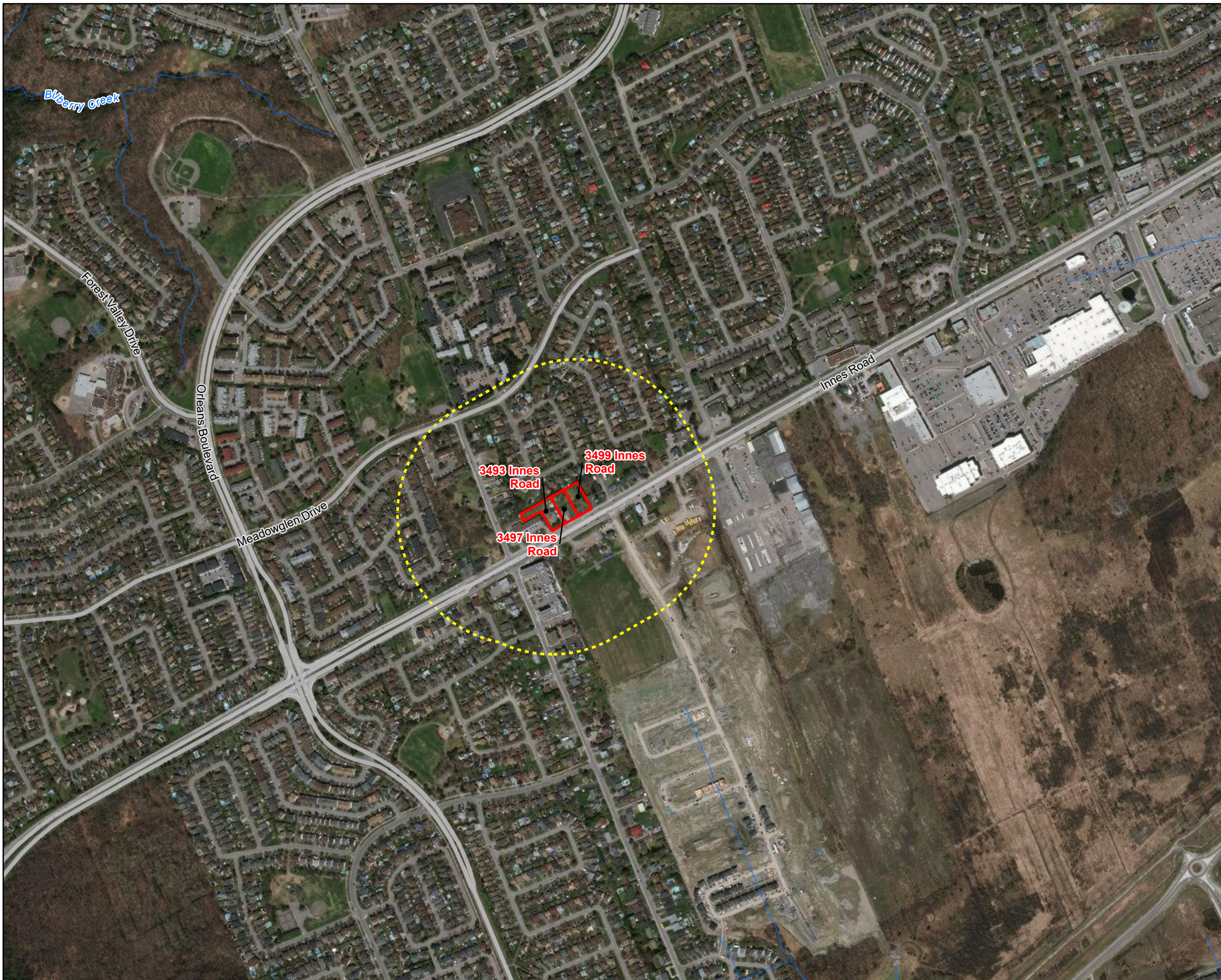
TITLE

Phase One Property



3108 Carp Road PO Box 430
 Ottawa, Ontario K0A 1L0
 TEL: (613) 839-3053
 FAX: (613) 839-5376
 Email: info@blumetric.ca
 Web: http://www.blumetric.ca

PROJECT # 230028	DATE January 23, 2023
DRAWN MB	CHECKED RH
FIG NO. 01	REV 2



LEGEND

- Property Outline
- Phase One Study Area
- Watercourse

REV.	DESCRIPTION	YY/MM/DD	BY	CHK
1				

REFERENCES
 PROPRIETARY INFORMATION MAY NOT BE REPRODUCED OR DIVULGED WITHOUT PRIOR WRITTEN CONSENT OF BLUMETRIC ENVIRONMENTAL INC. DO NOT SCALE DRAWING. THIS DRAWING MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS.

CLIENT

Gestion FRAMI
 1085 Boulevard de la Carrière
 Gatineau, Quebec, J9Y 6V4

PROJECT

Phase One Environmental Site Assessment
 3493, 3497 and 3499 Innes Road
 Ottawa, ON

TITLE

General Site Location

3108 Carp Road PO Box 430
 Ottawa, Ontario K0A 1L0
 TEL: (613) 839-3053
 FAX: (613) 839-5376
 Email: info@blumetric.ca
 Web: http://www.blumetric.ca

PROJECT # 230028		DATE January 23, 2023	
DRAWN MB	CHECKED RH	FIG NO. 02	REV 1



LEGEND

- Property Outline
- Study Area
- ➔ Groundwater Flow Direction

1				
REV.	DESCRIPTION	YY/MM/DD	BY	CHK

REFERENCES
PROPRIETARY INFORMATION MAY NOT BE REPRODUCED OR DIVULGED WITHOUT PRIOR WRITTEN CONSENT OF BLUMETRIC ENVIRONMENTAL INC. DO NOT SCALE DRAWING. THIS DRAWING MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS.

0 50 100 Metres

1:3,000

CLIENT

Gestion FRAMI
1085 Boulevard de la Carriere
Gatineau, Quebec, J9Y 6V4

PROJECT

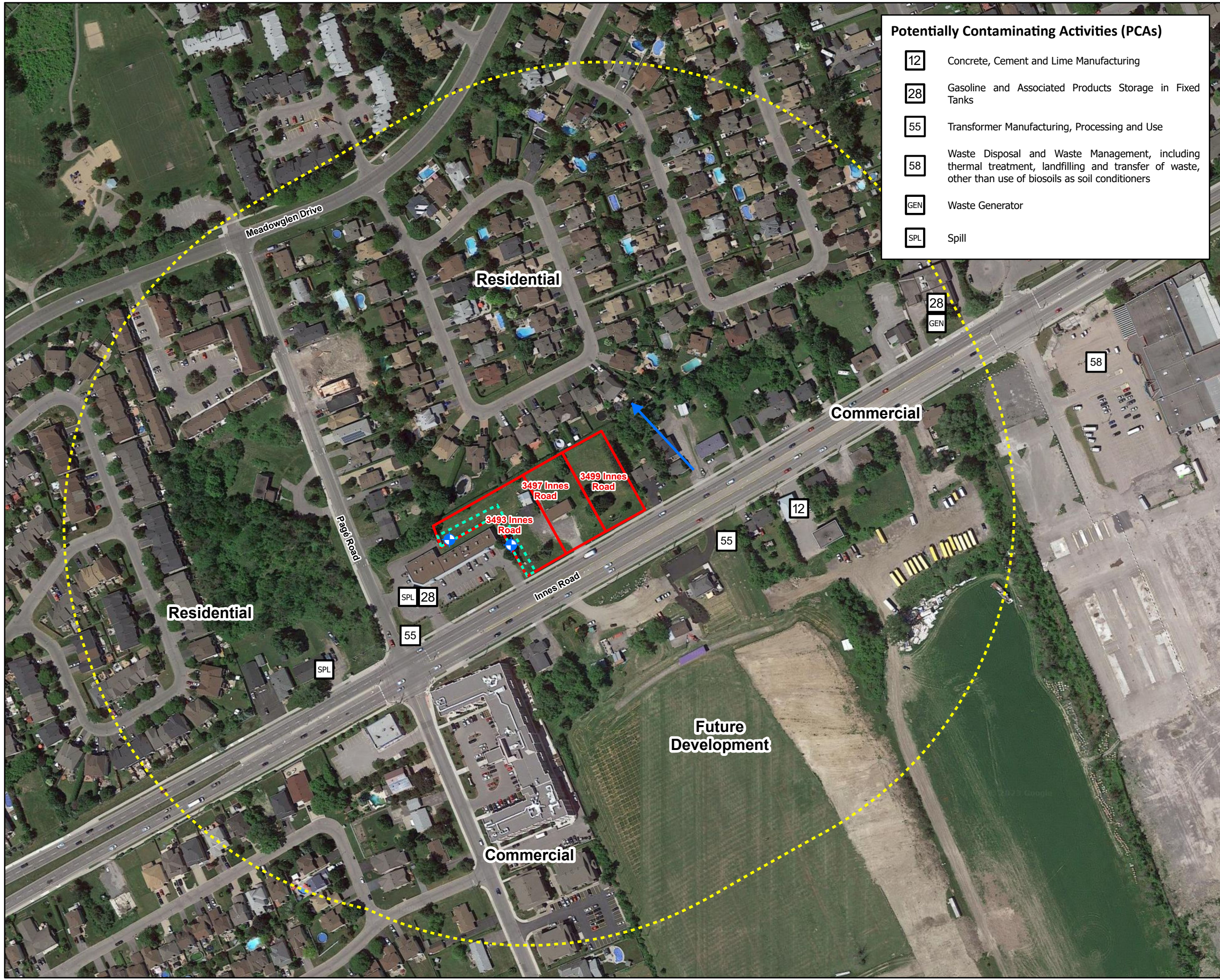
Phase One Environmental Site Assessment
3493, 3497 and 3499 Innes Road
Ottawa, ON

TITLE

Phase One Study Area

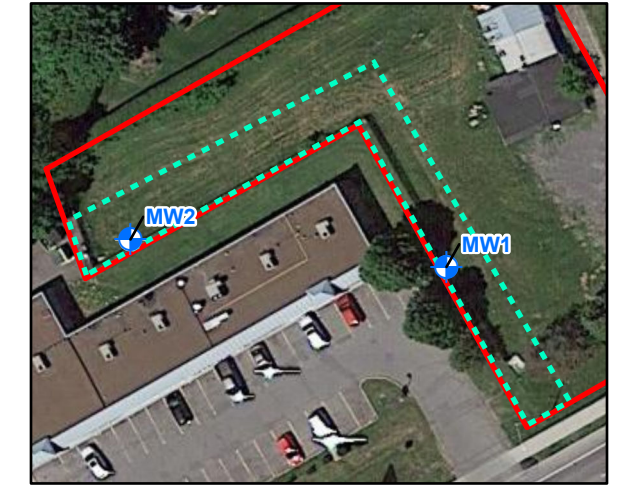
3108 Carp Road PO Box 430
 Ottawa, Ontario K0A 1L0
 TEL: (613) 839-3053
 FAX: (613) 839-5376
 Email: info@blumetric.ca
 Web: <http://www.blumetric.ca>

PROJECT # 230028	DATE January 23, 2023
DRAWN MB	CHECKED RH
FIG NO. 03	REV 2



- ### Potentially Contaminating Activities (PCAs)
- 12 Concrete, Cement and Lime Manufacturing
 - 28 Gasoline and Associated Products Storage in Fixed Tanks
 - 55 Transformer Manufacturing, Processing and Use
 - 58 Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners
 - GEN Waste Generator
 - SPL Spill

- ### LEGEND
- Property Outline
 - Area of Potential Environmental Concern (APEC)
 - ➔ Groundwater Flow Direction
 - ⊕ Monitoring Well Location



REV.	DESCRIPTION	YY/MM/DD	BY	CHK
1				

REFERENCES
 PROPRIETARY INFORMATION MAY NOT BE REPRODUCED OR DIVULGED WITHOUT PRIOR WRITTEN CONSENT OF BLUMETRIC ENVIRONMENTAL INC. DO NOT SCALE DRAWING.
 THIS DRAWING MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS.

1:2,500

CLIENT

Gestion FRAMI
 1085 Boulevard de la Carriere
 Gatineau, Quebec, J9Y 6V4

PROJECT

Phase One Environmental Site Assessment
 3493, 3497 and 3499 Innes Road
 Ottawa, ON

TITLE

Conceptual Site Model

3108 Carp Road PO Box 430
 Ottawa, Ontario K0A 1L0
 TEL: (613) 839-3053
 FAX: (613) 839-5376
 Email: info@blumetric.ca
 Web: http://www.blumetric.ca

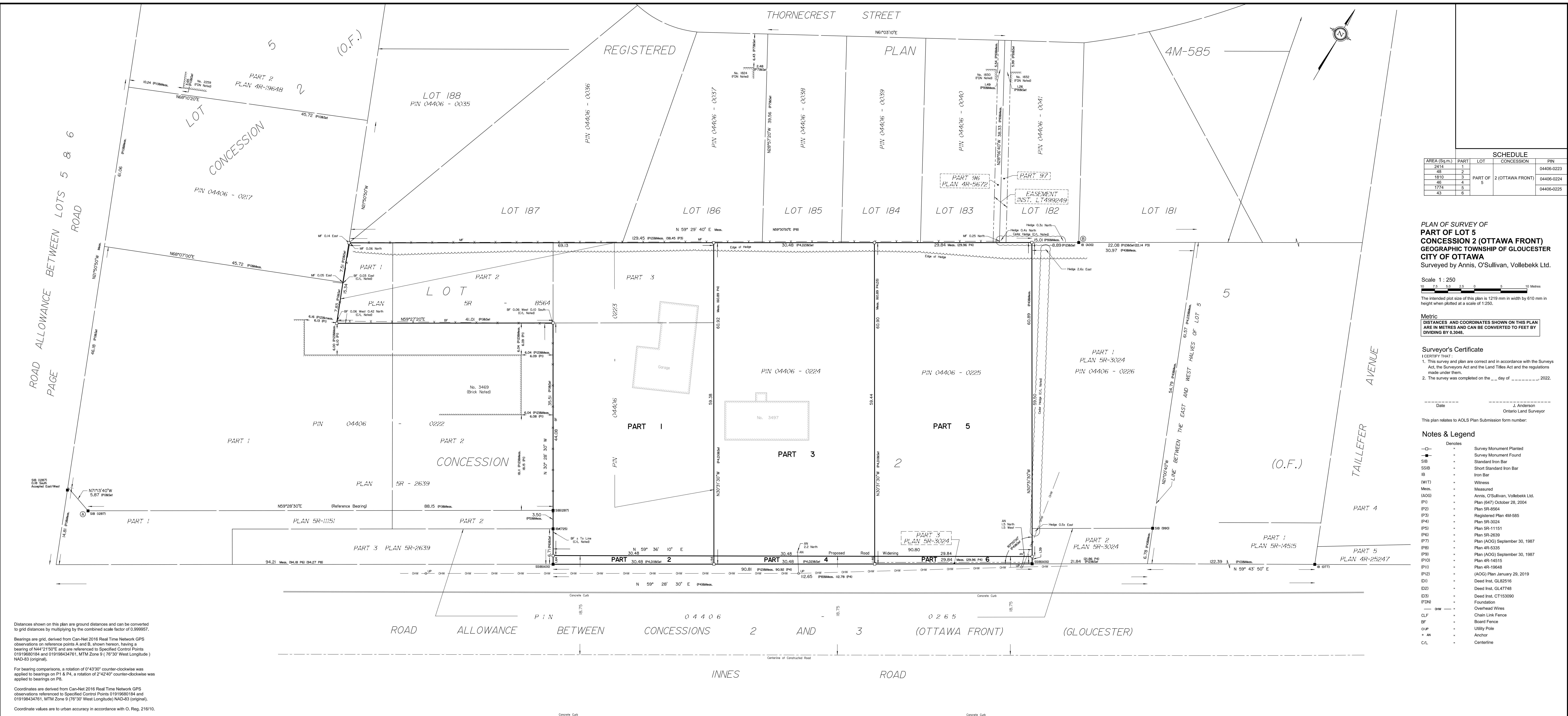
PROJECT # 230028		DATE January 23, 2023	
DRAWN MB	CHECKED RH	FIG NO. 04	REV 2

10. APPENDICES

10.1 SURVEY PLAN

O. Reg. 153/04 requires that a Phase One Environmental Site Assessment report include a current plan of survey of the Phase One Property that has been prepared, signed, and sealed by a surveyor. This appendix consists of a Plan of Survey for the Phase One Property.





SCHEDULE				
AREA (Sq.m.)	PART	LOT	CONCESSION	PIN
2414	1			04406-0223
48	2			
1810	3			04406-0224
46	4			
1774	5			04406-0225
43	6			

PLAN OF SURVEY OF
PART OF LOT 5
CONCESSION 2 (OTTAWA FRONT)
GEOGRAPHIC TOWNSHIP OF GLOUCESTER
CITY OF OTTAWA
 Surveyed by Annis, O'Sullivan, Vollebek Ltd.

Scale 1 : 250
 The intended plot size of this plan is 1219 mm in width by 610 mm in height when plotted at a scale of 1:250.

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

Surveyor's Certificate
 I CERTIFY THAT:
 1. This survey and plan are correct and in accordance with the Surveys Act, the Surveyors Act and the Land Titles Act and the regulations made under them.
 2. The survey was completed on the ___ day of _____, 2022.

Date _____
 J. Anderson
 Ontario Land Surveyor

This plan relates to AOLS Plan Submission form number: _____

- Notes & Legend**
- Denotes
 - +— Survey Monument Planted
 - +— Survey Monument Found
 - SIB — Standard Iron Bar
 - SSIB — Short Standard Iron Bar
 - IB — Iron Bar
 - (WIT) — Witness
 - Meas. — Measured
 - (AOG) — Annis, O'Sullivan, Vollebek Ltd.
 - (P1) — Plan (647) October 28, 2004
 - (P2) — Plan SR-8564
 - (P3) — Registered Plan 4M-585
 - (P4) — Plan SR-3024
 - (P5) — Plan SR-11151
 - (P6) — Plan SR-2639
 - (P7) — Plan (AOG) September 30, 1987
 - (P8) — Plan 4R-5335
 - (P9) — Plan (AOG) September 30, 1987
 - (P10) — Plan 4R-14515
 - (P11) — Plan 4R-19648
 - (P12) — (AOG) Plan January 29, 2019
 - (D1) — Deed Inst. GL82516
 - (D2) — Deed Inst. GL47748
 - (D3) — Deed Inst. CT153090
 - (FND) — Foundation
 - +— Overhead Wires
 - CLF — Chain Link Fence
 - BF — Board Fence
 - UP — Utility Pole
 - AN — Anchor
 - CL — Centerline

Distances shown on this plan are ground distances and can be converted to grid distances by multiplying by the combined scale factor of 0.999957.

Bearings are grid, derived from Can-Net 2016 Real Time Network GPS observations on reference points A and B, shown hereon, having a bearing of N44°21'50"E and are referenced to Specified Control Points 01919680184 and 019198434761, MTM Zone 9 (76°30' West Longitude) NAD-83 (original).

For bearing comparisons, a rotation of 0°43'30" counter-clockwise was applied to bearings on P1 & P4, a rotation of 2°42'40" counter-clockwise was applied to bearings on P8.

Coordinates are derived from Can-Net 2016 Real Time Network GPS observations referenced to Specified Control Points 01919680184 and 019198434761, MTM Zone 9 (76°30' West Longitude) NAD-83 (original).

Coordinate values are to urban accuracy in accordance with O. Reg. 216/10.

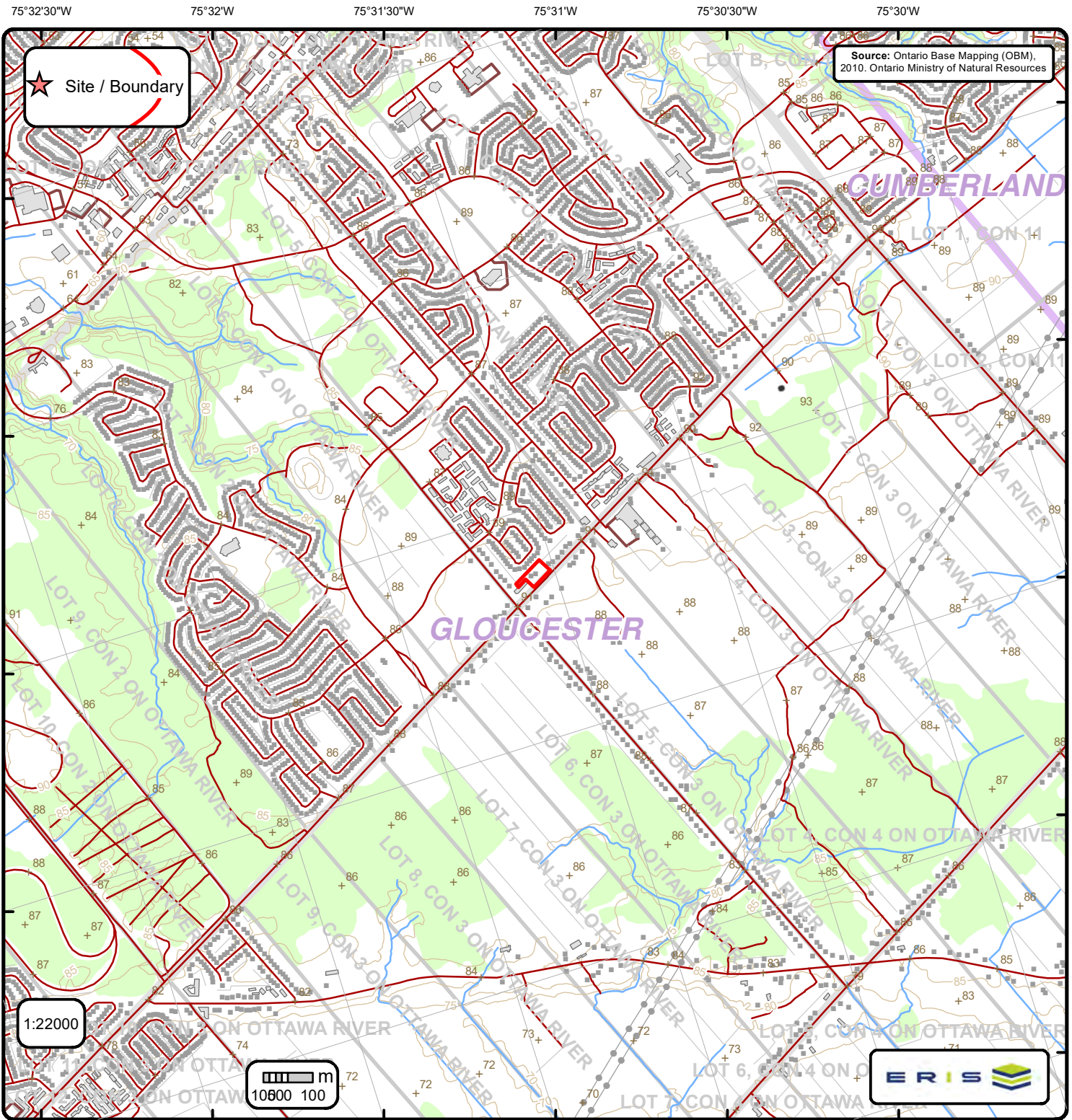
.01919680184	Northing	5040610.16	Easting	384736.56
.019198434761	Northing	5036178.12	Easting	372436.11
.Point A	Northing	5034566.31	Easting	380890.46
.Point B	Northing	5034705.39	Easting	381026.50

Caution: Coordinates shown, in themselves, be used to re-establish corners or boundaries shown on this plan.

10.2 TOPOGRAPHIC MAP OF THE PHASE ONE STUDY AREA

As required by O. Reg. 153/04, this appendix consists of a topographic map (Ontario Base Map series) that includes the Phase One Study Area.





Ontario Base Mapping (OBM) Data

Order No. 22102100112

+ Spot Height (metre)	— Transportation Structure	— Contour Line	Wooded Area
■ Building Point	● Utility Line	▭ Pit or Quarry	▭ Conservation Authority
⚡ Towers	— Water Structure	▭ Waterbody	▭ Conservation Area
● Utility Site Point	— Drainage Line Feature	▭ Wetlands	▭ Municipal Park
— Misc. Line	— River or Stream	▭ Concession	▭ Provincial Park
— Railroads	▭ Airports	▭ Lots	▭ National Park
— Roads	■ Tanks	▭ Municipality	▭ Nature Reserve
- - - Trail	▭ Building to Scale	▭ Land Ownership	

10.3 ENVIRONMENTAL SOURCE INFORMATION

This appendix includes the following environmental source information:

- A report describing federal, provincial and private database records for the Phase One Property and Phase One Study Area, conducted by Environmental Risk Information Services (ERIS);
- Correspondence with the Ministry of the Environment, Conservation and Parks, the Technical Standards and Safety Authority and the City of Ottawa; and
- Copies of previous environmental work completed at the Phase One Property.



ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



CITY
DIRECTORY

Project Property: *3493 and 3497 Innes Road, Orleans, Ontario*
Report Type: *City Directory*
Order No: *20200526116*
Information Source: *Vernon's Ottawa & Area, Ontario Criss Cross Directory*
Date Completed: *28/05/2020*

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

City Directory Information Source
Vernon's Ottawa & Area, Ontario Criss Cross Directory

PROJECT NUMBER: 20200526116	
Site Address:	3493 and 3497 Innes Road, Orleans, Ontario
Year: 2011	
Site Listing:	3493 – Not Individually Indicated Within Coverage 3497 – Not Individually Indicated Within Coverage
Adjacent Properties:	
Innes Road (3390-3530)	-All Residential 3469-Ultramar Ltd -Kouri Shaheen -Pronto Food Marts -Innes Road Animal Hospital -Lynn Novak Flowers -Brian Johnson Agent -Co-Operators -Orleans Dry Cleaners -Sweetheart Rose Ltd -Can DO Cash 3484-State Farm Insurance 3490-Innes Road Golfland

	-Sean's Snack Shack
Page Road (2240-2410)	-All Residential 2310-Susan Bablitz Dentistry 2360-Action Towing -Action Orleans Towing 2381-Andre Charon Painting and Decorating Inc 2384-Guy TV Repairs 2405-J & M Auto Service

PROJECT NUMBER: 20200526116	
Site Address:	3493 and 3497 Innes Road, Orleans, Ontario
Year: 2006/07	
Site Listing:	3493 – Not Individually Indicated Within Coverage 3497 – Not Individually Indicated Within Coverage
Adjacent Properties:	
Innes Road (3390-3530)	-All Residential 3469-Kouri Shaheen -Gabriel Pizza -Innes Road Animal Hospital -Sweet Rose Ltd -Co-Operators

	<p>-Orleans Dry Cleaners</p> <p>3490-Innes Road Golfland</p> <p>-Sean's Snack Shack</p> <p>3499-Gerard Gauthier Construction</p> <p>3519-Chattan Insulation Inc</p>
Page Road (2240-2410)	<p>-All Residential</p> <p>3469-Ultramar Ltd</p> <p>-Kouri Shaheen</p> <p>-Pronto Food Marts</p> <p>-Innes Road Animal Hospital</p> <p>-Lynn Novak Flowers</p> <p>-Brian Johnson Agent</p> <p>-Co-Operators</p> <p>-Orleans Dry Cleaners</p> <p>-Sweetheart Rose Ltd</p> <p>-Can DO Cash</p> <p>3484-State Farm Insurance</p> <p>3490-Innes Road Golfland</p> <p>-Sean's Snack Shack</p> <p>-All Residential</p> <p>2360-Action Towing</p> <p>-Orleans Blvd Towing & Recycling</p> <p>2381-Andre Charon Painting and Decorating Inc</p> <p>2405-J & M Auto Service</p>

PROJECT NUMBER: 20200526116	
Site Address:	3493 and 3497 Innes Road, Orleans, Ontario
Year: 2001/02	
Site Listing:	3493 – Not Individually Indicated Within Coverage 3497 – Not Individually Indicated Within Coverage
Adjacent Properties:	
Innes Road (3390-3530)	-All Residential 3442-Innes Kitchen & Bath 3469-Kouri Shaheen -Gabriel Pizza -Innes Veterinary Clinic -Sweet Rose Ltd -Brewmasters Club Maitres-Brasseurs 3499-Gerard Gauthier Construction
Page Road (2240-2410)	-All Residential 2360-Action Towing -Orleans Blvd Towing & Recycling 2405-J & M Auto Service

PROJECT NUMBER: 20200526116	
Site Address:	3493 and 3497 Innes Road, Orleans, Ontario

Year: 1996/97	
Site Listing:	3493 – Not Individually Indicated Within Coverage 3497 – Not Individually Indicated Within Coverage
Adjacent Properties:	
Innes Road (3390-3530)	-All Residential 3442-Innes Kitchen & Bath 3469-Kouri Shaheen -Innes Veterinary Clinic -Sweet Rose Ltd -Brewmasters Club Maitres-Brasseurs 3490-Bad Dawg Batting Cages 3499-Gerard Gauthier Construction
Page Road (2240-2410)	-All Residential 2360-Action Towing 2381-Andres Charon Painting & Decorating 2405-J & M Auto Service

PROJECT NUMBER: 20200526116	
Site Address:	3493 and 3497 Innes Road, Orleans, Ontario
Year: 1992	

Site Listing:	3493 – Not Individually Indicated Within Coverage 3497 – Not Individually Indicated Within Coverage
Adjacent Properties:	
Innes Road (3390-3530)	-All Residential 3442-Innes Kitchen & Bath 3469-Heavenly Pastries -Innes Veterinary Clinic 3484-Diamond Dust Lighting Garden Centre -Murphy J Landscape & Design Ltd -Summer Rain Irrigation 3490-Orleans Berryland 3499-Gerard Gauthier Construction
Page Road (2240-2410)	-No Listings Within Radius

PROJECT NUMBER: 20200526116	
Site Address:	3493 and 3497 Innes Road, Orleans, Ontario
Year: 1992	
Site Listing:	3493 – Not Individually Indicated Within Coverage 3497 – Not Individually Indicated Within Coverage

Adjacent Properties:	
Innes Road (3390-3530)	-All Residential 3442-Innes Kitchen & Bath 3469-Heavenly Pastries -Innes Veterinary Clinic 3484-Diamond Dust Lighting Garden Centre -Murphy J Landscape & Design Ltd -Summer Rain Irrigation 3490-Orleans Berryland 3499-Gerard Gauthier Construction
Page Road (2240-2410)	-No Listings Within Radius

*****Orleans, Ontario is listed from 1992 to 2011 within the City Directory Archives*****

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

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



DATABASE REPORT

Project Property: *Gestion Frami Phase One ESA
3493, 3497, and 3499 Innes Road
Ottawa ON K1C 1T1*

Project No: *230028*

Report Type: *RSC Report (Urban)*

Order No: *22102100112*

Requested by: *BluMetric Environmental Inc.*

Date Completed: *October 26, 2022*

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Executive Summary

Property Information:

Project Property: *Gestion Frami Phase One ESA
3493, 3497, and 3499 Innes Road Ottawa ON K1C 1T1*

Project No: 230028

Order Information:

Order No: 22102100112
Date Requested: October 21, 2022
Requested by: *BluMetric Environmental Inc.*
Report Type: *RSC Report (Urban)*

Historical/Products:

ERIS Xplorer [*ERIS Xplorer*](#)
Topographic Map *RSC Maps*

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.30km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	3	3
BORE	<i>Borehole</i>	Y	0	11	11
CA	<i>Certificates of Approval</i>	Y	0	8	8
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	1	1
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	6	6
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	2	2
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	4	4
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	2	19	21
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	5	5
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	2	2
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	20	20
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	1	1
PINC	<i>Pipeline Incidents</i>	Y	0	2	2
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	2	2
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	2	2
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	1	1
SPL	<i>Ontario Spills</i>	Y	0	4	4
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	4	47	51
Total:			6	140	146

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
<u>1</u>	EHS		3493 and 3497 Innes road Orléans ON K1C 1T1	WSW/0.0	0.00	<u>38</u>
<u>1</u>	EHS		3493 and 3497 Innes road Orléans ON K1C 1T1	WSW/0.0	0.00	<u>38</u>
<u>2</u>	WWIS		lot 5 con 2 ON <i>Well ID:</i> 1501218	SSE/0.0	0.00	<u>38</u>
<u>3</u>	WWIS		lot 5 con 2 ON <i>Well ID:</i> 1501219	E/0.0	0.00	<u>41</u>
<u>4</u>	WWIS		3493 Innes rd lot 5 con 2 Ottawa ON <i>Well ID:</i> 7365221	SW/0.0	0.00	<u>43</u>
<u>5</u>	WWIS		3493 Innes road lot 5 con 2 Ottawa ON <i>Well ID:</i> 7365220	WSW/0.0	1.17	<u>47</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
6	WWIS		lot 5 con 2 ON Well ID: 1501229	WSW/8.8	1.00	50
7	WWIS		lot 5 con 2 ON Well ID: 1510714	WSW/18.2	1.00	53
8	WWIS		lot 5 con 2 ON Well ID: 1510715	W/23.6	1.00	56
9	PRT	977998 ONTARIO LTD	3469 INNES RD GLOUCESTER ON K1C1T1	WSW/24.9	1.00	59
9	PRT	977998 ONTARIO LTD	3469 INNES RD GLOUCESTER ON K1C1T1	WSW/24.9	1.00	59
9	SPL	CANADIAN WASTE SERVICES	BEHIND 3469 INNES ROAD. MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K1C 1T1	WSW/24.9	1.00	59
9	GEN	INNES VETERNIARY CLINIC 21-555	3469 INNES ROAD, BAY NO. 7 GLOUCESTER ON K1C 1T1	WSW/24.9	1.00	60
9	GEN	INNES VETERNIARY CLINIC	3469 INNES ROAD BAY NO. 7 GLOUCESTER ON K1C 1T1	WSW/24.9	1.00	60
9	GEN	INNES VETERNIARY CLINIC	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	60
9	FSTH	977998 ONTARIO LTD C/O PRONTO FOOD MART	3469 INNES RD RR 2 ORLEANS ON K1C 1T1	WSW/24.9	1.00	61
9	FSTH	977998 ONTARIO LTD C/O PRONTO FOOD MART	3469 INNES RD RR 2 ORLEANS ON K1C 1T1	WSW/24.9	1.00	61
9	SPL		3469 Innes Road Ottawa ON K1C 1T1	WSW/24.9	1.00	62

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<u>9</u>	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	<u>62</u>
<u>9</u>	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	<u>62</u>
<u>9</u>	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	<u>63</u>
<u>9</u>	FST	2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	WSW/24.9	1.00	<u>63</u>
<u>9</u>	FST	2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	WSW/24.9	1.00	<u>63</u>
<u>9</u>	FST	2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	WSW/24.9	1.00	<u>64</u>
<u>9</u>	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	<u>64</u>
<u>9</u>	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON	WSW/24.9	1.00	<u>65</u>
<u>9</u>	FST	2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	WSW/24.9	1.00	<u>65</u>
<u>9</u>	FST	2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	WSW/24.9	1.00	<u>65</u>
<u>9</u>	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	<u>66</u>
<u>9</u>	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	<u>66</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	66
9	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	67
9	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	67
9	DTNK	2339401 ONTARIO INC	3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA ON	WSW/24.9	1.00	67
9	DTNK	2339401 ONTARIO INC	3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA ON	WSW/24.9	1.00	68
9	DTNK	2339401 ONTARIO INC	3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA ON	WSW/24.9	1.00	69
9	DTNK		3469 INNES RD GLOUCESTER ON K1C 1T1	WSW/24.9	1.00	69
9	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	70
9	GEN	INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	WSW/24.9	1.00	70
10	ECA	Caivan (Orleans Village) Limited	3490 Innes Rd Ottawa ON K2H 1B2	SE/31.9	0.00	70
10	EASR	TAGGART CONSTRUCTION LIMITED	3490 Innes RD Orleans ON K1C 1T1	SE/31.9	0.00	71
10	ECA	Caivan (Orleans Village) Limited	3490 Innes Rd Ottawa ON K2H 1B2	SE/31.9	0.00	71
11	BORE		ON	SW/34.3	0.00	71

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	WWIS		lot 5 con 2 ON Well ID: 1501220	SW/34.4	0.00	72
13	BORE		ON	ENE/48.0	0.00	74
14	WWIS		lot 5 con 2 ON Well ID: 1501224	ENE/51.3	0.00	76
15	EHS		PE4288 - 3484 Innes Road Orléans ON K1C 1T1	SSW/54.6	0.00	78
15	EHS		PE4288 - 3484 Innes Road Orléans ON K1C 1T1	SSW/54.6	0.00	78
16	WWIS		lot 5 con 3 ON Well ID: 1510729	SSE/85.7	0.00	79
17	CA	TOM PYNN/JACQUELINE LOCKE-PT. LOT 5,CON3	PAGE RD./INNES RD. GLOUCESTER CITY ON	SW/86.7	1.00	82
17	CA	R.M. OF OTTAWA-CARLETON	INNES RD. PAGE RD. GLOUCESTER CITY ON	SW/86.7	1.00	82
17	CA	GLOUCESTER CITY	PAGE RD./INNES RD. GLOUCESTER CITY ON	SW/86.7	1.00	82
18	CA	GLOUCESTER CITY - SILVERBIRCH RD.	PAGE RD./INNES RD./BUTTONFIELD GLOUCESTER CITY ON	SW/86.7	1.00	82
18	CA	GLOUCESTER CITY	PAGE RD./INNES RD./MEADOWGLEN GLOUCESTER CITY ON	SW/86.7	1.00	83
19	WWIS		lot 6 con 2 ON Well ID: 1510698	WSW/92.7	1.00	83
20	WWIS		lot 5 con 2 ON	WNW/100.3	1.00	86

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1501225			
21	WWIS		lot 6 con 2 ON	WSW/101.2	1.00	88
			Well ID: 1501239			
22	BORE		ON	E/101.5	0.00	91
23	WWIS		lot 5 con 3 ON	E/101.5	0.00	92
			Well ID: 1501410			
24	WWIS		lot 6 con 2 ON	W/106.0	1.00	94
			Well ID: 1501233			
25	PINC	JEANNINE T KNIGHTON	2305 PAGE RD.,OTTAWA,ON,K1W 1H3, CA ON	S/113.5	0.00	97
25	EHS		2305 Pagé Road Orléans ON K1W 1H3	S/113.5	0.00	98
25	PINC	PIPELINE HIT - 1 1/4"	2305 PAGE RD.,ORLÉANS,ON,K1W 1H3, CA ON	S/113.5	0.00	98
25	EHS		2305 Pagé Road Orléans ON K1W 1H3	S/113.5	0.00	98
25	EHS		2305 Pagé Road Orléans ON K1W 1H3	S/113.5	0.00	99
26	EHS		3554 Innes Road Orléans ON K1C 1T1	E/113.8	0.00	99
26	EHS		3554 Innes Road Orléans ON K1C 1T1	E/113.8	0.00	99
27	WWIS		lot 6 con 2 ON	WSW/114.4	1.00	99
			Well ID: 1501230			

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
28	WWIS		lot 5 con 2 ON Well ID: 1501226	WNW/118.7	1.00	102
29	WWIS		lot 6 con 3 ON Well ID: 1501434	SW/119.0	0.00	104
30	EHS		3443 Innes Rd Ottawa ON K1C1T1	WSW/122.1	1.00	107
30	SPL		3443 Innes Rd. Ottawa ON K1C 1T1	WSW/122.1	1.00	107
31	EHS		2310 Page Road Ottawa ON	SW/126.9	0.00	107
32	WWIS		lot 5 con 2 ON Well ID: 1501215	ENE/129.0	0.00	107
33	RSC	GIBSON PATTERSON	270 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1 Ottawa ON	SE/140.0	0.00	110
34	WWIS		lot 5 con 2 ON Well ID: 1501216	ENE/140.2	0.00	111
35	WWIS		lot 6 con 3 ON Well ID: 1501435	SW/140.4	1.08	113
36	EHS		PE4248 - 3437 Innes Road Orléans ON K1C 7M6	WSW/144.7	1.00	116
36	EHS		PE4248 - 3437 Innes Road Orléans ON K1C 7M6	WSW/144.7	1.00	116
37	WWIS		lot 5 con 2 ON Well ID: 1501200	ENE/153.8	0.00	116
38	BORE		ON	ENE/153.8	0.00	119

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
39	WWIS		lot 5 con 2 ON Well ID: 1509635	NW/159.8	0.00	120
40	WWIS		lot 5 con 2 ON Well ID: 1501228	WNW/160.0	1.00	123
41	BORE		ON	NW/160.0	0.00	126
42	EHS		2305 Page Rd Ottawa ON K1W 1H3	S/163.0	0.00	127
43	WWIS		lot 5 con 2 ON Well ID: 1501201	ENE/165.4	0.00	127
44	WWIS		lot 6 con 2 ON Well ID: 1501238	WSW/166.8	1.00	130
45	WWIS		lot 6 con 3 ON Well ID: 1501436	SW/170.5	0.00	132
46	WWIS		lot 5 con 3 ON Well ID: 1501413	E/173.6	0.00	135
47	EHS		3574 Innes Road Orléans ON K1C 1T1	E/178.7	0.00	138
48	EHS		1813-1835 Loranger Court Ottawa ON K1C	WNW/183.4	1.00	138
48	EHS		1813-1835 Loranger Court Ottawa ON K1C	WNW/183.4	1.00	138
49	RSC	GIBSON PATTERSON	245 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1 Ottawa ON	ESE/186.7	0.00	138
50	WWIS		lot 6 con 3 ON Well ID: 1501423	WSW/193.2	0.00	139

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
51	WWIS		lot 6 con 2 ON Well ID: 1501236	W/194.1	1.00	142
52	WWIS		2084 MONTREAL ROAD OTTAWA ON Well ID: 1535516	W/196.3	1.00	145
53	WWIS		lot 6 con 3 ON Well ID: 1501424	SSW/203.6	0.00	147
54	WWIS		lot 5 con 3 ON Well ID: 1501406	E/203.7	0.00	150
55	CA	RHEAL SIMARD - PT. LOT 5, CONC. 3	PAGE RD./BUTTONFIELD PLACE GLOUCESTER CITY ON	SSW/205.6	0.00	153
56	BORE		ON	W/208.7	1.00	153
57	WWIS		lot 6 con 3 ON Well ID: 1511029	SW/209.3	0.00	154
58	WWIS		lot 6 con 2 ON Well ID: 1501237	WSW/209.9	1.00	157
59	EHS		245/275 ave de lamarche Ottawa ON K1W 1H2	ESE/215.6	0.00	160
59	EHS		245/275 ave de lamarche Ottawa ON K1W 1H2	ESE/215.6	0.00	160
60	WWIS		lot 6 con 3 ON Well ID: 1501441	SSW/226.1	0.00	160
61	WWIS		lot 4 con 3 ON Well ID: 1518180	ENE/228.1	0.00	163
62	CA	MICHEL LAMARCHE ENTERPRISES INC. PRIVATE	MEADOWGLEN DRIVE AT PAGE ROAD GLOUCESTER CITY ON	WNW/240.6	0.00	166

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
63	WWIS		lot 6 con 3 ON <i>Well ID:</i> 1501422	WSW/242.3	0.00	166
64	GEN	Bell	3605 Innes Rd Orleans ON K1C 1T1	ENE/243.5	0.00	169
65	WWIS		lot 6 con 3 ON <i>Well ID:</i> 1501426	SSW/244.5	-0.31	169
66	GEN	BELL CANADA	3605 INNIS ROAD CUMBERLAND TWP. ON K1C 1T1	ENE/247.2	0.00	172
66	GEN	BELL (OUT OF BUSINESS)	3605 INNIS ROAD CUMBERLAND TWP. ON K1C 1T1	ENE/247.2	0.00	172
66	GEN	BELL CANADA	3605 INNIS ORLEANS ON K1C 1T1	ENE/247.2	0.00	173
66	DTNK	Bell Canada	Innis Rd 3605, Orleans ON ORLEANS ON	ENE/247.2	0.00	173
66	CA	Bell Canada	3605 Innes Road Ottawa ON K1C 1T1	ENE/247.2	0.00	173
66	CFOT	BELL CANADA	3605 INNES RD OTTAWA K1C 1T1 ON CA ON	ENE/247.2	0.00	174
66	ECA	Bell Canada	3605 Innes Road Ottawa ON K1C 1T1	ENE/247.2	0.00	174
66	DTNK	BELL CANADA	3605 INNES RD OTTAWA K1C 1T1 ON CA ON	ENE/247.2	0.00	174
66	GEN	Bell	3605 Innes Rd Orleans ON K1C 1T1	ENE/247.2	0.00	175
67	WWIS		lot 5 con 3 ON	ENE/248.2	0.00	175

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1501414			
68	BORE		ON	WSW/249.2	0.00	178
69	ECA	Halo Car Wash Inc.	3604 Innes Road Ottawa ON K0C 1T0	E/250.6	0.00	179
69	EASR	GLENVIEW HOMES (INNES) LTD.	3604 Innes RD Ottawa ON K1C 1T1	E/250.6	0.00	179
70	WWIS		lot 6 con 2 ON Well ID: 1510727	W/254.5	1.00	179
71	BORE		ON	W/254.6	1.00	182
72	WWIS		3604 innes road lot 4 con 3 Ottawa ON Well ID: 7347161	E/255.1	0.00	183
73	WWIS		lot 5 con 2 ON Well ID: 1501227	ENE/256.7	0.00	185
74	EHS		3604 Innes Road Orléans ON K1C 1T1	E/258.5	0.00	188
75	PES		6276 SABLEWOOD PL ORLEANS ON K1C 7M5	WSW/258.6	0.00	188
76	BORE		ON	SSE/260.5	-1.00	189
77	SCT	Caroline's Rub-Fine Spice	6355 Sablewood Pl Orleans ON K1C 7M3	W/263.0	1.00	190
78	WWIS		lot 6 con 3 ON Well ID: 1501442	S/263.6	-1.03	190
79	WWIS		lot 6 con 2 ON	WSW/264.3	0.00	193

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1501234			
80	EHS		2248 Boyer Road Ottawa ON K1C 1R4	ENE/265.5	0.00	196
81	BORE		ON	WSW/265.8	0.00	196
82	WWIS		lot 6 con 3 ON Well ID: 1501440	WSW/266.0	0.00	197
83	WWIS		lot 6 con 3 ON Well ID: 1509636	SW/274.5	0.00	200
84	WWIS		lot 4 con 3 ON Well ID: 1501408	E/276.3	0.95	202
85	WWIS		lot 5 con 2 ON Well ID: 1501209	ENE/277.2	0.00	204
86	BORE		ON	ENE/277.3	0.00	208
87	SPL	City of Ottawa	1708 Aspenview Way Ottawa ON K1C 6S1	NW/279.6	-1.08	209
88	AUWR	ORLEANS BLVD TOWING & RECYCLING	2360 PAGE RD ORLEANS ON K1W 1H3	S/283.6	-1.00	209
88	AUWR	CASH FOR SCRAP	2360 PAGE RD OTTAWA ON K1W 1H3	S/283.6	-1.00	209
88	AUWR	ORLEANS BLVD TOWING & RECYCLING	2360 PAGE RD ORLEANS ON K1W1H3	S/283.6	-1.00	210
89	WWIS		lot 6 con 3 ON Well ID: 1501425	S/293.3	-1.00	210
90	WWIS		lot 6 con 3 ON	S/298.3	-1.00	212

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
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Well ID: 1501443

Executive Summary: Summary By Data Source

AUWR - Automobile Wrecking & Supplies

A search of the AUWR database, dated 1999-May 31, 2022 has found that there are 3 AUWR 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>
CASH FOR SCRAP	2360 PAGE RD OTTAWA ON K1W 1H3	283.6	<u>88</u>
ORLEANS BLVD TOWING & RECYCLING	2360 PAGE RD ORLEANS ON K1W1H3	283.6	<u>88</u>
ORLEANS BLVD TOWING & RECYCLING	2360 PAGE RD ORLEANS ON K1W 1H3	283.6	<u>88</u>

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 11 BORE site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	34.3	<u>11</u>
	ON	48.0	<u>13</u>
	ON	101.5	<u>22</u>
	ON	153.8	<u>38</u>
	ON	160.0	<u>41</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	208.7	56
	ON	249.2	68
	ON	254.6	71
	ON	260.5	76
	ON	265.8	81
	ON	277.3	86

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 8 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>
GLOUCESTER CITY	PAGE RD./INNES RD. GLOUCESTER CITY ON	86.7	17
R.M. OF OTTAWA-CARLETON	INNES RD. PAGE RD. GLOUCESTER CITY ON	86.7	17
TOM PYNN/JACQUELINE LOCKE-PT. LOT 5,CON3	PAGE RD./INNES RD. GLOUCESTER CITY ON	86.7	17

Site	Address	Distance (m)	Map Key
GLOUCESTER CITY	PAGE RD./INNES RD./MEADOWGLEN GLOUCESTER CITY ON	86.7	18
GLOUCESTER CITY - SILVERBIRCH RD.	PAGE RD./INNES RD./BUTTONFIELD GLOUCESTER CITY ON	86.7	18
RHEAL SIMARD - PT. LOT 5, CONC. 3	PAGE RD./BUTTONFIELD PLACE GLOUCESTER CITY ON	205.6	55
MICHEL LAMARCHE ENTERPRISES INC. PRIVATE	MEADOWGLEN DRIVE AT PAGE ROAD GLOUCESTER CITY ON	240.6	62
Bell Canada	3605 Innes Road Ottawa ON K1C 1T1	247.2	66

CFOT - Commercial Fuel Oil Tanks

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

Site	Address	Distance (m)	Map Key
BELL CANADA	3605 INNES RD OTTAWA K1C 1T1 ON CA ON	247.2	66

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Feb 28, 2022 has found that there are 6 DTNK site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	3469 INNES RD GLOUCESTER ON K1C 1T1	24.9	9
2339401 ONTARIO INC	3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA ON	24.9	9

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
2339401 ONTARIO INC	3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA ON	24.9	<u>9</u>
2339401 ONTARIO INC	3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA ON	24.9	<u>9</u>
BELL CANADA	3605 INNES RD OTTAWA K1C 1T1 ON CA ON	247.2	<u>66</u>
Bell Canada	Innis Rd 3605, Orleans ON ORLEANS ON	247.2	<u>66</u>

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011- Aug 31, 2022 has found that there are 2 EASR 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>
TAGGART CONSTRUCTION LIMITED	3490 Innes RD Orleans ON K1C 1T1	31.9	<u>10</u>
GLENVIEW HOMES (INNES) LTD.	3604 Innes RD Ottawa ON K1C 1T1	250.6	<u>69</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Aug 31, 2022 has found that there are 4 ECA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Caivan (Orleans Village) Limited	3490 Innes Rd Ottawa ON K2H 1B2	31.9	<u>10</u>
Caivan (Orleans Village) Limited	3490 Innes Rd Ottawa ON K2H 1B2	31.9	<u>10</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Bell Canada	3605 Innes Road Ottawa ON K1C 1T1	247.2	66
Halo Car Wash Inc.	3604 Innes Road Ottawa ON K0C 1T0	250.6	69

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2022 has found that there are 21 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>
	3493 and 3497 Innes road Orléans ON K1C 1T1	0.0	1
	3493 and 3497 Innes road Orléans ON K1C 1T1	0.0	1
	PE4288 - 3484 Innes Road Orléans ON K1C 1T1	54.6	15
	PE4288 - 3484 Innes Road Orléans ON K1C 1T1	54.6	15
	2305 Pagé Road Orléans ON K1W 1H3	113.5	25
	2305 Pagé Road Orléans ON K1W 1H3	113.5	25
	2305 Pagé Road Orléans ON K1W 1H3	113.5	25
	3554 Innes Road Orléans ON K1C 1T1	113.8	26

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	3554 Innes Road Orléans ON K1C 1T1	113.8	<u>26</u>
	3443 Innes Rd Ottawa ON K1C1T1	122.1	<u>30</u>
	2310 Page Road Ottawa ON	126.9	<u>31</u>
	PE4248 - 3437 Innes Road Orléans ON K1C 7M6	144.7	<u>36</u>
	PE4248 - 3437 Innes Road Orléans ON K1C 7M6	144.7	<u>36</u>
	2305 Page Rd Ottawa ON K1W 1H3	163.0	<u>42</u>
	3574 Innes Road Orléans ON K1C 1T1	178.7	<u>47</u>
	1813-1835 Loranger Court Ottawa ON K1C	183.4	<u>48</u>
	1813-1835 Loranger Court Ottawa ON K1C	183.4	<u>48</u>
	245/275 ave de lamarche Ottawa ON K1W 1H2	215.6	<u>59</u>
	245/275 ave de lamarche Ottawa ON K1W 1H2	215.6	<u>59</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	3604 Innes Road Orléans ON K1C 1T1	258.5	74
	2248 Boyer Road Ottawa ON K1C 1R4	265.5	80

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2022 has found that there are 5 FST 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>
2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	24.9	9
2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	24.9	9
2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	24.9	9
2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	24.9	9
2339401 ONTARIO INC	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	24.9	9

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH 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>
977998 ONTARIO LTD C/O PRONTO FOOD MART	3469 INNES RD RR 2 ORLEANS ON K1C 1T1	24.9	9

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
977998 ONTARIO LTD C/O PRONTO FOOD MART	3469 INNES RD RR 2 ORLEANS ON K1C 1T1	24.9	<u>9</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2022 has found that there are 20 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>
INNES VETERINARY CLINIC 21-555	3469 INNES ROAD, BAY NO. 7 GLOUCESTER ON K1C 1T1	24.9	<u>9</u>
INNES VETERINARY CLINIC	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES ROAD ANIMAL HOSPITAL	3469 INNES ROAD OTTAWA ON K1C 1T1	24.9	<u>9</u>
INNES VETERINARY CLINIC	3469 INNES ROAD BAY NO. 7 GLOUCESTER ON K1C 1T1	24.9	<u>9</u>
Bell	3605 Innes Rd Orleans ON K1C 1T1	243.5	<u>64</u>
Bell	3605 Innes Rd Orleans ON K1C 1T1	247.2	<u>66</u>
BELL CANADA	3605 INNIS ROAD CUMBERLAND TWP. ON K1C 1T1	247.2	<u>66</u>
BELL (OUT OF BUSINESS)	3605 INNIS ROAD CUMBERLAND TWP. ON K1C 1T1	247.2	<u>66</u>
BELL CANADA	3605 INNIS ORLEANS ON K1C 1T1	247.2	<u>66</u>

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Aug 31, 2022 has found that there are 1 PES 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>
	6276 SABLEWOOD PL ORLEANS ON K1C 7M5	258.6	<u>75</u>

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 2 PINC site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
JEANNINE T KNIGHTON	2305 PAGE RD.,OTTAWA,ON,K1W 1H3,CA ON	113.5	<u>25</u>
PIPELINE HIT - 1 1/4"	2305 PAGE RD.,ORLÉANS,ON,K1W 1H3,CA ON	113.5	<u>25</u>

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT 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>
977998 ONTARIO LTD	3469 INNES RD GLOUCESTER ON K1C1T1	24.9	<u>9</u>
977998 ONTARIO LTD	3469 INNES RD GLOUCESTER ON K1C1T1	24.9	<u>9</u>

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Sep 2022 has found that there are 2 RSC 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>
GIBSON PATTERSON	270 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1 Ottawa ON	140.0	33
GIBSON PATTERSON	245 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1 Ottawa ON	186.7	49

SCT - Scott's Manufacturing Directory

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

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Caroline's Rub-Fine Spice	6355 Sablewood Pl Orleans ON K1C 7M3	263.0	77

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020; Dec 2020-Mar 2021 has found that there are 4 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>
	3469 Innes Road Ottawa ON K1C 1T1	24.9	9
CANADIAN WASTE SERVICES	BEHIND 3469 INNES ROAD. MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K1C 1T1	24.9	9
	3443 Innes Rd. Ottawa ON K1C 1T1	122.1	30
City of Ottawa	1708 Aspenview Way Ottawa ON K1C 6S1	279.6	87

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30 2022 has found that there are 51 WWIS site(s) within approximately 0.30 kilometers of the project property.

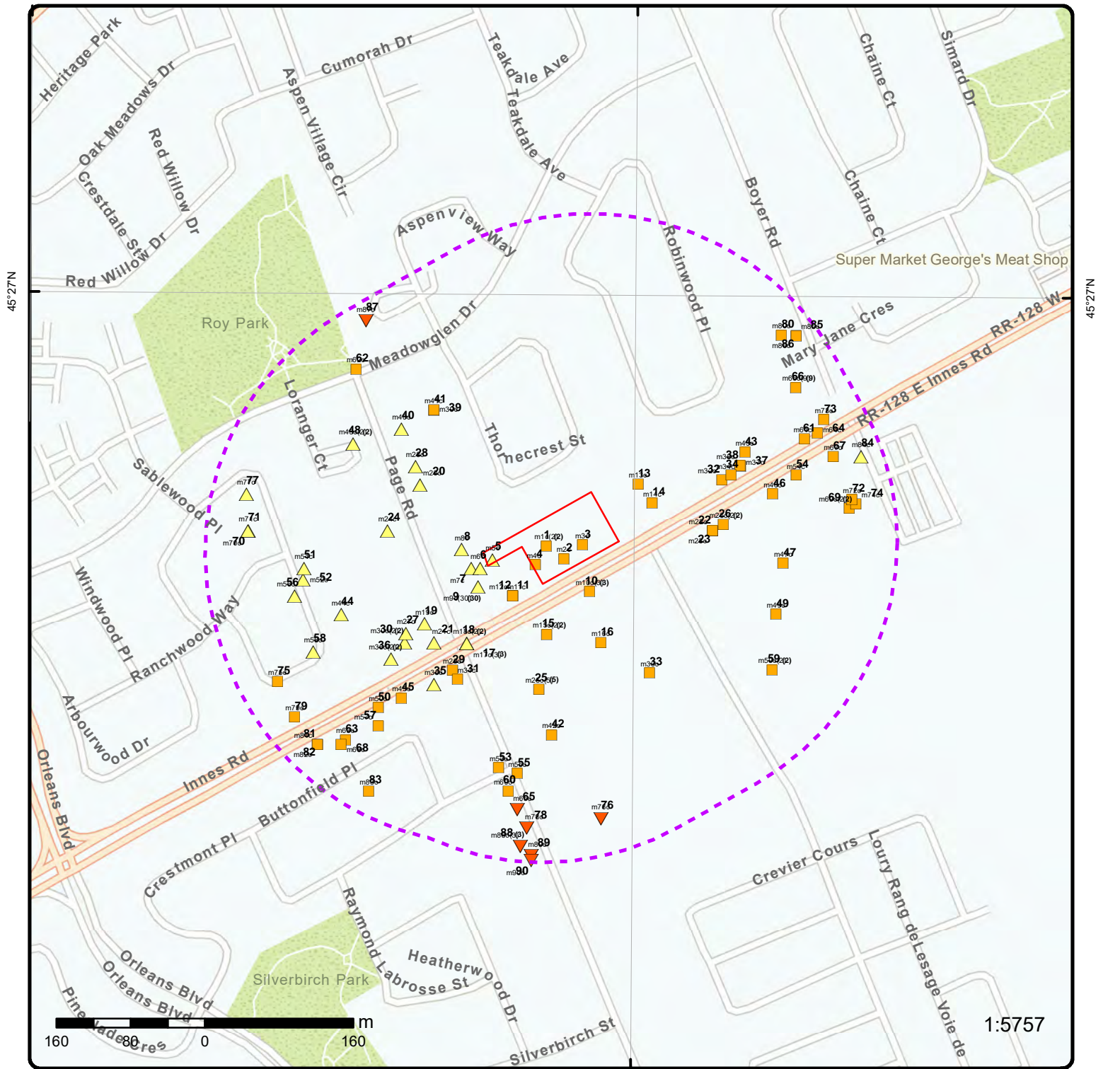
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501218	0.0	<u>2</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501219	0.0	<u>3</u>
	3493 Innes rd lot 5 con 2 Ottawa ON <i>Well ID:</i> 7365221	0.0	<u>4</u>
	3493 Innes road lot 5 con 2 Ottawa ON <i>Well ID:</i> 7365220	0.0	<u>5</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501229	8.8	<u>6</u>
	lot 5 con 2 ON <i>Well ID:</i> 1510714	18.2	<u>7</u>
	lot 5 con 2 ON <i>Well ID:</i> 1510715	23.6	<u>8</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501220	34.4	<u>12</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501224	51.3	<u>14</u>
	lot 5 con 3 ON <i>Well ID:</i> 1510729	85.7	<u>16</u>
	lot 6 con 2 ON <i>Well ID:</i> 1510698	92.7	<u>19</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501225	100.3	<u>20</u>
	lot 6 con 2 ON <i>Well ID:</i> 1501239	101.2	<u>21</u>
	lot 5 con 3 ON <i>Well ID:</i> 1501410	101.5	<u>23</u>
	lot 6 con 2 ON <i>Well ID:</i> 1501233	106.0	<u>24</u>
	lot 6 con 2 ON <i>Well ID:</i> 1501230	114.4	<u>27</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501226	118.7	<u>28</u>
	lot 6 con 3 ON <i>Well ID:</i> 1501434	119.0	<u>29</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501215	129.0	<u>32</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501216	140.2	<u>34</u>
	lot 6 con 3 ON <i>Well ID:</i> 1501435	140.4	<u>35</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501200	153.8	<u>37</u>
	lot 5 con 2 ON	159.8	<u>39</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 1509635		
	lot 5 con 2 ON	160.0	<u>40</u>
	<i>Well ID:</i> 1501228		
	lot 5 con 2 ON	165.4	<u>43</u>
	<i>Well ID:</i> 1501201		
	lot 6 con 2 ON	166.8	<u>44</u>
	<i>Well ID:</i> 1501238		
	lot 6 con 3 ON	170.5	<u>45</u>
	<i>Well ID:</i> 1501436		
	lot 5 con 3 ON	173.6	<u>46</u>
	<i>Well ID:</i> 1501413		
	lot 6 con 3 ON	193.2	<u>50</u>
	<i>Well ID:</i> 1501423		
	lot 6 con 2 ON	194.1	<u>51</u>
	<i>Well ID:</i> 1501236		
	2084 MONTREAL ROAD OTTAWA ON	196.3	<u>52</u>
	<i>Well ID:</i> 1535516		
	lot 6 con 3 ON	203.6	<u>53</u>
	<i>Well ID:</i> 1501424		
	lot 5 con 3 ON	203.7	<u>54</u>
	<i>Well ID:</i> 1501406		
	lot 6 con 3 ON	209.3	<u>57</u>
	<i>Well ID:</i> 1511029		

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 6 con 2 ON <i>Well ID:</i> 1501237	209.9	<u>58</u>
	lot 6 con 3 ON <i>Well ID:</i> 1501441	226.1	<u>60</u>
	lot 4 con 3 ON <i>Well ID:</i> 1518180	228.1	<u>61</u>
	lot 6 con 3 ON <i>Well ID:</i> 1501422	242.3	<u>63</u>
	lot 6 con 3 ON <i>Well ID:</i> 1501426	244.5	<u>65</u>
	lot 5 con 3 ON <i>Well ID:</i> 1501414	248.2	<u>67</u>
	lot 6 con 2 ON <i>Well ID:</i> 1510727	254.5	<u>70</u>
	3604 innes road lot 4 con 3 Ottawa ON <i>Well ID:</i> 7347161	255.1	<u>72</u>
	lot 5 con 2 ON <i>Well ID:</i> 1501227	256.7	<u>73</u>
	lot 6 con 3 ON <i>Well ID:</i> 1501442	263.6	<u>78</u>
	lot 6 con 2 ON <i>Well ID:</i> 1501234	264.3	<u>79</u>
	lot 6 con 3 ON	266.0	<u>82</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 1501440		
	lot 6 con 3 ON	274.5	<u>83</u>
	<i>Well ID:</i> 1509636		
	lot 4 con 3 ON	276.3	<u>84</u>
	<i>Well ID:</i> 1501408		
	lot 5 con 2 ON	277.2	<u>85</u>
	<i>Well ID:</i> 1501209		
	lot 6 con 3 ON	293.3	<u>89</u>
	<i>Well ID:</i> 1501425		
	lot 6 con 3 ON	298.3	<u>90</u>
	<i>Well ID:</i> 1501443		



Map: 0.3 Kilometer Radius

Order Number: 22102100112

Address: 3493, 3497, and 3499 Innes Road, Ottawa, ON



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

75°31'30"W

45°27'N

45°27'N



250 125 0 250 m

1:10000

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Aerial Year: 2022

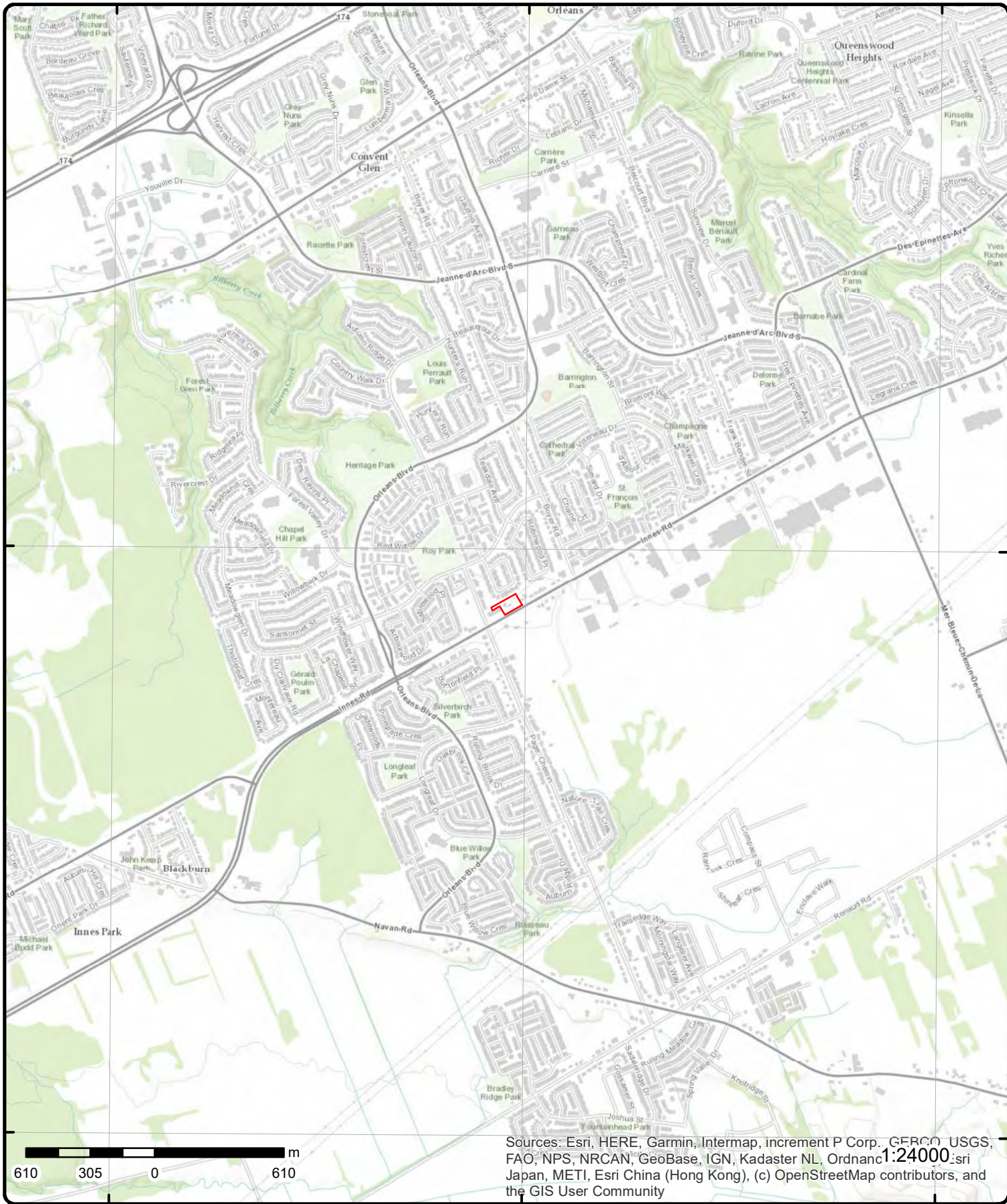
Order Number: 22102100112

Address: 3493, 3497, and 3499 Innes Road, Ottawa, ON



Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: 3493, 3497, and 3499 Innes Road, ON

Source: ESRI World Topographic Map

Order Number: 22102100112



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p>1</p> <p>Order No: 20200526116 Status: C Report Type: RSC Report (Urban) Report Date: 29-MAY-20 Date Received: 26-MAY-20 Previous Site Name: Lot/Building Size: 043 ha Additional Info Ordered: City Directory</p>	1 of 2	WSW/0.0	88.9 / 0.00	3493 and 3497 Innes road Orléans ON K1C 1T1	EHS
<p>Order No: 20200526116 Status: C Report Type: RSC Report (Urban) Report Date: 29-MAY-20 Date Received: 26-MAY-20 Previous Site Name: Lot/Building Size: 043 ha Additional Info Ordered: City Directory</p>	2 of 2	WSW/0.0	88.9 / 0.00	3493 and 3497 Innes road Orléans ON K1C 1T1	EHS
<p>Well ID: 1501218 Construction Date: Use 1st: Domestic Use 2nd: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: GLOUCESTER TOWNSHIP Site Info:</p> <p>PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501218.pdf</p>	1 of 1	SSE/0.0	88.9 / 0.00	lot 5 con 2 ON	WWIS
<p>Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: 1 Date Received: 06-Dec-1960 00:00:00 Selected Flag: TRUE Abandonment Rec: Contractor: 1629 Form Version: 1 Owner: County: OTTAWA-CARLETON Lot: 005 Concession: 02 Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:</p>					

[Additional Detail\(s\) \(Map\)](#)

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

Well Completed Date: 1960/12/06
Year Completed: 1960
Depth (m): 11.2776
Latitude: 45.4474418679155
Longitude: -75.5259526163014
Path: 150\1501218.pdf

Bore Hole Information

Bore Hole ID:	10023261	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458870.80
Code OB Desc:		North83:	5032792.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	06-Dec-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 930991266
Layer: 1
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930991267
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

Method of Construction & Well

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Use</u>					
Method Construction ID:		961501218			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571831			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039415			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		6.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039416			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		37.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501218			
Pump Set At:					
Static Level:		8.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		4.0			
Flowing Rate:					
Recommended Pump Rate:		2.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453911			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	37.0				
Water Found Depth UOM:	ft				
Links					
Bore Hole ID:	10023261			Tag No:	
Depth M:	11.2776			Contractor:	1629
Year Completed:	1960			Path:	150\1501218.pdf
Well Completed Dt:	1960/12/06			Latitude:	45.4474418679155
Audit No:				Longitude:	-75.5259526163014

<u>3</u>	1 of 1	E/0.0	88.9 / 0.00	lot 5 con 2 ON	WWIS
Well ID:	1501219			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	07-May-1962 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	2311
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501219.pdf

Additional Detail(s) (Map)

Well Completed Date: 1962/05/02
Year Completed: 1962
Depth (m): 16.1544
Latitude: 45.4475780578227
Longitude: -75.5256981249693
Path: 150\1501219.pdf

Bore Hole Information

Bore Hole ID:	10023262	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458890.80
Code OB Desc:		North83:	5032807.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	02-May-1962 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991268			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		3.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991269			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		3.0			
Formation End Depth:		53.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961501219			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571832			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039418			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		53.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039417			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501219			
Pump Set At:					
Static Level:		6.0			
Final Level After Pumping:		10.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		5.0			
Flowing Rate:					
Recommended Pump Rate:		5.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453912			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		20.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:		10023262		Tag No:	
Depth M:		16.1544		Contractor:	2311
Year Completed:		1962		Path:	150\1501219.pdf
Well Completed Dt:		1962/05/02		Latitude:	45.4475780578227
Audit No:				Longitude:	-75.5256981249693

4	1 of 1	SW/0.0	88.9 / 0.00	3493 Innes rd lot 5 con 2 Ottawa ON	WWIS
Well ID:		7365221		Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:		Monitoring and Test Hole		Data Entry Status:	
Use 2nd:				Data Src:	
Final Well Status:		Monitoring and Test Hole		Date Received:	14-Aug-2020 00:00:00

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	Z338399			Contractor:	7241
Tag:	A296206			Form Version:	7
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					

Bore Hole Information

Bore Hole ID:	1008444786	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458840.00
Code OB Desc:		North83:	5032786.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	19-Jun-2020 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1008746188
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Mat2 Desc:	SILT
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.3100000023841858
Formation End Depth:	0.9100000262260437
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1008746187
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	77
Mat2 Desc:	LOOSE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		0.3100000023841858			
Formation End Depth UOM:		m			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1008746189			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.9100000262260437			
Formation End Depth:		7.619999885559082			
Formation End Depth UOM:		m			
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1008746271			
Layer:		1			
Plug From:		0.0			
Plug To:		0.3100000023841858			
Plug Depth UOM:		m			
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1008746273			
Layer:		3			
Plug From:		4.269999980926514			
Plug To:		7.619999885559082			
Plug Depth UOM:		m			
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1008746272			
Layer:		2			
Plug From:		0.3100000023841858			
Plug To:		4.269999980926514			
Plug Depth UOM:		m			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1008746373			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		1008746109			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	1008746403				
Layer:	1				
Material:	5				
Open Hole or Material:	PLASTIC				
Depth From:	0.0				
Depth To:	4.570000171661377				
Casing Diameter:	5.19999809265137				
Casing Diameter UOM:	cm				
Casing Depth UOM:	m				
<u>Construction Record - Screen</u>					
Screen ID:	1008746433				
Layer:	1				
Slot:	10				
Screen Top Depth:	4.570000171661377				
Screen End Depth:	7.619999885559082				
Screen Material:	5				
Screen Depth UOM:	m				
Screen Diameter UOM:	cm				
Screen Diameter:	6.03000020980835				
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:					
Pump Test ID:	1008746463				
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:	m				
Rate UOM:	LPM				
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:	0				
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
<u>Hole Diameter</u>					
Hole ID:	1008746342				
Diameter:	8.890000343322754				
Depth From:	1.2200000286102295				
Depth To:	7.619999885559082				
Hole Depth UOM:	m				
Hole Diameter UOM:	cm				
<u>Hole Diameter</u>					
Hole ID:	1008746341				
Diameter:	11.430000305175781				
Depth From:	0.0				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		1.2200000286102295			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
Links					
Bore Hole ID:	1008444786			Tag No:	A296206
Depth M:	7.62			Contractor:	7241
Year Completed:	2020			Path:	736\7365221.pdf
Well Completed Dt:	2020/06/19			Latitude:	45.4473860486948
Audit No:	Z338399			Longitude:	-75.5263459620241

5	1 of 1	WSW/0.0	90.1 / 1.17	3493 Innes road lot 5 con 2 Ottawa ON	WWIS
Well ID:	7365220			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Monitoring and Test Hole			Data Entry Status:	
Use 2nd:				Data Src:	
Final Well Status:	Monitoring and Test Hole			Date Received:	14-Aug-2020 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	Z338400			Contractor:	7241
Tag:	A296207			Form Version:	7
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

Bore Hole Information

Bore Hole ID:	1008444783			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	458794.00
Code OB Desc:				North83:	5032791.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	19-Jun-2020 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Loc Method Desc:	on Water Well Record				
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock

Materials Interval

Formation ID:	1008746184
Layer:	1
Color:	6
General Color:	BROWN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:		77			
Mat2 Desc:		LOOSE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		0.3100000023841858			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1008746186			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:		74			
Mat3 Desc:		LAYERED			
Formation Top Depth:		0.9100000262260437			
Formation End Depth:		7.619999885559082			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1008746185			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:		85			
Mat3 Desc:		SOFT			
Formation Top Depth:		0.3100000023841858			
Formation End Depth:		0.9100000262260437			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1008746269			
Layer:		2			
Plug From:		0.3100000023841858			
Plug To:		4.269999980926514			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1008746270			
Layer:		3			
Plug From:		4.269999980926514			
Plug To:		7.619999885559082			
Plug Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1008746268			
Layer:		1			
Plug From:		0.0			
Plug To:		0.3100000023841858			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1008746372			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1008746108			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1008746402			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0.0			
Depth To:		4.570000171661377			
Casing Diameter:		5.199999809265137			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1008746432			
Layer:		1			
Slot:		10			
Screen Top Depth:		4.570000171661377			
Screen End Depth:		7.619999885559082			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03000020980835			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:					
Pump Test ID:		1008746462			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

0

Hole Diameter

Hole ID: 1008746339
Diameter: 11.430000305175781
Depth From: 0.0
Depth To: 1.2200000286102295
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1008746340
Diameter: 8.890000343322754
Depth From: 1.2200000286102295
Depth To: 7.619999885559082
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID:	1008444783	Tag No:	A296207
Depth M:	7.62	Contractor:	7241
Year Completed:	2020	Path:	736\7365220.pdf
Well Completed Dt:	2020/06/19	Latitude:	45.4474283408554
Audit No:	Z338400	Longitude:	-75.5269345949611

6

1 of 1

WSW/8.8

89.9 / 1.00

lot 5 con 2
ON

WWIS

Well ID:	1501229	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Commerical	Data Entry Status:	
Use 2nd:	Domestic	Data Src:	1
Final Well Status:	Water Supply	Date Received:	29-Feb-1968 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	1504
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliability:		Lot:	005
Depth to Bedrock:		Concession:	02
Well Depth:		Concession Name:	OF
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501229.pdf

Additional Detail(s) (Map)

Well Completed Date: 1967/09/20
Year Completed: 1967

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth (m):		14.6304			
Latitude:		45.447346554524			
Longitude:		-75.5271026324045			
Path:		150\1501229.pdf			

Bore Hole Information

Bore Hole ID:	10023272	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458780.80
Code OB Desc:		North83:	5032782.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	20-Sep-1967 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	930991288
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	930991289
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	48.0
Formation End Depth UOM:	ft

Method of Construction & Well

Use

Method Construction ID:	961501229
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction Code:	7				
Method Construction:	Diamond				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	10571842				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930039439				
Layer:	2				
Material:	4				
Open Hole or Material:	OPEN HOLE				
Depth From:					
Depth To:	48.0				
Casing Diameter:	2.0				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Casing</u>					
Casing ID:	930039438				
Layer:	1				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:					
Depth To:	16.0				
Casing Diameter:	2.0				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:	PUMP				
Pump Test ID:	991501229				
Pump Set At:					
Static Level:	20.0				
Final Level After Pumping:	20.0				
Recommended Pump Depth:	20.0				
Pumping Rate:	8.0				
Flowing Rate:					
Recommended Pump Rate:	6.0				
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:	1				
Water State After Test:	CLEAR				
Pumping Test Method:	1				
Pumping Duration HR:	2				
Pumping Duration MIN:	0				
Flowing:	No				
<u>Water Details</u>					
Water ID:	933453923				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	48.0				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB	
Water Found Depth UOM:		ft				
Links						
Bore Hole ID:	10023272			Tag No:		
Depth M:	14.6304			Contractor:	1504	
Year Completed:	1967			Path:	150\1501229.pdf	
Well Completed Dt:	1967/09/20			Latitude:	45.447346554524	
Audit No:				Longitude:	-75.5271026324045	

<u>7</u>	1 of 1	WSW/18.2	89.9 / 1.00	lot 5 con 2 ON	WWIS
Well ID:	1510714			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	23-Feb-1971 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510714.pdf				

Additional Detail(s) (Map)

Well Completed Date:	1970/05/09
Year Completed:	1970
Depth (m):	11.5824
Latitude:	45.4473459643637
Longitude:	-75.5272305048956
Path:	151\1510714.pdf

Bore Hole Information

Bore Hole ID:	10032731	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458770.80
Code OB Desc:		North83:	5032782.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	09-May-1970 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			

Supplier Comment:

**Overburden and Bedrock
Materials Interval**

Formation ID: 931015638
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 38.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931015637
Layer: 1
Color: 2
General Color: GREY
Mat1: 26
Most Common Material: ROCK
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961510714
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10581301
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930058029
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 38.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		930058028			
Layer:		1			
Material:		2			
Open Hole or Material:		GALVANIZED			
Depth From:					
Depth To:		20.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991510714			
Pump Set At:					
Static Level:		4.0			
Final Level After Pumping:		15.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934641199			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		15.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934380040			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		15.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097305			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		15.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934897985			
Test Type:		Draw Down			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Duration:		60			
Test Level:		15.0			
Test Level UOM:		ft			

Water Details

Water ID: 933465747
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 38.0
Water Found Depth UOM: ft

Links

Bore Hole ID:	10032731	Tag No:	
Depth M:	11.5824	Contractor:	1504
Year Completed:	1970	Path:	151\1510714.pdf
Well Completed Dt:	1970/05/09	Latitude:	45.4473459643637
Audit No:		Longitude:	-75.5272305048956

<u>8</u>	1 of 1	W/23.6	89.9 / 1.00	lot 5 con 2 ON	WWIS
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Well ID:	1510715	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:	0	Data Src:	1
Final Well Status:	Water Supply	Date Received:	23-Feb-1971 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	1504
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliabilty:		Lot:	005
Depth to Bedrock:		Concession:	02
Well Depth:		Concession Name:	OF
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510715.pdf

Additional Detail(s) (Map)

Well Completed Date: 1970/04/03
Year Completed: 1970
Depth (m): 9.7536
Latitude: 45.4475253908
Longitude: -75.5273600548505
Path: 151\1510715.pdf

Bore Hole Information

Bore Hole ID:	10032732	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458760.80

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB Desc:				North83:	5032802.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	03-Apr-1970 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Loc Method Desc:		Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock

Materials Interval

Formation ID: 931015639
Layer: 1
Color: 2
General Color: GREY
Mat1: 26
Most Common Material: ROCK
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931015640
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 32.0
Formation End Depth UOM: ft

Method of Construction & Well

Use

Method Construction ID: 961510715
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10581302
Casing No: 1
Comment:
Alt Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:			930058031		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			32.0		
Casing Diameter:					
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Construction Record - Casing</u>					
Casing ID:			930058030		
Layer:			1		
Material:			2		
Open Hole or Material:			GALVANIZED		
Depth From:					
Depth To:			20.0		
Casing Diameter:			2.0		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:			PUMP		
Pump Test ID:			991510715		
Pump Set At:					
Static Level:			4.0		
Final Level After Pumping:			20.0		
Recommended Pump Depth:			20.0		
Pumping Rate:			10.0		
Flowing Rate:					
Recommended Pump Rate:			6.0		
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			1		
Water State After Test:			CLEAR		
Pumping Test Method:			1		
Pumping Duration HR:			2		
Pumping Duration MIN:			0		
Flowing:			No		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934380041		
Test Type:			Draw Down		
Test Duration:			30		
Test Level:			20.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934097306		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			15.0		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID: 934641200					
Test Type: Draw Down					
Test Duration: 45					
Test Level: 20.0					
Test Level UOM: ft					
Draw Down & Recovery					
Pump Test Detail ID: 934897986					
Test Type: Draw Down					
Test Duration: 60					
Test Level: 20.0					
Test Level UOM: ft					
Water Details					
Water ID: 933465748					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 32.0					
Water Found Depth UOM: ft					
Links					
Bore Hole ID: 10032732		Tag No:			
Depth M: 9.7536		Contractor: 1504			
Year Completed: 1970		Path: 151\1510715.pdf			
Well Completed Dt: 1970/04/03		Latitude: 45.4475253908			
Audit No:		Longitude: -75.5273600548505			
9	1 of 30	WSW/24.9	89.9 / 1.00	977998 ONTARIO LTD 3469 INNES RD GLOUCESTER ON K1C1T1	PRT
Location ID: 5294					
Type: retail					
Expiry Date: 1994-11-30					
Capacity (L): 113500					
Licence #: 0076376011					
9	2 of 30	WSW/24.9	89.9 / 1.00	977998 ONTARIO LTD 3469 INNES RD GLOUCESTER ON K1C1T1	PRT
Location ID: 5294					
Type: retail					
Expiry Date: 1995-04-30					
Capacity (L): 0					
Licence #: 0076416569					
9	3 of 30	WSW/24.9	89.9 / 1.00	CANADIAN WASTE SERVICES BEHIND 3469 INNES ROAD. MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K1C 1T1	SPL
Ref No: 225610		Discharger Report:			
Site No:		Material Group:			
Incident Dt: 5/16/2002		Health/Env Conseq:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Year:				Client Type:	
Incident Cause:	PIPE/HOSE LEAK			Sector Type:	
Incident Event:				Agency Involved:	
Contaminant Code:				Nearest Watercourse:	
Contaminant Name:				Site Address:	
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:	POSSIBLE			Site Municipality:	20107
Nature of Impact:	Soil contamination			Site Lot:	
Receiving Medium:	LAND			Site Conc:	
Receiving Env:				Northing:	
MOE Response:				Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	5/16/2002			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	
Incident Reason:	EQUIPMENT FAILURE			Source Type:	
Site Name:					
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	CDN WASTE-UKN QUANTITY HYDRAULIC OIL TO LOT, CONTAINED.				
Contaminant Qty:					

9	4 of 30	WSW/24.9	89.9 / 1.00	INNES VETERINARY CLINIC 21-555 3469 INNES ROAD, BAY NO. 7 GLOUCESTER ON K1C 1T1	GEN
Generator No:	ON1549600			Status:	
SIC Code:	0211			Co Admin:	
SIC Description:	VETERINARY SERVICE			Choice of Contact:	
Approval Years:	92,93,94,95,96,97,98			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
Detail(s)					
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				

9	5 of 30	WSW/24.9	89.9 / 1.00	INNES VETERINARY CLINIC 3469 INNES ROAD BAY NO. 7 GLOUCESTER ON K1C 1T1	GEN
Generator No:	ON1549600			Status:	
SIC Code:	0211			Co Admin:	
SIC Description:	VETERINARY SERVICE			Choice of Contact:	
Approval Years:	99,00,01			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
Detail(s)					
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				

9	6 of 30	WSW/24.9	89.9 / 1.00	INNES VETERINARY CLINIC 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
Generator No:	ON1549600			Status:	
SIC Code:				Co Admin:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Description: Approval Years: 02,03,04,05,06 PO Box No: Country:				Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:		312 PATHOLOGICAL WASTES			

<u>9</u>	7 of 30	WSW/24.9	89.9 / 1.00	977998 ONTARIO LTD C/O PRONTO FOOD MART 3469 INNES RD RR 2 ORLEANS ON K1C 1T1	FSTH
License Issue Date: Tank Status: Tank Status As Of: Operation Type: Facility Type:		9/27/2002 Licensed August 2007 Retail Fuel Outlet Gasoline Station - Self Serve			
<u>--Details--</u>					
Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type:		Active 1987 45480 Liquid Fuel Single Wall UST - Gasoline			
Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type:		Active 1987 45480 Liquid Fuel Single Wall UST - Gasoline			
Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type:		Active 1987 22730 Liquid Fuel Single Wall UST - Gasoline			

<u>9</u>	8 of 30	WSW/24.9	89.9 / 1.00	977998 ONTARIO LTD C/O PRONTO FOOD MART 3469 INNES RD RR 2 ORLEANS ON K1C 1T1	FSTH
License Issue Date: Tank Status: Tank Status As Of: Operation Type: Facility Type:		9/27/2002 Licensed December 2008 Retail Fuel Outlet Gasoline Station - Self Serve			
<u>--Details--</u>					
Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type:		Active 1987 45480 Liquid Fuel Single Wall UST - Gasoline			
Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type:		Active 1987 45480 Liquid Fuel Single Wall UST - Gasoline			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 22730
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

9	9 of 30	WSW/24.9	89.9 / 1.00	3469 Innes Road Ottawa ON K1C 1T1	SPL
Ref No: 3818-89J98D Site No: Incident Dt: Year: Incident Cause: Other Discharges Incident Event: Contaminant Code: 15 Contaminant Name: ENGINE OIL Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Not Anticipated Nature of Impact: Receiving Medium: Receiving Env: MOE Response: No Field Response Dt MOE Arvl on Scn: MOE Reported Dt: 9/22/2010 Dt Document Closed: 9/23/2010 Incident Reason: Equipment Failure Site Name: Sewer<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: OC Transpo - 50 L engine oil to sewer Contaminant Qty: 50 L		Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Motor Vehicle Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Watercourse Spills Source Type:			

9	10 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
Generator No: ON1549600 SIC Code: 541940 SIC Description: Veterinary Services Approval Years: 2009 PO Box No: Country:		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:			
<u>Detail(s)</u>					
Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES					

9	11 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
Generator No: ON1549600 SIC Code: 541940 SIC Description: Veterinary Services Approval Years: 2010 PO Box No:		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility:			

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

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

<u>9</u>	12 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
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Generator No:	ON1549600	Status:	
SIC Code:	541940	Co Admin:	
SIC Description:	Veterinary Services	Choice of Contact:	
Approval Years:	2011	Phone No Admin:	
PO Box No:		Contam. Facility:	
Country:		MHSW Facility:	

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

<u>9</u>	13 of 30	WSW/24.9	89.9 / 1.00	2339401 ONTARIO INC 3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	FST
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Instance No:	10762616	Manufacturer:	
Status:		Serial No:	
Cont Name:		Ulc Standard:	
Instance Type:	FS Liquid Fuel Tank	Quantity:	
Item:		Unit of Measure:	
Item Description:	FS Liquid Fuel Tank	Fuel Type:	Gasoline
Tank Type:	Single Wall UST	Fuel Type2:	NULL
Install Date:	5/13/2009	Fuel Type3:	NULL
Install Year:	1987	Piping Steel:	
Years in Service:		Piping Galvanized:	
Model:	NULL	Tanks Single Wall St:	
Description:		Piping Underground:	
Capacity:	45480	No Underground:	
Tank Material:	Fiberglass (FRP)	Panam Related:	
Corrosion Protect:	Fiberglass	Panam Venue:	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA		

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: 2339401 ONTARIO INC
Item: FS LIQUID FUEL TANK

<u>9</u>	14 of 30	WSW/24.9	89.9 / 1.00	2339401 ONTARIO INC 3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	FST
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Instance No:	10762631	Manufacturer:	
Status:		Serial No:	
Cont Name:		Ulc Standard:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Instance Type:	FS Liquid Fuel Tank			Quantity:	
Item:				Unit of Measure:	
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Single Wall UST			Fuel Type2:	NULL
Install Date:	5/13/2009			Fuel Type3:	NULL
Install Year:	1987			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	22730			No Underground:	
Tank Material:	Fiberglass (FRP)			Panam Related:	
Corrosion Protect:	Fiberglass			Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:	FS Gasoline Station - Self Serve				
Facility Location:					
Device Installed Location:	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA				
<u>Liquid Fuel Tank Details</u>					
Overfill Protection:					
Owner Account Name:	2339401 ONTARIO INC				
Item:	FS LIQUID FUEL TANK				

<u>9</u>	15 of 30	WSW/24.9	89.9 / 1.00	2339401 ONTARIO INC 3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	FST
Instance No:	10762598			Manufacturer:	
Status:				Serial No:	
Cont Name:				Ulc Standard:	
Instance Type:	FS Liquid Fuel Tank			Quantity:	
Item:				Unit of Measure:	
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Single Wall UST			Fuel Type2:	NULL
Install Date:	5/13/2009			Fuel Type3:	NULL
Install Year:	1987			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	45480			No Underground:	
Tank Material:	Fiberglass (FRP)			Panam Related:	
Corrosion Protect:	Fiberglass			Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:	FS Gasoline Station - Self Serve				
Facility Location:					
Device Installed Location:	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA				
<u>Liquid Fuel Tank Details</u>					
Overfill Protection:					
Owner Account Name:	2339401 ONTARIO INC				
Item:	FS LIQUID FUEL TANK				

<u>9</u>	16 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
Generator No:	ON1549600			Status:	
SIC Code:	541940			Co Admin:	
SIC Description:	Veterinary Services			Choice of Contact:	
Approval Years:	2012			Phone No Admin:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
PO Box No: Country:				Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:		312 PATHOLOGICAL WASTES			
<u>9</u>	17 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON	GEN
Generator No: ON1549600 SIC Code: 541940 SIC Description: VETERINARY SERVICES Approval Years: 2013 PO Box No: Country:		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:			
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:		312 PATHOLOGICAL WASTES			
<u>9</u>	18 of 30	WSW/24.9	89.9 / 1.00	2339401 ONTARIO INC 3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	FST
Instance No: 64701573 Status: Cont Name: Instance Type: FS Liquid Fuel Tank Item: Item Description: FS Liquid Fuel Tank Tank Type: Double Wall UST Install Date: 9/21/2015 11:53:35 AM Install Year: 2015 Years in Service: Model: NULL Description: Capacity: 65000 Tank Material: Fiberglass (FRP) Corrosion Protect: Fiberglass Overfill Protect: Facility Type: FS Liquid Fuel Tank Parent Facility Type: FS Gasoline Station - Self Serve Facility Location: Device Installed Location: 3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Gasoline Fuel Type2: Diesel Fuel Type3: NULL Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: No Underground: Panam Related: Panam Venue:			
<u>Liquid Fuel Tank Details</u>					
Overfill Protection: Owner Account Name: 2339401 ONTARIO INC Item: FS LIQUID FUEL TANK					
<u>9</u>	19 of 30	WSW/24.9	89.9 / 1.00	2339401 ONTARIO INC 3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA ON	FST
Instance No: 64701574 Status:		Manufacturer: Serial No:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cont Name:				Ulc Standard:	
Instance Type:	FS Liquid Fuel Tank			Quantity:	
Item:				Unit of Measure:	
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Double Wall UST			Fuel Type2:	Gasoline
Install Date:	9/21/2015 11:53:35 AM			Fuel Type3:	NULL
Install Year:	2015			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	65000			No Underground:	
Tank Material:	Fiberglass (FRP)			Panam Related:	
Corrosion Protect:	Fiberglass			Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:	FS Gasoline Station - Self Serve				
Facility Location:					
Device Installed Location:	3469 INNES RD RR 2 ORLÉANS K1C 1T1 ON CA				

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: 2339401 ONTARIO INC
Item: FS LIQUID FUEL TANK

<u>9</u>	20 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
Generator No:	ON1549600			Status:	
SIC Code:	541940			Co Admin:	
SIC Description:	VETERINARY SERVICES			Choice of Contact:	CO_OFFICIAL
Approval Years:	2016			Phone No Admin:	
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

<u>9</u>	21 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
Generator No:	ON1549600			Status:	
SIC Code:	541940			Co Admin:	
SIC Description:	VETERINARY SERVICES			Choice of Contact:	CO_OFFICIAL
Approval Years:	2015			Phone No Admin:	
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

<u>9</u>	22 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Generator No:	ON1549600			Status:	
SIC Code:	541940			Co Admin:	
SIC Description:	VETERINARY SERVICES			Choice of Contact:	CO_OFFICIAL
Approval Years:	2014			Phone No Admin:	
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

9 23 of 30 WSW/24.9 89.9 / 1.00 **INNES ROAD ANIMAL HOSPITAL**
3469 INNES ROAD
OTTAWA ON K1C 1T1 **GEN**

Generator No: ON1549600 **Status:** Registered
SIC Code: **Co Admin:**
SIC Description: **Choice of Contact:**
Approval Years: As of Dec 2018 **Phone No Admin:**
PO Box No: **Contam. Facility:**
Country: Canada **MHSW Facility:**

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

9 24 of 30 WSW/24.9 89.9 / 1.00 **INNES ROAD ANIMAL HOSPITAL**
3469 INNES ROAD
OTTAWA ON K1C 1T1 **GEN**

Generator No: ON1549600 **Status:** Registered
SIC Code: **Co Admin:**
SIC Description: **Choice of Contact:**
Approval Years: As of Jul 2020 **Phone No Admin:**
PO Box No: **Contam. Facility:**
Country: Canada **MHSW Facility:**

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

9 25 of 30 WSW/24.9 89.9 / 1.00 **2339401 ONTARIO INC**
3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA
ON **DTNK**

Delisted Expired Fuel Safety Facilities

Instance No: 10762631 **Expired Date:**
Status: Inactive **Max Hazard Rank:** NULL
Instance ID: **Facility Location:** 3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA
Instance Type: **Facility Type:** FS LIQUID FUEL TANK
Instance Creation Dt: 7/19/2000 8:15:15 PM **Fuel Type 2:** NULL
Instance Install Dt: 5/13/2009 **Fuel Type 3:** NULL
Item Description: FS Liquid Fuel Tank **Panam Related:** NULL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Manufacturer:	NULL			Panam Venue Nm:	NULL
Model:	NULL			External Identifier:	NULL
Serial No:	NULL			Item:	
ULC Standard:	NULL			Piping Steel:	
Quantity:	1			Piping Galvanized:	
Unit of Measure:	EA			Tank Single Wall St:	
Overfill Prot Type:	NULL			Piping Underground:	
Creation Date:	7/5/2009 1:20:47 AM			Tank Underground:	
Next Periodic Str DT:	NULL			Source:	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL				
TSSAMax Hazard Rank 1:	NULL				
TSSA Risk Based Periodic Yn:	NULL				
TSSA Volume of Directives:	NULL				
TSSA Periodic Exempt:	NULL				
TSSA Statutory Interval:	NULL				
TSSA Recd Insp Interva:	NULL				
TSSA Recd Tolerance:	NULL				
TSSA Program Area:	NULL				
TSSA Program Area 2:	NULL				
Description:	2009VBS; UNDERGROUND TANK				
Original Source:	EXP				
Record Date:	31-JUL-2020				

9 26 of 30 WSW/24.9 89.9 / 1.00 2339401 ONTARIO INC
3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA DTNK
ON

Delisted Expired Fuel Safety Facilities

Instance No:	10762616			Expired Date:	
Status:	Inactive			Max Hazard Rank:	NULL
Instance ID:				Facility Location:	3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA
Instance Type:				Facility Type:	FS LIQUID FUEL TANK
Instance Creation Dt:	7/19/2000 8:15:15 PM			Fuel Type 2:	NULL
Instance Install Dt:	5/13/2009			Fuel Type 3:	NULL
Item Description:	FS Liquid Fuel Tank			Panam Related:	NULL
Manufacturer:	NULL			Panam Venue Nm:	NULL
Model:	NULL			External Identifier:	NULL
Serial No:	NULL			Item:	
ULC Standard:	NULL			Piping Steel:	
Quantity:	1			Piping Galvanized:	
Unit of Measure:	EA			Tank Single Wall St:	
Overfill Prot Type:	NULL			Piping Underground:	
Creation Date:	7/5/2009 1:20:37 AM			Tank Underground:	
Next Periodic Str DT:	NULL			Source:	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL				
TSSAMax Hazard Rank 1:	NULL				
TSSA Risk Based Periodic Yn:	NULL				
TSSA Volume of Directives:	NULL				
TSSA Periodic Exempt:	NULL				
TSSA Statutory Interval:	NULL				
TSSA Recd Insp Interva:	NULL				
TSSA Recd Tolerance:	NULL				
TSSA Program Area:	NULL				
TSSA Program Area 2:	NULL				
Description:	2009VBS; UNDERGROUND TANK				
Original Source:	EXP				
Record Date:	31-JUL-2020				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	27 of 30	WSW/24.9	89.9 / 1.00	2339401 ONTARIO INC 3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10762598	Expired Date:	
Status:	Inactive	Max Hazard Rank:	NULL
Instance ID:		Facility Location:	3469 INNES RD RR 2 ORLEANS K1C 1T1 ON CA
Instance Type:		Facility Type:	FS LIQUID FUEL TANK
Instance Creation Dt:	7/19/2000 8:15:15 PM	Fuel Type 2:	NULL
Instance Install Dt:	5/13/2009	Fuel Type 3:	NULL
Item Description:	FS Liquid Fuel Tank	Panam Related:	NULL
Manufacturer:	NULL	Panam Venue Nm:	NULL
Model:	NULL	External Identifier:	NULL
Serial No:	NULL	Item:	
ULC Standard:	NULL	Piping Steel:	
Quantity:	1	Piping Galvanized:	
Unit of Measure:	EA	Tank Single Wall St:	
Overfill Prot Type:	NULL	Piping Underground:	
Creation Date:	7/5/2009 1:20:51 AM	Tank Underground:	
Next Periodic Str DT:	NULL	Source:	FS Liquid Fuel Tank
TSSA Base Sched Cycle 2:	NULL		
TSSAMax Hazard Rank 1:	NULL		
TSSA Risk Based Periodic Yn:	NULL		
TSSA Volume of Directives:	NULL		
TSSA Periodic Exempt:	NULL		
TSSA Statutory Interval:	NULL		
TSSA Recd Insp Interva:	NULL		
TSSA Recd Tolerance:	NULL		
TSSA Program Area:	NULL		
TSSA Program Area 2:	NULL		
Description:	2009VBS; UNDERGROUND TANK		
Original Source:	EXP		
Record Date:	31-JUL-2020		

9	28 of 30	WSW/24.9	89.9 / 1.00	3469 INNES RD GLOUCESTER ON K1C 1T1	DTNK
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Delisted Fuel Storage Tank

Instance No:	9796661	Creation Date:	
Status:	Active	Overfill Prot Type:	
Instance Type:		Facility Location:	
Fuel Type:		Piping SW Steel:	0
Cont Name:		Piping SW Galvan:	0
Capacity:		Tanks SW Steel:	0
Tank Material:		Piping Underground:	3
Corrosion Prot:		No Underground:	5
Tank Type:		Max Hazard Rank:	
Install Year:		Max Hazard Rank 1:	
Facility Type:		Nxt Period Start Dt:	
Device Installed Loc:		Program Area 1:	
Fuel Type 2:		Program Area 2:	
Fuel Type 3:		Nxt Period Strt Dt 2:	
Item:	FS GASOLINE STATION - SELF SERVE	Risk Based Periodic:	
Item Description:		Vol of Directives:	
Model:		Years in Service:	
Description:		Created Date:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Instance Creation Dt: Instance Install Dt: Manufacturer: Serial No: ULC Standard: Quantity: Unit of Measure: Parent Fac Type: TSSA Base Sched Cycle 1: TSSA Base Sched Cycle 2: Original Source: Record Date:		FST 31-MAY-2021		Federal Device: Periodic Exempt: Statutory Interval: Rcomnd Insp Interval: Recommended Toler: Panam Venue Name: External Identifier:	
<u>9</u>	29 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country:		ON1549600 As of Nov 2021 Canada		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
Waste Class: Waste Class Desc:		312 P Pathological wastes			
<u>9</u>	30 of 30	WSW/24.9	89.9 / 1.00	INNES ROAD ANIMAL HOSPITAL 3469 INNES ROAD OTTAWA ON K1C 1T1	GEN
Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country:		ON1549600 As of Apr 2022 Canada		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
Waste Class: Waste Class Desc:		312 P PATHOLOGICAL WASTES			
<u>10</u>	1 of 3	SE/31.9	88.9 / 0.00	Caivan (Orleans Village) Limited 3490 Innes Rd Ottawa ON K2H 1B2	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link: PDF Site Location:		8272-B27KVJ 2018-07-06 Approved ECA IDS ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS Caivan (Orleans Village) Limited 3490 Innes Rd		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/6099-AZYKDA-14.pdf			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	2 of 3	SE/31.9	88.9 / 0.00	TAGGART CONSTRUCTION LIMITED 3490 Innes RD Orleans ON K1C 1T1	EASR
Approval No:	R-009-6110523524			MOE District:	Ottawa
Status:	REGISTERED			Municipality:	Orleans
Date:	2018-07-12			Latitude:	45.44666667
Record Type:	EASR			Longitude:	-75.52694444
Link Source:	MOFA			Geometry X:	
Project Type:	Water Taking - Construction Dewatering			Geometry Y:	
Full Address:					
Approval Type:	EASR-Water Taking - Construction Dewatering				
SWP Area Name:	Rideau Valley				
PDF URL:					
PDF Site Location:					
10	3 of 3	SE/31.9	88.9 / 0.00	Caivan (Orleans Village) Limited 3490 Innes Rd Ottawa ON K2H 1B2	ECA
Approval No:	4606-B8WKUV			MOE District:	
Approval Date:	2019-02-08			City:	
Status:	Approved			Longitude:	
Record Type:	ECA			Latitude:	
Link Source:	IDS			Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Business Name:	Caivan (Orleans Village) Limited				
Address:	3490 Innes Rd				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4997-B8QTD-14.pdf				
PDF Site Location:					
11	1 of 1	SW/34.3	88.9 / 0.00	ON	BORE
Borehole ID:	615215			Inclin FLG:	No
OGF ID:	215516157			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	JUL-1962			Municipality:	
Static Water Level:	2.7			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.447081
Total Depth m:	11.3			Longitude DD:	-75.526653
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	458816
Drill Method:				Northing:	5032752
Orig Ground Elev m:	92.7			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	90.9				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Geology Stratum ID:	218400843			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	11.3			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Limestone			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:	LIMESTONE. GREY. WATER STABLE AT 295.0 FEET.0200E. BEDROCK. 10DROCK. BEDROCK. BEDRO				
Stratum Description:	**Note: Many records provided by the department have a truncated [Stratum Description] field.				

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Ident:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:		Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 07723 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	Horizontal Datum:	NAD27
Source Type:	Data Survey	Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972	Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

12	1 of 1	SW/34.4	88.9 / 0.00	lot 5 con 2 ON	WWIS
Well ID:	1501220			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	05-Sep-1962 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501220.pdf				

Additional Detail(s) (Map)

Well Completed Date:	1962/07/16
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Year Completed:		1962			
Depth (m):		11.2776			
Latitude:		45.447078593807			
Longitude:		-75.5266525658378			
Path:		150\1501220.pdf			

Bore Hole Information

Bore Hole ID:	10023263	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458815.80
Code OB Desc:		North83:	5032752.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	16-Jul-1962 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	930991270
Layer:	1
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	37.0
Formation End Depth UOM:	ft

Method of Construction & Well

Use

Method Construction ID:	961501220
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10571833
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930039419
Layer:	1
Material:	1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Open Hole or Material: STEEL
Depth From:
Depth To: 8.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039420
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 37.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501220
Pump Set At:
Static Level: 4.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 8.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933453913
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 37.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023263	Tag No:
Depth M: 11.2776	Contractor: 1504
Year Completed: 1962	Path: 150\1501220.pdf
Well Completed Dt: 1962/07/16	Latitude: 45.447078593807
Audit No:	Longitude: -75.5266525658378

[13](#) 1 of 1 **ENE/48.0** **88.9 / 0.00** **ON** **BORE**

Borehole ID: 615236	Inclin FLG: No
OGF ID: 215516178	SP Status: Initial Entry
Status:	Surv Elev: No

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:				Municipality:	
Static Water Level:	10.2			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.448169
Total Depth m:	-999			Longitude DD:	-75.524937
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	458951
Drill Method:				Northing:	5032872
Orig Ground Elev m:	91.4			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	91.3				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218400891			Mat Consistency:	Soft
Top Depth:	.9			Material Moisture:	
Bottom Depth:				Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Limestone			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BEDROCK. GREY,SOFT,STIFF,FISSURED. 00000 025 00065 075 00000037ROCK. BEDROCK. WAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218400890			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	.9			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Stones			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY.				
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Idem:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:	M			Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA2.txt RecordID: 077440 NTS_Sheet: 31G05H				
Confiden 1:	Reliable information but incomplete.				
<u>Source List</u>					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 1	ENE/51.3	88.9 / 0.00	lot 5 con 2 ON	WWIS
Well ID:		1501224		Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:		Domestic		Data Entry Status:	
Use 2nd:		0		Data Src:	
Final Well Status:		Water Supply		Date Received:	
Water Type:				Selected Flag:	
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	
Tag:				Form Version:	
Constructn Method:				Owner:	
Elevation (m):				County:	
Elevatn Reliabilty:				Lot:	
Depth to Bedrock:				Concession:	
Well Depth:				Concession Name:	
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501224.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1963/09/03			
Year Completed:		1963			
Depth (m):		13.716			
Latitude:		45.4479875054964			
Longitude:		-75.5247428326306			
Path:		150\1501224.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10023267		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	
Code OB:				East83:	
Code OB Desc:				North83:	
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	
Date Completed:		03-Sep-1963 00:00:00		UTMRC Desc:	
Remarks:				Location Method:	
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991281			
Layer:		2			
Color:					
General Color:					
Mat1:		15			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		7.0			
Formation End Depth:		45.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991280			
Layer:		1			
Color:					
General Color:					
Mat1:		06			
Most Common Material:		SILT			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		7.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501224			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571837			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039429			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		45.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039428			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20.0			
Casing Diameter:		6.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501224
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 30.0
Recommended Pump Depth: 30.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933453917
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Links

Bore Hole ID:	10023267	Tag No:	
Depth M:	13.716	Contractor:	3701
Year Completed:	1963	Path:	150\1501224.pdf
Well Completed Dt:	1963/09/03	Latitude:	45.4479875054964
Audit No:		Longitude:	-75.5247428326306

15	1 of 2	SSW/54.6	88.9 / 0.00	PE4288 - 3484 Innes Road Orléans ON K1C 1T1	EHS
Order No:	21082300225	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State:	ON		
Report Date:	26-AUG-21	Search Radius (km):	.25		
Date Received:	23-AUG-21	X:	-75.526183		
Previous Site Name:		Y:	45.4467084		
Lot/Building Size:					
Additional Info Ordered:					

15	2 of 2	SSW/54.6	88.9 / 0.00	PE4288 - 3484 Innes Road Orléans ON K1C 1T1	EHS
Order No:	21082300225	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State:	ON		
Report Date:	26-AUG-21	Search Radius (km):	.25		
Date Received:	23-AUG-21	X:	-75.526183		
Previous Site Name:		Y:	45.4467084		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Lot/Building Size:
Additional Info Ordered:

16	1 of 1	SSE/85.7	88.9 / 0.00	lot 5 con 3 ON	WWIS
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Well ID:	1510729	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:	0	Data Src:	1
Final Well Status:	Water Supply	Date Received:	30-Jul-1970 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	1504
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliabilty:		Lot:	005
Depth to Bedrock:		Concession:	03
Well Depth:		Concession Name:	OF
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510729.pdf

Additional Detail(s) (Map)

Well Completed Date: 1969/07/30
Year Completed: 1969
Depth (m): 21.9456
Latitude: 45.4466341463445
Longitude: -75.5254336043491
Path: 151\1510729.pdf

Bore Hole Information

Bore Hole ID:	10032746	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458910.80
Code OB Desc:		North83:	5032702.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	30-Jul-1969 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 931015676

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		70.0			
Formation End Depth:		72.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931015675			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		70.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961510729			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10581316			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930058058			
Layer:		1			
Material:		2			
Open Hole or Material:		GALVANIZED			
Depth From:					
Depth To:		72.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991510729			
Pump Set At:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Level:		5.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		25.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097320			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		20.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934641631			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		20.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934897999			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		20.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934380055			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		20.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933465764			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		72.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:		10032746		Tag No:	
Depth M:		21.9456		Contractor:	1504
Year Completed:		1969		Path:	151\1510729.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Completed Dt: 1969/07/30				Latitude: 45.4466341463445	
Audit No:				Longitude: -75.5254336043491	
17	1 of 3	SW/86.7	89.9 / 1.00	TOM PYNN/JACQUELINE LOCKE-PT. LOT 5, CON3 PAGE RD./INNES RD. GLOUCESTER CITY ON	CA
Certificate #: 3-1304-90-					
Application Year: 90					
Issue Date: 8/13/1990					
Approval Type: Municipal sewage					
Status: Approved					
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
17	2 of 3	SW/86.7	89.9 / 1.00	R.M. OF OTTAWA-CARLETON INNES RD. PAGE RD. GLOUCESTER CITY ON	CA
Certificate #: 7-1300-89-					
Application Year: 89					
Issue Date: 8/8/1989					
Approval Type: Municipal water					
Status: Approved					
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
17	3 of 3	SW/86.7	89.9 / 1.00	GLOUCESTER CITY PAGE RD./INNES RD. GLOUCESTER CITY ON	CA
Certificate #: 3-0684-94-					
Application Year: 94					
Issue Date: 6/21/1994					
Approval Type: Municipal sewage					
Status: Approved					
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
18	1 of 2	SW/86.7	89.9 / 1.00	GLOUCESTER CITY - SILVERBIRCH RD. PAGE RD./INNES RD./BUTTONFIELD	CA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
GLOUCESTER CITY ON					
Certificate #:		3-1068-92-			
Application Year:		92			
Issue Date:		8/24/1992			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

18	2 of 2	SW/86.7	89.9 / 1.00	GLOUCESTER CITY PAGE RD./INNES RD./MEADOWGLEN GLOUCESTER CITY ON	CA
Certificate #:		3-1310-94-			
Application Year:		94			
Issue Date:		10/19/1994			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

19	1 of 1	WSW/92.7	89.9 / 1.00	lot 6 con 2 ON	WWIS
Well ID:		1510698			
Construction Date:					
Use 1st:		Livestock			
Use 2nd:		0			
Final Well Status:		Water Supply			
Water Type:					
Casing Material:					
Audit No:					
Tag:					
Constructn Method:					
Elevation (m):					
Elevatn Reliabilty:					
Depth to Bedrock:					
Well Depth:					
Overburden/Bedrock:					
Pump Rate:					
Static Water Level:					
Clear/Cloudy:					
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					
Flowing (Y/N):					
Flow Rate:					
Data Entry Status:					
Data Src:		1			
Date Received:		23-Feb-1971 00:00:00			
Selected Flag:		TRUE			
Abandonment Rec:					
Contractor:		1504			
Form Version:		1			
Owner:					
County:		OTTAWA-CARLETON			
Lot:		006			
Concession:		02			
Concession Name:		OF			
Easting NAD83:					
Northing NAD83:					
Zone:					
UTM Reliability:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510698.pdf			

[Additional Detail\(s\) \(Map\)](#)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Well Completed Date: 1970/08/13
Year Completed: 1970
Depth (m): 14.6304
Latitude: 45.4468029612063
Longitude: -75.5278648301032
Path: 151\1510698.pdf

Bore Hole Information

Bore Hole ID:	10032721	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458720.80
Code OB Desc:		North83:	5032722.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	13-Aug-1970 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 931015613
Layer: 1
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961510698
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10581291
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930058012

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		1			
Material:		2			
Open Hole or Material:		GALVANIZED			
Depth From:					
Depth To:		20.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991510698			
Pump Set At:					
Static Level:		4.0			
Final Level After Pumping:		15.0			
Recommended Pump Depth:		25.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934641193			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		15.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097299			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		15.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934897979			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		15.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934380034			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		15.0			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Details					
Water ID:		933465737			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		48.0			
Water Found Depth UOM:		ft			
Links					
Bore Hole ID:	10032721			Tag No:	
Depth M:	14.6304			Contractor:	1504
Year Completed:	1970			Path:	151\1510698.pdf
Well Completed Dt:	1970/08/13			Latitude:	45.4468029612063
Audit No:				Longitude:	-75.5278648301032

20	1 of 1	WNW/100.3	89.9 / 1.00	lot 5 con 2 ON	WWIS
Well ID:	1501225			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	24-Aug-1965 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501225.pdf				

Additional Detail(s) (Map)

Well Completed Date:	1965/05/20
Year Completed:	1965
Depth (m):	17.9832
Latitude:	45.448152791132
Longitude:	-75.5279413604914
Path:	150\1501225.pdf

Bore Hole Information

Bore Hole ID:	10023268	Elevation:	
DP2BR:		Elelvc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458715.80
Code OB Desc:		North83:	5032872.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	20-May-1965 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Remarks:					Location Method: p5
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991282			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		59.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501225			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571838			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039430			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039431			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		59.0			
Casing Diameter:		2.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501225			
Pump Set At:					
Static Level:		9.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		30			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453918			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		59.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:		10023268		Tag No:	
Depth M:		17.9832		Contractor: 1504	
Year Completed:		1965		Path: 150\1501225.pdf	
Well Completed Dt:		1965/05/20		Latitude: 45.448152791132	
Audit No:				Longitude: -75.5279413604914	
21	1 of 1	WSW/101.2	89.9 / 1.00	lot 6 con 2 ON	WWIS
Well ID:		1501239		Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:		Domestic		Data Entry Status:	
Use 2nd:		0		Data Src: 1	
Final Well Status:		Water Supply		Date Received: 07-Dec-1962 00:00:00	
Water Type:				Selected Flag: TRUE	
Casing Material:				Abandonment Rec:	
Audit No:				Contractor: 1504	
Tag:				Form Version: 1	
Constructn Method:				Owner:	
Elevation (m):				County: OTTAWA-CARLETON	
Elevatn Reliability:				Lot: 006	
Depth to Bedrock:				Concession: 02	
Well Depth:				Concession Name: OF	
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			

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

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501239.pdf

Additional Detail(s) (Map)

Well Completed Date: 1962/09/08
Year Completed: 1962
Depth (m): 11.2776
Latitude: 45.4466235353197
Longitude: -75.5277352802276
Path: 150\1501239.pdf

Bore Hole Information

Bore Hole ID:	10023282	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458730.80
Code OB Desc:		North83:	5032702.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	08-Sep-1962 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 930991313
Layer: 1
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

Method of Construction & Well

Use

Method Construction ID: 961501239
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10571852
Casing No: 1
Comment:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Alt Name:

Construction Record - Casing

Casing ID: 930039457
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 37.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039456
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 12.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501239
Pump Set At:
Static Level: 5.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 12.0
Flowing Rate:
Recommended Pump Rate: 12.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933453937
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 37.0
Water Found Depth UOM: ft

Links

<i>Bore Hole ID:</i> 10023282	<i>Tag No:</i> 1504
<i>Depth M:</i> 11.2776	<i>Contractor:</i> 150\1501239.pdf
<i>Year Completed:</i> 1962	<i>Path:</i> 45.4466235353197
<i>Well Completed Dt:</i> 1962/09/08	<i>Latitude:</i> -75.5277352802276
<i>Audit No:</i>	<i>Longitude:</i>

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	1 of 1	E/101.5	88.9 / 0.00	ON	BORE

Borehole ID:	615227	Inclin FLG:	No
OGF ID:	215516169	SP Status:	Initial Entry
Status:		Surv Elev:	No
Type:	Borehole	Piezometer:	No
Use:		Primary Name:	
Completion Date:	NOV-1953	Municipality:	
Static Water Level:	11.2	Lot:	
Primary Water Use:		Township:	
Sec. Water Use:		Latitude DD:	45.447723
Total Depth m:	13.1	Longitude DD:	-75.52391
Depth Ref:	Ground Surface	UTM Zone:	18
Depth Elev:		Easting:	459031
Drill Method:		Northing:	5032822
Orig Ground Elev m:	92.4	Location Accuracy:	
Elev Reliabil Note:		Accuracy:	Not Applicable
DEM Ground Elev m:	92.1		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218400870	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	1.8	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:	Soil	Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	CLAY.		

Geology Stratum ID:	218400871	Mat Consistency:	
Top Depth:	1.8	Material Moisture:	
Bottom Depth:	13.1	Material Texture:	
Material Color:	White	Non Geo Mat Type:	
Material 1:	Limestone	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	LIMESTONE. 00040ROCK. WHITE. 00060 BEDROCK. 10DROCK. BEDROCK. BEDROCK. WAT **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Iden:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:		Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 07735 NTS_Sheet:		
Confiden 1:			

Source List

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Identifier: Source Type: Source Date: Scale or Resolution: Source Name: Source Originators:	1 Data Survey 1956-1972 Varies			Horizontal Datum: Vertical Datum: Projection Name:	NAD27 Mean Average Sea Level Universal Transverse Mercator
Urban Geology Automated Information System (UGAIS) Geological Survey of Canada					

23	1 of 1	E/101.5	88.9 / 0.00	lot 5 con 3 ON	WWIS
Well ID: Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: Site Info:	1501410 Domestic 0 Water Supply			Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: County: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 13-Jan-1954 00:00:00 TRUE 1802 1 OTTAWA-CARLETON 005 03 OF
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501410.pdf			

Additional Detail(s) (Map)

Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:	1953/11/27 1953 13.1064 45.4477212956805 -75.5239091518308 150\1501410.pdf
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Bore Hole Information

Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Loc Method Desc: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	10023453 27-Nov-1953 00:00:00 Original Pre1985 UTM Rel Code 9: unknown UTM	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 459030.80 5032822.00 9 unknown UTM p9
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			930991765		
Layer:			1		
Color:					
General Color:					
Mat1:			05		
Most Common Material:			CLAY		
Mat2:			02		
Mat2 Desc:			TOPSOIL		
Mat3:					
Mat3 Desc:					
Formation Top Depth:			0.0		
Formation End Depth:			6.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			930991766		
Layer:			2		
Color:					
General Color:					
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			6.0		
Formation End Depth:			43.0		
Formation End Depth UOM:			ft		
<u>Method of Construction & Well Use</u>					
Method Construction ID:			961501410		
Method Construction Code:			7		
Method Construction:			Diamond		
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:			10572023		
Casing No:			1		
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:			930039791		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			43.0		
Casing Diameter:			2.0		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Casing ID: 930039790
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 7.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501410
Pump Set At:
Static Level: 7.0
Final Level After Pumping: 17.0
Recommended Pump Depth:
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933454117
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023453	Tag No:
Depth M: 13.1064	Contractor: 1802
Year Completed: 1953	Path: 150\1501410.pdf
Well Completed Dt: 1953/11/27	Latitude: 45.4477212956805
Audit No:	Longitude: -75.5239091518308

24	1 of 1	W/106.0	89.9 / 1.00	lot 6 con 2 ON	WWIS
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Well ID: 1501233	Flowing (Y/N):
Construction Date:	Flow Rate:
Use 1st: Public	Data Entry Status:
Use 2nd: 0	Data Src: 1
Final Well Status: Water Supply	Date Received: 07-Sep-1960 00:00:00
Water Type:	Selected Flag: TRUE
Casing Material:	Abandonment Rec:
Audit No:	Contractor: 3701
Tag:	Form Version: 1
Constructn Method:	Owner:
Elevation (m):	County: OTTAWA-CARLETON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501233.pdf

Additional Detail(s) (Map)

Well Completed Date: 1960/06/30
Year Completed: 1960
Depth (m): 49.9872
Latitude: 45.4477006798946
Longitude: -75.5283847185956
Path: 150\1501233.pdf

Bore Hole Information

Bore Hole ID:	10023276	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458680.80
Code OB Desc:		North83:	5032822.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	30-Jun-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 930991299
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 7.0
Formation End Depth: 164.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 930991298
Layer: 1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		7.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501233			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571846			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039447			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		164.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039446			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		17.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501233			
Pump Set At:					
Static Level:		5.0			
Final Level After Pumping:		140.0			
Recommended Pump Depth:		140.0			
Pumping Rate:		42.0			
Flowing Rate:					
Recommended Pump Rate:		42.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		24			
Pumping Duration MIN:		0			
Flowing:		No			

Water Details

Water ID: 933453927
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 90.0
Water Found Depth UOM: ft

Water Details

Water ID: 933453929
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 164.0
Water Found Depth UOM: ft

Water Details

Water ID: 933453928
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 150.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023276	Tag No:
Depth M: 49.9872	Contractor: 3701
Year Completed: 1960	Path: 150\1501233.pdf
Well Completed Dt: 1960/06/30	Latitude: 45.4477006798946
Audit No:	Longitude: -75.5283847185956

25 1 of 5 S/113.5 88.9 / 0.00 **JEANNINE T KNIGHTON**
2305 PAGE RD,,OTTAWA,ON,K1W 1H3,CA
ON **PINC**

Incident Id:		Pipe Material:
Incident No: 1449252		Fuel Category:
Incident Reported Dt: 7/30/2014		Health Impact:
Type: FS-Pipeline Incident		Environment Impact:
Status Code:		Property Damage:
Tank Status: Pipeline Damage Reason Est		Service Interrupt:
Task No:		Enforce Policy:
Spills Action Centre:		Public Relation:
Fuel Type:		Pipeline System:
Fuel Occurrence Tp:		PSIG:
Date of Occurrence:		Attribute Category:
Occurrence Start Dt:		Regulator Location:
Depth:		Method Details:
Customer Acct Name: JEANNINE T KNIGHTON		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Incident Address: 2305 PAGE RD.,OTTAWA,ON,K1W 1H3,CA Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason: Notes:					
25	2 of 5	S/113.5	88.9 / 0.00	2305 Pagé Road Orléans ON K1W 1H3	EHS
Order No: 20190219164 Status: C Report Type: Standard Report Report Date: 21-FEB-19 Date Received: 19-FEB-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: City Directory; Aerial Photos Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.526365 Y: 45.446049					
25	3 of 5	S/113.5	88.9 / 0.00	PIPELINE HIT - 1 1/4" 2305 PAGE RD.,ORLÉANS,ON,K1W 1H3,CA ON	PINC
Incident Id: Incident No: 1455758 Incident Reported Dt: 8/11/2014 Type: FS-Pipeline Incident Status Code: Tank Status: Non Mandated Task No: Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: Depth: Customer Acct Name: PIPELINE HIT - 1 1/4" Incident Address: 2305 PAGE RD.,ORLÉANS,ON,K1W 1H3,CA Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason: Notes: Pipe Material: Fuel Category: Health Impact: Environment Impact: Property Damage: Service Interrupt: Enforce Policy: Public Relation: Pipeline System: PSIG: Attribute Category: Regulator Location: Method Details:					
25	4 of 5	S/113.5	88.9 / 0.00	2305 Pagé Road Orléans ON K1W 1H3	EHS
Order No: 21101900023 Status: C Report Type: Custom Report Report Date: 22-OCT-21 Date Received: 19-OCT-21 Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .2 X: -75.5262811					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Previous Site Name:				Y:	45.4461769
Lot/Building Size:					
Additional Info Ordered:				Fire Insur. Maps and/or Site Plans	
25	5 of 5	S/113.5	88.9 / 0.00	2305 Pagé Road Orléans ON K1W 1H3	EHS
Order No:	21101900023	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Custom Report	Client Prov/State:		ON	
Report Date:	22-OCT-21	Search Radius (km):		.2	
Date Received:	19-OCT-21	X:		-75.5262811	
Previous Site Name:		Y:		45.4461769	
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
26	1 of 2	E/113.8	88.9 / 0.00	3554 Innes Road Orléans ON K1C 1T1	EHS
Order No:	20200103017	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State:		ON	
Report Date:	08-JAN-20	Search Radius (km):		.25	
Date Received:	03-JAN-20	X:		-75.523763	
Previous Site Name:		Y:		45.4477849	
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Topographic Maps; City Directory; Aerial Photos				
26	2 of 2	E/113.8	88.9 / 0.00	3554 Innes Road Orléans ON K1C 1T1	EHS
Order No:	20200103017	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State:		ON	
Report Date:	08-JAN-20	Search Radius (km):		.25	
Date Received:	03-JAN-20	X:		-75.523763	
Previous Site Name:		Y:		45.4477849	
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Topographic Maps; City Directory; Aerial Photos				
27	1 of 1	WSW/114.4	89.9 / 1.00	lot 6 con 2 ON	WWIS
Well ID:	1501230	Flowing (Y/N):			
Construction Date:		Flow Rate:			
Use 1st:	Domestic	Data Entry Status:			
Use 2nd:	0	Data Src:		1	
Final Well Status:	Water Supply	Date Received:		22-Oct-1953 00:00:00	
Water Type:		Selected Flag:		TRUE	
Casing Material:		Abandonment Rec:			
Audit No:		Contractor:		1802	
Tag:		Form Version:		1	
Constructn Method:		Owner:			
Elevation (m):		County:		OTTAWA-CARLETON	
Elevatn Reliability:		Lot:		006	
Depth to Bedrock:		Concession:		02	
Well Depth:		Concession Name:		OF	
Overburden/Bedrock:		Easting NAD83:			
Pump Rate:		Northing NAD83:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Static Water Level:
Clear/Cloudy:
Municipality:
Site Info:

GLOUCESTER TOWNSHIP

Zone:
UTM Reliability:

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501230.pdf

Additional Detail(s) (Map)

Well Completed Date: 1953/10/19
Year Completed: 1953
Depth (m): 14.6304
Latitude: 45.4467117706776
Longitude: -75.5281197326695
Path: 150\1501230.pdf

Bore Hole Information

Bore Hole ID: 10023273
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 19-Oct-1953 00:00:00
Remarks:
Loc Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 458700.80
North83: 5032712.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock
Materials Interval

Formation ID: 930991290
Layer: 1
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961501230
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Pipe ID:</i>		10571843			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930039440			
<i>Layer:</i>		1			
<i>Material:</i>		1			
<i>Open Hole or Material:</i>		STEEL			
<i>Depth From:</i>					
<i>Depth To:</i>		10.0			
<i>Casing Diameter:</i>		2.0			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930039441			
<i>Layer:</i>		2			
<i>Material:</i>		4			
<i>Open Hole or Material:</i>		OPEN HOLE			
<i>Depth From:</i>					
<i>Depth To:</i>		48.0			
<i>Casing Diameter:</i>		2.0			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
<u>Results of Well Yield Testing</u>					
<i>Pumping Test Method Desc:</i>		PUMP			
<i>Pump Test ID:</i>		991501230			
<i>Pump Set At:</i>					
<i>Static Level:</i>		10.0			
<i>Final Level After Pumping:</i>		15.0			
<i>Recommended Pump Depth:</i>					
<i>Pumping Rate:</i>		8.0			
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>					
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>		1			
<i>Water State After Test:</i>		CLEAR			
<i>Pumping Test Method:</i>		1			
<i>Pumping Duration HR:</i>		1			
<i>Pumping Duration MIN:</i>		0			
<i>Flowing:</i>		No			
<u>Water Details</u>					
<i>Water ID:</i>		933453924			
<i>Layer:</i>		1			
<i>Kind Code:</i>		1			
<i>Kind:</i>		FRESH			
<i>Water Found Depth:</i>		41.0			
<i>Water Found Depth UOM:</i>		ft			
<u>Links</u>					
<i>Bore Hole ID:</i>	10023273			<i>Tag No:</i>	
<i>Depth M:</i>	14.6304			<i>Contractor:</i>	1802

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Year Completed:	1953			Path:	150\1501230.pdf
Well Completed Dt:	1953/10/19			Latitude:	45.4467117706776
Audit No:				Longitude:	-75.5281197326695

28	1 of 1	WNW/118.7	89.9 / 1.00	lot 5 con 2 ON	WWIS
Well ID:	1501226			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	24-Aug-1965 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501226.pdf

Additional Detail(s) (Map)

Well Completed Date: 1965/07/28
Year Completed: 1965
Depth (m): 17.0688
Latitude: 45.4483325122916
Longitude: -75.5280069772123
Path: 150\1501226.pdf

Bore Hole Information

Bore Hole ID: 10023269
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 28-Jul-1965 00:00:00
Remarks:
Loc Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 458710.80
North83: 5032892.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

**Overburden and Bedrock
Materials Interval**

Formation ID: 930991283

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		1			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		56.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501226			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571839			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039432			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039433			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		56.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501226			
Pump Set At:					
Static Level:		10.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		8.0			
Flowing Rate:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		30			
Flowing:		No			

Water Details

Water ID: 933453919
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 56.0
Water Found Depth UOM: ft

Links

Bore Hole ID:	10023269	Tag No:	
Depth M:	17.0688	Contractor:	1504
Year Completed:	1965	Path:	150\1501226.pdf
Well Completed Dt:	1965/07/28	Latitude:	45.4483325122916
Audit No:		Longitude:	-75.5280069772123

<u>29</u>	1 of 1	SW/119.0	88.9 / 0.00	lot 6 con 3 ON	WWIS
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Well ID:	1501434	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:	0	Data Src:	1
Final Well Status:	Water Supply	Date Received:	15-Aug-1961 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	1504
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	03
Well Depth:		Concession Name:	OF
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501434.pdf

Additional Detail(s) (Map)

Well Completed Date: 1961/06/15
Year Completed: 1961
Depth (m): 12.4968
Latitude: 45.4463546914635
Longitude: -75.52747702184
Path: 150\1501434.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Bore Hole Information</u>					
Bore Hole ID:	10023477			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	458750.80
Code OB Desc:				North83:	5032672.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	15-Jun-1961 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991820				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	5.0				
Formation End Depth:	41.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991819				
Layer:	1				
Color:					
General Color:					
Mat1:	13				
Most Common Material:	BOULDERS				
Mat2:	11				
Mat2 Desc:	GRAVEL				
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0.0				
Formation End Depth:	5.0				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	961501434				
Method Construction Code:	7				
Method Construction:	Diamond				
Other Method Construction:					

Pipe Information

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Pipe ID: 10572047
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930039835
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 7.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039836
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 41.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501434
Pump Set At:
Static Level: 3.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933454141
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 41.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023477 **Tag No:**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth M: 12.4968 Year Completed: 1961 Well Completed Dt: 1961/06/15 Audit No:				Contractor: 1504 Path: 150\1501434.pdf Latitude: 45.4463546914635 Longitude: -75.52747702184	
30	1 of 2	WSW/122.1	89.9 / 1.00	3443 Innes Rd Ottawa ON K1C1T1	EHS
Order No: 20170527002 Status: C Report Type: Standard Report Report Date: 02-JUN-17 Date Received: 27-MAY-17 Previous Site Name: Assumed residential Lot/Building Size: 0.43 acres Additional Info Ordered: Fire Insur. Maps and/or Site Plans				Nearest Intersection: Municipality: City of Ottawa Client Prov/State: ON Search Radius (km): .25 X: -75.527916 Y: 45.446813	
30	2 of 2	WSW/122.1	89.9 / 1.00	3443 Innes Rd. Ottawa ON K1C 1T1	SPL
Ref No: 7036-BB2NGM Site No: NA Incident Dt: 4/8/2019 Year: Incident Cause: Incident Event: Leak/Break Contaminant Code: 13 Contaminant Name: HYDROCARBON LIGHT Contaminant Limit 1: Contam Limit Freq 1: n/a Contaminant UN No 1: n/a Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: Land; Source Water Zone MOE Response: No Dt MOE Arvl on Scn: MOE Reported Dt: 4/8/2019 Dt Document Closed: Incident Reason: Other Site Name: residential<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: oil or gas from property to road & cb Contaminant Qty: 0 other - see incident description				Discharger Report: Material Group: Health/Env Conseq: 0 - No Impact Client Type: Sector Type: Other Agency Involved: Nearest Watercourse: Site Address: 3443 Innes Rd. Site District Office: Ottawa Site Postal Code: K1C 1T1 Site Region: Eastern Site Municipality: Ottawa Site Lot: Site Conc: Northing: 5032638.51 Easting: 458630.55 Site Geo Ref Accu: Site Map Datum: NAD83 SAC Action Class: Land Spills Source Type: Other	
31	1 of 1	SW/126.9	88.9 / 0.00	2310 Page Road Ottawa ON	EHS
Order No: 20080102012 Status: C Report Type: Complete Report Report Date: 1/10/2008 Date Received: 1/2/2008 Previous Site Name: Lot/Building Size: 28.84m x 61m Additional Info Ordered:				Nearest Intersection: Innes Road and Page Road Municipality: Ottawa Client Prov/State: ON Search Radius (km): 0.25 X: -75.527407 Y: 45.446266	
32	1 of 1	ENE/129.0	88.9 / 0.00	lot 5 con 2 ON	WWIS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	1501215			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	01-Feb-1960 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	2311
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501215.pdf

Additional Detail(s) (Map)

Well Completed Date: 1960/01/26
Year Completed: 1960
Depth (m): 21.6408
Latitude: 45.4482169283977
Longitude: -75.5237858602683
Path: 150\1501215.pdf

Bore Hole Information

Bore Hole ID:	10023258	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	459040.80
Code OB Desc:		North83:	5032877.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	26-Jan-1960 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 930991262
Layer: 1
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		71.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501215			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571828			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039409			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039410			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		71.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501215			
Pump Set At:					
Static Level:		11.0			
Final Level After Pumping:		15.0			
Recommended Pump Depth:		15.0			
Pumping Rate:		6.0			
Flowing Rate:					
Recommended Pump Rate:		5.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453908			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		64.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:		10023258		Tag No:	
Depth M:		21.6408		Contractor:	2311
Year Completed:		1960		Path:	150\1501215.pdf
Well Completed Dt:		1960/01/26		Latitude:	45.4482169283977
Audit No:				Longitude:	-75.5237858602683

<u>33</u>	1 of 1	SE/140.0	88.9 / 0.00	GIBSON PATTERSON 270 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1 Ottawa ON	RSC
RSC ID:		226597		Cert Date:	
RA No:				Cert Prop Use No:	
RSC Type:		Phase 1 RSC		Intended Prop Use:	Residential
Curr Property Use:		Commercial		Qual Person Name:	TIM ROBERTSON
Ministry District:		Ottawa District Office		Stratified (Y/N):	
Filing Date:		2020/04/20		Audit (Y/N):	
Date Ack:				Entire Leg Prop. (Y/N):	
Date Returned:				Accuracy Estimate:	
Restoration Type:				Telephone:	
Soil Type:				Fax:	
Criteria:				Email:	
CPU Issued Sect 1686:					
Asmt Roll No:		0614600205029010000			
Prop ID No (PIN):		04404-1856 (LT), 04404-1857 (LT)			
Property Municipal Address:		240 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1, 270 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1			
Mailing Address:					
Latitude & Longitude:					
UTM Coordinates:					
Consultant:					
Legal Desc:					
Measurement Method:					
Applicable Standards:					
RSC PDF:		https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125242&fileName=BROWNFIELDS-E.pdf			

Document(s) Detail

Document Heading:	Supporting Documents
Document Name:	RSC Letter Blks 149-150 - 7 Feb 2020 - signed.pdf
Document Type:	Lawyer's letter consisting of a legal description of the property
Document Link:	https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125237&fileName=RSC+Letter+Blks+149-150+-+7+Feb+2020+-+signed.pdf
Document Heading:	Supporting Documents
Document Name:	Phase One ESA CSM 240 and 270 Lamarche.pdf
Document Type:	Phase 1 Conceptual Site Model

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Document Link:		https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125238&fileName=Phase+One+ESA+CSM+240+and+270+Lamarche.pdf			
Document Heading:		Supporting Documents			
Document Name:		Current and Past Use Table - 240 and 270.pdf			
Document Type:		Table of Current and Past Property Use			
Document Link:		https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125239&fileName=Current+and+Past+Use+Table++240+and+270.pdf			
Document Heading:		Supporting Documents			
Document Name:		04404-combined.pdf			
Document Type:		Copy of any deed(s), transfer(s) or other document(s)			
Document Link:		https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125241&fileName=04404-combined.pdf			
Document Heading:		Supporting Documents			
Document Name:		Survey.pdf			
Document Type:		A Current plan of Survey			
Document Link:		https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=127241&fileName=Survey.pdf			

34	1 of 1	ENE/140.2	88.9 / 0.00	lot 5 con 2 ON	WWIS
Well ID:	1501216			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	03-Mar-1960 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	2311
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501216.pdf				

Additional Detail(s) (Map)

Well Completed Date:	1960/02/05
Year Completed:	1960
Depth (m):	19.812
Latitude:	45.4482625189157
Longitude:	-75.5236584021742
Path:	150\1501216.pdf

Bore Hole Information

Bore Hole ID:	10023259	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	459050.80
Code OB Desc:		North83:	5032882.00
Open Hole:		Org CS:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cluster Kind:				UTMRC:	5
Date Completed:	05-Feb-1960	00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991263			
Layer:		1			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		65.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501216			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571829			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039411			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		13.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039412			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		65.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991501216
Pump Set At:	
Static Level:	6.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	15.0
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	3.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933453909
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	52.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10023259	Tag No:	
Depth M:	19.812	Contractor:	2311
Year Completed:	1960	Path:	1501501216.pdf
Well Completed Dt:	1960/02/05	Latitude:	45.4482625189157
Audit No:		Longitude:	-75.5236584021742

35	1 of 1	SW/140.4	90.0 / 1.08	lot 6 con 3 ON	WWIS
Well ID:	1501435	Flowing (Y/N):			
Construction Date:		Flow Rate:			
Use 1st:	Domestic	Data Entry Status:			
Use 2nd:	0	Data Src:	1		
Final Well Status:	Water Supply	Date Received:	15-Aug-1961 00:00:00		
Water Type:		Selected Flag:	TRUE		
Casing Material:		Abandonment Rec:			
Audit No:		Contractor:	1504		
Tag:		Form Version:	1		
Constructn Method:		Owner:			
Elevation (m):		County:	OTTAWA-CARLETON		
Elevatn Reliabilty:		Lot:	006		
Depth to Bedrock:		Concession:	03		
Well Depth:		Concession Name:	OF		
Overburden/Bedrock:		Easting NAD83:			
Pump Rate:		Northing NAD83:			
Static Water Level:		Zone:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501435.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1961/06/16			
Year Completed:		1961			
Depth (m):		13.716			
Latitude:		45.4462184976077			
Longitude:		-75.5277315033808			
Path:		150\1501435.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10023478			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	458730.80
Code OB Desc:				North83:	5032657.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	16-Jun-1961 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991822				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	5.0				
Formation End Depth:	45.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991821				
Layer:	1				
Color:					
General Color:					
Mat1:	13				
Most Common Material:	BOULDERS				
Mat2:	11				
Mat2 Desc:	GRAVEL				

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		5.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501435			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572048			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039838			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		45.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039837			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		7.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501435			
Pump Set At:					
Static Level:		3.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		10.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration MIN: Flowing:		0 No			
Water Details					
Water ID:		933454142			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		45.0			
Water Found Depth UOM:		ft			
Links					
Bore Hole ID:		10023478		Tag No:	
Depth M:		13.716		Contractor:	1504
Year Completed:		1961		Path:	150\1501435.pdf
Well Completed Dt:		1961/06/16		Latitude:	45.4462184976077
Audit No:				Longitude:	-75.5277315033808
36	1 of 2	WSW/144.7	89.9 / 1.00	PE4248 - 3437 Innes Road Orléans ON K1C 7M6	EHS
Order No:		21050300166		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Standard Report		Client Prov/State:	ON
Report Date:		06-MAY-21		Search Radius (km):	.25
Date Received:		03-MAY-21		X:	-75.5283237
Previous Site Name:				Y:	45.4464643
Lot/Building Size:					
Additional Info Ordered:					
36	2 of 2	WSW/144.7	89.9 / 1.00	PE4248 - 3437 Innes Road Orléans ON K1C 7M6	EHS
Order No:		21050300166		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Standard Report		Client Prov/State:	ON
Report Date:		06-MAY-21		Search Radius (km):	.25
Date Received:		03-MAY-21		X:	-75.5283237
Previous Site Name:				Y:	45.4464643
Lot/Building Size:					
Additional Info Ordered:					
37	1 of 1	ENE/153.8	88.9 / 0.00	lot 5 con 2 ON	WWIS
Well ID:		1501200		Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:		Domestic		Data Entry Status:	
Use 2nd:		0		Data Src:	1
Final Well Status:		Water Supply		Date Received:	16-Aug-1958 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	2311
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	005
Depth to Bedrock:				Concession:	02

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: Site Info:		GLOUCESTER TOWNSHIP		Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501200.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:		1958/07/05 1958 24.384 45.4483531134975 -75.5235313602097 150\1501200.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Loc Method Desc: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	10023243			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 459060.80 5032892.00 9 unknown UTM p9
<u>Original Pre1985 UTM Rel Code 9: unknown UTM</u>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	930991225 2				
		11 GRAVEL			
			6.0 9.0 ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: Layer: Color: General Color:	930991224 1				

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Mat1:</i>		05			
<i>Most Common Material:</i>		CLAY			
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>		0.0			
<i>Formation End Depth:</i>		6.0			
<i>Formation End Depth UOM:</i>		ft			
 <u>Overburden and Bedrock Materials Interval</u>					
<i>Formation ID:</i>		930991226			
<i>Layer:</i>		3			
<i>Color:</i>					
<i>General Color:</i>					
<i>Mat1:</i>		15			
<i>Most Common Material:</i>		LIMESTONE			
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>		9.0			
<i>Formation End Depth:</i>		80.0			
<i>Formation End Depth UOM:</i>		ft			
 <u>Method of Construction & Well Use</u>					
<i>Method Construction ID:</i>		961501200			
<i>Method Construction Code:</i>		1			
<i>Method Construction:</i>		Cable Tool			
<i>Other Method Construction:</i>					
 <u>Pipe Information</u>					
<i>Pipe ID:</i>		10571813			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
 <u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930039378			
<i>Layer:</i>		1			
<i>Material:</i>		1			
<i>Open Hole or Material:</i>		STEEL			
<i>Depth From:</i>					
<i>Depth To:</i>		10.0			
<i>Casing Diameter:</i>		4.0			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
 <u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930039379			
<i>Layer:</i>		2			
<i>Material:</i>		4			
<i>Open Hole or Material:</i>		OPEN HOLE			
<i>Depth From:</i>					
<i>Depth To:</i>		80.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991501200
Pump Set At:	
Static Level:	7.0
Final Level After Pumping:	15.0
Recommended Pump Depth:	
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933453894
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10023243	Tag No:	
Depth M:	24.384	Contractor:	2311
Year Completed:	1958	Path:	150\1501200.pdf
Well Completed Dt:	1958/07/05	Latitude:	45.4483531134975
Audit No:		Longitude:	-75.5235313602097

38	1 of 1	ENE/153.8	88.9 / 0.00	ON	BORE
Borehole ID:	615241	Inclin FLG:	No		
OGF ID:	215516183	SP Status:	Initial Entry		
Status:		Surv Elev:	No		
Type:	Borehole	Piezometer:	No		
Use:		Primary Name:			
Completion Date:	JUL-1958	Municipality:			
Static Water Level:	10.2	Lot:			
Primary Water Use:		Township:			
Sec. Water Use:		Latitude DD:	45.448355		
Total Depth m:	24.4	Longitude DD:	-75.523532		
Depth Ref:	Ground Surface	UTM Zone:	18		
Depth Elev:		Easting:	459061		
Drill Method:		Northing:	5032892		
Orig Ground Elev m:	91.4	Location Accuracy:			
Elev Reliabil Note:		Accuracy:	Not Applicable		
DEM Ground Elev m:	91.7				
Concession:					
Location D:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	218400904	Mat Consistency:	
Top Depth:	2.7	Material Moisture:	
Bottom Depth:	24.4	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Limestone	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	LIMESTONE. 00070TE. 00100EY,SOUND,STRATIFIED. 00000037ROCK. BEDROCK. WATER STABLE **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218400902	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	1.8	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	CLAY.		

Geology Stratum ID:	218400903	Mat Consistency:	
Top Depth:	1.8	Material Moisture:	
Bottom Depth:	2.7	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Gravel	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	GRAVEL.		

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Iden:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:		Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 07749 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	Horizontal Datum:	NAD27
Source Type:	Data Survey	Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972	Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

39	1 of 1	NW/159.8	88.9 / 0.00	lot 5 con 2 ON	WWIS
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	1509635			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	27-May-1968 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	005
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1509635.pdf

Additional Detail(s) (Map)

Well Completed Date: 1968/02/07
Year Completed: 1968
Depth (m): 19.2024
Latitude: 45.4488737443009
Longitude: -75.527756264173
Path: 150\1509635.pdf

Bore Hole Information

Bore Hole ID:	10031667	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458730.80
Code OB Desc:		North83:	5032952.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	07-Feb-1968 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931012630
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		10.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931012631			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		10.0			
Formation End Depth:		63.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961509635			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10580237			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930055975			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		63.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930055974			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991509635
Pump Set At:
Static Level: 2.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933464521
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 63.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10031667	Tag No:
Depth M: 19.2024	Contractor: 1504
Year Completed: 1968	Path: 150\1509635.pdf
Well Completed Dt: 1968/02/07	Latitude: 45.4488737443009
Audit No:	Longitude: -75.527756264173

40	1 of 1	WNW/160.0	89.9 / 1.00	lot 5 con 2 ON	WWIS
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Well ID: 1501228	Flowing (Y/N):
Construction Date:	Flow Rate:
Use 1st: Domestic	Data Entry Status:
Use 2nd: 0	Data Src: 1
Final Well Status: Water Supply	Date Received: 18-Sep-1967 00:00:00
Water Type:	Selected Flag: TRUE
Casing Material:	Abandonment Rec:
Audit No:	Contractor: 1504
Tag:	Form Version: 1
Constructn Method:	Owner:
Elevation (m):	County: OTTAWA-CARLETON
Elevatn Reliabilty:	Lot: 005
Depth to Bedrock:	Concession: 02
Well Depth:	Concession Name: OF
Overburden/Bedrock:	Easting NAD83:
Pump Rate:	Northing NAD83:
Static Water Level:	Zone:
Clear/Cloudy:	UTM Reliability:
Municipality: GLOUCESTER TOWNSHIP	
Site Info:	

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501228.pdf

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

Well Completed Date: 1967/07/20
Year Completed: 1967
Depth (m): 18.288
Latitude: 45.4486916588264
Longitude: -75.5282021496745
Path: 150\1501228.pdf

Bore Hole Information

Bore Hole ID:	10023271	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458695.80
Code OB Desc:		North83:	5032932.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	20-Jul-1967 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 930991286
Layer: 1
Color:
General Color:
Mat1: 13
Most Common Material: BOULDERS
Mat2: 09
Mat2 Desc: MEDIUM SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 930991287
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501228			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571841			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039436			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		12.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039437			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		60.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501228			
Pump Set At:					
Static Level:		9.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		25.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453922			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:			1		
Kind Code:			1		
Kind:			FRESH		
Water Found Depth:			60.0		
Water Found Depth UOM:			ft		
Links					
Bore Hole ID:	10023271			Tag No:	
Depth M:	18.288			Contractor:	1504
Year Completed:	1967			Path:	150\1501228.pdf
Well Completed Dt:	1967/07/20			Latitude:	45.4486916588264
Audit No:				Longitude:	-75.5282021496745

41	1 of 1	NW/160.0	88.9 / 0.00	ON	BORE
Borehole ID:	615246			Inclin FLG:	No
OGF ID:	215516188			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	FEB-1968			Municipality:	
Static Water Level:	1.3			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.448876
Total Depth m:	19.2			Longitude DD:	-75.527757
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	458731
Drill Method:				Northing:	5032952
Orig Ground Elev m:	91.4			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	91.4				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218400914			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	3			Material Texture:	
Material Color:	Blue			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		CLAY. BLUE.			
Geology Stratum ID:	218400915			Mat Consistency:	Compact
Top Depth:	3			Material Moisture:	
Bottom Depth:	19.2			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Limestone			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		LIMESTONE. GREY. 0006300139, WATER STABLE AT 295.8 FEET.GRAVEL. COMPACT. ROCK. WATER STA			
		**Note: Many records provided by the department have a truncated [Stratum Description] field.			

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

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence:
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA2.txt RecordID: 07754 NTS_Sheet:
Confiden 1:

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

[42](#) 1 of 1 **S/163.0** **88.9 / 0.00** **2305 Page Rd
Ottawa ON K1W 1H3** **EHS**

Order No: 20121221030
Status: C
Report Type: Standard Report
Report Date: 07-JAN-13
Date Received: 21-DEC-12
Previous Site Name: single family dwelling
possible garden centre
Lot/Building Size: 0.89 hectare
Additional Info Ordered:

Nearest Intersection:
Municipality: Ottawa Gloucester Ward
Client Prov/State: ON
Search Radius (km): .25
X: -75.526105
Y: 45.445734

[43](#) 1 of 1 **ENE/165.4** **88.9 / 0.00** **lot 5 con 2
ON** **WWIS**

Well ID: 1501201
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GLOUCESTER TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 16-Aug-1958 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 2311
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 005
Concession: 02
Concession Name: OF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501201.pdf

Additional Detail(s) (Map)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Completed Date:		1958/08/02			
Year Completed:		1958			
Depth (m):		21.336			
Latitude:		45.4484884191456			
Longitude:		-75.5234686716499			
Path:		150\1501201.pdf			

Bore Hole Information

Bore Hole ID:	10023244	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	459065.80
Code OB Desc:		North83:	5032907.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	02-Aug-1958 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Loc Method Desc:	Original Pre1985 UTM Rel Code 9: unknown UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	930991227
Layer:	1
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	930991228
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	70.0
Formation End Depth UOM:	ft

Method of Construction & Well

Use

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction ID:		961501201			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571814			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039380			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		12.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039381			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		70.0			
Casing Diameter:		4.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501201			
Pump Set At:					
Static Level:		13.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:					
Pumping Rate:		4.0			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453895			
Layer:		1			
Kind Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind:		FRESH			
Water Found Depth:		66.0			
Water Found Depth UOM:		ft			
Links					
Bore Hole ID:	10023244			Tag No:	
Depth M:	21.336			Contractor:	2311
Year Completed:	1958			Path:	150\1501201.pdf
Well Completed Dt:	1958/08/02			Latitude:	45.4484884191456
Audit No:				Longitude:	-75.5234686716499

44	1 of 1	WSW/166.8	89.9 / 1.00	lot 6 con 2 ON	WWIS
Well ID:	1501238			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	07-Dec-1962 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	006
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501238.pdf

Additional Detail(s) (Map)

Well Completed Date: 1962/11/03
Year Completed: 1962
Depth (m): 8.2296
Latitude: 45.4468876453361
Longitude: -75.5290165125367
Path: 150\1501238.pdf

Bore Hole Information

Bore Hole ID:	10023281	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458630.80
Code OB Desc:		North83:	5032732.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	03-Nov-1962 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Improvement Location Method:</i>					
<i>Source Revision Comment:</i>					
<i>Supplier Comment:</i>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
<i>Formation ID:</i>		930991311			
<i>Layer:</i>		1			
<i>Color:</i>					
<i>General Color:</i>					
<i>Mat1:</i>		02			
<i>Most Common Material:</i>		TOPSOIL			
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>		0.0			
<i>Formation End Depth:</i>		3.0			
<i>Formation End Depth UOM:</i>		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
<i>Formation ID:</i>		930991312			
<i>Layer:</i>		2			
<i>Color:</i>		2			
<i>General Color:</i>		GREY			
<i>Mat1:</i>		15			
<i>Most Common Material:</i>		LIMESTONE			
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>		3.0			
<i>Formation End Depth:</i>		27.0			
<i>Formation End Depth UOM:</i>		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
<i>Method Construction ID:</i>		961501238			
<i>Method Construction Code:</i>		7			
<i>Method Construction:</i>		Diamond			
<i>Other Method Construction:</i>					
<u>Pipe Information</u>					
<i>Pipe ID:</i>		10571851			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930039455			
<i>Layer:</i>		2			
<i>Material:</i>		4			
<i>Open Hole or Material:</i>		OPEN HOLE			
<i>Depth From:</i>					
<i>Depth To:</i>		27.0			
<i>Casing Diameter:</i>		2.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039454
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 15.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501238
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 12.0
Flowing Rate:
Recommended Pump Rate: 12.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933453936
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 27.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023281	Tag No:
Depth M: 8.2296	Contractor: 1504
Year Completed: 1962	Path: 150\1501238.pdf
Well Completed Dt: 1962/11/03	Latitude: 45.4468876453361
Audit No:	Longitude: -75.5290165125367

45	1 of 1	SW/170.5	88.9 / 0.00	lot 6 con 3 ON	WWIS
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Well ID: 1501436	Flowing (Y/N):
Construction Date:	Flow Rate:
Use 1st: Domestic	Data Entry Status:
Use 2nd: 0	Data Src: 1
Final Well Status: Water Supply	Date Received: 15-Aug-1961 00:00:00
Water Type:	Selected Flag: TRUE
Casing Material:	Abandonment Rec:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	03
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501436.pdf			

Additional Detail(s) (Map)

Well Completed Date: 1961/06/17
Year Completed: 1961
Depth (m): 15.24
Latitude: 45.4460814164288
Longitude: -75.528177788118
Path: 150\1501436.pdf

Bore Hole Information

Bore Hole ID:	10023479	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458695.80
Code OB Desc:		North83:	5032642.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	17-Jun-1961 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 930991824
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:		930991823			
Layer:		1			
Color:					
General Color:					
Mat1:		13			
Most Common Material:		BOULDERS			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		5.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501436			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572049			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039840			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		50.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039839			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		7.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501436			
Pump Set At:					
Static Level:		3.0			
Final Level After Pumping:		20.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Depth:		20.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		10.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			

Water Details

Water ID: 933454143
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 50.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023479	Tag No:
Depth M: 15.24	Contractor: 1504
Year Completed: 1961	Path: 150\1501436.pdf
Well Completed Dt: 1961/06/17	Latitude: 45.4460814164288
Audit No:	Longitude: -75.528177788118

[46](#) 1 of 1 **E/173.6** **88.9 / 0.00** **lot 5 con 3 ON** **WWIS**

Well ID: 1501413	Flowing (Y/N):
Construction Date:	Flow Rate:
Use 1st: Domestic	Data Entry Status:
Use 2nd: 0	Data Src: 1
Final Well Status: Water Supply	Date Received: 05-Sep-1962 00:00:00
Water Type:	Selected Flag: TRUE
Casing Material:	Abandonment Rec:
Audit No:	Contractor: 1632
Tag:	Form Version: 1
Constructn Method:	Owner:
Elevation (m):	County: OTTAWA-CARLETON
Elevatn Reliabilty:	Lot: 005
Depth to Bedrock:	Concession: 03
Well Depth:	Concession Name: OF
Overburden/Bedrock:	Easting NAD83:
Pump Rate:	Northing NAD83:
Static Water Level:	Zone:
Clear/Cloudy:	UTM Reliability:
Municipality: GLOUCESTER TOWNSHIP	
Site Info:	

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501413.pdf

Additional Detail(s) (Map)

Well Completed Date: 1962/06/15
Year Completed: 1962
Depth (m): 12.192
Latitude: 45.4480851387163

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Longitude:		-75.5230813023785			
Path:		150\1501413.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10023456			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	459095.80
Code OB Desc:				North83:	5032862.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	15-Jun-1962 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991773				
Layer:	2				
Color:					
General Color:					
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	1.0				
Formation End Depth:	40.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991772				
Layer:	1				
Color:					
General Color:					
Mat1:	02				
Most Common Material:	TOPSOIL				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0.0				
Formation End Depth:	1.0				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	961501413				
Method Construction Code:	1				
Method Construction:	Cable Tool				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572026			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039796			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		13.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039797			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		40.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501413			
Pump Set At:					
Static Level:		5.0			
Final Level After Pumping:		30.0			
Recommended Pump Depth:		35.0			
Pumping Rate:		3.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933454120			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		40.0			
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Links					
Bore Hole ID:	10023456			Tag No:	
Depth M:	12.192			Contractor:	1632
Year Completed:	1962			Path:	150\1501413.pdf
Well Completed Dt:	1962/06/15			Latitude:	45.4480851387163
Audit No:				Longitude:	-75.5230813023785
47	1 of 1	E/178.7	88.9 / 0.00	3574 Innes Road Orléans ON K1C 1T1	EHS
Order No:	20190621312			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	TN
Report Date:	28-JUN-19			Search Radius (km):	.25
Date Received:	21-JUN-19			X:	-75.522932
Previous Site Name:				Y:	45.447415
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; City Directory; Aerial Photos				
48	1 of 2	WNW/183.4	89.9 / 1.00	1813-1835 Loranger Court Ottawa ON K1C	EHS
Order No:	21012200611			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	27-JAN-21			Search Radius (km):	.25
Date Received:	22-JAN-21			X:	-75.5288705
Previous Site Name:				Y:	45.4485462
Lot/Building Size:					
Additional Info Ordered:					
48	2 of 2	WNW/183.4	89.9 / 1.00	1813-1835 Loranger Court Ottawa ON K1C	EHS
Order No:	21012200611			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	27-JAN-21			Search Radius (km):	.25
Date Received:	22-JAN-21			X:	-75.5288705
Previous Site Name:				Y:	45.4485462
Lot/Building Size:					
Additional Info Ordered:					
49	1 of 1	ESE/186.7	88.9 / 0.00	GIBSON PATTERSON 245 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1 Ottawa ON	RSC
RSC ID:	226598			Cert Date:	
RA No:				Cert Prop Use No:	
RSC Type:	Phase 1 RSC			Intended Prop Use:	Residential
Curr Property Use:	Commercial			Qual Person Name:	TIM ROBERSTON
Ministry District:	Ottawa District Office			Stratified (Y/N):	
Filing Date:	2020/04/20			Audit (Y/N):	
Date Ack:				Entire Leg Prop. (Y/N):	
Date Returned:				Accuracy Estimate:	
Restoration Type:				Telephone:	
Soil Type:				Fax:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Criteria:
CPU Issued Sect
1686:
Asmt Roll No: 0614600205029010000
Prop ID No (PIN): 04404-1854 (LT),
04404-1855 (LT)
Property Municipal Address: 275 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1, 245 LAMARCHE AVENUE, OTTAWA, ON K1C 1T1
Mailing Address:
Latitude & Latitude:
UTM Coordinates:
Consultant:
Legal Desc:
Measurement Method:
Applicable Standards:
RSC PDF: <https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125250&fileName=BROWNFIELDS-E.pdf>

Document(s) Detail

Document Heading: Supporting Documents
Document Name: Current and Past Use Table - 245 and 275.pdf
Document Type: Table of Current and Past Property Use
Document Link: <https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125252&fileName=Current+and+Past+Use+Table+-+245+and+275.pdf>

Document Heading: Supporting Documents
Document Name: RSC Letter Blks 147-148 - 7 Feb 2020 - signed.pdf
Document Type: Lawyer's letter consisting of a legal description of the property
Document Link: <https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125247&fileName=RSC+Letter+Blks+147-148+-+7+Feb+2020+-+signed.pdf>

Document Heading: Supporting Documents
Document Name: 04404-1854 and 04404-1855.pdf
Document Type: Copy of any deed(s), transfer(s) or other document(s)
Document Link: <https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=125253&fileName=04404-1854+and+04404-1855.pdf>

Document Heading: Supporting Documents
Document Name: PhaseOne.pdf
Document Type: Phase 1 Conceptual Site Model
Document Link: <https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=127266&fileName=PhaseOne.pdf>

Document Heading: Supporting Documents
Document Name: Survey.pdf
Document Type: A Current plan of Survey
Document Link: <https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=127265&fileName=Survey.pdf>

<u>50</u>	1 of 1	WSW/193.2	88.9 / 0.00	lot 6 con 3 ON	WWIS
Well ID:	1501423			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	14-Nov-1961 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	03

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: Site Info:		GLOUCESTER TOWNSHIP		Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501423.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1961/08/16			
Year Completed:		1961			
Depth (m):		17.6784			
Latitude:		45.4459899294072			
Longitude:		-75.5284966216345			
Path:		150\1501423.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10023466		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 18	
Code OB:				East83: 458670.80	
Code OB Desc:				North83: 5032632.00	
Open Hole:				Org CS:	
Cluster Kind:				UTMRC: 5	
Date Completed:		16-Aug-1961 00:00:00		UTMRC Desc: margin of error : 100 m - 300 m	
Remarks:				Location Method: p5	
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991794			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		58.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501423			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Pipe Information

Pipe ID: 10572036
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930039814
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 58.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039813
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 8.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501423
Pump Set At:
Static Level: 4.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 7.0
Flowing Rate:
Recommended Pump Rate: 7.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933454130
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 58.0
Water Found Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Links					
Bore Hole ID:	10023466			Tag No:	
Depth M:	17.6784			Contractor:	1504
Year Completed:	1961			Path:	150\1501423.pdf
Well Completed Dt:	1961/08/16			Latitude:	45.4459899294072
Audit No:				Longitude:	-75.5284966216345

51	1 of 1	W/194.1	89.9 / 1.00	lot 6 con 2 ON	WWIS
Well ID:	1501236			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Commerical			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	21-Apr-1961 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1802
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	006
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501236.pdf

Additional Detail(s) (Map)

Well Completed Date: 1961/04/08
Year Completed: 1961
Depth (m): 73.152
Latitude: 45.4473353170019
Longitude: -75.5295322090566
Path: 150\1501236.pdf

Bore Hole Information

Bore Hole ID:	10023279	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458590.80
Code OB Desc:		North83:	5032782.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	08-Apr-1961 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991307			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991308			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		17			
Mat2 Desc:		SHALE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12.0			
Formation End Depth:		240.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501236			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571849			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039452			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		240.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930039451			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		16.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501236			
Pump Set At:					
Static Level:		10.0			
Final Level After Pumping:		230.0			
Recommended Pump Depth:		200.0			
Pumping Rate:		2.0			
Flowing Rate:					
Recommended Pump Rate:		2.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453932			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		120.0			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933453934			
Layer:		3			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		230.0			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933453933			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		170.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:	10023279			Tag No:	
Depth M:	73.152			Contractor:	1802

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Year Completed:	1961			Path:	150\1501236.pdf
Well Completed Dt:	1961/04/08			Latitude:	45.4473353170019
Audit No:				Longitude:	-75.5295322090566

52	1 of 1	W/196.3	89.9 / 1.00	2084 MONTREAL ROAD OTTAWA ON	WWIS
Well ID:	1535516			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:				Data Entry Status:	
Use 2nd:				Data Src:	
Final Well Status:	Observation Wells			Date Received:	28-May-2005 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	Z27124			Contractor:	1844
Tag:	A020636			Form Version:	3
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	
Depth to Bedrock:				Concession:	
Well Depth:				Concession Name:	
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1535516.pdf

Additional Detail(s) (Map)

Well Completed Date: 2005/04/11
Year Completed: 2005
Depth (m): 5
Latitude: 45.4472272595681
Longitude: -75.5295414282091
Path: 153\1535516.pdf

Bore Hole Information

Bore Hole ID:	11316055	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458590.00
Code OB Desc:		North83:	5032770.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	11-Apr-2005 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 932996511

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		84			
Mat2 Desc:		SILTY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		3.0			
Formation End Depth:		5.0			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932996510			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		77			
Mat3 Desc:		LOOSE			
Formation Top Depth:		0.0			
Formation End Depth:		3.0			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933269515			
Layer:		1			
Plug From:		0.0			
Plug To:		1.0			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961535516			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11330910			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930855323			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0.0			
Depth To:		2.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter:		5.0			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			

Construction Record - Screen

Screen ID:	933412859
Layer:	1
Slot:	10
Screen Top Depth:	2.0
Screen End Depth:	5.0
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.5

Hole Diameter

Hole ID:	11533550
Diameter:	20.0
Depth From:	0.0
Depth To:	5.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	11316055	Tag No:	A020636
Depth M:	5	Contractor:	1844
Year Completed:	2005	Path:	153\1535516.pdf
Well Completed Dt:	2005/04/11	Latitude:	45.4472272595681
Audit No:	Z27124	Longitude:	-75.5295414282091

53	1 of 1	SSW/203.6	88.9 / 0.00	lot 6 con 3 ON	WWIS
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Well ID:	1501424	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:	0	Data Src:	1
Final Well Status:	Water Supply	Date Received:	14-Nov-1961 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	1628
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliabilty:		Lot:	006
Depth to Bedrock:		Concession:	03
Well Depth:		Concession Name:	OF
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP		
Site Info:			
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501424.pdf		

Additional Detail(s) (Map)

Well Completed Date:	1961/09/19
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Year Completed:		1961			
Depth (m):		13.4112			
Latitude:		45.4454125539429			
Longitude:		-75.5268288731209			
Path:		150\1501424.pdf			

Bore Hole Information

Bore Hole ID:	10023467	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458800.80
Code OB Desc:		North83:	5032567.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	19-Sep-1961 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	930991795
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	930991796
Layer:	2
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	13.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		930991797			
Layer:		3			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		13.0			
Formation End Depth:		44.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501424			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572037			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039816			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		44.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039815			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		16.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501424			
Pump Set At:					
Static Level:		6.0			
Final Level After Pumping:		28.0			
Recommended Pump Depth:		28.0			
Pumping Rate:		15.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			

Water Details

Water ID: 933454131
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Links

Bore Hole ID:	10023467	Tag No:	
Depth M:	13.4112	Contractor:	1628
Year Completed:	1961	Path:	150\1501424.pdf
Well Completed Dt:	1961/09/19	Latitude:	45.4454125539429
Audit No:		Longitude:	-75.5268288731209

<u>54</u>	1 of 1	E/203.7	88.9 / 0.00	lot 5 con 3 ON	WWIS
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Well ID:	1501406	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:	0	Data Src:	1
Final Well Status:	Water Supply	Date Received:	01-Jun-1962 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	1504
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliability:		Lot:	005
Depth to Bedrock:		Concession:	03
Well Depth:		Concession Name:	OF
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501406.pdf

Additional Detail(s) (Map)

Well Completed Date: 1962/05/10
Year Completed: 1962
Depth (m): 9.7536
Latitude: 45.4482666191034
Longitude: -75.5227632796448
Path: 150\1501406.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Bore Hole Information</u>					
Bore Hole ID:	10023449			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	459120.80
Code OB Desc:				North83:	5032882.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	10-May-1962 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991758				
Layer:	1				
Color:					
General Color:					
Mat1:	02				
Most Common Material:	TOPSOIL				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0.0				
Formation End Depth:	1.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991759				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	1.0				
Formation End Depth:	32.0				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	961501406				
Method Construction Code:	7				
Method Construction:	Diamond				
Other Method Construction:					

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

Pipe ID: 10572019
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930039782
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 8.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039783
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 32.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501406
Pump Set At:
Static Level: 4.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 9.0
Flowing Rate:
Recommended Pump Rate: 9.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933454113
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 32.0
Water Found Depth UOM: ft

Links

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10023449			Tag No:	
Depth M:	9.7536			Contractor:	1504
Year Completed:	1962			Path:	150\1501406.pdf
Well Completed Dt:	1962/05/10			Latitude:	45.4482666191034
Audit No:				Longitude:	-75.5227632796448

[55](#) 1 of 1 **SSW/205.6** **88.9 / 0.00** **RHEAL SIMARD - PT. LOT 5, CONC. 3
PAGE RD./BUTTONFIELD PLACE
GLOUCESTER CITY ON** **CA**

Certificate #: 3-1272-91-
Application Year: 91
Issue Date: 8/22/1991
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

[56](#) 1 of 1 **W/208.7** **89.9 / 1.00** **ON** **BORE**

Borehole ID:	615214	Inclin FLG:	No
OGF ID:	215516156	SP Status:	Initial Entry
Status:		Surv Elev:	No
Type:	Borehole	Piezometer:	No
Use:		Primary Name:	
Completion Date:		Municipality:	
Static Water Level:	1.5	Lot:	
Primary Water Use:		Township:	
Sec. Water Use:		Latitude DD:	45.447067
Total Depth m:	-999	Longitude DD:	-75.529658
Depth Ref:	Ground Surface	UTM Zone:	18
Depth Elev:		Easting:	458581
Drill Method:		Northing:	5032752
Orig Ground Elev m:	91.4	Location Accuracy:	
Elev Reliabil Note:		Accuracy:	Not Applicable
DEM Ground Elev m:	91.8		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218400841	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	2.1	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	CLAY.		

Geology Stratum ID: 218400842 **Mat Consistency:**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Latitude:		45.4458099126519			
Longitude:		-75.5284949406416			
Path:		151\1511029.pdf			

Bore Hole Information

Bore Hole ID:	10033031	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458670.80
Code OB Desc:		North83:	5032612.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	25-Nov-1970 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931016500
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	56.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931016498
Layer:	1
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931016499
Layer:	2

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Color:					
General Color:					
Mat1:		12			
Most Common Material:		STONES			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		4.0			
Formation End Depth:		10.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961511029			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10581601			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930058601			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		56.0			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930058600			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		BAILER			
Pump Test ID:		991511029			
Pump Set At:					
Static Level:		10.0			
Final Level After Pumping:		15.0			
Recommended Pump Depth:		30.0			
Pumping Rate:		15.0			
Flowing Rate:					
Recommended Pump Rate:		10.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934642303
Test Type: Draw Down
Test Duration: 45
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934097574
Test Type: Draw Down
Test Duration: 15
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934899644
Test Type: Draw Down
Test Duration: 60
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934380587
Test Type: Draw Down
Test Duration: 30
Test Level: 15.0
Test Level UOM: ft

Water Details

Water ID: 933466097
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 54.0
Water Found Depth UOM: ft

Links

Bore Hole ID:	10033031	Tag No:	3504
Depth M:	17.0688	Contractor:	151\1511029.pdf
Year Completed:	1970	Path:	45.4458099126519
Well Completed Dt:	1970/11/25	Latitude:	-75.5284949406416
Audit No:		Longitude:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	1501237			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	14-Nov-1961 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501237.pdf

Additional Detail(s) (Map)

Well Completed Date: 1961/05/08
Year Completed: 1961
Depth (m): 5.4864
Latitude: 45.4465258346052
Longitude: -75.5293967589466
Path: 150\1501237.pdf

Bore Hole Information

Bore Hole ID:	10023280	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458600.80
Code OB Desc:		North83:	5032692.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	08-May-1961 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 930991309
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		16.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991310			
Layer:		2			
Color:					
General Color:					
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		16.0			
Formation End Depth:		18.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501237			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571850			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039453			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		18.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501237			
Pump Set At:					
Static Level:		5.0			
Final Level After Pumping:		16.0			
Recommended Pump Depth:		16.0			
Pumping Rate:		12.0			
Flowing Rate:					
Recommended Pump Rate:		12.0			
Levels UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:		GPM 1 CLEAR 1 1 0 No			
<u>Water Details</u>					
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:		933453935 1 1 FRESH 18.0 ft			
<u>Links</u>					
Bore Hole ID: Depth M: Year Completed: Well Completed Dt: Audit No:		10023280 5.4864 1961 1961/05/08		Tag No: Contractor: Path: Latitude: Longitude:	1504 150\1501237.pdf 45.4465258346052 -75.5293967589466
59	1 of 2	ESE/215.6	88.9 / 0.00	245/275 ave de lamarche Ottawa ON K1W 1H2	EHS
Order No: Status: Report Type: Report Date: Date Received: Previous Site Name: Lot/Building Size: Additional Info Ordered:		22011900082 C Custom Report 24-JAN-22 19-JAN-22		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -75.52307509 45.4463796
59	2 of 2	ESE/215.6	88.9 / 0.00	245/275 ave de lamarche Ottawa ON K1W 1H2	EHS
Order No: Status: Report Type: Report Date: Date Received: Previous Site Name: Lot/Building Size: Additional Info Ordered:		22011900082 C Custom Report 24-JAN-22 19-JAN-22		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -75.52307509 45.4463796
60	1 of 1	SSW/226.1	88.9 / 0.00	lot 6 con 3 ON	WWIS
Well ID: Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material: Audit No:		1501441 Domestic 0 Water Supply		Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor:	1 15-Aug-1961 00:00:00 TRUE 1504

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	006
Depth to Bedrock:				Concession:	03
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501441.pdf

Additional Detail(s) (Map)

Well Completed Date: 1961/06/26
Year Completed: 1961
Depth (m): 15.8496
Latitude: 45.4451881226013
Longitude: -75.5266989109321
Path: 150\1501441.pdf

Bore Hole Information

Bore Hole ID:	10023484	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458810.80
Code OB Desc:		North83:	5032542.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	26-Jun-1961 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 930991835
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		930991836			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		28.0			
Formation End Depth:		52.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501441			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572054			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039850			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		52.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039849			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501441			
Pump Set At:					
Static Level:					
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Rate:		8.0			
Flowing Rate:					
Recommended Pump Rate:		8.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		Yes			

Water Details

Water ID:	933454148
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	52.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10023484	Tag No:	
Depth M:	15.8496	Contractor:	1504
Year Completed:	1961	Path:	150\1501441.pdf
Well Completed Dt:	1961/06/26	Latitude:	45.4451881226013
Audit No:		Longitude:	-75.5266989109321

61	1 of 1	ENE/228.1	88.9 / 0.00	lot 4 con 3 ON	WWIS
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Well ID:	1518180	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:	0	Data Src:	1
Final Well Status:	Water Supply	Date Received:	05-Apr-1983 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	1504
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliabilty:		Lot:	004
Depth to Bedrock:		Concession:	03
Well Depth:		Concession Name:	OF
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1518180.pdf

Additional Detail(s) (Map)

Well Completed Date:	1982/06/17
Year Completed:	1982
Depth (m):	25.2984
Latitude:	45.4486181786064
Longitude:	-75.5226514344141

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Path:		151\1518180.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10040050			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	459129.80
Code OB Desc:				North83:	5032921.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	17-Jun-1982 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m				
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931037615				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	4.0				
Formation End Depth:	83.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931037614				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	14				
Most Common Material:	HARDPAN				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0.0				
Formation End Depth:	4.0				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	961518180				
Method Construction Code:	4				
Method Construction:	Rotary (Air)				
Other Method Construction:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Pipe Information

Pipe ID: 10588620
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930069941
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991518180
Pump Set At:
Static Level: 13.0
Final Level After Pumping: 80.0
Recommended Pump Depth: 70.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934639310
Test Type: Recovery
Test Duration: 45
Test Level: 13.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934897354
Test Type: Recovery
Test Duration: 60
Test Level: 13.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934103499
Test Type: Recovery
Test Duration: 15

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		20.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934378252			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		13.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933474839			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		83.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:		10040050		Tag No:	
Depth M:		25.2984		Contractor:	1504
Year Completed:		1982		Path:	151\1518180.pdf
Well Completed Dt:		1982/06/17		Latitude:	45.4486181786064
Audit No:				Longitude:	-75.5226514344141
62	1 of 1	WNW/240.6	88.9 / 0.00	MICHEL LAMARCHE ENTERPRISES INC. PRIVATE MEADOWGLEN DRIVE AT PAGE ROAD GLOUCESTER CITY ON	CA
Certificate #:		7-1094-89-			
Application Year:		89			
Issue Date:		7/17/1989			
Approval Type:		Municipal water			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
63	1 of 1	WSW/242.3	88.9 / 0.00	lot 6 con 3 ON	WWIS
Well ID:		1501422		Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:		Domestic		Data Entry Status:	
Use 2nd:		0		Data Src:	1
Final Well Status:		Water Supply		Date Received:	25-May-1961 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1629
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	03
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501422.pdf			

Additional Detail(s) (Map)

Well Completed Date: 1961/03/03
Year Completed: 1961
Depth (m): 21.336
Latitude: 45.4456728285032
Longitude: -75.5289412202896
Path: 150\1501422.pdf

Bore Hole Information

Bore Hole ID:	10023465	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458635.80
Code OB Desc:		North83:	5032597.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	03-Mar-1961 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 930991793
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 36.0
Formation End Depth: 70.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 930991792
Layer: 1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		36.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501422			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572035			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039812			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		70.0			
Casing Diameter:		3.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039811			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		36.0			
Casing Diameter:		3.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501422			
Pump Set At:					
Static Level:		2.0			
Final Level After Pumping:		3.0			
Recommended Pump Depth:		3.0			
Pumping Rate:		15.0			
Flowing Rate:					
Recommended Pump Rate:		2.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933454129			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		70.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:		10023465		Tag No:	
Depth M:		21.336		Contractor: 1629	
Year Completed:		1961		Path: 150\1501422.pdf	
Well Completed Dt:		1961/03/03		Latitude: 45.4456728285032	
Audit No:				Longitude: -75.5289412202896	

64	1 of 1	ENE/243.5	88.9 / 0.00	Bell 3605 Innes Rd Orleans ON K1C 1T1	GEN
Generator No:		ON5017930		Status: Registered	
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:		As of Apr 2022		Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:		Canada		MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:		121 C			
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		112 C			
Waste Class Desc:		ACID WASTE - HEAVY METALS			

65	1 of 1	SSW/244.5	88.6 / -0.31	lot 6 con 3 ON	WWIS
Well ID:		1501426		Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:		Domestic		Data Entry Status:	
Use 2nd:		0		Data Src: 1	
Final Well Status:		Water Supply		Date Received: 20-Feb-1962 00:00:00	
Water Type:				Selected Flag: TRUE	
Casing Material:				Abandonment Rec:	
Audit No:				Contractor: 1504	
Tag:				Form Version: 1	
Constructn Method:				Owner:	
Elevation (m):				County: OTTAWA-CARLETON	
Elevatn Reliabilty:				Lot: 006	
Depth to Bedrock:				Concession: 03	
Well Depth:				Concession Name: OF	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501426.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1961/12/22			
Year Completed:		1961			
Depth (m):		9.7536			
Latitude:		45.4450086953084			
Longitude:		-75.5265693684836			
Path:		150\1501426.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10023469		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	458820.80
Code OB Desc:				North83:	5032522.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:		22-Dec-1961 00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991801			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		18.0			
Formation End Depth:		32.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991800			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		18.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501426			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572039			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039819			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039820			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		32.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501426			
Pump Set At:					
Static Level:		2.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		12.0			
Flowing Rate:					
Recommended Pump Rate:		12.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:		CLEAR 1 1 0 No			
<u>Water Details</u>					
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:		933454133 1 1 FRESH 32.0 ft			
<u>Links</u>					
Bore Hole ID: Depth M: Year Completed: Well Completed Dt: Audit No:		10023469 9.7536 1961 1961/12/22 1961/12/22		Tag No: Contractor: Path: Latitude: Longitude:	
				1504 150\1501426.pdf 45.4450086953084 -75.5265693684836	
66	1 of 9	ENE/247.2	88.9 / 0.00	BELL CANADA 3605 INNIS ROAD CUMBERLAND TWP. ON K1C 1T1	GEN
Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country:		ON0473533 4821 TELECOMMUN. CARRIERS 97,98,99,00,02,03,04		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:		146 OTHER SPECIFIED INORGANICS			
Waste Class: Waste Class Desc:		121 ALKALINE WASTES - HEAVY METALS			
66	2 of 9	ENE/247.2	88.9 / 0.00	BELL (OUT OF BUSINESS) 3605 INNIS ROAD CUMBERLAND TWP. ON K1C 1T1	GEN
Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country:		ON0473533 4821 TELECOMMUN. CARRIERS 01		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:		146 OTHER SPECIFIED INORGANICS			
Waste Class: Waste Class Desc:		121 ALKALINE WASTES - HEAVY METALS			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
66	3 of 9	ENE/247.2	88.9 / 0.00	BELL CANADA 3605 INNIS ORLEANS ON K1C 1T1	GEN
Generator No:	ON4745213			Status:	
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	05			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	221				
Waste Class Desc:	LIGHT FUELS				
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				

66	4 of 9	ENE/247.2	88.9 / 0.00	Bell Canada Innis Rd 3605, Orleans ON ORLEANS ON	DTNK
<u>Delisted Commercial Fuel Oil Tanks</u>					
Licence No:				Facility Type:	
Registration No:	200204-1519			Fuel Type:	
Posse File No:	FS OIL 2006-00410			Corrosion Protection:	
Posse Reg No:				NBR:	
Instance No:				Contact Name:	c/o Alain Naud
Status Name:				Contact Address:	3685 Aylmer - Bureau 200
Tank Type:				Contact Address2:	
Tank Size:	4546 L			Contact Suite:	
Tank Material:	Fiberglass reinforced plastic			Contact City:	Montreal
Tk Age(as of 05/1992):	12 yrs			Contact Prov:	QC
Tank Address:	Innis Rd 3605, Orleans ON			Contact Postal:	H2X 2C5
Instance Type:				Province:	
Instance Creation Dt:				Letter Sent:	
Instance Install Dt:				Context:	
Item:				Distributor:	Esso
Item Desc:				Comments:	
Device Instld Loc:					
Description:					
Original Source:	CFOT				
Record Date:	Up to Apr 2013				

66	5 of 9	ENE/247.2	88.9 / 0.00	Bell Canada 3605 Innes Road Ottawa ON K1C 1T1	CA
Certificate #:	7407-5V5LMA				
Application Year:	2004				
Issue Date:	1/12/2004				
Approval Type:	Air				
Status:	Approved				
Application Type:					
Client Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
66	6 of 9	ENE/247.2	88.9 / 0.00	BELL CANADA 3605 INNES RD OTTAWA K1C 1T1 ON CA ON	CFOT
<p>Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:</p>					
<p>Licence No: Registration No: Posse File No: Posse Reg No: Status Name: Tank Type: Double Wall UST Tank Size: 10000 Tank Material: Fiberglass (FRP) Instance No: 43536831 Inst Creation Date: 6/28/2006 Inst Install Date: 6/28/2006 Item: FS FUEL OIL TANK Tank Age (as of 05/1992): Device Installed Location: 3605 INNES RD OTTAWA K1C 1T1 ON CA Description: NULL Contact Name: Contact Address: Contact Address2: Contact Suite: Contact City: Contact Prov: Contact Postal:</p> <p>Item Description: Fuel Oil Tank Instance Type: Facility Type: Fuel Type: Distributor: Letter Sent: Comments: Corrosion Protect: Province: Nbr: Context: FS Fuel Oil Tank</p>					
66	7 of 9	ENE/247.2	88.9 / 0.00	Bell Canada 3605 Innes Road Ottawa ON K1C 1T1	ECA
<p>Approval No: 7407-5V5LMA Approval Date: 2004-01-12 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-AIR Project Type: AIR Business Name: Bell Canada Address: 3605 Innes Road Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2186-5TGRNR-14.pdf PDF Site Location:</p> <p>MOE District: Ottawa City: Longitude: -75.52272 Latitude: 45.449066 Geometry X: Geometry Y:</p>					
66	8 of 9	ENE/247.2	88.9 / 0.00	BELL CANADA 3605 INNES RD OTTAWA K1C 1T1 ON CA ON	DTNK
<p>Delisted Fuel Storage Tank</p> <p>Instance No: 43536831 Creation Date: 7/5/2009 2:57:53 AM</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Status:	Active			Overfill Prot Type:	
Instance Type:				Facility Location:	3605 INNES RD OTTAWA K1C 1T1 ON CA
Fuel Type:				Piping SW Steel:	
Cont Name:				Piping SW Galvan:	
Capacity:	10000			Tanks SW Steel:	
Tank Material:	Fiberglass (FRP)			Piping Underground:	
Corrosion Prot:	NULL			No Underground:	
Tank Type:	Double Wall UST			Max Hazard Rank:	NULL
Install Year:	2005			Max Hazard Rank 1:	NULL
Facility Type:	FS FUEL OIL TANK			Nxt Period Start Dt:	NULL
Device Installed Loc:				Program Area 1:	NULL
Fuel Type 2:				Program Area 2:	NULL
Fuel Type 3:				Nxt Period Strt Dt 2:	NULL
Item:				Risk Based Periodic:	NULL
Item Description:	Fuel Oil Tank			Vol of Directives:	NULL
Model:	NULL			Years in Service:	4.8
Description:	NULL			Created Date:	28-JUN-06
Instance Creation Dt:	6/28/2006			Federal Device:	NULL
Instance Install Dt:	6/28/2006			Periodic Exempt:	NULL
Manufacturer:	NULL			Statutory Interval:	NULL
Serial No:	NULL			Rcomnd Insp Interval:	NULL
ULC Standard:	ULC-s615			Recommended Toler:	NULL
Quantity:	1			Panam Venue Name:	NULL
Unit of Measure:	EA			External Identifier:	NULL
Parent Fac Type:					
TSSA Base Sched Cycle 1:	NULL				
TSSA Base Sched Cycle 2:	NULL				
Original Source:	FST				
Record Date:	31-MAY-2021				

[66](#) 9 of 9 **ENE/247.2** **88.9 / 0.00** **Bell**
3605 Innes Rd
Orleans ON K1C 1T1 **GEN**

Generator No:	ON5017930	Status:	Registered
SIC Code:		Co Admin:	
SIC Description:		Choice of Contact:	
Approval Years:	As of Nov 2021	Phone No Admin:	
PO Box No:		Contam. Facility:	
Country:	Canada	MHSW Facility:	

Detail(s)

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

[67](#) 1 of 1 **ENE/248.2** **88.9 / 0.00** **lot 5 con 3**
ON **WWIS**

Well ID:	1501414	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:	0	Data Src:	1
Final Well Status:	Water Supply	Date Received:	05-Sep-1962 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:		Contractor:	1504
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevatn Reliability:				Lot:	005
Depth to Bedrock:				Concession:	03
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501414.pdf

Additional Detail(s) (Map)

Well Completed Date: 1962/07/24
Year Completed: 1962
Depth (m): 10.0584
Latitude: 45.4484489757761
Longitude: -75.5222534422482
Path: 150\1501414.pdf

Bore Hole Information

Bore Hole ID:	10023457	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	459160.80
Code OB Desc:		North83:	5032902.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	24-Jul-1962 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 930991774
Layer: 1
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 33.0
Formation End Depth UOM: ft

Method of Construction & Well

Use

Method Construction ID: 961501414
Method Construction Code: 7

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572027			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039799			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		33.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039798			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		8.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501414			
Pump Set At:					
Static Level:		4.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		9.0			
Flowing Rate:					
Recommended Pump Rate:		9.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933454121			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		33.0			
Water Found Depth UOM:		ft			

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

Bore Hole ID:	10023457	Tag No:	
Depth M:	10.0584	Contractor:	1504
Year Completed:	1962	Path:	150\1501414.pdf
Well Completed Dt:	1962/07/24	Latitude:	45.4484489757761
Audit No:		Longitude:	-75.5222534422482

[68](#) 1 of 1 WSW/249.2 88.9 / 0.00 ON **BORE**

Borehole ID:	615202	Inclin FLG:	No
OGF ID:	215516144	SP Status:	Initial Entry
Status:		Surv Elev:	No
Type:	Borehole	Piezometer:	No
Use:		Primary Name:	
Completion Date:		Municipality:	
Static Water Level:	1.2	Lot:	
Primary Water Use:		Township:	
Sec. Water Use:		Latitude DD:	45.44563
Total Depth m:	-999	Longitude DD:	-75.529005
Depth Ref:	Ground Surface	UTM Zone:	18
Depth Elev:		Easting:	458631
Drill Method:		Northing:	5032592
Orig Ground Elev m:	89.9	Location Accuracy:	
Elev Reliabil Note:		Accuracy:	Not Applicable
DEM Ground Elev m:	89.7		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218400814	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	11	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	CLAY.		
Geology Stratum ID:	218400815	Mat Consistency:	Loose
Top Depth:	11	Material Moisture:	
Bottom Depth:		Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Bedrock	Geologic Formation:	
Material 2:	Limestone	Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	BEDROCK. WATER STABLE AT 291.0 FEET.LOOSE. BEDROCK. 10DROCK. BEDROCK. BEDROCK. WAT **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Iden:	1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Date: Confidence: Observatio: Source Name: Source Details: Confiden 1:	1956-1972 M			Scale or Res: Horizontal: Verticalda:	Varies NAD27 Mean Average Sea Level
Source List					
Source Identifier: Source Type: Source Date: Scale or Resolution: Source Name: Source Originators:	1 Data Survey 1956-1972 Varies			Horizontal Datum: Vertical Datum: Projection Name:	NAD27 Mean Average Sea Level Universal Transverse Mercator
69	1 of 2	E/250.6	88.9 / 0.00	Halo Car Wash Inc. 3604 Innes Road Ottawa ON K0C 1T0	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link: PDF Site Location:	2354-BLCQK8 2020-02-04 Approved ECA IDS			MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	
		ECA-INDUSTRIAL SEWAGE WORKS			
		INDUSTRIAL SEWAGE WORKS			
		Halo Car Wash Inc.			
		3604 Innes Road			
		https://www.accessenvironment.ene.gov.on.ca/instruments/5474-BB4P6A-14.pdf			
69	2 of 2	E/250.6	88.9 / 0.00	GLENVIEW HOMES (INNES) LTD. 3604 Innes RD Ottawa ON K1C 1T1	EASR
Approval No: Status: Date: Record Type: Link Source: Project Type: Full Address: Approval Type: SWP Area Name: PDF URL: PDF Site Location:	R-009-6161605354 REGISTERED February 4, 2022 EASR MOFA Water Taking - Construction Dewatering			MOE District: Municipality: Latitude: Longitude: Geometry X: Geometry Y:	Ottawa Ottawa 45.44777778 -75.52194444 -8407064.3992999997 5692292.5612000003
		EASR-Water Taking - Construction Dewatering			
		Rideau Valley			
		http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2568751			
		3604 Innes Road			
		Ottawa ON K1C 1T1			
70	1 of 1	W/254.5	89.9 / 1.00	lot 6 con 2 ON	WWIS
Well ID: Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material:	1510727 Domestic 0 Water Supply			Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec:	1 30-Jul-1970 00:00:00 TRUE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GLOUCESTER TOWNSHIP			
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510727.pdf

Additional Detail(s) (Map)

Well Completed Date: 1969/07/31
Year Completed: 1969
Depth (m): 9.144
Latitude: 45.4476917908786
Longitude: -75.5303028171503
Path: 151\1510727.pdf

Bore Hole Information

Bore Hole ID:	10032744	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458530.80
Code OB Desc:		North83:	5032822.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	31-Jul-1969 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 931015671
Layer: 1
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Method of Construction & Well

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Use</u>					
<i>Method Construction ID:</i>		961510727			
<i>Method Construction Code:</i>		7			
<i>Method Construction:</i>		Diamond			
<i>Other Method Construction:</i>					
<u>Pipe Information</u>					
<i>Pipe ID:</i>		10581314			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930058054			
<i>Layer:</i>		1			
<i>Material:</i>		2			
<i>Open Hole or Material:</i>		GALVANIZED			
<i>Depth From:</i>					
<i>Depth To:</i>		15.0			
<i>Casing Diameter:</i>		2.0			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930058055			
<i>Layer:</i>		2			
<i>Material:</i>		4			
<i>Open Hole or Material:</i>		OPEN HOLE			
<i>Depth From:</i>					
<i>Depth To:</i>		30.0			
<i>Casing Diameter:</i>					
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
<u>Results of Well Yield Testing</u>					
<i>Pumping Test Method Desc:</i>		PUMP			
<i>Pump Test ID:</i>		991510727			
<i>Pump Set At:</i>					
<i>Static Level:</i>		5.0			
<i>Final Level After Pumping:</i>		20.0			
<i>Recommended Pump Depth:</i>		25.0			
<i>Pumping Rate:</i>		10.0			
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>		6.0			
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>		1			
<i>Water State After Test:</i>		CLEAR			
<i>Pumping Test Method:</i>		1			
<i>Pumping Duration HR:</i>		2			
<i>Pumping Duration MIN:</i>		0			
<i>Flowing:</i>		No			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		934380053			
<i>Test Type:</i>		Draw Down			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Duration:		30			
Test Level:		20.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934641629			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		20.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097318			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		20.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934897997			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		20.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933465762			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		30.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:		10032744		Tag No:	
Depth M:		9.144		Contractor:	1504
Year Completed:		1969		Path:	151\1510727.pdf
Well Completed Dt:		1969/07/31		Latitude:	45.4476917908786
Audit No:				Longitude:	-75.5303028171503

71	1 of 1	W/254.6	89.9 / 1.00	ON	BORE
Borehole ID:		615228		Inclin FLG:	No
OGF ID:		215516170		SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:		Borehole		Piezometer:	No
Use:				Primary Name:	
Completion Date:		JUL-1969		Municipality:	
Static Water Level:		10.2		Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.447694
Total Depth m:		9.1		Longitude DD:	-75.530304
Depth Ref:		Ground Surface		UTM Zone:	18
Depth Elev:				Easting:	458531
Drill Method:				Northing:	5032822

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Orig Ground Elev m: Elev Reliabil Note: DEM Ground Elev m: Concession: Location D: Survey D: Comments:	91.4 91.7			Location Accuracy: Accuracy:	Not Applicable
<u>Borehole Geology Stratum</u>					
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218400872 0 9.1 Grey Limestone			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
					LIMESTONE. GREY. 00040ROCK. WHITE. 00060 BEDROCK. 10DROCK. BEDROCK. BEDRO **Note: Many records provided by the department have a truncated [Stratum Description] field.
<u>Source</u>					
Source Type: Source Orig: Source Date: Confidence: Observatio: Source Name: Source Details: Confiden 1:	Data Survey Geological Survey of Canada 1956-1972			Source Appl: Source Iden: Scale or Res: Horizontal: Verticalda:	Spatial/Tabular 1 Varies NAD27 Mean Average Sea Level
					Urban Geology Automated Information System (UGAIS) File: OTTAWA2.txt RecordID: 07736 NTS_Sheet:
<u>Source List</u>					
Source Identifier: Source Type: Source Date: Scale or Resolution: Source Name: Source Originators:	1 Data Survey 1956-1972 Varies			Horizontal Datum: Vertical Datum: Projection Name:	NAD27 Mean Average Sea Level Universal Transverse Mercator
					Urban Geology Automated Information System (UGAIS) Geological Survey of Canada
72	1 of 1	E/255.1	88.9 / 0.00	3604 innes road lot 4 con 3 Ottawa ON	WWIS
Well ID: Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level:	7347161 Not Used Abandoned-Other			Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: County: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone:	15-Nov-2019 00:00:00 TRUE Yes 7417 7 OTTAWA-CARLETON 004 03 OF

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Clear/Cloudy: Municipality: Site Info:		GLOUCESTER TOWNSHIP		UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7347161.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:		2019/10/28 2019 45.4480361177218 -75.5219913155454 734\7347161.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Loc Method Desc: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	1007713292			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 459181.00 5032856.00 UTM83 4 margin of error : 30 m - 100 m wwr
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:		1008258863 1 0.0 24.34000015258789 ft			
<u>Pipe Information</u>					
Pipe ID: Casing No: Comment: Alt Name:		1008257973 0			
<u>Construction Record - Casing</u>					
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:		1008259549 1 1 STEEL 2.0 6.099999904632568 15.479999542236328 Inch ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Construction Record - Casing

Casing ID: 1008259550
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 6.099999904632568
Depth To: 24.34000015258789
Casing Diameter: 15.319999694824219
Casing Diameter UOM: Inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1008259881
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1008259307
Diameter: 15.319999694824219
Depth From: 0.0
Depth To: 24.34000015258789
Hole Depth UOM: ft
Hole Diameter UOM: Inch

Links

Bore Hole ID: 1007713292	Tag No:
Depth M:	Contractor: 7417
Year Completed: 2019	Path: 7347347161.pdf
Well Completed Dt: 2019/10/28	Latitude: 45.4480361177218
Audit No: Z321107	Longitude: -75.5219913155454

[73](#) 1 of 1 **ENE/256.7** **88.9 / 0.00** **lot 5 con 2 ON** **WWIS**

Well ID: 1501227	Flowing (Y/N):
Construction Date:	Flow Rate:
Use 1st: Commerical	Data Entry Status:
Use 2nd: 0	Data Src: 1
Final Well Status: Water Supply	Date Received: 16-Feb-1966 00:00:00
Water Type:	Selected Flag: TRUE
Casing Material:	Abandonment Rec:
Audit No:	Contractor: 3504
Tag:	Form Version: 1
Constructn Method:	Owner:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevation (m): Elevatn Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: Site Info:		County: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:		OTTAWA-CARLETON 005 02 OF GLOUCESTER TOWNSHIP	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501227.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1966/01/03			
Year Completed:		1966			
Depth (m):		20.7264			
Latitude:		45.448808424724			
Longitude:		-75.5223846407465			
Path:		150\1501227.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10023270		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	
Code OB:				18	
Code OB Desc:				East83:	
Open Hole:				459150.80	
Cluster Kind:				North83:	
Date Completed:		03-Jan-1966 00:00:00		5032942.00	
Remarks:				Org CS:	
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		5	
Elevrc Desc:				UTMRC:	
Location Source Date:				5	
Improvement Location Source:				UTMRC Desc:	
Improvement Location Method:				margin of error : 100 m - 300 m	
Source Revision Comment:				Location Method:	
Supplier Comment:				p5	
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991284			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		20.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991285			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		20.0			
Formation End Depth:		68.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501227			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571840			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039435			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		68.0			
Casing Diameter:		5.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039434			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		22.0			
Casing Diameter:		5.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501227			
Pump Set At:					
Static Level:		4.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		30.0			
Pumping Rate:		8.0			
Flowing Rate:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Recommended Pump Rate: 8.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933453920
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Water Details

Water ID: 933453921
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 62.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023270	Tag No:
Depth M: 20.7264	Contractor: 3504
Year Completed: 1966	Path: 150\1501227.pdf
Well Completed Dt: 1966/01/03	Latitude: 45.448808424724
Audit No:	Longitude: -75.5223846407465

<u>74</u>	1 of 1	E/258.5	88.9 / 0.00	3604 Innes Road Orléans ON K1C 1T1	EHS
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Order No: 20181203178	Nearest Intersection:
Status: C	Municipality:
Report Type: RSC Report (Urban)	Client Prov/State: ON
Report Date: 10-DEC-18	Search Radius (km): .3
Date Received: 03-DEC-18	X: -75.521937
Previous Site Name:	Y: 45.447993
Lot/Building Size:	
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos	

<u>75</u>	1 of 1	WSW/258.6	88.9 / 0.00	6276 SABLEWOOD PL ORLEANS ON K1C 7M5	PES
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Detail Licence No:		Operator Box:
Licence No: L-240-1803005885		Operator Class:
Status: Active		Operator No:
Approval Date: November, 30 2021		Operator Type:
Report Source: PEST-Operator		Oper Area Code:
Licence Type: Operator		Oper Phone No:
Licence Type Code:		Operator Ext:
Licence Class:		Operator Lot:
Licence Control:		Oper Concession:
Latitude: 45.44611111		Operator Region:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Longitude:	-75.52972222			Operator District:	
Lot:				Operator County:	
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	Metro Toronto
County:				SWP Area Name:	Toronto
Trade Name:					
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2532095				
PDF Site Location:					

76 1 of 1 SSE/260.5 87.9 / -1.00 ON BORE

Borehole ID:	615193	Inclin FLG:	No
OGF ID:	215516135	SP Status:	Initial Entry
Status:		Surv Elev:	No
Type:	Borehole	Piezometer:	No
Use:		Primary Name:	
Completion Date:		Municipality:	
Static Water Level:	1.2	Lot:	
Primary Water Use:		Township:	
Sec. Water Use:		Latitude DD:	45.444926
Total Depth m:	-999	Longitude DD:	-75.525418
Depth Ref:	Ground Surface	UTM Zone:	18
Depth Elev:		Easting:	458911
Drill Method:		Northing:	5032512
Orig Ground Elev m:	89.9	Location Accuracy:	
Elev Reliabil Note:		Accuracy:	Not Applicable
DEM Ground Elev m:	88.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218400790	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	16.5	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	CLAY.		

Geology Stratum ID:	218400791	Mat Consistency:	
Top Depth:	16.5	Material Moisture:	
Bottom Depth:		Material Texture:	
Material Color:	Black	Non Geo Mat Type:	
Material 1:	Bedrock	Geologic Formation:	
Material 2:	Limestone	Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	BEDROCK. WATER STABLE AT 291.0 FEET. ROCK. BLACK. 00110DROCK. BEDROCK. BEDROCK. WAT **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
---------------------	-------------	---------------------	-----------------

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Orig: Geological Survey of Canada Source Date: 1956-1972 Confidence: M Observatio: Source Name: Urban Geology Automated Information System (UGAIS) Source Details: File: OTTAWA2.txt RecordID: 077010 NTS_Sheet: 31G05H Confiden 1: Reliable information but incomplete.					
Source Ident: 1 Source Type: Data Survey Source Date: 1956-1972 Scale or Resolution: Varies Source Name: Urban Geology Automated Information System (UGAIS) Source Originators: Geological Survey of Canada					
Source Ident: 1 Source Type: Data Survey Source Date: 1956-1972 Scale or Resolution: Varies Source Name: Urban Geology Automated Information System (UGAIS) Source Originators: Geological Survey of Canada					
77	1 of 1	W/263.0	89.9 / 1.00	Caroline's Rub-Fine Spice 6355 Sablewood PI Orleans ON K1C 7M3	SCT
Established: 2003 Plant Size (ft²): Employment: 2					
--Details-- Description: Seasoning and Dressing Manufacturing SIC/NAICS Code: 311940 Description: All Other Miscellaneous Manufacturing SIC/NAICS Code: 339990					
78	1 of 1	S/263.6	87.8 / -1.03	lot 6 con 3 ON	WWIS
Well ID: 1501442 Construction Date: Use 1st: Domestic Use 2nd: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: GLOUCESTER TOWNSHIP Site Info:					
Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: 1 Date Received: 15-Aug-1961 00:00:00 Selected Flag: TRUE Abandonment Rec: Contractor: 1504 Form Version: 1 Owner: County: OTTAWA-CARLETON Lot: 006 Concession: 03 Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501442.pdf					
Additional Detail(s) (Map)					
Well Completed Date: 1961/06/27					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Year Completed:		1961			
Depth (m):		15.24			
Latitude:		45.4448292678592			
Longitude:		-75.5264398268603			
Path:		150\1501442.pdf			

Bore Hole Information

Bore Hole ID:	10023485	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458830.80
Code OB Desc:		North83:	5032502.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	27-Jun-1961 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	930991838
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	32.0
Formation End Depth:	50.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	930991837
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	32.0
Formation End Depth UOM:	ft

Method of Construction & Well

Use

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction ID:		961501442			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572055			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039851			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		34.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039852			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		50.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501442			
Pump Set At:					
Static Level:					
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		10.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		Yes			
<u>Water Details</u>					
Water ID:		933454149			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth:		50.0			
Water Found Depth UOM:		ft			
Links					
Bore Hole ID:	10023485			Tag No:	
Depth M:	15.24			Contractor:	1504
Year Completed:	1961			Path:	150\1501442.pdf
Well Completed Dt:	1961/06/27			Latitude:	45.4448292678592
Audit No:				Longitude:	-75.5264398268603

79	1 of 1	WSW/264.3	88.9 / 0.00	lot 6 con 2 ON	WWIS
Well ID:	1501234			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	25-May-1961 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1629
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501234.pdf

Additional Detail(s) (Map)

Well Completed Date: 1961/03/02
Year Completed: 1961
Depth (m): 14.3256
Latitude: 45.44589459053
Longitude: -75.5296466037386
Path: 150\1501234.pdf

Bore Hole Information

Bore Hole ID: 10023277
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02-Mar-1961 00:00:00
Remarks:
Loc Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:

Elevation:
Elevrc:
Zone: 18
East83: 458580.80
North83: 5032622.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Source Revision Comment:</i>					
<i>Supplier Comment:</i>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991300			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		2.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991302			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		4.0			
Formation End Depth:		47.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991301			
Layer:		2			
Color:					
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		2.0			
Formation End Depth:		4.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961501234			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					

Pipe Information

Pipe ID: 10571847
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930039448
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 11.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039449
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 47.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501234
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 9.0
Recommended Pump Depth: 9.0
Pumping Rate: 7.0
Flowing Rate:
Recommended Pump Rate: 2.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 3
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933453930
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 47.0
Water Found Depth UOM: ft

Links

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID: 10023277 Tag No: Depth M: 14.3256 Contractor: 1629 Year Completed: 1961 Path: 150\1501234.pdf Well Completed Dt: 1961/03/02 Latitude: 45.44589459053 Audit No: Longitude: -75.5296466037386					
80	1 of 1	ENE/265.5	88.9 / 0.00	2248 Boyer Road Ottawa ON K1C 1R4	EHS
Order No: 20140702041 Nearest Intersection: Status: C Municipality: Innes Ward, Orleans, City of Ottawa Report Type: Standard Report Client Prov/State: ON Report Date: 09-JUL-14 Search Radius (km): .25 Date Received: 02-JUL-14 X: -75.522705 Previous Site Name: unknown Y: 45.449746 Lot/Building Size: 73ft x 46ft (City of Ottawa property information) Additional Info Ordered:					
81	1 of 1	WSW/265.8	88.9 / 0.00	ON	BORE
Borehole ID: 615204 Inclin FLG: No OGF ID: 215516146 SP Status: Initial Entry Status: Surv Elev: No Type: Borehole Piezometer: No Use: Primary Name: Completion Date: JUN-1961 Municipality: Static Water Level: Lot: Primary Water Use: Township: Sec. Water Use: Latitude DD: 45.445628 Total Depth m: 15.2 Longitude DD: -75.529325 Depth Ref: Ground Surface UTM Zone: 18 Depth Elev: Easting: 458606 Drill Method: Northing: 5032592 Orig Ground Elev m: 91.4 Location Accuracy: Elev Reliabil Note: Accuracy: Not Applicable DEM Ground Elev m: 89.8 Concession: Location D: Survey D: Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID: 218400819 Mat Consistency: Loose Top Depth: 4.6 Material Moisture: Bottom Depth: 15.2 Material Texture: Material Color: Grey Non Geo Mat Type: Material 1: Limestone Geologic Formation: Material 2: Geologic Group: Material 3: Geologic Period: Material 4: Depositional Gen:					
Gsc Material Description: Stratum Description: LIMESTONE. GREY. 00050FEET.LOOSE. BEDROCK. 10DROCK. BEDROCK. BEDROCK. WATER STA **Note: Many records provided by the department have a truncated [Stratum Description] field.					
Geology Stratum ID: 218400818 Mat Consistency: Top Depth: 0 Material Moisture: Bottom Depth: 4.6 Material Texture: Material Color: Blue Non Geo Mat Type: Material 1: Clay Geologic Formation: Material 2: Geologic Group:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY. BLUE.

Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence:
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA2.txt RecordID: 07712 NTS_Sheet:
Confiden 1:

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

[82](#) 1 of 1 WSW/266.0 88.9 / 0.00 lot 6 con 3 ON [WWIS](#)

Well ID: 1501440
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GLOUCESTER TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 15-Aug-1961 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1504
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 006
Concession: 03
Concession Name: OF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501440.pdf

Additional Detail(s) (Map)

Well Completed Date: 1961/06/24
Year Completed: 1961
Depth (m): 15.24
Latitude: 45.4456260472842
Longitude: -75.5293244053892
Path: 150\1501440.pdf

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Loc Method Desc: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	10023483			Elevation: Elevrc: Zone: 18 East83: 458605.80 North83: 5032592.00 Org CS: UTMRC: 5 UTMRC Desc: margin of error : 100 m - 300 m Location Method: p5	
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	930991833				
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	930991834				
<u>Method of Construction & Well</u> <u>Use</u>					
Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	961501440				
<u>Pipe Information</u>					
Pipe ID:	10572053				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930039847
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 17.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039848
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 50.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501440
Pump Set At:
Static Level: 2.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933454147
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 50.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023483 Tag No:
Depth M: 15.24 Contractor: 1504
Year Completed: 1961 Path: 150\1501440.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Completed Dt: Audit No:	1961/06/24			Latitude: Longitude:	45.4456260472842 -75.5293244053892

83	1 of 1	SW/274.5	88.9 / 0.00	lot 6 con 3 ON	WWIS
Well ID:	1509636			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	30-Aug-1968 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1802
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	03
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1509636.pdf

Additional Detail(s) (Map)

Well Completed Date: 1968/08/01
Year Completed: 1968
Depth (m): 12.192
Latitude: 45.4451792622728
Longitude: -75.5286169248586
Path: 150\1509636.pdf

Bore Hole Information

Bore Hole ID:	10031668	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	458660.80
Code OB Desc:		North83:	5032542.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	01-Aug-1968 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931012632
Layer: 1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:					
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		40.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961509636			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10580238			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930055976			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		40.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991509636			
Pump Set At:					
Static Level:		3.0			
Final Level After Pumping:		30.0			
Recommended Pump Depth:		38.0			
Pumping Rate:		8.0			
Flowing Rate:					
Recommended Pump Rate:		5.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933464522			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:			1		
Kind Code:			1		
Kind:			FRESH		
Water Found Depth:			35.0		
Water Found Depth UOM:			ft		
Links					
Bore Hole ID:	10031668			Tag No:	
Depth M:	12.192			Contractor:	1802
Year Completed:	1968			Path:	150\1509636.pdf
Well Completed Dt:	1968/08/01			Latitude:	45.4451792622728
Audit No:				Longitude:	-75.5286169248586

84	1 of 1	E/276.3	89.8 / 0.95	lot 4 con 3 ON	WWIS
Well ID:	1501408			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	03-Dec-1963 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	004
Depth to Bedrock:				Concession:	03
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501408.pdf

Additional Detail(s) (Map)

Well Completed Date:	1963/11/11
Year Completed:	1963
Depth (m):	12.8016
Latitude:	45.4484507291454
Longitude:	-75.5218698169808
Path:	150\1501408.pdf

Bore Hole Information

Bore Hole ID:	10023451	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	459190.80
Code OB Desc:		North83:	5032902.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	11-Nov-1963 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			

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

Overburden and Bedrock
Materials Interval

Formation ID: 930991762
Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930991763
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961501408
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10572021
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930039786
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Depth To: 12.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039787
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 42.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501408
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 48.0
Recommended Pump Depth: 20.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933454115
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 42.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023451	Tag No:
Depth M: 12.8016	Contractor: 1504
Year Completed: 1963	Path: 150\1501408.pdf
Well Completed Dt: 1963/11/11	Latitude: 45.4484507291454
Audit No:	Longitude: -75.5218698169808

85	1 of 1	ENE/277.2	88.9 / 0.00	lot 5 con 2 ON	WWIS
Well ID:	1501209	Flowing (Y/N):			
Construction Date:		Flow Rate:			
Use 1st:	Domestic	Data Entry Status:			
Use 2nd:	0	Data Src:	1		
Final Well Status:	Water Supply	Date Received:	19-Jan-1960 00:00:00		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: Site Info:		GLOUCESTER TOWNSHIP		Selected Flag: TRUE Abandonment Rec: Contractor: 1504 Form Version: 1 Owner: County: OTTAWA-CARLETON Lot: 005 Concession: 02 Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501209.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:		1959/09/22 1959 12.192 45.4496167452857 -75.522775751816 150\1501209.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Loc Method Desc: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	10023252			Elevation: Elevrc: Zone: 18 East83: 459120.80 North83: 5033032.00 Org CS: UTMRC: 5 UTMRC Desc: margin of error : 100 m - 300 m Location Method: p5	
<u>Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m</u>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	930991244	1			
		05	CLAY		
		0.0			
		14.0			
		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991246			
Layer:		3			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		17.0			
Formation End Depth:		40.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991245			
Layer:		2			
Color:					
General Color:					
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		14.0			
Formation End Depth:		17.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501209			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571822			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039397			
Layer:		2			
Material:					
Open Hole or Material:					
Depth From:					
Depth To:		17.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		930039398			
Layer:		3			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		40.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039396			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		15.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991501209			
Pump Set At:					
Static Level:		3.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		9.0			
Flowing Rate:					
Recommended Pump Rate:		9.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453903			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		40.0			
Water Found Depth UOM:		ft			
<u>Links</u>					
Bore Hole ID:	10023252			Tag No:	
Depth M:	12.192			Contractor:	1504
Year Completed:	1959			Path:	150\1501209.pdf
Well Completed Dt:	1959/09/22			Latitude:	45.4496167452857
Audit No:				Longitude:	-75.522775751816

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	1 of 1	ENE/277.3	88.9 / 0.00	ON	BORE
Borehole ID:	615255			Inclin FLG:	No
OGF ID:	215516197			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	SEP-1959			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.449619
Total Depth m:	12.2			Longitude DD:	-75.522776
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	459121
Drill Method:				Northing:	5033032
Orig Ground Elev m:	91.4			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	90.8				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218400946			Mat Consistency:	
Top Depth:	4.3			Material Moisture:	
Bottom Depth:	5.2			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Gravel			Geologic Formation:	
Material 2:	Boulders			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	GRAVEL.				
Geology Stratum ID:	218400947			Mat Consistency:	Soft
Top Depth:	5.2			Material Moisture:	
Bottom Depth:	12.2			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Limestone			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	LIMESTONE. 000407STONE. 00172STIFF, FISSURED. CLAY. GREY,SOFT,FISSURED. CLAY. GREY,SOF				
	**Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218400945			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	4.3			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY.				
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Date: 1956-1972 Confidence: Observatio: Source Name: Urban Geology Automated Information System (UGAIS) Source Details: File: OTTAWA2.txt RecordID: 07763 NTS_Sheet: Confiden 1:					
Scale or Res: Varies Horizontal: NAD27 Verticalda: Mean Average Sea Level					
Source List					
Source Identifier: 1 Source Type: Data Survey Source Date: 1956-1972 Scale or Resolution: Varies Source Name: Urban Geology Automated Information System (UGAIS) Source Originators: Geological Survey of Canada					
Horizontal Datum: NAD27 Vertical Datum: Mean Average Sea Level Projection Name: Universal Transverse Mercator					
87	1 of 1	NW/279.6	87.8 / -1.08	City of Ottawa 1708 Aspenview Way Ottawa ON K1C 6S1	SPL
Ref No: 0718-B75LAU Site No: NA Incident Dt: 2018/12/04 Year: Incident Cause: Incident Event: Leak/Break Contaminant Code: 15 Contaminant Name: HYDRAULIC OIL Contaminant Limit 1: Contam Limit Freq 1: n/a Contaminant UN No 1: n/a Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: Land MOE Response: No Dt MOE Arvl on Scn: MOE Reported Dt: 2018/12/04 Dt Document Closed: 2018/12/05 Incident Reason: Material Failure - Poor Design/Substandard Material Site Name: Hydraulic Oil Spill Site<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: City of Ottawa: Unknown Quantity of Hydraulic Oil to Ground Contaminant Qty: 0 other - see incident description					
Discharger Report: Material Group: Health/Env Conseq: 0 - No Impact Client Type: Municipal Government Sector Type: Miscellaneous Communal Agency Involved: Nearest Watercourse: Site Address: 1708 Aspenview Way Site District Office: Ottawa Site Postal Code: K1C 6S1 Site Region: Eastern Site Municipality: Ottawa Site Lot: Site Conc: Northing: 5033083.84 Easting: 458711.85 Site Geo Ref Accu: Site Map Datum: SAC Action Class: Land Spills Source Type: Motor Vehicle					
88	1 of 3	S/283.6	87.9 / -1.00	ORLEANS BLVD TOWING & RECYCLING 2360 PAGE RD ORLEANS ON K1W 1H3	AUWR
Headcode: 00098600 Headcode Desc: AUTOMOBILE WRECKING & RECYCLING Phone: List Name: Description:					
88	2 of 3	S/283.6	87.9 / -1.00	CASH FOR SCRAP 2360 PAGE RD OTTAWA ON K1W 1H3	AUWR

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Headcode: Headcode Desc: Phone: List Name: Description:		01169400 SCRAP METALS 6138539810			
88	3 of 3	S/283.6	87.9 / -1.00	ORLEANS BLVD TOWING & RECYCLING 2360 PAGE RD ORLEANS ON K1W1H3	AUWR
Headcode: Headcode Desc: Phone: List Name: Description:		00098600 CAR WRECKING & RECYCLING 6138374545			
89	1 of 1	S/293.3	87.9 / -1.00	lot 6 con 3 ON	WWIS
Well ID: Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: Site Info:		1501425 Domestic 0 Water Supply		Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: County: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 20-Feb-1962 00:00:00 TRUE 1504 1 OTTAWA-CARLETON 006 03 OF
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501425.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:		1961/11/10 1961 16.4592 45.4445595372198 -75.5263733821859 150\1501425.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed:		10023468		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc:	18 458835.80 5032472.00 5 margin of error : 100 m - 300 m

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Remarks:				Location Method:	p5
Loc Method Desc:		Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991799			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		36.0			
Formation End Depth:		54.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930991798			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		36.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961501425			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572038			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039818			
Layer:		2			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 54.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930039817
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 38.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991501425
Pump Set At:
Static Level: 2.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 20.0
Pumping Rate: 12.0
Flowing Rate:
Recommended Pump Rate: 12.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933454132
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 54.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10023468	Tag No:
Depth M: 16.4592	Contractor: 1504
Year Completed: 1961	Path: 150\1501425.pdf
Well Completed Dt: 1961/11/10	Latitude: 45.4445595372198
Audit No:	Longitude: -75.5263733821859

90	1 of 1	S/298.3	87.9 / -1.00	lot 6 con 3 ON	WWIS
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Well ID: 1501443	Flowing (Y/N):
Construction Date:	Flow Rate:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:	0			Data Src:	1
Final Well Status:	Water Supply			Date Received:	15-Aug-1961 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:				Contractor:	1504
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	006
Depth to Bedrock:				Concession:	03
Well Depth:				Concession Name:	OF
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	GLOUCESTER TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501443.pdf				
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:	1961/06/28				
Year Completed:	1961				
Depth (m):	16.4592				
Latitude:	45.4445145330048				
Longitude:	-75.5263729636454				
Path:	150\1501443.pdf				
<u>Bore Hole Information</u>					
Bore Hole ID:	10023486			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	458835.80
Code OB Desc:				North83:	5032467.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	28-Jun-1961 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m				
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991839				
Layer:	1				
Color:	3				
General Color:	BLUE				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0.0				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		35.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991840			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		35.0			
Formation End Depth:		54.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501443			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10572056			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039854			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		54.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039853			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		37.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Pumping Test Method Desc:</i>		PUMP			
<i>Pump Test ID:</i>		991501443			
<i>Pump Set At:</i>					
<i>Static Level:</i>					
<i>Final Level After Pumping:</i>		20.0			
<i>Recommended Pump Depth:</i>		20.0			
<i>Pumping Rate:</i>		10.0			
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>		10.0			
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>		1			
<i>Water State After Test:</i>		CLEAR			
<i>Pumping Test Method:</i>		1			
<i>Pumping Duration HR:</i>		1			
<i>Pumping Duration MIN:</i>		0			
<i>Flowing:</i>		Yes			

Water Details

Water ID: 933454150
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 54.0
Water Found Depth UOM: ft

Links

<i>Bore Hole ID:</i>	10023486	<i>Tag No:</i>	
<i>Depth M:</i>	16.4592	<i>Contractor:</i>	1504
<i>Year Completed:</i>	1961	<i>Path:</i>	150\1501443.pdf
<i>Well Completed Dt:</i>	1961/06/28	<i>Latitude:</i>	45.4445145330048
<i>Audit No:</i>		<i>Longitude:</i>	-75.5263729636454

Unplottable Summary

Total: **44** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	REG. MUN. OF OTTAWA-CARLETON	INNES RD.	GLOUCESTER CITY ON	
CA	KLAUS MORITZ	INNES RD.	GLOUCESTER CITY ON	
CA	KLAUS MORITZ	INNES RD.	GLOUCESTER CITY ON	
CA	THE DOUGLAS MACDONALD DEVELOP.CORP.	INNES RD.	GLOUCESTER CITY ON	
CA	THE DOUGLAS MACDONALD DEVELOP.CORP.	INNES RD.	GLOUCESTER CITY ON	
CA	Page Road Pond No. 1	Pt. of Lot 5, Concession 3 O.F., Plan 4R-7806	Gloucester ON	
CA		Page Rd Allowance bwt Lots 5 and 6, Conc. III	Ottawa ON	
CA		Part of Lots 5 and 6, Conc. 3 Page Rd and Hydro Corridor Pt 2, Ref Plan 5R-14021	Ottawa ON	
CA		Lot 6, Concession 2 and 3	Ottawa ON	
CA		Lot 6, Concession 2 and 3	Ottawa ON	
CA		Lot 6, Concession 2 and 3	Ottawa ON	
CA	1374421 Ontario Ltd.	North Part of Lot 6, Concession III	Ottawa ON	
CA	Longwood Building Corporation	Part of Lot 6, Between Concession 2 & 3	Ottawa ON	
CA	R. M. OF OTTAWA-CARLETON	INNES RD. SEWAGE PUMPING STAT.	GLOUCESTER CITY ON	
CA	MINTO CONSTRUCTION LTD.	MEADOWGLEN DR.	GLOUCESTER CITY ON	
CA	MINTO CONSTRUCTION LTD	MEADOWGLEN DR.	GLOUCESTER CITY ON	
CA	DOMICILE DEVELOPMENTS INC. IN TRUST	PRIVATE STREET #1/INNES ROAD	GLOUCESTER CITY ON	

CA	R.M. OF OTTAWA-CARLETON,	INNES RD. TRANSPORTATION DEPT.	GLOUCESTER CITY ON	
CA	MINTO CONSTRUCTION	THORNECREST ST. CHAPEL HILL E.	GLOUCESTER CITY ON	
CA	MINTO CONSTRUCTION LTD. STAGE II	MEADOWGLEN DR. CHAPEL HILL E.	GLOUCESTER CITY ON	
CA	LIFE CENTRE - STORMWATER MANAGEMENT FAC.	INNES ROAD/MUD CREEK	GLOUCESTER CITY ON	
CA	LIFE CENTRE - LIFE CENTRE CHURCH	INNES ROAD	GLOUCESTER CITY ON	
CA	DOMICILE DEVELOPMENTS INC. IN TRUST	PRIVATE STREET INNES ROAD	GLOUCESTER CITY ON	
CA	MICHEL LAMARCHE ENTERPRISES INC.	PAGE ROAD X-7-1094-89	GLOUCESTER CITY ON	
CA	MICHEL LAMARCHE ENTERPRISES INC. PRIVATE	MEADOWGLEN DR./PAGE X3-1323-89	GLOUCESTER CITY ON	
CA	R.M. OF OTTAWA-CARLETON	INNES RD. NORTH SIDE	GLOUCESTER CITY ON	
CA	MINTO CONSTRUCTION LTD. ARBOURWOOD CRES	MEADOWGLEN DRIVE	GLOUCESTER CITY ON	
CA	R.M. OF OTTAWA-CARLETON	INNES ROAD	GLOUCESTER CITY ON	
CA	MINTO CONSTRUCTION CHAPEL HILL EAST	THORNECREST STREET	GLOUCESTER CITY ON	
CA	MINTO CONSTRUCTION LTD. ARBOURWOOD CRES.	MEADOWGLEN DRIVE	GLOUCESTER CITY ON	
CA	MINTO CONSTRUCTION LTD.	MEADOWGLEN DR.	GLOUCESTER CITY ON	
GEN	Bell Canada	VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE NORTHERN REGION	(SEE SCHEDULE "B") ON	K1P 6L9
GEN	Bell Canada	VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE NORTHERN REGION	(SEE SCHEDULE "B") ON	K1P 6L9
GEN	Bell Canada	VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE EASTERN REG.	(SEE SCHEDULE "B") ON	K1P 6L9
GEN	Bell Canada	VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE NORTHERN REGION	(SEE SCHEDULE "B") ON	K1P 6L9
GEN	Bell Canada	VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE EASTERN REG.	(SEE SCHEDULE "B") ON	
GEN	Bell Canada	VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE EASTERN REG.	(SEE SCHEDULE "B") ON	K1P 6L9

GEN	Bell Canada	VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE EASTERN REG.	(SEE SCHEDULE "B") ON K1P 6L9
SPL	City of Ottawa	Innes Road just east of 10 th Line <UNOFFICIAL>	Ottawa ON
SPL	City of Ottawa	and Page Road	Ottawa ON
SPL	Bell Canada		Ottawa ON
SPL	UNKNOWN	GREEN CREEK @ INNES RD.	GLOUCESTER CITY ON
SPL	Unknown<UNOFFICIAL>	Innes Rd Eastbound at Blair	Ottawa ON
WWIS		lot 4 con 2	ON

Unplottable Report

Site: REG. MUN. OF OTTAWA-CARLETON
INNES RD. GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-0153-85-006
Application Year: 85
Issue Date: 3/21/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: KLAUS MORITZ
INNES RD. GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-0394-85-006
Application Year: 85
Issue Date: 5/30/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: KLAUS MORITZ
INNES RD. GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-0583-85-006
Application Year: 85
Issue Date: 6/7/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: THE DOUGLAS MACDONALD DEVELOP.CORP.
INNES RD. GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-1125-85-006

Application Year: 85
Issue Date: 12/23/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: THE DOUGLAS MACDONALD DEVELOP.CORP.
INNES RD. GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-1487-85-006
Application Year: 85
Issue Date: 12/23/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Page Road Pond No. 1
Pt. of Lot 5, Concession 3 O.F., Plan 4R-7806 Gloucester ON

Database:
CA

Certificate #: 3330-4SUM4R
Application Year: 01
Issue Date: 3/7/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 1595, Telesat Court
Client City: Gloucester
Client Postal Code: K1G 3V5
Project Description: This application is for the construction of a storm water management facility (Page Road Pond No. 1) designed for storm water quality and peak flow control serving the East Urba Community.
Contaminants:
Emission Control:

Site: Page Rd Allowance bwt Lots 5 and 6, Conc. III Ottawa ON

Database:
CA

Certificate #: 4785-4XFRCP
Application Year: 01
Issue Date: 6/8/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: Ottawa
Client Postal Code: K1P 1J1
Project Description: The works consist of installation of about 240 m of twin forcemains (300 mm and 400 mm dia.) that will become part of the future Forest Valley P.S. forcemains. The works will be done at this time to take advantage of the road construction. The works include connection to the existing M. H. (bulkheads will be provided at stub ends) and

installation of the drain chamber. The forcemains is located within Page Road from approximately 40 m south of Montpelier PL to approximately 280 m south of Montpelier PL.

Contaminants:
Emission Control:

Site: Part of Lots 5 and 6, Conc. 3 Page Rd and Hydro Corridor Pt 2, Ref Plan 5R-14021 Ottawa ON

Database:
CA

Certificate #: 7125-4WTRKD
Application Year: 01
Issue Date: 5/18/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: Ottawa
Client Postal Code: K1P 1J1
Project Description: watermains to be constructed on Page Road and Easement within Hydro Corridor
Contaminants:
Emission Control:

Site: Lot 6, Concession 2 and 3 Ottawa ON

Database:
CA

Certificate #: 6816-54HQ5P
Application Year: 01
Issue Date: 11/16/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: KNL Developments Inc.
Client Address: 222 Somerset Street West, Suite 300
Client City: Ottawa
Client Postal Code: K2P 2G3
Project Description: Sanitary Sewers including appurtenances from approximately 50m west of Ironside Court to the Goulbourn Forced Road to serve the Kanata Lakes Subdivision, City of Ottawa
Contaminants:
Emission Control:

Site: Lot 6, Concession 2 and 3 Ottawa ON

Database:
CA

Certificate #: 5772-4W5M6D
Application Year: 01
Issue Date: 4/25/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: KNL Developments Inc.
Client Address: 222 Somerset Street West, Suite 300
Client City: Ottawa
Client Postal Code: K2P 2G3
Project Description: Storm and sanitary sewers to be constructed on Witherspoon Crescent
Contaminants:
Emission Control:

Site: Lot 6, Concession 2 and 3 Ottawa ON

Database:
CA

Certificate #: 1760-4W5ML6
Application Year: 01
Issue Date: 4/25/01

Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: KNL Developments Inc.
Client Address: 222 Somerset Street West, Suite 300
Client City: Ottawa
Client Postal Code: K2P 2G3
Project Description: Watermains to be constructed on Witherspoon Crescent
Contaminants:
Emission Control:

Site: 1374421 Ontario Ltd.
North Part of Lot 6, Concession III Ottawa ON

Database:
CA

Certificate #: 1907-62VS2P
Application Year: 2004
Issue Date: 7/21/2004
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Longwood Building Corporation
Part of Lot 6, Between Concession 2 & 3 Ottawa ON

Database:
CA

Certificate #: 6229-6EQGQE
Application Year: 2005
Issue Date: 7/28/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R. M. OF OTTAWA-CARLETON
INNES RD. SEWAGE PUMPING STAT. GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-0358-86-
Application Year: 86
Issue Date: 8/22/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: MINTO CONSTRUCTION LTD.
MEADOWGLEN DR. GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-1594-86-
Application Year: 86
Issue Date: 10/16/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: MINTO CONSTRUCTION LTD
MEADOWGLEN DR. GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-1452-87-
Application Year: 87
Issue Date: 9/24/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: DOMICILE DEVELOPMENTS INC. IN TRUST
PRIVATE STREET #1/INNES ROAD GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-0032-90-
Application Year: 90
Issue Date: 2/1/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARLETON,
INNES RD. TRANSPORTATION DEPT. GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-0814-88-
Application Year: 88
Issue Date: 6/28/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Project Description:
Contaminants:
Emission Control:

Site: **MINTO CONSTRUCTION**
THORNECREST ST. CHAPEL HILL E. GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-1300-86-
Application Year: 86
Issue Date: 10/22/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **MINTO CONSTRUCTION LTD. STAGE II**
MEADOWGLEN DR. CHAPEL HILL E. GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-1259-86-
Application Year: 86
Issue Date: 10/16/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **LIFE CENTRE - STORMWATER MANAGEMENT FAC.**
INNES ROAD/MUD CREEK GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-0803-91-
Application Year: 91
Issue Date: 9/25/1991
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **LIFE CENTRE - LIFE CENTRE CHURCH**
INNES ROAD GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-0926-91-
Application Year: 91
Issue Date: 7/3/1991
Approval Type: Municipal sewage

Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: DOMICILE DEVELOPMENTS INC. IN TRUST
PRIVATE STREET INNES ROAD GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-0047-90-
Application Year: 90
Issue Date: 2/16/1990
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: MICHEL LAMARCHE ENTERPRISES INC.
PAGE ROAD X-7-1094-89 GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-1323-89-
Application Year: 89
Issue Date: 7/17/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: MICHEL LAMARCHE ENTERPRISES INC. PRIVATE
MEADOWGLEN DR./PAGE X3-1323-89 GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-1305-89-
Application Year: 89
Issue Date: 7/17/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARLETON

Database:
CA

INNES RD. NORTH SIDE GLOUCESTER CITY ON

Certificate #: 3-2060-88-
Application Year: 88
Issue Date: 10/30/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **MINTO CONSTRUCTION LTD.ARBURWOOD CRES
MEADOWGLEN DRIVE GLOUCESTER CITY ON**

Database:
CA

Certificate #: 3-0746-88-
Application Year: 88
Issue Date: 5/20/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **R.M. OF OTTAWA-CARLETON
INNES ROAD GLOUCESTER CITY ON**

Database:
CA

Certificate #: 3-0734-88-
Application Year: 88
Issue Date: 5/13/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **MINTO CONSTRUCTION CHAPEL HILL EAST
THORNECREST STREET GLOUCESTER CITY ON**

Database:
CA

Certificate #: 3-1642-86-
Application Year: 86
Issue Date: 10/22/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:

Contaminants:
Emission Control:

Site: MINTO CONSTRUCTION LTD. ARBOURWOOD CRES.
MEADOWGLEN DRIVE GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-0655-88-
Application Year: 88
Issue Date: 5/20/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: MINTO CONSTRUCTION LTD.
MEADOWGLEN DR. GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-1748-87-
Application Year: 87
Issue Date: 9/24/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Bell Canada
VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE NORTHERN REGION (SEE
SCHEDULE "B") ON K1P 6L9

Database:
GEN

Generator No:	ONR000306	Status:	
SIC Code:	517110, 517210, 517510	Co Admin:	Julie Labelle
SIC Description:	WIRED TELECOMMUNICATIONS CARRIERS, WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE), 517510	Choice of Contact:	CO_ADMIN
Approval Years:	2015	Phone No Admin:	514-870-0688 Ext.
PO Box No:		Contam. Facility:	No
Country:	Canada	MHSW Facility:	No

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 150

Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 251

Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: *Bell Canada*
VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE NORTHERN REGION (SEE SCHEDULE "B") ON K1P 6L9

Database:
GEN

Generator No: ONR000306
SIC Code: 517110, 517210, 517510
SIC Description: WIRED TELECOMMUNICATIONS CARRIERS, WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE), 517510

Status:
Co Admin: Julie Labelle
Choice of Contact: CO_OFFICIAL

Approval Years: 2014
PO Box No:
Country: Canada

Phone No Admin: 514-870-0688 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: *Bell Canada*
VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE EASTERN REG. (SEE SCHEDULE "B") ON K1P 6L9

Database:
GEN

Generator No: ONR000304
SIC Code: 517110, 517210, 517510
SIC Description: WIRED TELECOMMUNICATIONS CARRIERS, WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE), 517510

Status:
Co Admin: Chloé Lamothe-Luneau
Choice of Contact: CO_ADMIN

Approval Years: 2016
PO Box No:
Country: Canada

Phone No Admin: 514-391-1021 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: *Bell Canada*
VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE NORTHERN REGION (SEE SCHEDULE "B") ON K1P 6L9

Database:
GEN

Generator No: ONR000306
SIC Code: 517110, 517210, 517510
SIC Description: WIRED TELECOMMUNICATIONS CARRIERS, WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE), 517510

Approval Years: 2016
PO Box No:
Country: Canada

Status:
Co Admin: Chloé Lamothe-Luneau
Choice of Contact: CO_ADMIN

Phone No Admin: 514-391-1021 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Site: *Bell Canada*
VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE EASTERN REG. (SEE SCHEDULE "B") ON

Database:
GEN

Generator No: ONR000304
SIC Code: 517110, 517210, 517510
SIC Description: WIRED TELECOMMUNICATIONS CARRIERS, WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE)

Approval Years: 2013
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:

Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Site: Bell Canada
VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE EASTERN REG. (SEE
SCHEDULE "B") ON K1P 6L9

Database:
GEN

Generator No: ONR000304
SIC Code: 517110, 517210, 517510
SIC Description: WIRED TELECOMMUNICATIONS
CARRIERS, WIRELESS
TELECOMMUNICATIONS CARRIERS
(EXCEPT SATELLITE), 517510
Approval Years: 2015
PO Box No:
Country: Canada

Status:
Co Admin: Julie Labelle
Choice of Contact: CO_ADMIN
Phone No Admin: 514-870-0688 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES
Waste Class: 253
Waste Class Desc: EMULSIFIED OILS
Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS
Waste Class: 221
Waste Class Desc: LIGHT FUELS
Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS
Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Site: Bell Canada
VARIOUS BELL CANADA MANHOLES AND ACCESS CHAMBERS WITHIN THE MOE EASTERN REG. (SEE
SCHEDULE "B") ON K1P 6L9

Database:
GEN

Generator No: ONR000304
SIC Code: 517110, 517210, 517510
SIC Description: WIRED TELECOMMUNICATIONS
CARRIERS, WIRELESS
TELECOMMUNICATIONS CARRIERS
(EXCEPT SATELLITE), 517510
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin: Julie Labelle
Choice of Contact: CO_OFFICIAL
Phone No Admin: 514-870-0688 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS
Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS
Waste Class: 221
Waste Class Desc: LIGHT FUELS
Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES
Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES
Waste Class: 241

Site: City of Ottawa
Innes Road just east of 10 th Line <UNOFFICIAL> Ottawa ON

Database:
SPL

Ref No:	3320-6C9JY7	Discharger Report:	0
Site No:		Material Group:	Chemical
Incident Dt:	5/10/2005	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	Valve / Fitting Leak Or Failure	Sector Type:	Other Motor Vehicle
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:	ANTI-FREEZE	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	5/10/2005	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	Spill to Land
Incident Reason:	Equipment Failure - Malfunction of system components	Source Type:	
Site Name:	Innes Road just east of 10 th Line <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	City bus, 10 L antifreeze to ground, cleaning		
Contaminant Qty:			

Site: City of Ottawa
and Page Road Ottawa ON

Database:
SPL

Ref No:	5674-9XVE8G	Discharger Report:	
Site No:	NA	Material Group:	
Incident Dt:	6/27/2015	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	Overflow/Surcharge	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:	44	Nearest Watercourse:	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	Site Address:	and Page Road
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:		Site Municipality:	Ottawa
Nature of Impact:	Land; Surface Water	Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:		Northing:	5031192
MOE Response:	N	Easting:	460088
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	6/27/2015	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	Land Spills
Incident Reason:	Blockage	Source Type:	
Site Name:	Renaud Road <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Ottawa manhole blockage, raw sewage to roadway/ditch		
Contaminant Qty:	74 m ³		

Site: Bell Canada
Ottawa ON

Database:
SPL

Ref No: 8881-9J2J33 **Discharger Report:**

Site No: NA
Incident Dt: 2014/04/10
Year:
Incident Cause: Leak/Break
Incident Event:
Contaminant Code: 38
Contaminant Name: FREON R-22 (CFC)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Confirmed
Nature of Impact: Air Pollution
Receiving Medium:
Receiving Env:
MOE Response: Referral to others
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/04/10
Dt Document Closed: 2014/11/04
Incident Reason: Equipment Failure
Site Name: 3212 Richmond Rd<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Bell Canada: possible >100 kg freon to atm.
Contaminant Qty: 0 other - see incident description

Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Pipeline/Components
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Air Spills - Gases and Vapours
Source Type:

Site: UNKNOWN
 GREEN CREEK @ INNES RD. GLOUCESTER CITY ON

Database:
 SPL

Ref No: 133852
Site No:
Incident Dt: 11/4/1996
Year:
Incident Cause: UNKNOWN
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: WATER
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/4/1996
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: UNKNOWN SOURCE OF UNK QUANTITY OF UNK OIL IN CREEK
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20105
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: Unknown<UNOFFICIAL>
 Innes Rd Eastbound at Blair Ottawa ON

Database:
 SPL

Ref No: 2061-8MDRQW
Site No:
Incident Dt: 10/6/2011
Year:
Incident Cause:
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address: Innes Rd Eastbound at Blair
Site District Office:

Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact:
Receiving Medium:
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/6/2011
Dt Document Closed: 11/22/2011
Incident Reason:
Site Name: MVA Site: Ottawa Roads<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: MVA: diesel on road.
Contaminant Qty:

Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Land Spills
Source Type:

Site: lot 4 con 2 ON

Database:
WWIS

Well ID: 1536506
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 235230
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: 15000
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01-Aug-2006 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4006
Form Version: 2
Owner:
County: OTTAWA-CARLETON
Lot: 004
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11550572
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04-Mar-2004 00:00:00
Remarks:
Loc Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 933066017
Layer: 5

Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 40.0
Formation End Depth: 140.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 933066014
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 8.0
Formation End Depth: 21.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 933066016
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 71
Mat2 Desc: FRACTURED
Mat3:
Mat3 Desc:
Formation Top Depth: 34.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 933066015
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 21.0
Formation End Depth: 34.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 933066013
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933299444
Layer: 1
Plug From: 40.0
Plug To: 0.0
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961536506
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11560179
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930884700
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -2.0
Depth To: 40.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930884699
Layer: 1
Material:
Open Hole or Material:
Depth From: 0.0
Depth To: 40.0
Casing Diameter: 10.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930884701
Layer: 3
Material:
Open Hole or Material:
Depth From: 40.0
Depth To: 140.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 11569551
Pump Set At: 60.0
Static Level: 12.0
Final Level After Pumping: 21.0
Recommended Pump Depth:
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11662477
Test Type: Draw Down
Test Duration: 30
Test Level: 16.700000762939453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 11662479
Test Type: Draw Down
Test Duration: 60
Test Level: 21.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 11662476
Test Type: Draw Down
Test Duration: 15
Test Level: 14.300000190734863
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 11662478
Test Type: Draw Down
Test Duration: 45
Test Level: 18.0
Test Level UOM: ft

Water Details

Water ID: 934078358
Layer: 2
Kind Code:
Kind:
Water Found Depth: 129.0
Water Found Depth UOM: ft

Water Details

Water ID: 934078359
Layer: 1
Kind Code:
Kind:
Water Found Depth: 93.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Mar 2022

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

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

Government Publication Date: 1999-May 31, 2022

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2020

Commercial Fuel Oil Tanks:

Provincial CFOT

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

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

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors:

Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

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

Government Publication Date: 1999-May 31, 2022

Compressed Natural Gas Stations:

Private CNG

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

Government Publication Date: Dec 2012 -Sep 2022

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Jun 2022

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994 - Sep 30, 2022

Drill Hole Database:

Provincial [DRL](#)

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

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial [DTNK](#)

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

Government Publication Date: Feb 28, 2022

Environmental Activity and Sector Registry:

Provincial [EASR](#)

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

Government Publication Date: Oct 2011- Aug 31, 2022

Environmental Registry:

Provincial [EBR](#)

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

Government Publication Date: 1994 - Sep 30, 2022

Environmental Compliance Approval:

Provincial [ECA](#)

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

Government Publication Date: Oct 2011- Aug 31, 2022

Environmental Effects Monitoring:

Federal [EEM](#)

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

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private [EHS](#)

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

Government Publication Date: 1999-Jul 31, 2022

Environmental Issues Inventory System:

Federal [EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report:

Provincial **EPAR**

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

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

List of Expired Fuels Safety Facilities:

Provincial **EXP**

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

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

Government Publication Date: Feb 28, 2022

Federal Convictions:

Federal **FCON**

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

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

Government Publication Date: Jun 2000-Sep 2022

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

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

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

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

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

Government Publication Date: Feb 28, 2022

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

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

Government Publication Date: 1986-Apr 30, 2022

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial

[HINC](#)

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

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

Government Publication Date: Feb 28, 2022

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

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

Government Publication Date: Mar 21, 2022

Canadian Mine Locations:

Private

[MINE](#)

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

[MNR](#)

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

Government Publication Date: 1846-Feb 2022

National Analysis of Trends in Emergencies System (NATES):

Federal

[NATE](#)

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

[NCPL](#)

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

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks:

Federal

[NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

[NDSP](#)

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

[NDWD](#)

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

[NEBI](#)

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal

[NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

[NPCB](#)

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

[NPRI](#)

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

[OGWE](#)

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

Government Publication Date: 1988-Aug 31, 2022

Ontario Oil and Gas Wells:

Provincial

[OOGW](#)

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

Government Publication Date: 1800-Aug 2021

Inventory of PCB Storage Sites:

Provincial

[OPCB](#)

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

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

Orders:

Provincial

[ORD](#)

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

Government Publication Date: 1994 - Sep 30, 2022

Canadian Pulp and Paper:

Private

[PAP](#)

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

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

Parks Canada Fuel Storage Tanks:

Federal

[PCFT](#)

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

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

Government Publication Date: Oct 2011- Aug 31, 2022

Pipeline Incidents:

Provincial PINC

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

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks:

Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994 - Sep 30, 2022

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

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

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition:

Provincial RSC

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

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

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

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-May 31, 2022

Scott's Manufacturing Directory:

Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

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

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

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

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

Government Publication Date: 1990-Dec 31, 2020

Anderson's Storage Tanks:

Private [TANK](#)

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

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

Government Publication Date: 1970 - Dec 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

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

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

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

Government Publication Date: Oct 2011- Aug 31, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: Jun 30 2022

Definitions

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

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

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

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

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

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

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

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

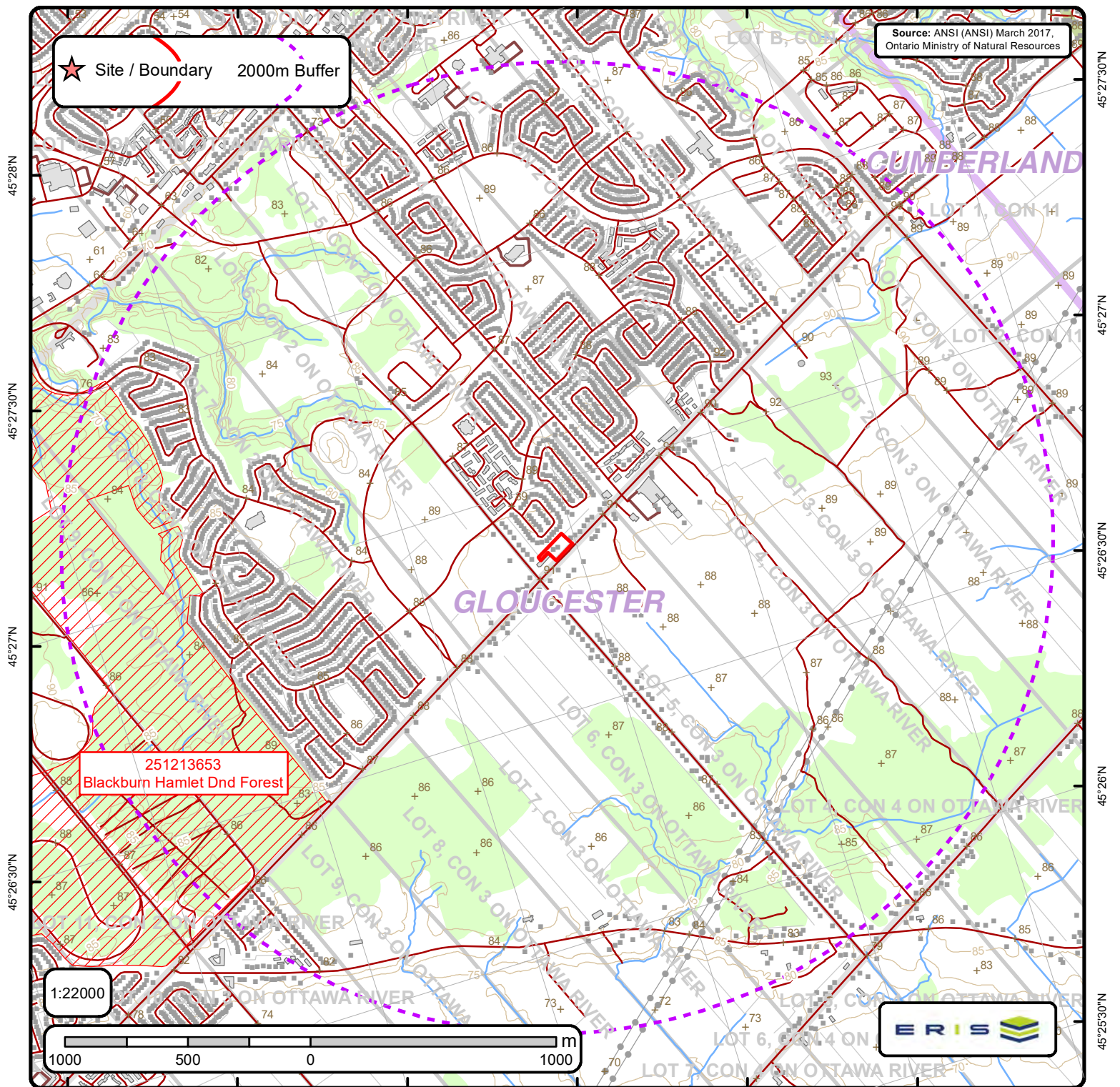
'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

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

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

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

75°32'30"W 75°32'W 75°31'30"W 75°31'W 75°30'30"W 75°30'W

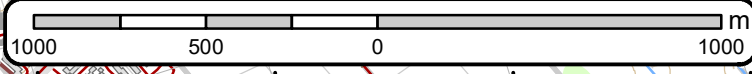


Source: ANSI (ANSI) March 2017, Ontario Ministry of Natural Resources

★ Site / Boundary 2000m Buffer

251213653
Blackburn Hamlet Dnd Forest

1:22000



Area of Natural & Scientific Interest (ANSI) Order No. 22102100112

+	Spot Height	—	Transportation Structure	—	Contour Line	■	Wooded Area
■	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⊗	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
- - -	Trail	■	Building to Scale	■	Land Ownership	■	ANSI Area



ANSI Report

ANSI Units Found within 2000 m of
3493, 3497, and 3499 Innes Road

Page 1
Order No.
22102100112



ANSI Name: Blackburn Hamlet Dnd Forest

ID: 251213653 | **Type:** Candidate ANSI, Life Science | **Significance:** Regional | **Management Plan:** No | **Area (sqm):** 1922108.405 |

Comments:

Large empty area for comments, consisting of alternating light blue and white horizontal bands.

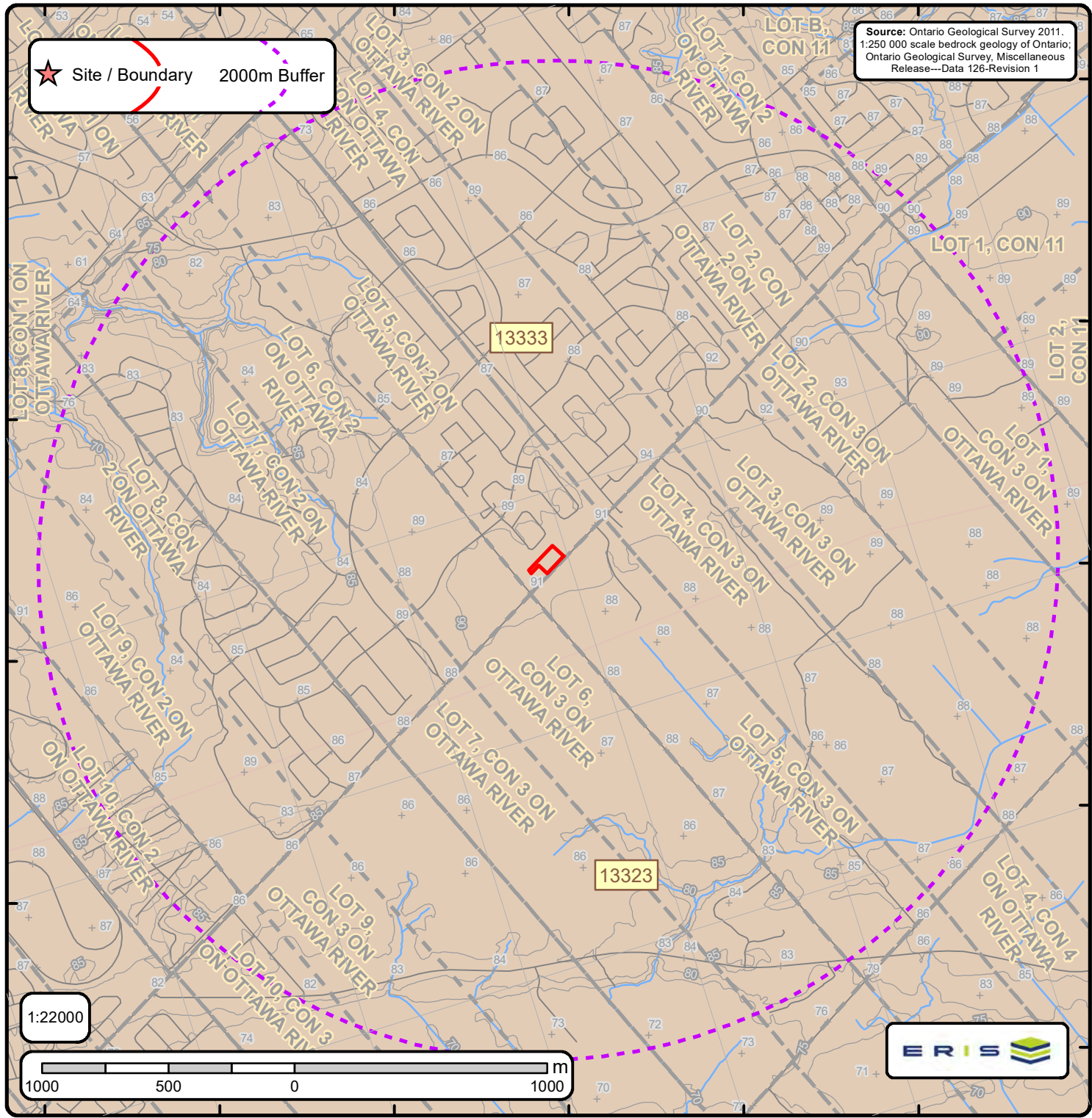
75°32'30"W 75°32'W 75°31'30"W 75°31'W 75°30'30"W 75°30'W

Source: Ontario Geological Survey 2011.
1:250 000 scale bedrock geology of Ontario;
Ontario Geological Survey, Miscellaneous
Release—Data 126-Revision 1

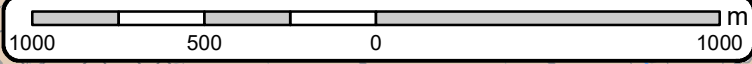
★ Site / Boundary 2000m Buffer

45°28'N
45°27'30"N
45°27'N
45°26'30"N
45°26'N
45°25'30"N

45°27'30"E
45°27'N
45°26'30"E
45°26'N
45°25'30"E



1:22000



Bedrock Geology of Ontario

Order No. 22102100112

Bedrock Geology Lines		Dikes		C Lines	
+ Spot Height	CONTACT, GEOPHYSICAL, TREND, INTERPRETED	Abitibi mafic dike	Marathon mafic dike	FOLD, ANTICLINE, INTERPRETED, UNKNOWN GENERATION	▲ Kimberlite
— Roads	CONTACT, SHARP, TREND, INTERPRETED	Biscotasing mafic dike	Matachewan mafic dike	FOLD, ANTICLINE, OBSERVED, UNKNOWN GENERATION	
— Contour Lines	CONTACT, SHARP, TREND, OBSERVED	Empey Lake mafic dike	Mine Centre mafic dike	FOLD, ANTICLINE, SYNFORMAL, INTERPRETED, SECOND GENERATION	
— Streams	FAULT, DEXTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Felsic to intermediate intrusive rocks	Molson mafic dike	FOLD, ANTIFORM, INTERPRETED, UNKNOWN GENERATION	
— Railroads	FAULT, PROJECTED FAULT, INTERPRETED, UNKNOWN GENERATION	Fort Frances mafic dike	Pickle Crow mafic dike (Molson swarm) normal	FOLD, SYNCLINE, INTERPRETED, UNKNOWN GENERATION	
— Lots	FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Frontenac mafic dike	Pickle Crow mafic dike (Molson swarm) reverse	FOLD, SYNCLINE, OBSERVED, UNKNOWN GENERATION	
— Pit or Quarry	FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION	Grenville mafic dike	Rideau mafic dike	FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION	
— Airports	FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, INTERPRETED, UNKNOWN GENERATION	Logan and Nipigon mafic sills	Sudbury mafic dike	FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION	
— Waterbody	FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, OBSERVED, UNKNOWN GENERATION	Mackenzie mafic dike	Ultramafic, gabbroic and granophytic intrusions		
— Wetlands	FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Mafic dikes of uncertain age	Unsubdivided mafic dike		
	FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION	Mafic sills and dikes	Unsubdivided mafic dike (Keweenawian age)		
	NEATLINE	Marathon mafic dike	unknown		
	ONTARIO BORDER				
	Marble, chert, iron formation, minor metavolcanic rocks				



Bedrock Geology Report

Bedrock Geology units found within 2000 m of
3493, 3497, and 3499 Innes Road

Page 1
Order No.
22102100112



ID: 13333 | **Unit Name:** |

Type (All): 54a | **Type (Primary):** 54a | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Limestone, dolostone, shale, arkose, sandstone | **Strata (Primary):** Ottawa Group; Simcoe Group; Shadow Lake Formation | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** MIDDLE ORDOVICIAN (now considered UPPER DEVONIAN) | **Province (Primary):**

ID: 13323 | **Unit Name:** |

Type (All): 55b | **Type (Primary):** 55b | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Shale, limestone, dolostone, siltstone | **Strata (Primary):** Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member; Eastview Member | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** UPPER ORDOVICIAN | **Province (Primary):**

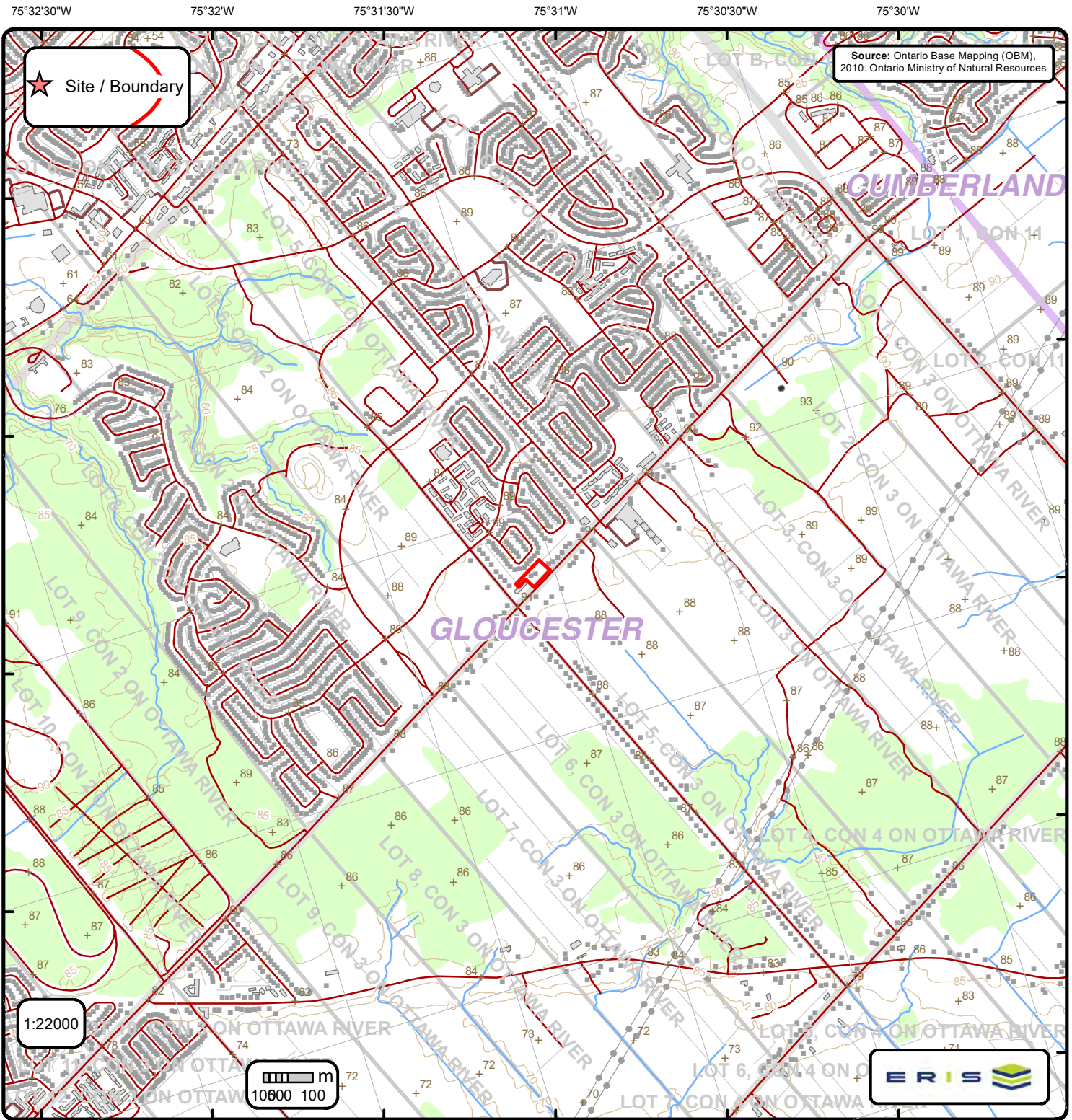


Bedrock Geology Report Metadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126
Revision1
ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - Unit ID	Unit Name - Generalized geological unit classification
Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.	
Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon	
Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon	
Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon	
Rock Type (Primary) - Rock type or sub-unit description	
Status (Primary) - The Stratigraphic unit. Divided into: Supergroup (two or more groups and lone formations) Group (two or more formations) Formation (primary unit of lithostratigraphy) Member (named lithologic subdivision of a formation) Bed (named distinctive layer in a member or formation)	
Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are: PRECAMBRIAN (0.542 Ga to <3.85 Ga)	
Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are: ARCHEAN (2.5 Ga to <3.85 Ga) PROTEROZOIC (0.542 Ga to 2.50 Ga) PHANEROZOIC (Present to 542.0 Ma)	
Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are: MESOARCHEAN (2.8 Ga to 3.2 Ga) MESOPROTEROZOIC (1.0 Ga to 1.6 Ga) NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga) EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga) NEOARCHEAN (2.5 Ga to 2.8 Ga) NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga) PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga) PALEOZOIC (251.0 Ma to 542.0 Ma) MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga) MESOZOIC (65.5 Ma to 251.0 Ma)	
Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are: CAMBRIAN (488.3 Ma to 542.0 Ma) ORDOVICIAN (443.7 Ma to 488.3 Ma) SILURIAN (416.0 Ma to 443.7 Ma) DEVONIAN (359.2 Ma to 416.0 Ma) MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma) JURASSIC (145.5 Ma to 199.6 Ma) CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)	
Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are: LOWER ORDOVICIAN UPPER SILURIAN MIDDLE ORDOVICIAN LOWER DEVONIAN UPPER ORDOVICIAN MIDDLE DEVONIAN MIDDLE AND LOWER SILURIAN UPPER DEVONIAN UPPER SILURIAN TO LOWER DEVONIAN LOWER CRETACEOUS AND MIDDLE JURASSIC	
Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are: SUPERIOR SOUTHERN SUPERIOR GRENVILLE	



Ontario Base Mapping (OBM) Data

Order No. 22102100112

+ Spot Height (metre)	— Transportation Structure	— Contour Line	Wooded Area
■ Building Point	● Utility Line	▭ Pit or Quarry	▭ Conservation Authority
⊕ Towers	— Water Structure	▭ Waterbody	▭ Conservation Area
● Utility Site Point	— Drainage Line Feature	▭ Wetlands	▭ Municipal Park
— Misc. Line	— River or Stream	▭ Concession	▭ Provincial Park
— Railroads	▭ Airports	▭ Lots	▭ National Park
— Roads	■ Tanks	▭ Municipality	▭ Nature Reserve
- - - Trail	▭ Building to Scale	▭ Land Ownership	

75°32'30"W

75°32'W

75°31'30"W

75°31'W

75°30'30"W

75°30'W



Source: Chapman, L.J. and Putnam, D.F. 2007. Physiography of Southern Ontario: Ontario Geological Survey, Miscellaneous Release—Data 22

45°28'N

45°27'30"N

45°27'30"N

45°27'N

45°27'N

45°26'30"N

45°26'30"N

45°26'N

45°25'30"N

Limestone Plains

Clay Plains

Ottawa Valley Clay Plains

Limestone Plains

Sand Plains

1:22000



Physiography of Southern Ontario

Order No. 22102100112

+ Spot Height	— Lots	◆ Boulder Pavement	■ Bare Rock Ridges And Shallow Till	■ Peat And Muck
— Roads	▭ Pit or Quarry	◆ Dissected Terrain	■ Beaches	■ Sand Plains
— Railroads	▭ Airports	■ Mud Flow Scars	■ Bevelled Till Plains	■ Shale Plains
— Contour Lines	▭ Wetlands	▲ Sand Dunes	■ Clay Plains	■ Shallow Till And Rock Ridges
— Streams	▭ Waterbody	— escarpment	■ Drumlins	■ Spillways
		— shorecliff	■ Escarpments	■ Till Moraines
		— shorecliff (weakly developed)	■ Eskers	■ Till Plains (Drumlinized)
		▭ Physiography Regions	■ Kame Moraines	■ Till Plains (Undrumlinized)
			■ Limestone Plains	



Soil ID: OND401071680

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONSTA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 17 | **Total Silt(%)** : 40 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 2.8 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.385 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-50 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 41 | **Total Clay(%)** : 55 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.247 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 50-75 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 5 | **Total Silt(%)** : 34 | **Total Clay(%)** : 61 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.249 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 75-100 | **Horizon** : Cgk | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 53 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.192 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401071686

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONSTA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 17 | **Total Silt(%)** : 40 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 2.8 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.385 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-50 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 41 | **Total Clay(%)** : 55 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.247 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 50-75 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 5 | **Total Silt(%)** : 34 | **Total Clay(%)** : 61 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.249 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 75-100 | **Horizon** : Cgk | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 53 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.192 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401071686

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONMUA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 80 | **Total Silt(%)** : 13 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 4.622 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-28 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 80 | **Total Silt(%)** : 14 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 4.787 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 28-46 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 81 | **Total Silt(%)** : 14 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.474 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 46-66 | **Horizon** : Cgj | **Layer No** : 4 | **Very Fine Sand(%)** : 14 | **Total Sand(%)** : 24 | **Total Silt(%)** : 32 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 0.216 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 66-100 | **Horizon** : Cgj | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 26 | **Total Clay(%)** : 71 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 0



Soil ID: OND401071616

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071633

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071618

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBIV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-17 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 53 | **Total Silt(%)** : 34 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.052 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 17-33 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 30 | **Total Silt(%)** : 39 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.273 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-62 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 52 | **Total Silt(%)** : 28 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.683 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 62-84 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 45 | **Total Sand(%)** : 62 | **Total Silt(%)** : 26 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 1.597 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 84-100 | **Horizon** : Ckg | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 54 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.194 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401071618

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072739

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONFRMRU~~~A | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401072739

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : None | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : OND401072739-ONFRM~~~~~N | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |



Soil ID: OND401072738

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401071637

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072651

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONAHG~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-22 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 77 | **Total Silt(%)** : 11 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 6.3 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 5.331 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 22-45 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 9.364 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 45-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 93 | **Total Silt(%)** : 4 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 6.367 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-100 | **Horizon** : C | **Layer No** : 4 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 94 | **Total Silt(%)** : 5 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 7.817 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072651

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072735

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Exceedingly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401072735

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soil ID: OND401071674

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONRSL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 86 | **Total Silt(%)** : 10 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 1.1 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 6.641 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-31 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 93 | **Total Silt(%)** : 6 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 4.7 | **Saturated Hydraulic Conductivity(cm/h)** : 9.187 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 31-53 | **Horizon** : BCgj | **Layer No** : 3 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 4.6 | **Saturated Hydraulic Conductivity(cm/h)** : 8.134 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 53-100 | **Horizon** : Cgj | **Layer No** : 4 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 98 | **Total Silt(%)** : 1 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 4.8 | **Saturated Hydraulic Conductivity(cm/h)** : 7.845 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071674

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONCLA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 5 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.934 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-25 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 8.209 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-66 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 95 | **Total Silt(%)** : 3 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 8.325 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-82 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 8.134 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 82-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 6.96 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071677

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONMOK~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-26 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 16 | **Total Sand(%)** : 79 | **Total Silt(%)** : 15 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 5.871 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 26-42 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 21 | **Total Sand(%)** : 80 | **Total Silt(%)** : 14 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 4.747 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-66 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 23 | **Total Sand(%)** : 81 | **Total Silt(%)** : 15 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 5.129 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-98 | **Horizon** : C | **Layer No** : 4 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 19 | **Total Silt(%)** : 29 | **Total Clay(%)** : 52 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 98-109 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 12 | **Total Clay(%)** : 85 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401071677

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONCLA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 5 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.934 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-25 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 8.209 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-66 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 95 | **Total Silt(%)** : 3 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 8.325 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-82 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 8.134 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 82-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 6.96 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072736

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBBO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 35 | **Total Clay(%)** : 63 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.27 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-58 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 21 | **Total Clay(%)** : 77 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.202 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 58-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 25 | **Total Clay(%)** : 74 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.191 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072731

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soil ID: OND401071670

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONCLA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 5 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.934 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-25 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 8.209 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-66 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 95 | **Total Silt(%)** : 3 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 8.325 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-82 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 8.134 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 82-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 6.96 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071670

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONMOK~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-26 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 16 | **Total Sand(%)** : 79 | **Total Silt(%)** : 15 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 5.871 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 26-42 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 21 | **Total Sand(%)** : 80 | **Total Silt(%)** : 14 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 4.747 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-66 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 23 | **Total Sand(%)** : 81 | **Total Silt(%)** : 15 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 5.129 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-98 | **Horizon** : C | **Layer No** : 4 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 19 | **Total Silt(%)** : 29 | **Total Clay(%)** : 52 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 98-109 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 12 | **Total Clay(%)** : 85 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072733

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBBO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 35 | **Total Clay(%)** : 63 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.27 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-58 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 21 | **Total Clay(%)** : 77 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.202 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 58-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 25 | **Total Clay(%)** : 74 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.191 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072732

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBBO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 35 | **Total Clay(%)** : 63 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.27 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-58 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 21 | **Total Clay(%)** : 77 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.202 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 58-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 25 | **Total Clay(%)** : 74 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.191 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071655

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401072572

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soil ID: OND401071650

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401071650

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONSPD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : -6-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 18.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 67 | **Total Silt(%)** : 23 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 7.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.975 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 4-18 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 30 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.081 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-25 | **Horizon** : Bfgj | **Layer No** : 4 | **Very Fine Sand(%)** : 47 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 7.891 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-42 | **Horizon** : Bfgj | **Layer No** : 5 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 92 | **Total Silt(%)** : 7 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.131 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-59 | **Horizon** : Bgj | **Layer No** : 6 | **Very Fine Sand(%)** : 55 | **Total Sand(%)** : 92 | **Total Silt(%)** : 8 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.133 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 59-76 | **Horizon** : Bg | **Layer No** : 7 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 98 | **Total Silt(%)** : 2 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in**

Soil ID: OND401071690

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soil ID: OND401071699

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071699

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401071635

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONJKV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 69 | **Total Silt(%)** : 21 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.153 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-29 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 26 | **Total Sand(%)** : 80 | **Total Silt(%)** : 17 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.686 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 29-100 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 36 | **Total Sand(%)** : 83 | **Total Silt(%)** : 12 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 4.903 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401071635

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONSPD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : -6-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 18.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 67 | **Total Silt(%)** : 23 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 7.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.975 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 4-18 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 30 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.081 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-25 | **Horizon** : Bfgj | **Layer No** : 4 | **Very Fine Sand(%)** : 47 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 7.891 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 25-42 | **Horizon** : Bfgj | **Layer No** : 5 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 92 | **Total Silt(%)** : 7 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.131 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 42-59 | **Horizon** : Bgj | **Layer No** : 6 | **Very Fine Sand(%)** : 55 | **Total Sand(%)** : 92 | **Total Silt(%)** : 8 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.133 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 59-76 | **Horizon** : Bg | **Layer No** : 7 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 98 | **Total Silt(%)** : 2 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in**

Soil ID: OND401072652

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072652

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONSHO~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : -5-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 40.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 41 | **Total Sand(%)** : 83 | **Total Silt(%)** : 9 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 10.3 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 2.981 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 4-26 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.598 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 26-64 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 32 | **Total Sand(%)** : 95 | **Total Silt(%)** : 4 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.8 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 7.996 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 64-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 99 | **Total Silt(%)** : 0 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 7.865 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072650

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072650

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONMUA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 80 | **Total Silt(%)** : 13 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 4.622 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 19-28 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 80 | **Total Silt(%)** : 14 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 4.787 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 28-46 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 81 | **Total Silt(%)** : 14 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.474 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-66 | **Horizon** : Cgj | **Layer No** : 4 | **Very Fine Sand(%)** : 14 | **Total Sand(%)** : 24 | **Total Silt(%)** : 32 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 0.216 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-100 | **Horizon** : Cgj | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 26 | **Total Clay(%)** : 71 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071628

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soil ID: OND401071628

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401071644

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONJKV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 69 | **Total Silt(%)** : 21 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.153 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-29 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 26 | **Total Sand(%)** : 80 | **Total Silt(%)** : 17 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.686 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 29-100 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 36 | **Total Sand(%)** : 83 | **Total Silt(%)** : 12 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 4.903 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071644

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONSPD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : -6-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 18.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 67 | **Total Silt(%)** : 23 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 7.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.975 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 4-18 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 30 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.081 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-25 | **Horizon** : Bfgj | **Layer No** : 4 | **Very Fine Sand(%)** : 47 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 7.891 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-42 | **Horizon** : Bfgj | **Layer No** : 5 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 92 | **Total Silt(%)** : 7 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.131 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-59 | **Horizon** : Bgj | **Layer No** : 6 | **Very Fine Sand(%)** : 55 | **Total Sand(%)** : 92 | **Total Silt(%)** : 8 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.133 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 59-76 | **Horizon** : Bg | **Layer No** : 7 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 98 | **Total Silt(%)** : 2 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in**



Soil ID: OND401072723

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONBBO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 35 | **Total Clay(%)** : 63 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.27 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-58 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 2 | **Total Silt(%)** : 21 | **Total Clay(%)** : 77 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.202 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 58-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 25 | **Total Clay(%)** : 74 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.191 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072723

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONSTA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 17 | **Total Silt(%)** : 40 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 2.8 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.385 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-50 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 41 | **Total Clay(%)** : 55 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.247 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-75 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 5 | **Total Silt(%)** : 34 | **Total Clay(%)** : 61 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.249 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 75-100 | **Horizon** : Cgk | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 53 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.192 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071640

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Soil ID: OND401072734

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401072734

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401071669

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401071648

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONSPD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : -6-0 | **Horizon** : LFH | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 18.0 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.588 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 0-4 | **Horizon** : Ae | **Layer No** : 2 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 67 | **Total Silt(%)** : 23 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 7.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.975 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 4-18 | **Horizon** : Bf | **Layer No** : 3 | **Very Fine Sand(%)** : 30 | **Total Sand(%)** : 89 | **Total Silt(%)** : 7 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.081 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-25 | **Horizon** : Bfgj | **Layer No** : 4 | **Very Fine Sand(%)** : 47 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 7.891 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 25-42 | **Horizon** : Bfgj | **Layer No** : 5 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 92 | **Total Silt(%)** : 7 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.131 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 42-59 | **Horizon** : Bgj | **Layer No** : 6 | **Very Fine Sand(%)** : 55 | **Total Sand(%)** : 92 | **Total Silt(%)** : 8 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 9.133 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 59-76 | **Horizon** : Bg | **Layer No** : 7 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 98 | **Total Silt(%)** : 2 | **Total Clay(%)** : 0 | **Organic Carbon(%)** : 0.3 | **pH in**

Soil ID: OND401071648

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONMUA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 80 | **Total Silt(%)** : 13 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 4.622 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-28 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 80 | **Total Silt(%)** : 14 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 4.787 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 28-46 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 81 | **Total Silt(%)** : 14 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.474 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 46-66 | **Horizon** : Cgj | **Layer No** : 4 | **Very Fine Sand(%)** : 14 | **Total Sand(%)** : 24 | **Total Silt(%)** : 32 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 0.216 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 66-100 | **Horizon** : Cgj | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 26 | **Total Clay(%)** : 71 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072737

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONMUA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 80 | **Total Silt(%)** : 13 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 4.622 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-28 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 80 | **Total Silt(%)** : 14 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 4.787 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 28-46 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 81 | **Total Silt(%)** : 14 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 5.474 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 46-66 | **Horizon** : Cgj | **Layer No** : 4 | **Very Fine Sand(%)** : 14 | **Total Sand(%)** : 24 | **Total Silt(%)** : 32 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 0.216 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 66-100 | **Horizon** : Cgj | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 26 | **Total Clay(%)** : 71 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 0 |



Soils Report

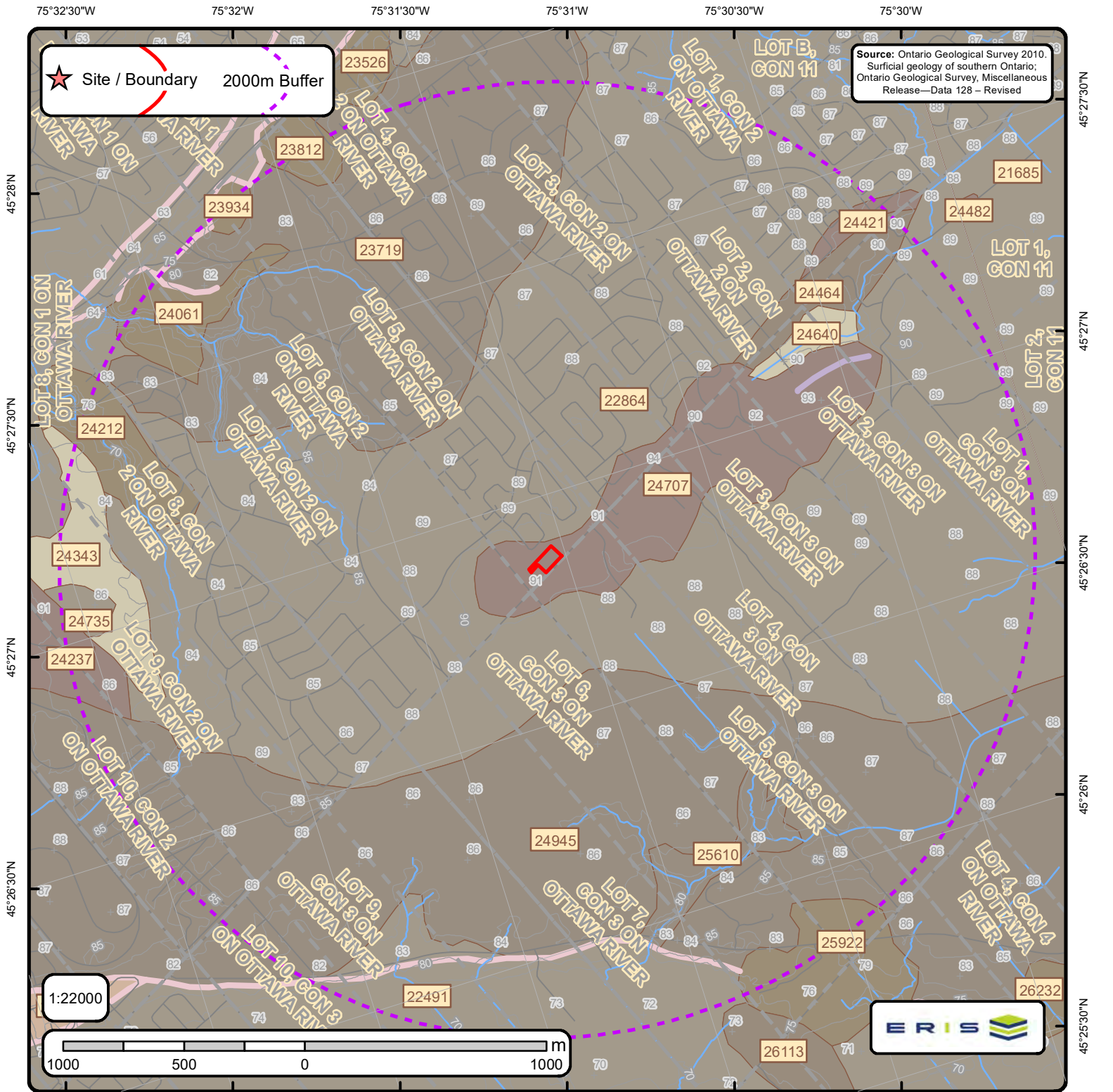
Soil Map Units Found within 2000 m of
3493, 3497, and 3499 Innes Road

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Order No.
22102100112



Soil ID: OND401072737

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |



The Surficial Geology of Southern Ontario Order No. 22102100112

+	Spot Height	—	Streams		Dune		Beach		Esker		karst		pitsg
	Waterbody	—	Contour Lines		Lake		Bluff		Esker ND		linfeat		popup
	Wetlands	—	Roads		Rib		Crevasse		Fluvial DL		megarip		ribl
	Airports	—	Railroads		Scab		Crest		fluvndl		mfluvdl		slidel
	Pit or Quarry		Morains		Slide		End		iceberg		mfluvndl		slumpb
	Lots		NOF Dune		Escarpment		icslope		moraine		terrace		



ID: 22491 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

ID: 22864 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform a

ID: 23719 | **Unit Name:** Deltaic and estuarine deposits |
Deposit Type Code: 4 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Medium-to fine-grained sand, in some places fossiliferous; lies outside abandoned channels; most common deposit is a combined strip delta-sand plain that developed as water levels fell.

ID: 23812 | **Unit Name:** Landslide |
Deposit Type Code: I | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** clay | **Secondary Material:** sand | **Primary General:** colluvial | **Primary General Modifier:** landslide | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Landslide area showing location of headscarp and general trend of slump ridges. Ridges generally consist of clay with overlying or admixed sand.

ID: 23934 | **Unit Name:** Landslide |
Deposit Type Code: I | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** clay | **Secondary Material:** sand | **Primary General:** colluvial | **Primary General Modifier:** landslide | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Landslide area showing location of headscarp and general trend of slump ridges. Ridges generally consist of clay with overlying or admixed sand.



ID: 24061 | **Unit Name:** Landslide |
Deposit Type Code: I | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** clay | **Secondary Material:** sand | **Primary General:** colluvial | **Primary General Modifier:** landslide | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Landslide area showing location of headscarp and general trend of slump ridges. Ridges generally consist of clay with overlying or admixed sand.

ID: 24212 | **Unit Name:** Landslide |
Deposit Type Code: I | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** clay | **Secondary Material:** sand | **Primary General:** colluvial | **Primary General Modifier:** landslide | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Landslide area showing location of headscarp and general trend of slump ridges. Ridges generally consist of clay with overlying or admixed sand.

ID: 24237 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 24343 | **Unit Name:** Organic deposits |
Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

ID: 24421 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

**ID: 24464 | Unit Name: Till |**

Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 24640 | Unit Name: Organic deposits |

Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

ID: 24707 | Unit Name: Bedrock |

Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 24735 | Unit Name: Offshore marine deposits |

Deposit Type Code: 3 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform a

ID: 24945 | Unit Name: Deltaic and estuarine deposits |

Deposit Type Code: 4 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Medium-to fine-grained sand, in some places fossiliferous; lies outside abandoned channels; most common deposit is a combined strip delta-sand plain that developed as water levels fell.



Surface Geology Report

Surface Geology units found within 2000 m of
3493, 3497, and 3499 Innes Road

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ID: 25610 | **Unit Name:** Deltaic and estuarine deposits |
Deposit Type Code: 4 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Medium-to fine-grained sand, in some places fossiliferous; lies outside abandoned channels; most common deposit is a combined strip delta-sand plain that developed as water levels fell.

ID: 25922 | **Unit Name:** Landslide |
Deposit Type Code: I | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** clay | **Secondary Material:** sand | **Primary General:** colluvial | **Primary General Modifier:** landslide | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Landslide area showing location of headscarp and general trend of slump ridges. Ridges generally consist of clay with overlying or admixed sand.



ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier - This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.

HLUI SUMMARY REPORT
 AREA FEATURES

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	SOURCE_UPDATE_SORTED	QAQC	YEAR	YEAR_1	ST_NUM	ST_NAME	ST_SUFFIX	ST_DIR	MUNICIPALITY
10982	CLASSIC CREATIONS	Educational services	2006-ES	1			3484	INNES	RD		
12147	PLUMBING DEPOT	Plumbing, Heating and Air	2001-ES; 2005-SelectPhone; 200	1	2001-2006	c. 2001; c.	3544	INNES	RD		
12148	LYNX ENERGY SVC LIM	Mechanical Specialty Wor	2005-SelectPhone	1	2005	c. 2005	3544	INNES	RD		
12149	NORMCO FORMING LIM	Structural and Related Wc	2001-ES; 2005-SelectPhone; 200	1	2005	c. 2001; c.	3544	INNES	RD		
12170	CARREFOUR DRY CLEA	Other/Dry Cleaners	2006-ES; 2012-ES	1	2006-2012	ES 2006; E	3469	INNES	RD		
12171	ULTRAMAR	Service Stations-Gasoline	2006-ES; 2012-ES; 2017-SalesG	1	2006-2017	ES 2006; E	3469	INNES	RD		
12172	ORLEANS DRY CLEANER	Other/Dry Cleaners	2006-ES; 2012-ES; 2017-SalesG	1	2006-2017	ES 2006; E	3469	INNES	RD		
12173	BREWMASTERS CLUB M	Soft Drink Industry	2001-ES	1	2001	c. 2001	3469	INNES	RD		ORLEANS
12178	BELL CANADA	Telecommunication Carrie	2000-PID	1	2000	c. 2000; c.	3605	INNES	RD		CUMBERL
13285	BUILDERS' WAREHOUSE	Lumber and Building Mate	1922-DMD-TM-Ottawa-Sheet#14	1	1985-2016	1985-2016	3636	INNES	RD		NEPEAN

HLUI SUMMARY REPORT
 AREA FEATURES

ST_NUM201 7	ST_NAME2017	ST_SUFFIX2 017	ST_DIR2017	POSTAL_CO DE2017	PIN2017	MUNICIPALITY2017	NAICS	SIC	COMMENTS	STORAGE_TANK	Shape_Length
3484	INNES	RD		K1C1T1	44040462	GLOUCESTER	611610				174.0801655
3544	INNES	RD		K1C1T1	44040466	GLOUCESTER	238210; 238220; 238910; 444190				178.2199985
3544	INNES	RD		K1C1T1	44040466	GLOUCESTER	238210; 238220; 238910				178.2199985
3544	INNES	RD		K1C1T1	44040466	GLOUCESTER	238110; 238190				178.2199985
3469	INNES	RD		K1C1T1	44060222	GLOUCESTER	447110; 812310; 812320				270.3127089
3469	INNES	RD		K1C1T1	44060222	GLOUCESTER	447110; 812310; 812320				270.3127089
3469	INNES	RD		K1C1T1	44060222	GLOUCESTER	447110; 812310; 812320				270.3127089
3469	INNES	RD		K1C1T1	44060222	GLOUCESTER	312120				270.3127089
3605	INNES	RD		K1C1T1	44060621	GLOUCESTER	515110; 515120; 517110; 517210; 517310; 517410; 5				295.4186153
3636	INNES	RD		K1C1T1	44040452	GLOUCESTER	321111; 321112 251; 563		UTM = 436700E, 501385C		1382.96043

HLUI SUMMARY REPORT
AREA FEATURES

Shape_Area

1712.316255
1431.586263
1431.586263
1431.586263
3704.558365
3704.558365
3704.558365
3704.558365
4255.753617
97273.16945

**Ministry of the Environment,
Conservation and Parks**

Access and Privacy Office
12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

**Ministère de l'Environnement, de
la Protection de la nature et des
Parcs**

Bureau de l'accès à l'information et
de la protection de la vie privée
12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc.: (416) 314-4285



February 22, 2021

Jenna Findlay
BluMetric Environmental Inc.
3108 Carp Rd., P.O. Box 430
Carp (Ottawa), ON K0A 1L0

Dear Jenna Findlay:

RE: ***Freedom of Information and Protection of Privacy Act Request
Our File # A-2020-03741, Your Reference 200412***

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 3493 Innes Road, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. **We have applied the \$30.00 for this request from your initial payment. This file is now closed.**

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Hira Ashraf at (647) 642-9681 or hira.ashraf@ontario.ca.

Yours truly,

Noel Kent
Manager, Access and Privacy

**Ministry of the Environment,
Conservation and Parks**

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40 St. Clair Avenue West
Toronto ON M4V 1M2
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12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc.: (416) 314-4285



February 22, 2021

Jenna Findlay
BluMetric Environmental Inc.
3108 Carp Rd., P.O. Box 430
Carp (Ottawa), ON K0A 1L0

Dear Jenna Findlay:

RE: ***Freedom of Information and Protection of Privacy Act Request
Our File # A-2020-03742, Your Reference 200412***

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 3497 Innes Road, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. **We have applied the \$30.00 for this request from your initial payment. This file is now closed.**

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Hira Ashraf at (647) 642-9681 or hira.ashraf@ontario.ca.

Yours truly,

Noel Kent
Manager, Access and Privacy

**Ministry of the Environment,
Conservation and Parks**

Access and Privacy Office
12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

**Ministère de l'Environnement, de
la Protection de la nature et des
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Bureau de l'accès à l'information et
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12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc.: (416) 314-4285



February 22, 2021

Jenna Findlay
BluMetric Environmental Inc.
3108 Carp Rd., P.O. Box 430
Carp (Ottawa), ON K0A 1L0

Dear Jenna Findlay:

RE: ***Freedom of Information and Protection of Privacy Act Request
Our File # A-2020-03743, Your Reference 200412***

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 3499 Innes Road, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. **We have applied the \$30.00 for this request from your initial payment. This file is now closed.**

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Hira Ashraf at (647) 642-9681 or hira.ashraf@ontario.ca.

Yours truly,

Noel Kent
Manager, Access and Privacy



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

Tel: (416) 734-3383
Fax: (416) 231-6183
Email: publicinformationservices@tssa.org

08 July 2020

Jenna Findlay
BluMetric Environmental Inc.
3108 Carp Road
Ottawa, ON K0A 1L0

Subject: 3493 Innes Road, Ottawa, Ontario
Your File No.: 200412
SR No.: 2855484

Dear Madam/Sir:

We are in receipt of your correspondence wherein you requested information regarding the above noted subject.

A search of our records did not produce any Fuels Safety documents.

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

Should you have any questions, please contact Public Information at publicinformationservices@tssa.org.

Yours truly,

C. Hill

Connie Hill
Public Information Agent



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

Tel: (416) 734-3383
Fax: (416) 231-6183
Email: publicinformationservices@tssa.org

08 July 2020

Jenna Findlay
BluMetric Environmental Inc.
3108 Carp Road
Ottawa, ON K0A 1L0

Subject: 3497 Innes Road, Ottawa, Ontario
Your File No.: 200412
SR No.: 2855488

Dear Madam/Sir:

We are in receipt of your correspondence wherein you requested information regarding the above noted subject.

A search of our records did not produce any Fuels Safety documents.

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

Should you have any questions, please contact Public Information at publicinformationservices@tssa.org.

Yours truly,

C. Hill

Connie Hill
Public Information Agent



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

Tel: (416) 734-3383
Fax: (416) 231-6183
Email: publicinformationservices@tssa.org

31 July 2020

Jenna Findlay
BluMetric Environmental Inc.
3108 Carp Road
Ottawa, ON K0A 1L0

Subject: 3499 Innes Road, Ottawa, Ontario
Your File No.: 200412
SR No.: 2876574

Dear Madam/Sir:

We are in receipt of your correspondence wherein you requested information regarding the above noted subject.

A search of our records did not produce any Fuels Safety documents.

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

Should you have any questions, please contact Public Information at publicinformationservices@tssa.org.

Yours truly,

C. Hill

Connie Hill
Public Information Agent

10.4 SITE PHOTOGRAPHS

This appendix includes:

- Site photographs taken during the site visit;
- Aerial photographs of the Phase One Property.





1. Photo is taken facing north from the south boundary along Innes Road, looking at 3497 Innes Road and the structures on the Phase One Property.



2. Photo is taken facing northeast from the south boundary of the property along Innes Road, looking at 3499 Innes Road property.



3. Photo is taken facing northwest from the south boundary, looking at the 3493 Innes Road property.



4. Photo is taken inside the garage structure at 3493 Innes Road.



5. Photo is taken facing west from the central-east part of the Phase One Property.



6. Photo is taken facing west from the north side of the 3493 Innes Road property.



7. Photo is taken facing east from the west side of the garage building on 3493 Innes Road.



8. Photo is taken along the western boundary of the Phase One Property, showing the location of MW1.



9. Photo is taken of the southwest corner of the trailer structure at 3497 Innes Road, showing the location of the utility connections, which were shut off at the time of the site visit.



Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
1945
230028 – January 2023





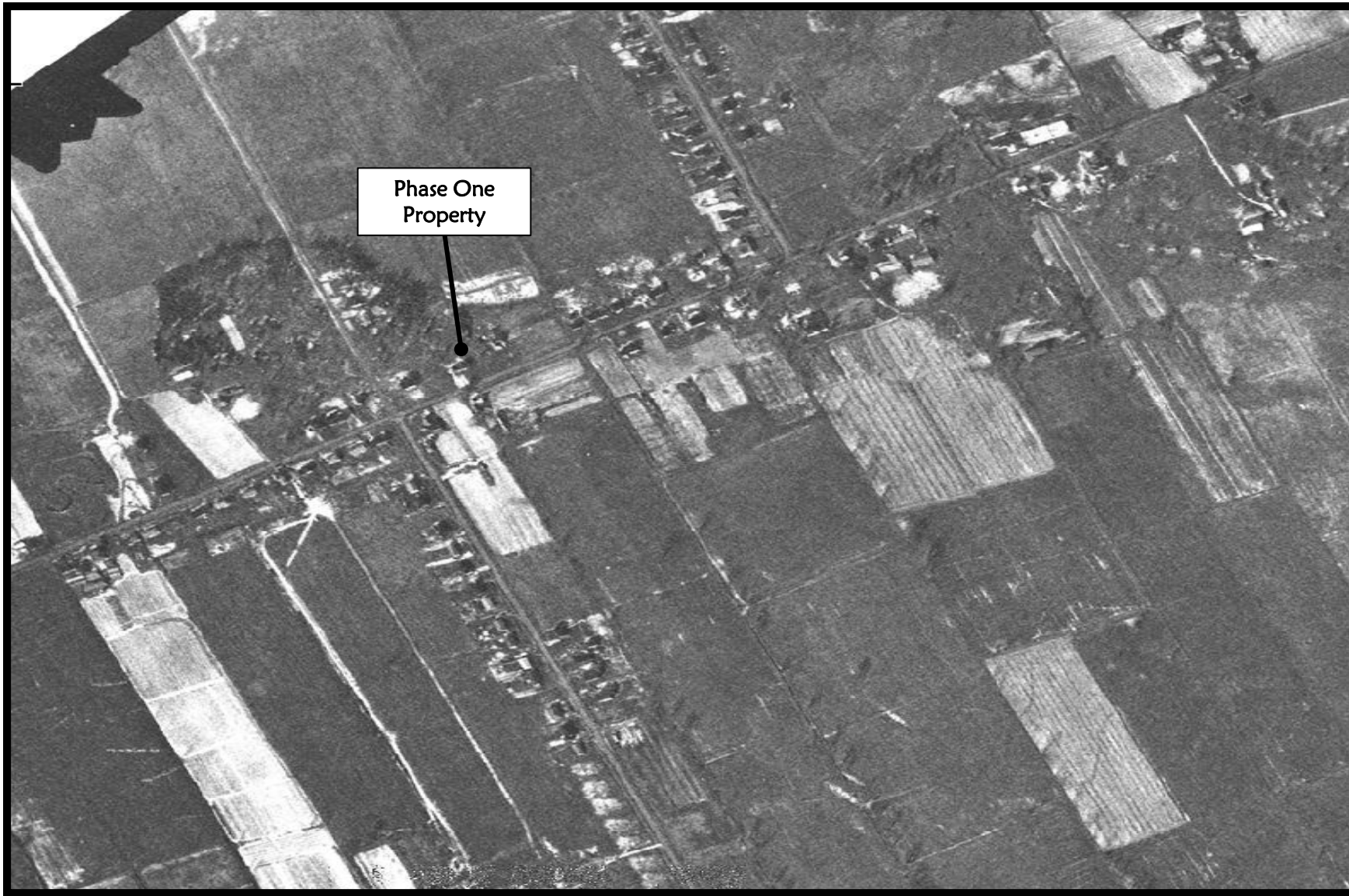
Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
1954
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
1965
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
1967
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
1976
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
1981
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
1991
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
1999
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
2002
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
2008
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
2011
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
2014
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
2018
230028 – January 2023





Historical Aerial Photography of the Site
3493, 3497, and 3499 Innes Road, Ottawa, Ontario
2021
230028 – January 2023



10.5 ASSESSOR CREDENTIALS

This appendix includes the curriculum vitae for:

- Robert Hillier, P.Geo., QP_{ESA}
- Amanda Gartshore, M.Sc.



EDUCATION

- B.Sc., Earth Sciences, University of Waterloo, 1986

YEARS OF EXPERIENCE

- 35 years of experience
- 34 years with BluMetric

EMPLOYMENT HISTORY

- 1987 – Present: BluMetric, Senior Hydrogeologist (acting Branch Manager 2001 - 2011)
- 1986 – 1987: University of Waterloo, Institute for Groundwater Research, Research Assistant and Field Technician

PROFESSIONAL AFFILIATIONS

- Professional Geoscientists of Ontario
- National Ground Water Association
- International Association of Hydrogeologists

TRAINING

- Valid First Aid/CPR
- 8 Hour Hazwoper Refresher, 2011
- Understanding Environmental Regulations, EPIC, November 2008
- Cleanup of Contaminated Sites, Guideline Best Practices & Pitfalls to Avoid, MOE, May 2000
- Understanding Migration, Assessment and Remediation of Non-Aqueous Phase Liquids, National Groundwater Association, 1992
- 40 Hour Hazwoper, National Water Well Association, 1989
- Organic Contaminants In Groundwater, The Waterloo Centre for Groundwater Research, 1988

LANGUAGES

- English

ROLE

- Senior Hydrogeologist
- Project Geologist
- Project/Client Manager

EXPERTISE

- Phased Environmental Site Assessments
- Soil and Groundwater Remediation
- Water Supply Assessment
- Solid Waste Management

PROFESSIONAL PROFILE

Mr. Hillier's broad range of project experience in the fields of groundwater supply, contaminant hydrogeology, site remediation and environmental site assessment, permit him to provide a practical and common sense approach to addressing environmental related issues. He is well-versed with the specific requirements within both provincial and federal environmental guidelines, standards and regulations. Mr. Hillier has managed and carried out numerous large industrial and commercial property environmental site assessments for due diligence, financial assurance and redevelopment purposes. He has specific expertise in the design and implementation of remedial action plans, groundwater aquifer assessment, production well design/testing, and groundwater/surface water impact assessment for waste disposal sites, patrol yards and fuel handling sites. He has managed and conducted environmental science related projects in Eastern Canada, Nunavut, the United Kingdom and the Caribbean.

Mr. Hillier is a Qualified Person (QP) as per Ontario Regulation 153/04 for Phase I and II Environmental Site Assessments in support of filing for a Record of Site Condition. Mr. Hillier provides Senior Review and is the Competent Environmental Practitioner (CEP) for surface water and groundwater reporting to the MECP for assessment and monitoring of waste disposal sites.



REPRESENTATIVE EXPERIENCE

Project Management

Mr. Hillier manages projects in accordance with the procedures of BluMetric's Quality Management System and is responsible for project communication and planning; budget and resource allocations for the project and ensuring project deliverables are on schedule and meet all requirements. Mr. Hillier appreciates that the demands of each project and client are unique and that communication and a clear understanding of the client needs are key in delivering a successful project. He understands that project requirements sometimes change during implementation, and dedicates time and effort towards client service and project management to ensure that the project objectives continue to be effectively and efficiently met.

Mr. Hillier has successfully managed projects ranging from small scale to multi-year million dollar ventures. He is skilled at managing a broad range of projects involving solid waste management, contaminant hydrogeology, environmental site assessments and remediation, and municipal groundwater supply. He ensures the project teams are comprised of competently skilled personnel to produce a high quality product in a timely manner. He is skilled in project control (task implementation, scheduling, budget control, personnel management, etc.), communication with stakeholders, project risk management, and issues resolution and the presentation of investigation findings and recommendations. Mr. Hillier is adept at working with regulators at all government levels and has an in-depth understanding of the regulatory process allowing him to meet the client's objectives in a quick and efficient manner. A representative list of Mr. Hillier's long term clients includes:

- City of Ottawa Environmental Remediation Unit: 1998-Ongoing
- Hydro Ottawa: 2002-Ongoing
- Ottawa Carleton District School Board: 2006-Ongoing
- Circle K Stores (formerly Mac's Convenience Stores): 2002-Ongoing
- Port of Johnstown: 1987-Ongoing
- Canadian Bank Note Company Limited: 1995-Ongoing
- Infrastructure Ontario: 2011-2017
- International Paper: 1995-2013
- Canadian Pacific Railway: 1996-2001

Environmental Site Assessment and Hydrogeological Investigations

Mr. Hillier has overseen soil and groundwater environmental site assessment studies for numerous domestic, commercial and industrial properties. He has investigated and characterized soil and groundwater conditions in the vicinity of a broad range of contaminant sources that have included the full range of available petroleum based products, chlorinated organic solvents (industrial use and dry cleaning), coal tar (former coal gasification plant), firefighting foams (PFOS), metals (industrial inks and wastewater). He has provided project management and technical expertise from initial project planning, contaminant characterization, data collection for risk assessment, and implementation of remedial measures and/or contaminant management plans. Mr. Hillier has provided peer review and expert opinion for various clients to ensure their environmental concerns are adequately addressed when ESA and/or remediation projects have been carried out by adjacent property owners or other stakeholders.



Mr. Hillier has conducted groundwater plume definition and environmental impact studies for numerous domestic, commercial and industrial properties. He has investigated and characterized soil and groundwater conditions in the vicinity of underground petroleum and solvent storage tanks. With respect to contaminant hydrogeology, his project management and technical involvement has included project planning, monitoring and purge well design and construction, water quality sampling, data analysis, remedial alternatives assessment and implementation of remedial measures. Mr. Hillier is a Qualified Person under Ontario Regulation 153/04 and has completed numerous Phased environmental assessments on behalf of Infrastructure Ontario, City of Ottawa, DND, DCC, PSPC, private industry, insurance companies and banks. Select projects include:

- Infrastructure Ontario. Brockville Psychiatric Hospital Phase I and II ESA, Risk Management and Remedial Alternatives Assessment, Brockville ON. Project Manager. Responsible for client communications, budget control, invoicing, technical support and report review. A 'Risk Opinion' was developed for IO to assess the risks posed by fill materials containing PAHs and metals exceeding O. Reg. 153/04 Site Condition Standards (May 2013-Feb 2017). Contract Value \$175,000.
- Infrastructure Ontario. Sir James Whitney School for the Deaf Phase I and II ESA, Belleville ON. Project Manager and Senior Hydrogeologist. Client contact and responsible for resource allocation (including subcontractors), scheduling, budget and overall QA/QC of all reports, senior technical advice and technical direction. The Phase I and II ESAs were performed completed in general accordance with O.Reg. 153/04 (Dec 2011-Dec 2012). Contract Value \$115,000.
- City of Ottawa, Phase One, Two ESA, Hydrogeological Study and Monitoring for 1631 Stittsville Main Street, Ottawa ON. The Phase One and Two ESAs were conducted to meet the requirements described in O. Reg. 153/04. Project Manager, Client Liaison and Technical Lead. Responsible for resource allocation (including subcontractors), scheduling, budget and overall QA/QC of all reports (May 2016-Nov 2017 (Phase One, Phase Two & Hydrogeological Study); Mar 2019-Sep 2019 (Monitoring)).
- City of Ottawa. Phase I/II ESAs, Soil and Groundwater Remediation at More Than 12 Sites, Including Ongoing Monitoring at Some Sites, Ottawa ON. Client Manager and Project Manager. Responsible for resource allocation (including subcontractors), scheduling, budget and overall QA/QC of all reports. Projects have included Phased ESAs for existing and former Municipal maintenance garage/yards (Ballantyne Building, Greely Yard, Huntley Yard, Torbolton Yard). Developed work specifications and Remediation Oversight for a \$200,000 subsurface remediation program for the Ballantyne Building. Duties have required liaising with regulators, municipal departments and private stakeholders (2006-Ongoing).
- Road Salt Impact Delineation for Various Patrol Yards and a Large Storage Facility: Port of Prescott (1987-Ongoing); City of Ottawa (2007-Ongoing).
- Circle K Stores (formerly Mac's Convenience Stores). Phase II ESAs, Soil and Groundwater Remediation at Multiple Retail Fuel Stations, Various Sites Eastern ON (2002-Ongoing).
- Canadian North (formerly First Air). Completed environmental site assessments at former and existing hangar facilities located in Ottawa Ontario. (2005-Ongoing). Contract Value \$100,000.
- Infrastructure Ontario. MNRF Pembroke Works Yard Limited Phase II ESA (June 2012), Remediation Planning and Oversight (2012-2013) and Long-Term Monitoring (2013-2016), Pembroke ON. Contaminant of concern was petroleum hydrocarbons. Project Lead. Responsible for client communication, budget control, invoicing, technical support and report review (May 2013-Mar 2017). This project included development of a remedial action plan and remedial specifications (NMS format), remediation oversight and follow-up environmental monitoring and reporting. BluMetric Contract Value (All Phases) \$250,000. Remediation Contract Value \$700,000.



- Infrastructure Ontario. Phase I, II ESA and Hydrogeology Study for a Site Near Cameron Avenue and Spence Road, Hawkesbury ON. Project Manager and Senior Hydrogeologist. Client contact and responsible for resource allocation (including subcontractors), scheduling, budget and overall QA/QC of all reports, senior technical advice and technical direction of the project. The Phase I and II ESAs were completed in general accordance with O.Reg. 153/04 (May 2015-Dec 2016). Contract Value \$65,000.
- Infrastructure Ontario. Brookside Youth Centre Phase I and II ESA, Cobourg ON. Separate Phase I and II ESAs for the East and West portions of the institutional property located at 390 King Street East in Cobourg, Ontario. Project Lead/Manager. Responsible for resource allocation (including subcontractors), scheduling, budget and overall QA/QC of all reports (Jun 2016-Sep 2016).
- Infrastructure Ontario. Phase I ESA for Site #43 Providence Continuing Care Centre (Kingston Psychiatric), Kingston ON. Project Manager. Responsible for resource allocation, subcontractor oversight and direction, scheduling, budget and overall QA/QC of reports. The ESA was completed in general accordance with O.Reg. 153/04 and also included comments on designated substances at the site. The project was completed on-time and on-budget (Jan-Mar 2016). Contract Value \$29,300.
- Infrastructure Ontario. Phase I ESA and Category B EA for the Perth Jail Property, Perth ON. Project Manager and Client Contact. Responsible for resource allocation (including subcontractors), scheduling, budget and overall QA/QC of all reports. This project was completed in support of the proposed severance and disposition of the subject property (Aug 2015-Jan 2016). Contract Value \$16,500.
- Infrastructure Ontario. Hazardous Materials and Designated Substances Survey (HMDSS), Phase II ESAs and Limited Category B Class EAs at Moose Lake, Round Lake and Machesney Lake Junior Ranger Camps ON. Project Manager. Client contact and responsible for resource allocation (including subcontractors), scheduling, budget and overall QA/QC of all reports. Project included HMDSS of 10 to 15 buildings at each of the three sites as per Ontario regulations. Phase Two ESAs were completed in general accordance with O. Reg. 153/04 (Nov 2014-Jan 2015). Total Contract Value \$125,000.
- Infrastructure Ontario. Phase I and II ESA and Hydrogeology Study for 440 Kent Street West Kawartha Lake, Lindsay ON. Project Manager and Senior Hydrogeologist. Client contact and responsible for resource allocation (including subcontractors), scheduling, budget and overall QA/QC of all reports, senior technical advice and technical direction. The Phase I and II ESAs were performed completed in general accordance with O.Reg. 153/04 (Dec 2011-Dec 2012). Contract Value \$95,000.
- Indigenous and Northern Affairs Canada, Various Sites NU and NT. Senior Technical Reviewer of various Phase I ESA and Phase II ESAs. Responsibilities included senior oversight/review of project deliverables (2009-2011).
- CP Railway, Ottawa ON. Petroleum hydrocarbon impacts from former bulk fuels storage facility adjacent to rail lands ultimately leased for use with Ottawa 'O' Train (1998-2002).
- Canadian North (formerly First Air), Arctic Bay NU. Completed an environmental site assessment on behalf of First Air for newly acquired lands and storage facilities located at the Nanisivik Airport near Arctic Bay and for a property located within the community of Nanisivik (1998).
- Amoco, Hawkesbury Ontario. Project hydrogeologist for subsurface chlorinated solvent impact delineation and assessment for large textile facility (1988-1992).

Remediation

Mr. Hillier has gained extensive experience in remedial options and risk management measures analysis, remedial action planning and the implementation of subsurface remediation programs for soil and groundwater impacts. Experience using various conventional and innovative remediation technologies. Remedial action



plans were produced and successfully implemented for various sites that included reporting to the MECP and/or TSSA and/or reporting to municipalities and/or other consulting firms acting on behalf of other stakeholders. His wide range of project experience has proven valuable in identifying remediation strategies that best meet the ultimate goals, strategies, and economic resources/limitations of specific clients and/or situations. For those projects with an impact to the public, significant effort has been given to address the specific concerns of those individuals most affected by a remedial strategy. Select projects include:

- Multiple similar projects for the following insurers: AVIVA Insurance, the Co-operators, Pilot Insurance. Project Manager for domestic or commercial heating oil spills (losses ranging from 50-1500 litres). Remediation has included a combination of excavation and off-site disposal (landfill), product recovery through strategic pumping from temporary wells and in situ chemical oxidation (1995-Ongoing). Contract Values \$3,000 to \$75,000.
- Hydro Ottawa. Senior advisor and Qualified Person on >100 remediation projects relating to mineral insulation oil losses from residential/commercial transformers and transformer substations (2003 to 2014). Contract Values \$2,500 to \$40,000.
- Canadian Bank Note Company Limited. Provision of Environmental Services for a Property Impacted by Chlorinated Solvent in Groundwater, Ottawa ON. Tasks included: Phase II ESA (1999), remediation planning and groundwater pump and treat program (2000-2011) and long-term monitoring (2011-2016). Project Lead. Responsible for client communication, budget control, invoicing, technical support and report review. Total Contract Value \$200,000.
- Shorewood Packaging (now Newterra). Provision of Environmental Services for Remediation of Toluene from Impacted Groundwater at a Large Printing Facility, Brockville ON. Tasks included: Phase II ESA (1995); strategic pumping of groundwater from 6-metre length property boundary capture trenches with on-site treatment via air stripper (1996-2003); continued remediation via granular activated carbon (2003-2009); and long-term monitored natural attenuation program (2010-2016). Corrective actions, including lining of sanitary and storm sewers and installation of clay dams, implemented to protect against groundwater infiltration. Project Manager. Responsible for client communication, budget control, invoicing, technical support and report review. Total Contract Value \$400,000.

Environmental Assessment

Mr. Hillier has overseen and reviewed multiple Class Environmental Assessments for various municipal and provincial level undertakings. His portfolio in this area includes several Infrastructure Ontario (2011-2017), Category B or C EAs for more than 20 sites with typical contract values from \$3,500 to \$8,000 (see detailed project descriptions above):

- CBRE. Former MNRF Works Yard Category B EA in Support of Building Demolition, Haliburton, ON (2016-2017). Contract Value \$5,000.

Waste Disposal Site Monitoring and Solid Waste Management

Mr. Hillier's waste management experience includes conducting groundwater and surface water impact assessments; preparing the necessary documentation for the EPA site approval process, addressing MOE concerns such as disposal site hydrologic and hydrogeologic conditions; solid waste landfill leachate characterization and monitoring; and operation and closure planning. Projects for which Mr. Hillier is currently



Senior Reviewer and Competent Environmental Practitioner (CEP) for surface water and groundwater reporting including:

- Township of Augusta: Maynard (closed) Waste Disposal Site (WDS), North Augusta WDS (open).
- North Grenville: Kemptville, South Gower, Oxford Mills, Burritt's Rapids WDS (closed).

Groundwater Supply

Mr. Hillier has conducted hydrogeological investigations to find potable sources of groundwater for municipal and private services. He has had project management and technical involvement in: target aquifer exploration and testing, groundwater treatability analysis, municipal/commercial/residential well design and construction, potable water sampling, aquifer testing, well head protection planning, and terrain analysis for septic system design. Select projects include:

- Stirling-Rawdon Township: Design, construction, and testing of a municipal production well. (2017-2019).
- Ottawa Carleton District School Board: Evaluation of groundwater treatment methods and remedial options for water supplies impacted by bacterial contamination and/or salt (2000-Ongoing).
- Moose Creek/Finch/Vars/Carp/Chesterville/Crysler/CFB Connaught Rifle Range: Design, installation, and testing of municipal supply production wells to replace existing substandard water supplies. Well Head Protection Planning and GUDI Assessment (1988-Ongoing).
- Multiple Clients: Terrain Analysis and Hydrogeological Investigation (MOE Procedures D-3, D-4 and D-5) for private servicing of rural residential and commercial land development since 1987. Select projects include:
 - Heron Estates Phase 2, Franktown(Ottawa) (2014 - 2018)
 - Maple Subdivision, Little Beverly Lake (2016)
 - Norcan Lake Conservation Subdivision (O'Brien Estates), Calabogie (2007-2009)
 - Canonto Lodge Subdivision, Calabogie (2008-2009)
 - Trans Canada Pipeline: Baseline Well Water Supply Survey and Impact Assessment/Correction for construction of Stittsville and Deux Rivieres Loops (2005-2006)
 - Vance Farm Residential Subdivision, Kanata (2003)
 - West Rideau Collector Sewer Tunnel Construction (Phases 4 and 5): Well Water Supply Survey and Well Impact Assessment/Correction (1993-1995)
 - Carleton University: Installation and aquifer testing of a series of pumping and reinjection wells for a large scale heat pump system (1987-1990)

Drinking Water Quality and Quantity Assessment

Mr. Hillier has conducted hydrogeological investigations to find potable sources of groundwater for municipal and private services. He has had project management and technical involvement in: target aquifer exploration and testing, groundwater treatability analysis, municipal/commercial/residential well design and construction, potable water sampling, aquifer testing, well head protection planning, and terrain analysis for septic system design.

- Ontario Ministry of the Environment, Conservation and Parks (MECP). Task Lead, Water Bottling Study Areas Report, A Review of Ontario's Water Management Framework. Completion of an independent assessment of water quantity resources and management in ten water bottling study areas to identify



options for enhancement to Ontario's Water Quantity Management Framework (i.e. the Permit to Take Water process). Served as Task Lead and Senior Hydrogeologist (2018-2019).

- EDP Renewables. Baseline Well Water Quality Survey and Assessment of Water Well Complaints, Nation Rise Wind Farm, North Stormont, Ontario. Client Manager (2018 - 2019).
- City of Ottawa. Well Water Supply Quality Monitoring, Ottawa ON. Project Manager and Senior Advisor. Ongoing well water supply sampling for residential and commercial supplies to assess for potential salt impact derived from municipal works yards. Sampling completed up to 4 times a year and carried out adjacent to works yards located in Goulbourn, Cumberland, and West Carleton (2011 -Ongoing).
- City of Ottawa. Biosolids Well Inspections Program, Ottawa, ON. Project Manager and Senior Advisor (2016 - 2019).
- Canadian Science and Technology Museum Corporation. Potable Water Sampling Services, Ottawa ON. Senior Project Advisor and Senior Reviewer. Drinking water and livestock water sampling on an annual or as needed basis for the Aviation Museum, Agricultural Museum and Canadian Science and Technology Museum. Water sampling services are typically for water fountain and other potable source locations within the facilities and have included on-site measurement for chlorine residual and turbidity (2006-Ongoing).
- Township of Beckwith. Water Supply Program Implementation Area Sampling, Carleton Place ON. Senior Project Advisor and Senior Reviewer. Ongoing sampling of granular activated carbon (GAC) treated residential and commercial water supplies in a 9 kilometres in length by 5 kilometres in area of the Township of Beckwith. Completed the GAC system sampling program and, based on volatile organic compound analytical results, provided recommendations for GAC vessel replacement as needed. An average of 300 water samples per year were collected (2009-2013).
- Major Bottled Water Producer. Groundwater Source Investigation, Eastern ON. Senior Hydrogeologist. Desktop review and field investigation to identify potential groundwater sources for bottled water in Eastern Ontario and Western Quebec. Reviewed published and in-house hydrogeological maps and report and available water well record databases, and evaluated geographic data from provincial water well databases. Field work included evaluation of target areas through installation and aquifer testing of pilot production wells, survey of existing wells and water quality sampling (2006-2008).

INTERNATIONAL PROJECT EXPERIENCE

- Trinidad and Tobago. Conducted a coastal water quality study for the island of Tobago. Objectives of the work program included mapping of point sources for coastal water quality impact and development of a GIS-based coastal water quality monitoring program (1997-1998).
- England/Wales. Conducted environmental audits at several Nortel (formerly Northern Telecom) Europe industrial sites located in the United Kingdom. Reviewed and provided recommendations on the storage and handling of hazardous waste materials. Identified existing environmental impacts due to past site activities. Completed Phase II Environment Site Assessment studies through drilling and soil and groundwater sampling programs (1992).



EDUCATION

- M.Sc., Geography, University of Western Ontario, 2011
- B.A., Geography, University of Ottawa, 2008

YEARS OF EXPERIENCE

- 10 years of experience
- 2 years with BluMetric

EMPLOYMENT HISTORY

- 2019 – Present: BluMetric, Intermediate Environmental Scientist
- 2018: AiMS Environmental, Marketing and Promotions Manager
- 2016 – 2018: AiMS Environmental, Intermediate Environmental Scientist
- 2011 – 2015: AiMS Environmental, Environmental Scientist

TRAINING

- First Aid, CPR and AED
- Pesticides: An Overview of Environmental Impact (Webinar)

PROFESSIONAL AFFILIATIONS

- Certified Associate in Project Management (CAPM), 2018

LANGUAGES

- English

ROLE

- Intermediate Environmental Scientist

EXPERTISE

- Phase One Environmental Site Assessment
- Records of Site Condition
- Project Management

PROFESSIONAL PROFILE

Amanda Gartshore, M.Sc., CAPM, is an Intermediate Environmental Scientist and our Phase One ESA specialist. She is a Certified Associate Project Manager (CAPM), with over nine years of experience in environmental project management. She is skilled in coordinating and leading Phase One ESA projects in accordance with CSA Z769-00 and O. Reg. 153/04 and has successfully helped to prepare several RSC submissions for filing on the Environmental Site Registry by the MECP.

REPRESENTATIVE EXPERIENCE

- RioCan Yonge Eglinton Centre. Phase One and Two Environmental Site Assessments and Record of Site Condition, 2116 Eglinton Avenue East, Toronto, ON. Intermediate Environmental Scientist. Project Coordinator and Leading the Phase One ESA, including fieldwork, historical data review, report compilation, and final ESA report drafting, in accordance with O. Reg. 153/04 (2019-Ongoing).
- RioCan Yonge Eglinton Centre. Phase One and Two Environmental Site Assessments and Record of Site Condition, 2480 Gerard Street East, Toronto, ON. Intermediate Environmental Scientist. Project Coordinator and Leading the Phase One ESA, including fieldwork, historical data review, report compilation, and final ESA report drafting, in accordance with O. Reg. 153/04 (2019-Ongoing).
- RioCan Yonge Eglinton Centre. Phase One and Two Environmental Site Assessments and Record of Site Condition, 456 Wellington Street West, Toronto, ON. Intermediate Environmental Scientist. Leading



the Phase One ESA, including fieldwork, historical data review, report compilation, and final ESA report drafting, in accordance with O. Reg. 153/04, as amended (2019-Ongoing).

- Tricon Development Group. Phase One and Two Environmental Site Assessments and Record of Site Condition, 2, 6, and 8 Gloucester Street, Toronto, ON. Intermediate Environmental Scientist. Leading the Phase One ESA, including fieldwork, historical data review, report compilation, and final ESA report drafting, in accordance with O. Reg. 153/04, as amended (2019-Ongoing).
 - Scrivener Square Nominee Inc. Phase One and Two Environmental Site Assessments and Record of Site Condition, 5 Scrivener Square, and 8, 10, and 10R Price Street, Toronto, ON. Intermediate Environmental Scientist. Leading the Phase One ESA, including the fieldwork, historical data review, report compilation, and final ESA report drafting, in accordance with O. Reg. 153/04, as amended (2019-Ongoing).
 - Context (Summerville) Inc. Environmental Work Queen and Coxwell, Toronto ON. Phase I and II Environmental Site Assessment and Hydrogeological Report. Intermediate Environmental Scientist. Leading the Phase One Environmental Site Assessment (ESA) in accordance with Canadian Standards Association (CSA) Z769-00 and O. Reg. 153/04, as amended (2019-Ongoing).
 - 250 Davenport Limited Partnership. Phase One and Two Environmental Site Assessments and Record of Site Condition, 250 Davenport Road, Toronto, ON. Intermediate Environmental Scientist. Leading the Phase One ESA, including the fieldwork, historical data review, report compilation, and final ESA report drafting, in accordance with O. Reg. 153/04, as amended (January 2019-April 2019).
 - 1630 Bloor Duwave Inc. Phase One Environmental Site Assessment (ESA), 1630 Bloor Street West, Toronto, ON. Intermediate Environmental Scientist. Leading the Phase One ESA, including the fieldwork, historical data review, report compilation, and final ESA report drafting, in accordance with Canadian Standards Association (CSA) Z769-00 and O. Reg. 153/04, as amended (January 2019-February 2019).
 - 10-20 Fincham Inc. Phase One and Two Environmental Site Assessment and Record of Site Condition, 10-20 Fincham Avenue, Markham ON. Phase One Environmental Site Assessment Report. Intermediate Environmental Scientist. Lead the Phase One Environmental Site Assessment (ESA), including the fieldwork, historical data review, report compilation, and final ESA report, in accordance with Canadian Standards Association (CSA) Z769-00 and O. Reg. 153/04, as amended (April 2018-September 2018).
 - GRID (Logan) Inc. Phase One and Two Environmental Site Assessment and Record of Site Condition, 794 Gerrard Street East, Toronto, ON. Intermediate Environmental Scientist. Lead the Phase One Environmental Site Assessment (ESA), including the fieldwork, historical data review, report compilation, and final ESA report, in accordance with Canadian Standards Association (CSA) Z769-00 and O. Reg. 153/04, as amended (April 2018-November 2018).
 - Corporation of the Township of Uxbridge. Phase One and Two Environmental Site Assessment and Record of Site Condition, 4289 Front Street, Goodwood, ON. Intermediate Environmental Scientist. Lead the Phase One Environmental Site Assessment (ESA), including the fieldwork, historical data review, report compilation, in accordance with Canadian Standards Association (CSA) Z769-00 and O. Reg. 153/04, as amended (April 2018-June 2018).
- Corporation of the Township of Uxbridge. Phase One Environmental Site Assessment and Record of Site Condition, 17 Bascom Street, Uxbridge, ON. Intermediate Environmental Scientist. Lead the Phase One Environmental Site Assessment (ESA), including the fieldwork, historical data review, and report compilation, in accordance with Canadian Standards Association (CSA) Z769-00 and O. Reg. 153/04, as amended (July 2018-August 2018).



BluMetric Environmental Inc.

1682 Woodward Drive
Ottawa, Ontario
Canada K2C 3R8
Tel: 613.839.3053
Fax: 613.839.5376
ottawa@blumetric.ca

4 Catarqui Street
The Tower, The Woolen Mill
Kingston, Ontario
Canada K7K 1Z7
Tel: 613.531.2725
kingston@blumetric.ca

209 Frederick Street
Unit 3B
Kitchener, Ontario
Canada N2H 2M7
Tel: 519.742.6685
kitchener@blumetric.ca

825 Milner Avenue
Toronto, Ontario
Canada M1B 3C3
Tel: 877.487.8436
toronto@blumetric.ca

410 Falconbridge Road
Unit 6
Sudbury, Ontario
Canada P3A 4S4
Tel: 705.525.6075
sudbury@blumetric.ca

1046 Gorham Street
Thunder Bay, Ontario
Canada P7B 5X5
Tel: 807.707.4736
thunderbay@blumetric.ca

4-41 de Valcourt Street
Gatineau, Quebec
Canada J8T 8G9
Tel: 819.243.7555
gatineau@blumetric.ca

1500 du College Street
Suite 200
Saint-Laurent, Quebec
Canada H4L 5G6
Tel: 514.844.7199
montreal@blumetric.ca

4916 - 49th Street
Yellowknife, NT
Canada X1A 1P3
Tel: 867.873.3500
Fax: 867.873.3499
yellowknife@blumetric.ca

202b Strickland Street
Whitehorse, Yukon
Canada Y1A 2J8
Tel: 867.689.8465
whitehorse@blumetric.ca

www.blumetric.ca