TERRAPEX

595831 Ontario Inc.

PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT

5646 & 5650 Manotick Main Street
Ottawa, Ontario

FINAL REPORT

December 16, 2022

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1.0 EXECUTIVE SUMMARY

Terrapex Environmental Ltd. (Terrapex) was retained by the 595831 Ontario Inc. (the Client) to conduct a Phase One Environmental Site Assessment (ESA) on the properties located at 5646 and 5650 Manotick Main Street Ottawa, Ontario (collectively, referenced as the "Phase One property" or the "Site").

Based on the available information the Site was developed between 1946 and 1959. The northern portion of the Site (5646 Manotick Main Street) was a retail fuel outlet from 1965 to 2004. The northern portion of the Site is currently operated as a carwash with two residential units on the upper floor of the building. The southern portion of the Site (5650 Manotick Main Street) was developed into a residential property in 1940s and is still used as such.

It is understood that the study documented herein is being undertaken for site plan approval purposes in support of planned redevelopment. The objective of the investigation was to identify actual and potential sources of contamination associated with the Site arising from current and/or historical activities on the Site and on properties within the Phase One study area to satisfy the following Phase One ESA general objectives listed in Ontario regulation (O. Reg.) 153/04:

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

Based on the review, evaluation, and interpretation of the information obtained from the records review, interviews, and Site reconnaissance completed as part of the Phase One ESA, four on-Site potential contaminating activity (PCA) and two off-Site PCAs relating to activities or incidents within the Phase One study area were identified. The four on-Site PCAs were determined to contribute to Areas of Potential Environmental Concern (APECs) on the Phase One property, as described below:

PCA 1 / APEC 1(A/B): The former USTs and associated fuel pumps related to the former use of the Site as retail fuel outlet.

PCA 2 / APEC 2: The presence of fill of unknown quality and unknown origin during redevelopment of the Site in 1965.

PCA 3 / APEC 3: The former use of the commercial building as an automotive garage.

PCA 6 / APEC 4: Staining underneath the ride on lawn mower in the white shed.

PCA 7 / APEC 5: Carwash effluent emanating from the septic system.

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

2.0 INTRODUCTION

Terrapex Environmental Ltd. (Terrapex) was retained by the 595831 Ontario Inc. (the Client) to conduct a Phase One Environmental Site Assessment (ESA) at two adjacent properties located at 5646 and 5650 Manotick Main Street in Ottawa, Ontario (referenced as "the Phase One property" or "the Site"). We understand that the study is required for site plan approval purposes prior to potential redevelopment.

2.1 OBJECTIVE

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

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

2.2 PHASE ONE PROPERTY INFORMATION

Information regarding the location and identification of the Phase One property and those authorizing this study is provided in Table 1, below. The location of the Site and the general Site layout are shown in Figures 1 and 2, respectively.

TABLE 1: SUMMARY OF PHASE ONE PROPERTY INFORMATION

Address:	5646 & 5650 Manotick Main Street, Ottawa ON
Property Identification Number:	03902-0885 (5646 Manotick Main Street) 03902-0886 (5650 Manotick Main Street)
Legal Description:	Part of Lot 4, Concession A North Gower (aka Concession Broken Front)
UTM Coordinates (centre of Site):	18T 446860 m E 5007642 m N
Name and Address of Owner:	5950831 Ontario Inc. (both properties)
Name and Address of Authorizing Party:	Jade Hawkins 595831 Ontario Inc. 650 Eagleson Road Kanata ON, K2M 1H4
Site Area:	4,098.8 m^2
Structures:	Several structures are located on the Site consisting of the following: - Former commercial building with car wash and second storey apartments (5646 Manotick Main Street) - Residential building with two sheds (5650 Manotick Main)
Occupants (current):	5646 Manotick Main - car wash, 2 residential apartments (second storey) 5650 Manotick Main - residential dwelling

2.3 PLAN OF SURVEY

A Plan of Survey was not provided as part of this program.

2.4 ENHANCED INVESTIGATION PROPERTY

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

Based on current and historical land-use information described herein, the Site is an enhanced investigation property.

3.0 SCOPE OF INVESTIGATION

The Phase One ESA was conducted in accordance with the current requirements of O. Reg. 153/04 and as outlined in the Terrapex proposal to Ms. Jade Hawkins dated February 17, 2022. The main components of the Phase One ESA scope of work included:

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

Interviews: Questions were posed to Mr. Ian Hawkins in person during the completion of the Site inspection. Additional questions were posed to Ms. Jade Hawkins through email.

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

Evaluation: The information obtained from the records review, interviews, and Site reconnaissance was reviewed and evaluated by the Qualified Person (QP) for this project (refer to Section 3.1 below) in consideration of the Phase One ESA general objectives and uncertainty associated with the data sources.

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

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

3.1 QUALIFIED PERSON

The Phase One ESA was supervised by Mr Greg Sabourin, Project Manager in Terrapex's Ottawa Office, located at 20 Gurdwara Road Ottawa, Ontario. Mr. Sabourin is a licensed Professional Engineer (P. Eng.) in Ontario and is registered as a QP with the Ontario Ministry of the Environment, Conservation and Parks (MECP) (formerly Ministry of Environment and Climate Change (MOECC), formerly Ministry of Environment (MOE)) for the purposes of creating and submitting RSCs for filing on the Brownfields Environmental Site Registry *(*ESR).

3.2 LIMITATIONS

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

The following limitations are noted:

- During the completion of the site inspection the vinyl shed located in backyard of the Site was locked and therefore was not inspected.
- One of the upstairs apartments (Apartment 2) was not accessible.
- Limited information was available regarding the historic heating methods for the main building commercial building.
- A full historical land title search was not conducted for the 5650 Manotick Main Street residential property.

It is not expected that the limitations would significantly affect the outcome of the Phase One ESA.

4.0 RECORDS REVIEW

4.1 GENERAL

4.1.1 PHASE ONE STUDY AREA DETERMINATION

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

- aerial photographs and satellite images;
- MECP waste disposal site inventory documents; and,
- the Brownfields Environmental Site Registry (ESR).

The review indicated that lands within approximately 250 m of the Site boundary have historically been used for mixed use of agricultural, residential and commercial purposes. Based on the review, it was determined that an expansion of the Phase One study area beyond 250 m from the Site boundaries was not warranted. As such, an irregularly-shaped Phase One study area was developed to include all properties located within 250 m from the nearest point on the boundary of the Phase One property.

The boundary of the Phase One study area is depicted in Figure 3. Documentation and interpretation of the records reviewed are provided in the sub-sections below. Note that all distances are calculated from the nearest property boundary of the Site to the nearest boundary of the feature in question and are approximate.

4.1.2 FIRST DEVELOPED USE DETERMINATION

Information obtained during the records review portion of the work program was used to determine the date of first developed use of the Site, as per the definition in O. Reg. 153/04.

Based on review of aerial photographs the first developed use of the Site occurred between 1946 and 1959.

4.1.3 FIRE INSURANCE PLANS

Terrapex requested a search of Opta Information Intelligence online inventory of fire insurance plan maps (FIPs) and inspection reports for the 5646 Manotick Main Street property. No FIPs were found. However, a 2003 IAO All Risk Report was available for the property. The following relevant information was able to be gleaned from review of the risk report:

- In 2003 the Site operated as a laundromat, convenience store, ice cream, snack bar and a retail fuel outlet;
- The main building was reportedly constructed in 1965 and the car wash was constructed in 1983.
- The building was heated by electric forced air and baseboards in 2003. No mention of oil or natural gas was available in 2003.

No other information was gleaned from the Risk Report. No search was conducted of the 5650 Manotick Main Street property. Due to it being a residential property it was determined that it would be unlikely to have any records on file.

4.1.4 CHAIN OF TITLE

A historical land title search was completed by the Read Abstracts Limited (Read Abstracts) for the 5646 Manotick Main Street property that documented the chain of title for the Site. The Site is legally described as Part of Lot 4, Concession A North Gower (aka Concession Broken Front). The Site was owned by individual property owners from the first available record in 1840 until it was transferred to 595831 Ontario Inc. on December 12, 1984. A property index map and a copy of the historical land title search is included in Appendix II.

No historical land title search was completed for the 5650 Manotick Main Street property. Due to the 5650 Manotick Main Street property being residential in nature it is not expected that a historical land title search would provide additional relevant information. The 5650 Manotick Main Street property is reportedly owned by the Client.

4.1.5 PROPERTY USE RECORDS

A search of the City Directories was conducted by ERIS Information Limited Partnership (ERIS) to document the historical occupants of the Site and the following neighbouring properties: 5626, 5628, 5630, 5632, 5636, 5640, 5649, 5652, 5654. The search included a review of city directories for the following years: 1992, 1996, 2000, 2006-2007, and 2011. The following pertinent information was gleaned from the City Directory search:

- The 5646 Manotick Main Street property (northern portion of the Site) was listed as “Hawkins Gas” in 1992 and “Discount Tobacco & Grocery” in 2006-2007 and 2011. In the 2011 listing the Site was also listed as “U Haul CO Ltd”. The Site was also listed as residential for every year searched except for 2011.
- The 5650 Manotick Main Street property (southern portion of the Site) was listed as residential from 1992 to 2011.
- The neighboring adjacent property to the north, 5640 Manotick Main Street was listed as “C&N Electric” in 1996, 2000 and 2006-2007.

- 5626 Manotick Main Street was listed as “Upper Manotick Cycle Centre” in 1992 and 1996.
- 5632 Manotick Main Street was listed as “Manotick Cycle Centre”, “Manotick Lumber and Building Supplies” and “Cameron R&S” in 2006-2007.
- 5636 Manotick Main Street was listed as “Vanis Construction” in 2011.

All other listings were residential. A copy of the City Directory search results included in Appendix III.

4.1.6 ENVIRONMENTAL REPORTS

Terrapex was provided with one environmental report to review. The following is a summary of the report:

John D. Patterson Associates and Limited *Phase II – Environmental Site Assessment 5646 Rideau Valley Drive, Manotick Main Street* dated February 14, 2000

John D. Patterson Associates (Patterson) completed a Phase II ESA at the Site in January 2000. Reportedly it was described that the Site had been in operation for over 35 years and was currently operating a retail fuel outlet during the completion of the investigation. Patterson drilled three boreholes (BH1 to BH3) at the Site in the vicinity of the tank nest and pump island to a maximum depth of 4.42 meters below grade (m bg). Stratigraphy at the Site reportedly consisted of asphalt overlying a silty clay and/or clayey silt native material. A water sample was also collected directly from a borehole. The report did not provide a detailed account of the methodology used during the investigation.

Two soil samples and a groundwater sample submitted for laboratory analysis of total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (collectively BTEX) exhibited concentrations above the Ontario Ministry of Environment (MOE) remediation guidelines in effect at the time.

The copy of the report provided to Terrapex did not provide any laboratory certificates of analyses or the measured concentrations of the analysed soil and/or groundwater samples. However, it can be assumed that documented soil/groundwater exceedances from 2000 would also likely exceed the current MECP Site Conditions Standards (SCS).

4.2 ENVIRONMENTAL SOURCE INFORMATION

4.2.1 MECP INVENTORIES AND THE BROWNFIELD ESR

A review of available MECP inventory documents was conducted by Environmental Risk Information Services (ERIS) to identify any significant industrial sites, waste disposal sites, or polychlorinated biphenyl (PCB) storage sites and RSCs filed on the Brownfields ESR

within the Phase One study area. The results of the search are outlined below.

MOE Inventory of Coal Gasification Plant Waste Sites in Ontario: A review of information provided in the inventory document did not identify former coal gasification plant waste sites within the Phase One study area.

MOE Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario: A review of the inventory document did not identify industrial sites producing or using coal tar or related tars within the Phase One study area.

MOE Waste Disposal Site Inventory: A review of the inventory did identify any active or closed waste disposal sites within the Phase One Study area.

Brownfields Environmental Site Registry: A review of the registry identified no RSC completed within the Phase One study area.

4.2.2 ERIS ENVIRONMENTAL DATABASES

Terrapex ordered a report from ERIS for available records associated with properties within the Phase One study area. ERIS searched government and privately-owned databases for environmental source information, including the information and documents listed in paragraph 7 of subsection 3 (2) in Schedule D of O. Reg. 153/04, excluding the areas of natural significance maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF) and environmental reports submitted to the MECP.

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

The ERIS report identified a total of 58 records within the Phase One study area. A summary of the pertinent records is provided below:

Listings for the Site

The ERIS report identified two records pertaining 5646 Manotick Main Street (northern portion of the Site). A record identified that the Site was a waste generator (generator number ON8832860) of light fuels for 2007 and 2008. A water well record for a domestic water supply well was also identified at the Site (further discussed in Section 4.3.5).

Six listings in the unplottable summary were identified in the delisted fuel tanks (DTNK), Private and Retail fuel Storage Tank (PRT), and List of Expired Fuel safety Facilities (EXP) databases which listed the business “595831 ONT INC” located at Rideau Valley Drive

Rideau Township. While the exact address is not provided It is likely based on the business name that these records are related to the Site. The former presence of gasoline service station at the Site as identified by these records represents an onsite PCA.

Nearby Properties

The following is the list of the pertinent records identified on neighboring properties within the Phase Study One Area which would result in a PCA is provided below in Table 2.

TABLE 2: PERTINENT ERIS RECORDS

Property	PROXIMITY[1]	DATABASE	YEAR(S)	DETAILS	PCAs/POTENTIAL CONCERNS[2]
5640 Manotick Main Street	Adjacent property to the North	GEN - Ontario Regulation 347 Waste Generators Summary	20016	Property was a listed generator of waste oils and lubricants	None Identified.
5669 Manotick Main Street	161 m southeast	GEN - Ontario Regulation 347 Waste Generators Summary	2003 - 2021	Property was a listed generator of a variety of wastes including lights fuels, oil skimming's and sludges. Related to backup generator.	28 - Gasoline and Associated Products Storage in Fixed Tanks

[1] direction and approximate distance to nearest Site boundary
[2] As set out in Table 2 in Schedule D of O. Reg. 153/04.

Four listings were identified within the Phase One study area from the borehole database. Review of select borehole records indicated that stratigraphy within the Phase One study area generally consisted of clay to followed by a layer of gravel. Limestone bedrock was reportedly encountered at approximately 9 meters below grade.

Thirty-seven Water Well Information System (WWIS) records were identified as being present within the Phase One study area. Please refer to Section 4.3.5 for details of the water well records.

Unplottable Records: ERIS also identified numerous partial records without coordinates or municipal addresses from various databases. These records were listed in the Certificate of Approval, Ontario Regulation 347 Waste Generators Summary, Permit to

take water and Ontario spills databases. As the exact locations of the listings cannot be confirmed, it is not possible to use this information to make conclusions about potential on-site environmental contamination concerns except for the records able to be linked to the Site (as discussed above).

4.2.3 GOVERNMENT AND REGULATORY DOCUMENTATION

Terrapex contacted representatives of provincial and municipal government agencies to request any environmental information in their files related to the Site. Terrapex also conducted searches of available information provided on government websites. The responses received from the government agencies, as well as the additional information obtained through website searches, are summarized in the following sections. Copies of relevant documents and maps are included in Appendix V.

Ontario Ministry of the Environment, Conservation and Parks: On March 3, 2022, Terrapex submitted a Freedom of Information (FOI) request regarding documented environmental concerns related to the Site, including infractions, complaints, notifications, or control orders. The MECP has not responded to the FOI request to date. A copy of the MECP FOI request is provided in Appendix V.

Ontario Ministry of Natural Resources and Forestry: Terrapex conducted a search of the information provided on the MNRF Natural Heritage Information Centre (NHIC) website to identify any area of natural or scientific interest (ANSI), environmentally sensitive areas or areas of natural significance within the Phase One study area. An unevaluated wetland was located approximately 130 m to the west of the Site.

Technical Standards & Safety Authority: The Technical Standards and Safety Authority (TSSA) is the Provincial regulatory agency responsible for overseeing fuels storage in Ontario and maintaining a database of all registered fuel storage tanks in Ontario. It should be noted that the TSSA did not register private fuel USTs/ASTs prior to January 1990 or furnace oil tanks prior to May 1, 2002. Additionally, the TSSA does not register waste oil tanks in apartments, office buildings, residences etc.

Terrapex submitted a request for information from the TSSA for both the 5646 and 5650 Manotick Main Street properties. On March 30 2022, Terrapex received a reply from the TSSA regarding the 5646 Manotick Main Street property, the information received indicated that the property had a propane cylinder exchange in 2005. No other information was given. A copy of the TSSA search results is provided in Appendix IV.

The TSSA has not responded with any information regarding the 5650 Manotick Street property as of the writing of this report.

City of Ottawa: Review of the geoOttawa website determined that that the entire Site was zoned as RC1 – rural commercial zone.

City of Ottawa Historic Land Use Inventory: In 1999, the former Regional Municipality of Ottawa-Carleton commissioned the preparation of a Historic Land Use Inventory (HLUI). The purpose of the HLUI was to collect information on the type and location of all land uses within the boundaries of the former Regional Municipality of Ottawa-Carleton (now the City of Ottawa) which had or have the potential to cause contamination in soil, groundwater or surface water.

The City of Ottawa provided a copy of the HLUI record for the Site. A copy of the HLUI search results is provided in Appendix V. Pertinent results of the HLUI report determine the following:

- The Site was listed as “Hawkins Gas” in 1998.
- The Site is located approximately 177 meters south of a known chlorinated solvent groundwater plume. Based on the expected flow of groundwater the documented plume is not expected to represent a concern to the Site.

The Rideau Valley Conservation Authority (RVCA): Terrapex reviewed the online mapping application provided by the RVCA (https://gis.rvca.ca). Review of the mapping application indicated that the Site is not within a regulated area.

A copy of the RVCA mapping application print out is provided in Appendix V.

4.2.4 CLIENT FILE INFORMATION

Terrapex was provided one environmental report from the Client (see Section 4.1.6.).

4.3 PHYSICAL SETTING SOURCES

4.3.1 AERIAL PHOTOGRAPHS AND SATELLITE IMAGES

Aerial photographs dated 1976, 1991, 2007, 2011 and 2019 were obtained from the geoOttawa online mapping application along with aerial photographs from 1946, 1959, and 1965 obtained from ERIS were reviewed to identify changes to topographic features and document the development of the Site and surrounding properties. The relevant features and development of the Site and neighbouring properties are summarized in Table 3 below with copies of the aerial photographs and satellite images included in Appendix VI. To identify some of the features discussed below the geoOttawa online mapping application was used to provide a close-up view.

TABLE 3: SUMMARY OF AERIAL PHOTOGRAPHS AND SATELLITE IMAGES

Year	Aerial Photograph and Satellite Image Summary
1946	• The Site appears to be part of an agriculture field. The structures are not visible on the Site however disturbed soil is visible in the northern portion of the Site.

Year	Aerial Photograph and Satellite Image Summary
	• Manotick Main Street is visible to the east of the Site in its current position. A road is visible to the northern boundary of the Site. The neighboring properties appear to be agricultural fields.
1959	• A building is visible in the northern portion of the Site. Based on the visible footprint of the building it does not appear to be the same building as the current building. The residential dwelling associated with the 5650 portion of the Site is visible. • Neighboring properties adjacent to the Site appear to be developed with residential properties. Mahogany Harbour and Firefly Lane are now visible to the south and east of the Site respectively.
1965	• Due to the resolution of the aerial photograph, it was not able to be determined what is located on the Site. • The surrounding properties appear to be similar to the 1959 aerial photograph. A building and/or structure is visible in the northwestern portion of the Site.
1976	• The Site appears to have been developed with a building in the format like the current building located at the Site. A building and/or structure is visible in the northwestern portion of the Site. • The surrounding properties appear to be similar to the 1965 aerial photograph.
1991	• The Site appears to be similar to the 1976 aerial photograph with the exception that the building and/or structure located in the northwestern portion of the Site is no longer visible. Gas pumps are visible to the east of the main building located at the Site. An expansion to the north side of the onsite building is visible. • The surrounding properties appear to be similar to the 1976 aerial photograph with the exception of additional residential development to the east and southeast of the Site.
2007	• The Site appears to be similar to the 1991 aerial photograph. • The surrounding properties appear to be similar to the 1976 aerial photograph with the exception of additional residential development to the west and south of the Site. The neighboring property to the north appears to be used for commercial use based on the number of buildings and vehicles.
2011	• The Site and surrounding area appear similar to the 2007 aerial photograph.
2019	• The Site and surrounding area appear similar to the 2011 aerial photograph.

4.3.2 TOPOGRAPHY, HYDROLOGY, GEOLOGY

Topographic Mapping: A review of topographic mapping indicates that the Site is located in a mixed residential and commercial area. Google Earth indicates that the Site is at an approximate elevation of 88 m above mean sea level (amsl). The regional topography at the Site slopes down towards Rideau River (located to the north at an elevation of 84 amsl).

A copy of the Topographic map is provided in Appendix VII.

Geologic Mapping: Based on the 2007 Ontario Geological Survey (OGS) map *Physiography of Southern Ontario*, the Site is within a physiographic region known as clay plains.

Based on the OGS map *Surficial Geology of Southern Ontario*, the Site is located in an area of fine-textured glaciomarine deposits characterized silt and clay, minor sand and

gravel. Based on the OGS map *2556 (Bedrock Geology of Ontario)*, the Site is underlain by the Beekmantown Group which consists primarily of dolostone and sandstone.

Inferred Groundwater Flow Direction: Based on topography, the inferred direction of local groundwater flow is expected to be north-northeast, towards the Rideau River located approximately 45 m northeast of the Site. The regional groundwater flow is expected to be to the northeast towards the Rideau River as well.

4.3.3 FILL MATERIALS

It is likely that during the development of the Site some fill would have been shipped to the Site. The potential for this fill of an unknown quality and unknown origin to exist represents a PCA.

4.3.4 WATER BODIES AND AREAS OF NATURAL SIGNIFICANCE

Water Bodies: The nearest water body is the Rideau River, located approximately 45 m to the northeast of the Site's northern boundary.

Areas of Natural Significance: Based on all the information sources consulted (see Section 4.2.3), no ANSI are present at the Site or within the Phase One study area.

4.3.5 WELL RECORDS

Water Wells: The Water Well Information System (WWIS) was searched by ERIS and thirty-eight water well records were identified within the study Area. The well records included the following:

- Thirty one well records related to a domestic supply wells;
- Seven records related to abandonment of domestic supply wells; and.
- One record was for the installation of test wells.

One record was identified as the domestic supply well present at the 5646 Manotick Main Street property (well ID: 1506502). The well is recorded as being drilled in 1957. The well record describes the stratigraphy as clay from surface to approximately 12 meters below grade followed by a gravel layer approximately 1.2 m thick. A copy of the well record is located in the Appendix V.

It should be noted that many wells in the province have been decommissioned or abandoned without appropriate reporting to the MECP; in addition to issues regarding the accuracy of well locations, some MECP database listings pertain to wells that are possibly no longer in use or in existence.

4.4 SITE OPERATING RECORDS

The Site is considered an enhanced investigation property as per O. Reg. 153/04 since it did operate as a retail fuel outlet and automotive garage. No Site operating records were available for review.

5.0 INTERVIEWS

Terrapex interviewed Ms. Jade Hawkins, General Manager at 595831 Ontario Inc. Ms. Hawkins has been involved with the Site since 2011. Ms. Hawkins was able to provide the following additional information through email:

- The main building located at 5646 Manotick Main Street property was constructed in the 1940s. The addition for the car wash was built in the 1990s. Apartments had been located on the second floor of the commercial building for at least 20 years.
- The commercial store space on the 5646 Manotick Main Street property was used as an automotive garage prior to Client acquisition of the property in 1984. Reportedly the garage was located where the former convenience store used to be. No additional information was available regarding the Site's use as an automotive garage.
- The underground storage tanks at the Site related to the retail fuel outlet were removed in 2004.
- It is unknown if an oil UST/AST was ever present at 5646 Manotick Main Street property.
- The Client has owned the 5650 Manotick Main Street property since 1992.

It was noted that there is discrepancy between the information given the date of construction for the commercial building between the interview (1940s) and the fire insurance plans (1965). No additional information as provided.

Mr. Ian Hawkins was present during a portion of the Site inspection completed on March 16, 2022. The following information was provided by Mr. Hawkins:

- The Site is serviced by two wastewater septic systems, both of which are located in the backyard of the residence. One system is used for the car wash wastewater and the second is provides service to the second story apartments.
- The USTs related to the former retail fuel outlet had been removed several years ago, however an exact date was not provided. During the removal of the USTs it was evident that petroleum contamination was present in the soil.

No other information was gleaned from the interview.

6.0 SITE RECONNAISSANCE

6.1 GENERAL REQUIREMENTS

The Site reconnaissance was conducted to identify, describe, and document the following items at the Site, in accordance with Schedule D of O. Reg. 153/04:

- the presence and condition of any structures, including buildings, below-ground structures, ASTs, and USTs, as well as potable and non-potable water sources;
- the type and approximate locations of any utilities and services;
- the interiors of any buildings, specifically noting exit and entry points, heating/cooling systems, drains, pits, sumps, unidentified substances, and stains/corrosion on floors;
- the presence and types of sewage works, ground cover, and any current or former railway lines or spurs; and,
- the nature and extent of any areas of stained soil or pavement, stained or stressed vegetation, fill and debris materials, PCAs, and unidentified substances.

The Site reconnaissance also included a cursory inspection of the surrounding properties within the Phase One study area to identify, describe, and document any PCAs, water bodies, and areas of natural significance, as defined in O. Reg. 153/04. Observations of the surrounding properties within the Phase One study area made during the Site reconnaissance were limited to areas visible from the Site or from publicly accessible areas and vantage points.

Due to a change of scope, two separate Site reconnaissance were required one for the 5646 Manotick Main Street property (conducted in March 2022) and one for the 5650 Manotick main Street Property (conducted in April 2022). Details on the Site reconnaissance are provided in Table 4.

TABLE 4 SITE RECONNAISSANCE PARTICULARS

Date, Time of Investigation	Weather Conditions	Tour Guide	Occupant/Use of Site During the Investigation	Names and Qualifications of Persons Conducting the Investigation
March 16, 2022, Between 9:30 and 1:00 pm	Overcast 5 ºC	Ian Hawkins (9:30 am to 10:00 am)	Car Wash and two residential apartments	Mr. Greg Sabourin, PEng
April 21, 2022, between 1:00 pm and 3:30 pm	Rain 12 ºC	Jade Hawkins	Residential property	Mr. Greg Sabourin, PEng

The Site location is shown in Figure 1 and the Site layout is shown in Figure 2. Selected photographs of the Site and Phase One study area are provided in Appendix VIII.

6.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

6.2.1 SITE DESCRIPTION

General Site Features: The Site is located on the west side of Manotick Main Street, approximately 250 m south of Eastman Avenue north of Mahogany Harbour Lane in Manotick, Ontario. The Site is irregular in shape and occupies a footprint of 4,090 m^2. The Site is composed of two municipal addresses - 5646 Manotick Main Street pertaining to the northern portion of the Site and 5646 Manotick Main Street pertaining to the southern portion of the Site.

5646 Manotick Main Street

The 5646 Manotick Main Street property is irregular in shape and occupies a footprint of approximately 2,566 m^2. The property is occupied by a two-storey building that consists of:

- A vacant former commercial space located on the bottom portion of the commercial building;
- Two apartment units (Apartment Units 2 and 3, there is no Unit 1) on the second storey; and
- A two-bay car wash that was constructed on the north end of the building.

The eastern portion of the property is covered with asphalt except for the southeast portion which is covered with gravel (the apparent location of the former tank nest). A former concrete pump island with a light standard is located to the east of the main building. The northern portion of the building is occupied by an operating two-bay car wash station.

The backyard of the Site is grass covered and contains the Sites septic tanks and weeping bed. The rear of the building had a wooden staircase and deck which provided access to the two second storey apartments. A vinyl shed, which was unable to be accessed during the site inspection was located in the middle of the backyard. The backyard was not fenced except for the northern property boundary. It was noted that trees were located on the periphery of the backyard.

5650 Manotick Main Street Property

The 5650 Manotick Main Street Property is irregular in shape and occupies a footprint of approximately 1,523 m^2. A single storey residence occupies the central portion of the property. The front yard of the property (located to the east of the residence) has a gravel surface cover while the backyard is largely landscaped with grass cover. Two sheds are located in the backyard of the property. The property is not fenced however a stand of trees are located between the Site and Mahogany Harbour Lane to the south.

Rights-of-Way: No right-of-ways were identified during the Site inspection.

Access and Roadways: Access to the Site is either provided from Manotick Main Street.

Debris and Fill Material: Debris and potential fill material were observed in the backyard of the onsite building on the 5646 Manotick Main Street property (refer to Appendix VIII, Photograph 6). Reportedly this fill was related to repairs to a foundation leak.

6.2.2 BUILDING DESCRIPTIONS

5646 Manotick Main Street

The main building is two-storey, rectangular in shape and has an approximate footprint of 204 spare meters (m^2). The building appears to be slab on grade and of cinderblock construction. The siding of the building is composed of tin and a mortar façade. A wooden staircase and deck are located at the rear of the building which provides access to the two second storey apartments.

The interior of the main building contained what appeared to be a former commercial space for the retail fuel outlet/convenience store. At the time of the inspection the interior of commercial area was vacant and it appeared that the interior was in the midst of a renovation as no drywall was located on the walls and various building materials were present throughout. It was noted that extensive mould and water damage was present on the ceiling in the southwest corner of the room. It appeared that sewage from one of the upstairs apartments was leaking into the commercial space. The northern portion of the main building was used as a mechanical room for the car wash.

The upstairs of the main building contained two apartments. One of the apartments (Apartment 2) was able to be inspected. The inspection did not uncover anything of concern.

A two-bay self serve car wash is attached to the northern side of the main building. The car wash was reportedly constructed in the late 1980s. The car wash extension is approximately two storeys tall and is of brick and mortar construction and has a footprint of approximately 96 m^2. The mechanical room for the carwash is located in the northern portion of the main building. The equipment in the mechanical room consists of a natural gas water heater, hot water tank, a well pressure tank, various water softeners, water compressors for the spray nozzles and various hoppers for soap and detergent. Various 20 L pails of detergents and soaps were located in the mechanical room of the warehouse and used to supply the hoppers.

A small one-storey extension with a footprint of approximately 20 m^2 is located at the rear of the main building. This expansion contained what appeared to be the old furnace room for the store and a bathroom. The exterior of the expansion was covered with roof shingles.

The interior of this expansion was covered in drywall and had extensive mold and water damage throughout.

A two-bay car wash garage is attached to the northern side of the building. The carwash is of slab on grade and brick and mortar construction. Drains were on the floors in each of the car wash bays. The drains direct wash water into an on site septic system dedicated to the car wash.

5650 Manotick Main Street Property

The single storey residence located at this property is square in shape and has an approximate footprint of 80 m^2. The residence had a concrete foundation with a basement The exterior is finished with tin siding overlying transite board. Two wooden sheds were located in the backyard of the property.

The interior of residence appeared to be renovated recently. Interior finishings of the interior of the residence composed of drywall and engineered wood flooring. The basement of the residence was partially finished. A sump was noted to be located the basement of the residence.

6.2.3 SITE INFRASTRUCTURE

Heating and Cooling Systems:

5646 Manotick Main Street

A natural gas water heater and forced air furnace was present in the carwash mechanical room. A residential gas heater was also located in the extension however it was not installed. An electric tankless water heater was located on the ceiling in the main commercial space.

5650 Manotick Main Street

A natural gas heater and a natural gas water heater was located in the basement of the residence. The natural gas meter was noted to be located at the front of the property.

Water Supplies:

5646 Manotick Main Street

Reportedly the water was provided to the main building from a water well located at the front of the building (refer to Appendix VIII, Photograph 8). It was noted that the well was in a state of disrepair and that the cover had been removed. This well should be serviced and or inspected by a MECP licensed well technician.

5650 Manotick Main Street

The water service was provided to the residence from a water well. The location of water well was not identified during the Site inspection.

Electrical Services: Electrical services are provided from an overhead electrical line located along Manotick Main Street to both properties.

Wastewater and Sewage Disposal: For the 5646 Manotick Main Street property reportedly the wastewater from the apartment buildings and the car wash are managed from two separate septic systems. Apparently, the septic systems are in the backyard of the Site.

A dedicated septic system for the residential dwelling is located on the 5650 Manotick Main Street property.

Stormwater Management: A catch basin was observed along Manotick Main Street along the northern edge of the Site.

Drains, Pits or Sumps: Drains are located in each of the two car wash bays present at the 5646 Manotick Main Street Property. Reportedly the drains are connected to a dedicated septic tank system located west of the building (in the backyard).

The sump pit was present in the southeast corner of the 5650 Manotick Main Street residential building.

Underground Utility and Service Corridors: It is expected that the septic systems present at the Site would consist of various underground tanks, pipes and weeping tiles. It is possible that former trenches related to petroleum infrastructure are located in the eastern portion of the 5646 Manotick Main Street property.

6.2.4 MATERIALS HANDLING AND STORAGE

Storage Tanks: Based on aerial photographs, interviews and the site inspection, a former underground storage tank nest related to the former retail fuel outlet was located at the southern portion of the 5646 Manotick Main Street Property. The completion of the Site inspection confirmed that this area was gravel covered and appeared to have a slight depression (refer to Appendix VIII, Photograph 7).

Storage Containers: Various containers of soaps and detergents were observed in the mechanical room of the car wash in the commercial building located on the 5646 Manotick Main Street property.

Hazardous Materials: Small quantities of fuel were observed to be in jerry cans inside the vacant convenience store area in the 5646 Manotick Main Street building. This is not expected to be a concern.

Waste Management: Garbage pails related to residential waste were located at the back of the building at the 5650 Manotick Main Street property. It was noted that a garbage pail was present at the front of the store at 5646 Manotick Main Street property.

Unidentified Substances: No unidentified substances were encountered during the Site reconnaissance.

Residues and Staining: Staining was observed underneath the ride-on lawn mower located in the shed on the 5650 Manotick Main Street property (refer to Appendix VIII, Photograph 18). Due to the extent of the staining this will be considered a PCA.

Stressed Vegetation: As the inspections had been conducted during the spring/winter, no stressed vegetation was encountered during the Site reconnaissance.

Odours: Upon walking into the vacant convenience store area a strong musty/sewage odour could be smelt. This is not expected to be a concern

6.2.5 POTENTIALLY CONTAMINATING ACTIVITY

Based on the findings of the Site reconnaissance, three PCAs set out in Column A of Table 2 in Schedule D of O. Reg. 153/04 were observed. Other activities/observations not specifically listed in Table 2 of Schedule D were also added to the PCA table based on the discretion of the QP.

Two additional PCAs were identified within the Phase One study area based upon information gathered during the historical information review.

Refer to section 7.2 for discussion of these PCAs.

6.2.6 REGULATED MATERIALS AND DESIGNATED SUBSTANCES

Asbestos: Due to the age of the buildings present at the Site, the presence of asbestos containing material is possible.

Lead: Due to the age of the buildings, the presence of lead containing paint at the Site is possible.

Mercury**:** Due to the age of the buildings, the presence of mercury containing paint or

materials at the Site is possible.

Polychlorinated Biphenyls: No transformers or sources of PCBs were observed at the Site.

Ozone Depleting Substances: No equipment identified to potentially contain ozone-depleting substances (ODSs), such as air conditioners and freezers, was observed at Site except for the residential dwelling at 5650 Manotick Main Street. The appliances inspected appeared to be modern and are not expected to be a concern.

***Mould*:** Extensive mould and water damage was present on the ceiling on the first floor of the commercial building at 5646 Manotick Main Street.

Other Designated Substances: No other substances designated under the Ontario Occupational Health and Safety Act were identified during the Site visit.

A Designated Substance Survey (DSS) was completed concurrently with the Phase One ESA and will provide additional details regarding the presence of regulated materials and designated substances at the Site.

6.2.7 ADJACENT PROPERTIES

A visual reconnaissance of the adjacent properties and properties within the Study Area was conducted from publicly accessible areas to identify the occupants and document the uses and PCAs that may impact the Site. Uses and occupants of the properties located immediately adjacent to the Site at the time of the inspection are listed below.

North: Manotick Main Street and the Rideau River beyond.

Northeast: Manotick Main Street, residential properties, and the Rideau River beyond.

East: Manotick Main Street and Residential properties and the rideau River beyond..

Southeast: Manotick Main Street, residential properties, a City of Ottawa fire station (5669 Manotick Main Street), residential properties and the Rideau River beyond..

South: Mahogany Harbour Lane and residential properties beyond.

Southwest: Residential properties

West: Residential properties, Mahogany Creek and residential properties beyond.

Northwest: Commercial properties, Mahogany Creek and residential properties beyond.

The surrounding properties are shown in Figure 3. It was observed that a backup generator with a integrated fuel storage tank was present at the fire station located 142 m south east of the Site.

6.2.8 ENHANCED INVESTIGATION PROPERTY

This Site was retail fuel outlet and therefore is considered a enhanced investigation property however no additional records were available for review.

6.3 WRITTEN DESCRIPTION OF INVESTIGATION

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

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 CURRENT AND PAST USES

A summary description of the current and past uses of the Site from its first developed use is provided in Tables 5A and 5B below.

TABLE 5A: CURRENT AND PAST USES OF THE PHASE ONE PROPERTY (5646 Manotick Main Street)

YEAR	NAME OF OWNER (5646 Manotick Main Property)	DESCRIPTION OF PROPERTY USE	PROPERTY USE	OTHER OBSERVATIONS FROM AERIAL PHOTOGRAPHS, FIRE INSURANCE PLANS, ETC.
19840 – 1848	John Lewis	Agriculture	Agriculture or other use	No information was available for this period other than the chain of title. Based on the review of the aerial photography, the Site is inferred to have been an agricultural field prior to 1940s.
1848 - 1862	John Clothier	Agriculture	Agriculture or other use	No information was available for this period other than the chain of title. Based on the review of the aerial photography, the Site is inferred to have been an agricultural field prior to 1940s.
1862-1882	Joshua Clothier	Agriculture	Agriculture or other use	No information was available for this period other than the chain of title. Based on the review of the aerial photography, the Site is inferred to have been an agricultural field prior to 1940s.
1882 - 1914	George Petapiece	Agriculture	Agriculture or other use	No information was available for this period other than the chain of title. Based on the review of the aerial photography, the Site is inferred to have been an agricultural field prior to 1940s.
1914 – 1918	Richard Halpenny	Agriculture	Agriculture or other use	No information was available for this period other than the chain of title. Based on the review of the aerial photography, the Site is inferred to have been an agricultural field prior to 1940s.
1918 - 1943	John W. Boucher	Agriculture	Agriculture or other use	No information was available for this period other than the chain of title. Based on the review of the aerial photography, the Site is inferred to have been an agricultural field prior to 1940s.

YEAR	NAME OF OWNER (5646 Manotick Main Property)	DESCRIPTION OF PROPERTY USE	PROPERTY USE	OTHER OBSERVATIONS FROM AERIAL PHOTOGRAPHS, FIRE INSURANCE PLANS, ETC.
1943 – 1961	John Gamble	Agriculture	Agriculture or other use	Review of aerial photographs indicated that the residence and commercial building located on the Site were constructed between 1946 and 1959.
1961 – 1969	Robert and Mabel Quail	Used as a retail fuel outlet since 1965	Commercial	The commercial building is visible in the 1965 aerial photograph and appears to be used a retail fuel outlet.
1969 - 1984	William and Lorna Wilson	Used as a retail fuel outlet since 1965	Commercial	Based on review of the 1976 aerial photographs it appears the property is a retail fuel outlet.
1984 – 1984	Glenn and Marguerite Beggs	Used as a retail fuel outlet since 1965	Commercial	Based on review of the 1976 aerial photographs it appears the property is a retail fuel outlet.
1984 – Present	595831 Ontario Inc.	Use as a retail fuel outlet until 2004	Commercial/ Residential	The Site was identified as retail fuel outlet in the 1992 city directory. Interviews indicate that the Site was used as retail fuel outlet until 2004. The Site inspection indicated that apartments are located on the second story of the main building. Site interviews indicated that the carwash at the north end of the building was built in 1990s.

TABLE 5B: CURRENT AND PAST USES OF THE PHASE ONE PROPERTY (5650 Manotick Main Street)

YEAR	NAME OF OWNER	DESCRIPTION OF PROPERTY USE	PROPERTY USE	OTHER OBSERVATIONS FROM AERIAL PHOTOGRAPHS, FIRE INSURANCE PLANS, ETC.
1862 – 1946	Unknown	Agriculture	Agriculture or other use	No information was available for this time. Based on the review of the aerial photography, it is inferred that the Site was an agricultural field prior to 1946
1946 – 1992	Unknown	Residential	Residential	Based on aerial photographs reviewed, the property was developed for residential purposed between 1946 and 1959.
1992 – Present	595831 Ontario Inc.	Residential	Residential	Based on information from the Client the property was purchased in 1992. The inspection revealed that property is used for residential purposes.

7.2 POTENTIALLY CONTAMINATING ACTIVITY

A Potentially Contaminating Activity (PCA) as defined in O. Reg. 153/04 is a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in the Phase One study area. Other activities not specifically listed in Table 2 of Schedule D may also be considered as a PCA based on the judgement/discretion of the qualified person (QP). The PCAs which are occurring or have previously occurred on properties within the Phase One study area, including the Site, are listed below and are shown in Figure 4.

TABLE 6: POTENTIALLY CONTAMINATING ACTIVITIES WITHIN THE PHASE ONE STUDY AREA

PCA	ADDRESS	POTENTIAL ENVIRONMENTAL CONCERN	DATA SOURCE	POTENTIALLY CONTAMINATING ACTIVITY (as set out in Column A of Table 2 in Schedule D of O. Reg. 153/04)	UNCERTAINTY	LIKELIHOOD TO AFFECT THE SITE
PCA 1	The Site (5646 Manotick Main Street)	- The storage of gasoline related to use of the Site as retail fuel outlet	- ERIS - Interviews - Site inspection - FIP	- 22 – Gasoline and Associated Products Storage in Fixed Tanks	- Low	- Certain. Impacts have been confirmed through a previously completed Phase II ESA (Patterson, 2000)
PCA 2	The Site (5646 & 5650 Manotick Main Street)	- The importation of fill during development of the Site	- Site Inspection - Aerial Photographs (1946)	- 22 – Importation of Fill Material of Unknown Quality	- High	- Possible
PCA 3	The Site (5646 Manotick Main Street)	- The reported use of the commercial building the Site as an automotive garage.	- Site Interview	- 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	- High. No collaborating information other than anecdotal evidence. Timeframe of operation not available.	- Possible
PCA 4	5669 Manotick Main Street (60 m to the southeast of the Site)	- The presence of a fuel storage tank related to a backup generator at the City of Ottawa Fire Station	- Site Inspection - ERIS	- 22 – Gasoline and Associated Products Storage in Fixed Tanks	- Low	- Unlikely, due to intervening distance and the low volume of fuel expected to be stored.
PCA 5	Town of Manotick (177 m to the north)	- The known presence of a chlorinated solvent groundwater plume	- HLUI	- Not applicable	- Low	- Unlikely, due to intervening distance and the excepted shallow groundwater flow direction
PCA 6	The Site (5650 Manotick Main Street)	- Staining underneath the ride on lawn mower in the white shed	- Site Inspection	- Not applicable	- Low	- Possible

PCA	ADDRESS	POTENTIAL ENVIRONMENTAL CONCERN	DATA SOURCE	POTENTIALLY CONTAMINATING ACTIVITY (as set out in Column A of Table 2 in Schedule D of O. Reg. 153/04)	UNCERTAINTY	LIKELIHOOD TO AFFECT THE SITE
PCA 7	The Site (5646 Manotick Main Street)	- Effluent from car wash	- Site Inspection - Interviews	- Not Applicable	- Low	- Possible given that effluent is not treated following discharge.

7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

An Area of Potential Environmental Concern (APEC), as defined in O. Reg. 153/04, is the area on, in, or under a Phase One property where one or more contaminants are potentially present, as determined through the Phase One ESA, including through (a) identification of past or present uses on, in or under the Phase One property and (b) identification of potentially contaminating activity. APECs are summarized below, and shown on Figure 5.

TABLE 7: AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

APEC	LOCATION OF APEC ON PHASE ONE PROPERTY	POTENTIALLY CONTAMINATING ACTIVITY (as set out in Column A of Table 2 in Schedule D of O. Reg. 153/04)	LOCATION OF PCA (On-Site or Off-Site)	CONTAMINANTS OF POTENTIAL CONCERN	MEDIA POTENTIALLY IMPACTED (Groundwater, Soil, and/or Sediment)
APEC 1A	- Encompassing the area around the former underground storage tank nest	- 22 – Gasoline and Associated Products Storage in Fixed Tanks	- PCA 1 (On-Site)	- PHCs - BTEX	- Soil - Groundwater
APEC 1B	- Encompassing the area around the former pump islands.	- 22 – Gasoline and Associated Products Storage in Fixed Tanks	- PCA 1 (On-Site)	- PHCs - BTEX	- Soil - Groundwater
APEC 2	- Encompassing the entirety of the Site	- 30 – Importation of Fill of Unknown Quality	- PCA 2 (On-Site)	- PHCs - BTEX - PAHs - Metals - AS, SB, Se - Cr (VI) & Hg	- Soil
APEC 3	- Encompassing the main floor area of the commercial building at 5646 Manotick Main Street property	- 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	- PCA 3 (On-site)	- PHCs - VOCs - PAHs - Metals - AS, SB, Se - Cr (VI) & Hg	- Soil - Groundwater
APEC 4	- Encompassing area of stained ground.	- Not Applicable	- PCA 6 (On-site)	- PHCs - BTEX	- Soil
APEC 5	- Encompassing area of downgradient of the weeping tile bed dedicated to the 2-bay PCA car wash	- Not applicable	- PCA 7 (On-Site)	- PHCs - BTEX - VOCs	- Groundwater

PHCs: petroleum hydrocarbon
Cr(VI) & Hg: Chromium +6, Mercury
PAHs: polycyclic aromatic hydrocarbons
VOCs: Volatile Organic Compounds
BTEX: Benzene, Toluene, Ethylbenzene and Xylenes
AS, SB, SE: Arsenic, Antimony, Selenium

8.0 CONCLUSIONS

8.1 WHETHER PHASE TWO ESA REQUIRED BEFORE RSC SUBMITTED

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

8.2 RSC BASED ON PHASE ONE ESA ALONE

An RSC cannot be filed for the Phase One property based solely on this Phase One ESA.

8.3 SIGNATURES

This report has been completed in accordance with the terms of reference for this project as agreed upon by 595831 Ontario Inc. (the Client) and Terrapex Environmental Ltd. (Terrapex) and generally accepted engineering or environmental consulting practices in this area.

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

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

This report has been prepared for the sole use of 595831 Ontario Inc. Terrapex accepts no liability for claims arising from the use of this report, or from actions taken or decisions made as a result of this report, by parties other than 595831 Ontario Inc.

Respectfully Submitted,
Terrapex Environmental Ltd.

Greg Sabourin, P.Eng., QP_{ESA}
Project Manager

Mike Grinnell, P.Eng., QP_{ESA}
Senior Project Manager

9.0 REFERENCES

Regulations and Guidelines

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

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

Environmental Source Information:

Ontario Ministry of the Environment (MOE) inventory documents:

- Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume II (April 1987), prepared for MOE by Intera Technologies Ltd. (Intera)
- Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume I (November 1988), prepared for MOE by Intera
- Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume II (November 1988), prepared for MOE by Intera
- Waste Disposal Site Inventory (June 1991)
- MECP *Brownfields Environmental Site Registry (ESR)* website (http://www.environet.ene.gov.on.ca/besr-public/generalSearch.do?action=searchOldRsc&)

Federal government, provincial government, and private source database records available through ERIS for locations within the Phase One study area.

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

- Ontario Ministry of Natural Resources and Forestry (MNRF) Land Information Ontario website
- Technical Standards & Safety Authority (TSSA) Fuels Safety Division
- MECP Freedom of Information office
- City of Ottawa Official Plan

Physical Setting Sources

Aerial photographs for the year 1946, 1959, and 1965 from the National Air Photo Library provided by ERIS

Aerial photographs for the years 1976, 1991, 2007, 2011 and 2019 from geoOttawa

Ontario Geological Society 1:250 000 scale map entitled *Bedrock Geology of Ontario* (2011)

Chapman and Putnam. Ontario Geological Survey 1:22 000 map entitled *The Physiography of Southern Ontario* (2007)

Ontario Geological Society 1:22 000 scale map entitled *Surficial Geology of Ontario* (2010)

Well record information available from ERIS and the Water Well Information System database

Interviews

Jade Hawkins, General Manager at 595831 Ontario Inc.
Ian Hawkins, 595831 Ontario Inc.

Environmental Reports

John D. Patterson and Associates Ltd. *Phase II – Environmental Site Assessment 5646 Rideau Valley Dive Manotick, Ontario* dated February 14, 2000

FIGURES

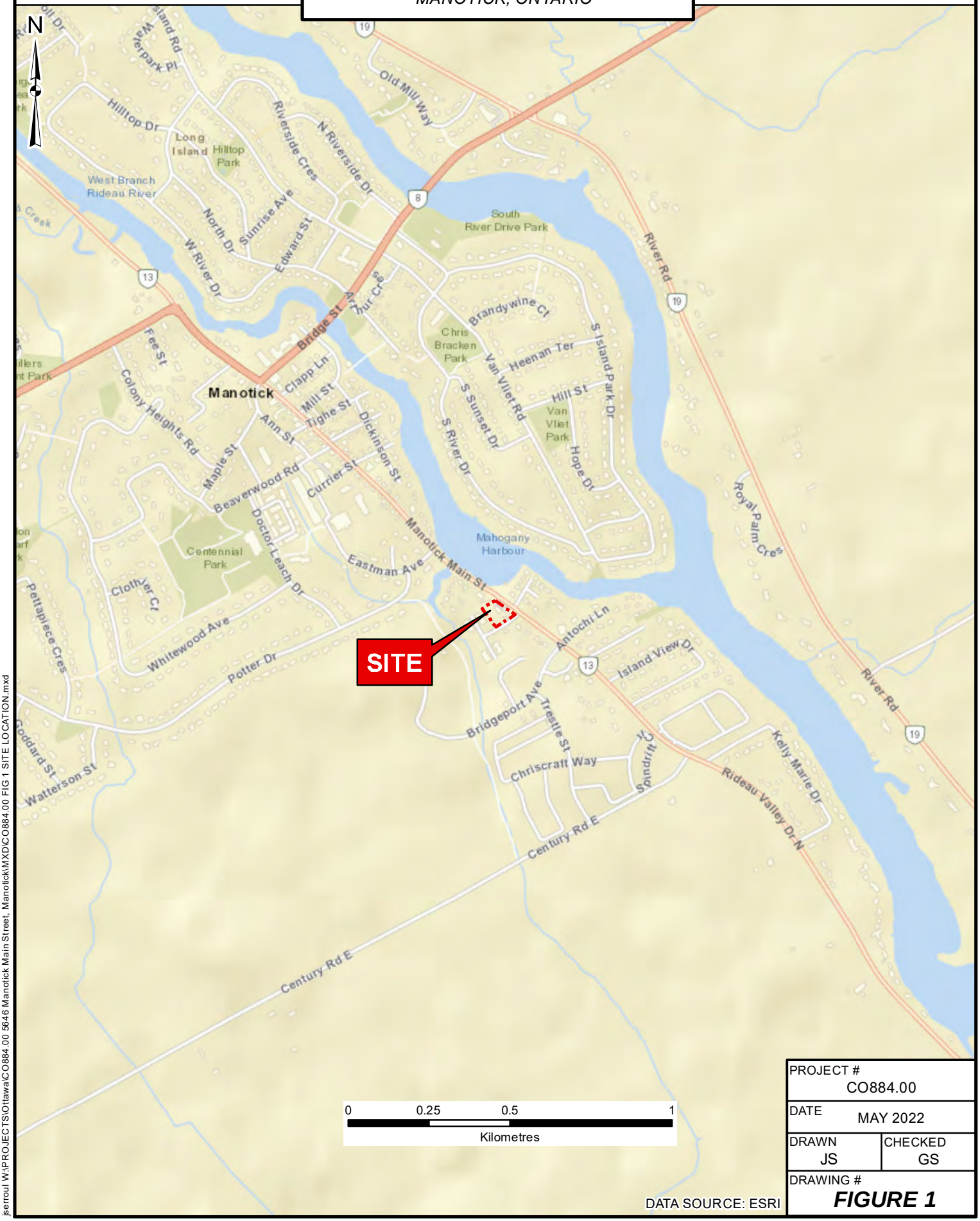
TERRAPEX

SITE LOCATION

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.



PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	**FIGURE 1**

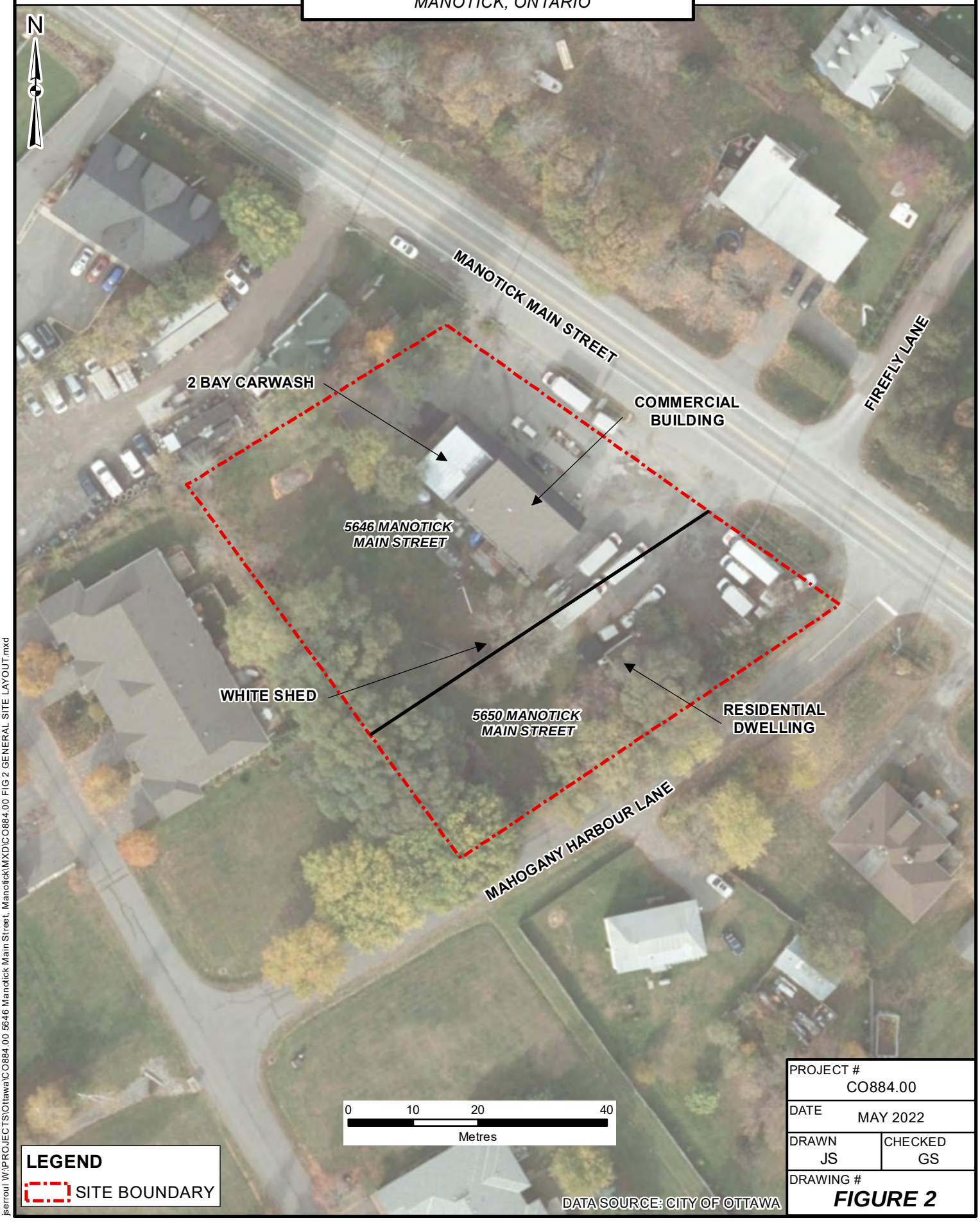
jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 FIG 1 SITE LOCATION.mxd

GENERAL SITE LAYOUT

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.



LEGEND

SITE BOUNDARY

DATA SOURCE: CITY OF OTTAWA

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	***FIGURE 2***

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 FIG 2 GENERAL SITE LAYOUT.mxd

TERRAPEX

PHASE ONE STUDY AREA AND SURROUNDING LAND USE

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.

LEGEND

- SITE BOUNDARY
- STUDY AREA

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	***FIGURE 3***

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 FIG 3 STUDY AREA.mxd

TERRAPEX

CONCEPTUAL SITE MODEL - PCAS

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC,

LEGEND

- SITE BOUNDARY
- STUDY AREA
- POTENTIALLY CONTAMINATING ACTIVITIES

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN: JS	CHECKED: GS
DRAWING #	***FIGURE 4***

TERRAPEX

CONCEPTUAL SITE MODEL - APECS

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.

LEGEND

SITE BOUNDARY

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

- APEC-1A
- APEC-1B
- APEC-2 (ENTIRE PROPERTY)
- APEC-3
- APEC-4
- APEC-5

0 10 20 40

Metres

DATA SOURCE: CITY OF OTTAWA

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	**FIGURE 5**

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 FIG 5 APECs.mxd

APPENDIX I

FIRE INSURANCE PLANS

opta
INFORMATION INTELLIGENCE

enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Midori

Site Address:

5646 Manotick Main Street, Manotick, Ottawa, ON

Requested by:

Eleanor Goolab
ERIS

Project No:

22031400343

Opta Order ID:

106415

Date Completed:

3/21/2022 6:26:50 AM

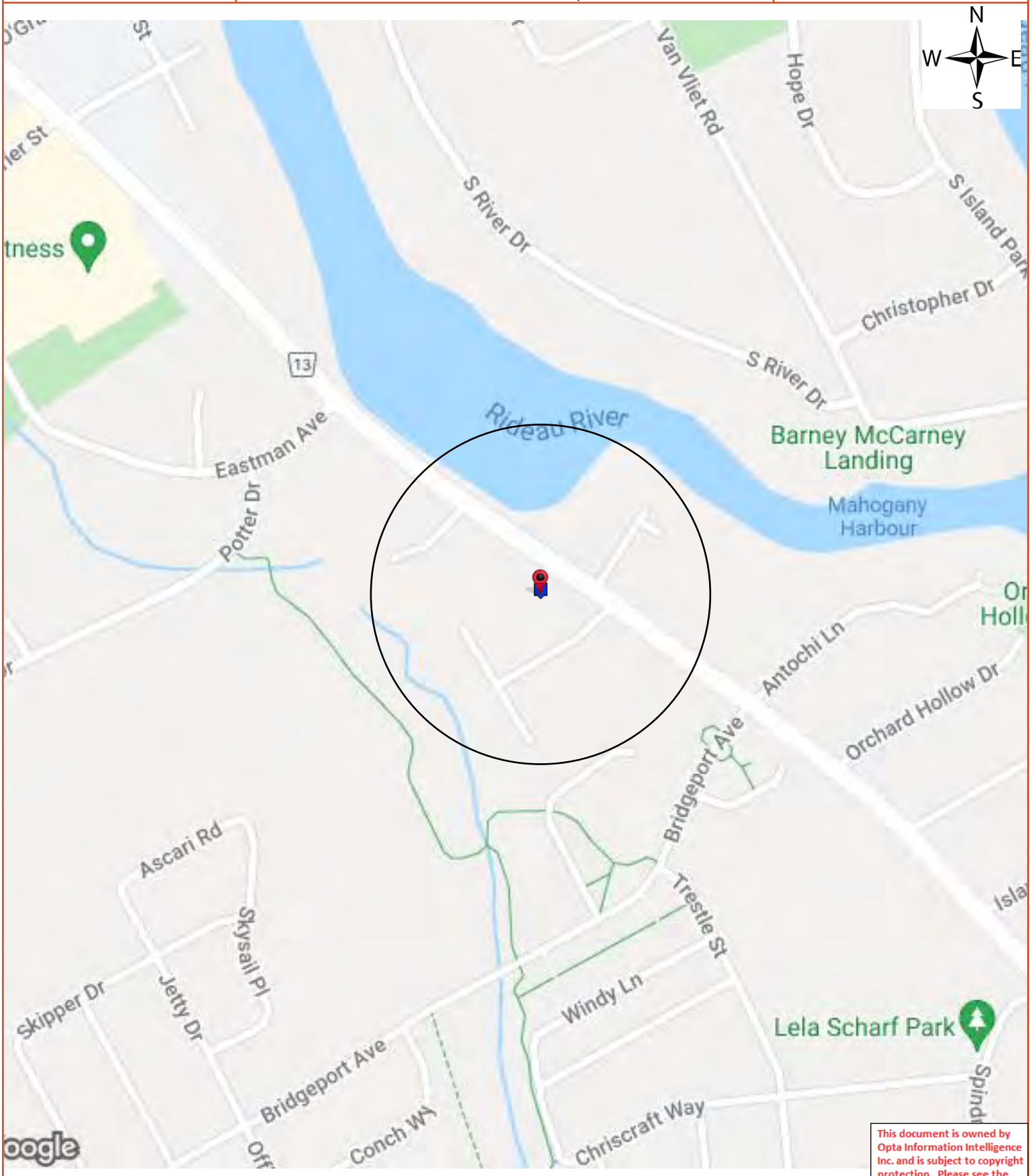
Project Name: CO884.00
Manotick Main Street Phase One ESA
Project #: 22031400343
P.O. #: CO884.00

ENVIROSCAN Report

Search Area: 5646 Manotick Main Street, Manotick, Ottawa, ON

Requested by:
Eleanor Goolab
Date Completed: 03/21/2022 06:26:50

enviroscan
OPTA INFORMATION INTELLIGENCE



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Report

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Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

ENVIROSCAN Report

Report Index

Requested by:
Eleanor Goolab
Date Completed: 03/21/2022 06:26:50

OPTA INFORMATION INTELLIGENCE

Page	Report Title

N
W E
S

All Risk Report - 2003 595831 ONTARIO INC. O/B IAN HAWKINS 5646 Rideau Valley Road Ottawa (Manotick) ON K4M1B3

Insurers' Advisory Organization Inc.
A subsidiary of Underwriters Adjustment Bureau Ltd.

Confidential

IAO All Risk

(Now available through the IAO Web-site; www.iao.ca)
INSPECTION REPORT

Supplement/s attached: ☐ Yes ☒ No

1.0 BASIC INFORMATION

Insured:	595831 Ontario Inc. o/b Ian Hawkins	**Policy Number**	
Date of survey (YYYY/MM/DD):	2003/08/05	**IAO Loss Control Specialist:**	Barry Cross
Person Contacted: Position	Ian Hawkins	**Telephone No.**	613 560-3466
Mailing Address if Different for risk:	(unit # street # & name)	(City, Town, Village)	**IAO AIS No.: 71199059**
Location Surveyed:	5646 Rideau Valley Road (unit # street # & name)	Ottawa (Manotick (City, Town, Village)	Ontario (Province) K4M 1B3 (postal code)
Secondary address (If any)	(unit # street # & name)	(City, Town, Village)	(Province) (postal code)
IBC Territory Code	63	**IBC Building Code: 6632**	**SR/MA File No.**
Underwriter: Darlene Hart		**Broker:** Bradley's Insurance	

The *IAO Risk•Score* and comments contained in this report are based on conditions and practices observed during our survey and other pertinent data supplied by management personnel at the risk.

Recommendations in this report are made to point out those areas where remedial action could have the beneficial effect of making the above premises safer, and thus more desirable from an underwriting standpoint.

Thank you for choosing IAO to perform this inspection. Please do not hesitate to contact us if we can be of any further assistance.

2.0 IAO Risk•Score

	1	2	3	4	5	6	7	8	9	Comments
Property	☐	☐	☐	☒	☐	☐	☐	☐	☐	*Rear wooden attachment in poor condition*
Liability	☐	☐	☒	☐	☐	☐	☐	☐	☐	*No unusual liability hazards noted*
Crime	☐	☒	☐	☐	☐	☐	☐	☐	☐	*No unusual crime hazards noted*

(1=Excellent & 9=Poor)

RISK ALERT ISSUED : ☐ **Yes** ☒ **No** If yes, describe (*A risk alert is a telephone notification to the Inspection requestor, of a situation which could imminently cause a serious loss. A Critical Recommendation will be issued to address the situation.)*

Committed to Service Excellence

Meaning of the IAO Risk•Score: The IAO Score is a grading of the risk inspected versus other risks in this class. Similar to the "Commercial" Fire Protection Grading system in design, there is range of 9 categories, with a grading or "score" of 1 being the most desirable. The IAO Score is based on a number of objective criteria pertaining to the risk at the time of our survey, tempered with the experienced judgement of our Loss Control Specialist. As a general guideline, the scores mean the following criteria:

1-3	Risks in this range are well maintained, with no apparent moral hazards or management problems. Undesirable features are non-existent and recommendations, if any, are minor. Risks in this category are excellent (no deficiencies) to better than average for their class.
4-6	The maintenance of Risks in this range is considered average. Moral hazards are not apparent, but there may be possible management problems (e.g. poor housekeeping). Undesirable features noted are correctable, and recommendations will vary from desirable to important. Risks in this category are considered average for their class.
7-9	Risks in this range tend to be poorly maintained. Moral hazards and management problems (e.g. poor housekeeping and maintenance, poor attitude) are evident. Significant undesirable conditions are present and cannot or will not be corrected. Critical Recommendations may be present. Risks in this category are significantly below average for their class with little or no indication for improvement.

3.0 REMARKS

The self-serve car wash is operated by the owner, who is not normally on the premises. No special fire hazards were noted at the time of this survey.

No special liability hazards were noted at the time of this survey.

No special crime hazards were noted at the time of this survey.

4.0 RECOMMENDATIONS

Please note that these recommendations are classified as either ☐ **Critical,** ☐ **Important, or** ☐ **Desirable Improvement**. **"Critical"** recommendations as those aimed at correcting undesirable feature/s which, if left unattended, could cause a serious loss and should be rectified immediately. This class of recommendation is only used in extreme situations. **"Important"** recommendations are intended to highlight undesirable feature/s which if left unattended, could cause a serious loss and should be rectified as soon as possible. **"Desirable Improvement"** recommendations are those aimed at correcting an undesirable feature which can be improved when feasible, to help reduce the risk of a loss.

☒ Listed below	or	☐ None

03-1 ☐ Critical ☒ Important ☐ Desirable Improvement

All portable fire extinguishers should be maintained in a fully charged and operable condition and be serviced and tagged annually to ensure reliability and proper working order. Your extinguishers were last checked or recharged in November, 1999. Applicable to Chloe's Confectionery

03-2 ☐ Critical ☐ Important ☐ Desirable Improvement

☐ Critical ☐ Important ☐ Desirable Improvement

5.0 OCCUPANCY INFORMATION (IBC Occupancy Code 6632)

The Insured is

☒ Owner Occupant	☐ Non-occupant building owner	☐ Tenant
Name of building owner(if not Insured):		Number of years bldg. Owned: 20
Number of years at this location:20	Area occupied (sq. m): 74	Business hours: 24
Days per week: 7 days	Annual Revenue (optional):	Payroll (optional):
Previous loss history past 3 years ☐ Yes ☒ No ☐ Undetermined	Previous loss history past 6 years ☐ Yes ☐ No ☒ Undetermined	
Explain loss history:		
Insured Values: Property: $281,085	Contents: $	
Combustibility of Occupancy: M3	Susceptibility of Occupancy: S4-Heavy Damage	

Occupancy : ☒ Major Tenant OR ☐ Insured IBC Industry Code:		or ☐ refer to Occupancy Specific Supplement:
Occupancy Description: All-in-one convenience store, laundromat, ice cream bar, gas bar and snack bar occupied by a tenant. Equipment for cooking consists of hotdog cooker, closed oven and self-contained fryer with built-in extinguisher.		
Special Hazard Code(s): None	Description:	
Special Hazard Code(s):	Description:	
Other classes of occupants: (immediate exposures)		
Name: Car wash	Area occupied: 74 sq m	IBC Code 5526
Occupancy Description:Self serve car wash by building owner		
Special Hazard Code(s) :None	Description:	
Special Hazard Code(s) :	Description:	
Name: 2 apartments	Area occupied: 143 sq m	IBC Code 6631
Occupancy Description:		
Special Hazard Code(s) None	Description:	
Special Hazard Code(s)	Description:	
Areas not surveyed:	☐ For additional tenants see attached list	

6.0 BUILDING CONSTRUCTION (IBC Major Construction Class 5)

Building condition:	☐ Above Average	☒ Average	☒ Moderate deficiencies	☐ Major deficiencies
Year built: (yyyy)	1965	Area occupied by insured (sq. m): 74		Combustibility of Building M3
Ground floor area (sq. m):	228 sq. m	Total floor area (excl. bsmt.)		371 sq. m
Height (excluding basement):	6.5 m	Number of Stories: 2 (above grade)		
Basement: ☐ Yes ☒ No		Area of basement: (sq. m)		Total area: 371 sq. m
Additions (year & brief description):	Car wash 1983			
Renovations (year & brief description):	None			

Wall construction:	Reinforced Concrete % ( )	Masonry: 20%: (solid brick)	Non Combustible: %: ( )	Brick/stone veneer: 37 %: (BV)	Wood frame: 43 %: (alum. clad)
	Other:		Panels in Walls % Describe:		
Floor Construction:	Concrete: 62 %	Concrete on metal pan: %	Wood joist: 38 %	Other: %	
Roof Type:	☐ Flat	☐ Sloped	☒ Peaked	☐ Other	
Roof Construction:	☐ Concrete %	☐ Steel deck %	☒ Wood joist % 100	☐ Other: %	
Roof Surface:	☐ Tar & gravel	☒ Metal	☒ Asphalt shingles	☐ Rubber Membrane	
	☐ Wood Shakes	☐ Other			

Resurfaced:	☒ Yes	☐ No	Date: 1990	
Interior Finish Walls:	Combustible: %		Non-combustible: 100 %	Open: %
Interior Finish Ceilings:	Combustible: %		Non-combustible: 100 %	Open: %
Vertical Openings:	☒ None	☐ Stairs	☐ Elevator ☐ Deck:	☐ Other
Horizontal Separation:	Major Partition Construction		☒ Not Applicable ☐ Frame	☐ Drywall on Studs
			☐ Concrete Block	☐ Other
	Proper Opening Protection:		☐ Yes ☐ No	☒ Not Applicable
Mezzanines: ☒ No ☐ Yes Mezzanines percentage of floor	Combustible: % %		Non-combustible: %	Open: %
Combustible Concealed Spaces:	☒ No	☐ Yes	If yes, describe and %	
Concealed space properly protected	☐ No	☐ Yes	☒ Not applicable	Comment:

Building Description:

	Shopping Mall ☐ Yes ☒ No	Industrial Mall ☐ Yes ☒ No	Strip Mall: ☐ Yes ☒ No
	Other Describe : Stand alone building		

7.0 EXPOSURES (Within 50m of risk)

	Distance	Height	Construction	Occupancy Hazard	Civic Number (optional)	Opening in Facing Wall Yes	Opening in Facing Wall No
Front	_____ m	_____ sto.	Open	None		☐	☐
Rear	_____ m	_ sto.	Open	None		☐	☐
Left	18 m	2 sto.	Combustible	Light		☒	☐
Right	17 m	2 sto.	Combustible	Light		☒	☐

(For Malls) Describe partition walls between insured and other tenants.

8.0 COMMON HAZARDS (Heating, electrical, plumbing)

HEATING:

Forced warm air:	☒ Electric40%	☐ Gas %	☐ Oil %	Other _____
Suspended unit heaters:	☐ Electric %	☐ Gas %	☐ Oil %	Other _____
Portable heaters:	☐ Electric %	☐ Gas %	☐ Oil %	Other _____
Electric baseboard units: ☒ 40 %				
Hot water/steam	☐ Electric %	☐ Gas %	☐ Oil %	Other _____
Other	☐ Electric %	☐ Gas %	☐ Oil %	Other none - 20%

Boiler:	☐ Yes	☒ No	Age (yyyy) _____ and Make: _____	Date of last Boiler Inspection: (yyyymmdd) _____

Appliances enclosed in a non-combustible room:	☐ Yes	☒ No	☐ Not required:

Combustible materials stored in the room:			☐ Yes		☐ No		☒ Not applicable
Fuel tanks:	☒ None	☐ Inside	☐ Outside	☐ Above ground	☐ Below ground	Age (yyyy)____ Capacity (L)	
Fill and vent piping: Inside			☐ Yes	☐ No	____	☐ N/A	
Chimneys:	☐ Masonry	☐ ULC Factory built		☐ Unlabelled pre-fab		☒ Other *none*	
	☒ Standard	☐ Non-standard ____					
Installation defects:	☒ None	☐ Moderate				☐ Major	
Installation replaced:	☐ Yes	☒ No	(yyyy) ____	____ %			
Comment:							

ELECTRICAL:

Type: ☐ Conduit	☒ BX	☒ Non-metallic	☐ Knob & Tube ____	☐ Other ____	
Temporary wiring or extension cords:	☒ No	☐ Yes ____			
Overcurrent protection:	☒ Circuit Breakers	Fuses: ☐ Ordinary	☐ Type P	☐ Type D	☐ Other
Installation defects:	☒ None	☐ Moderate	☐ Major		
Installation (wiring) replaced:	☐ Yes	☒ No	(yyyy)____ ____%		
Partial changes/extensions:	☐ Yes ____	☒ No			
Comments: ____					

PLUMBING:

Type:	☒ Copper	☐ Galvanized	☐ Plastic	☐ Other ____
Installation Replaced:	☐ Yes	☒ No	(yyyy) ____	____ %
Condition:	☒ Good	☐ Fair	☐ Poor ____	
Installation appears safe:	☒ Yes	☐ No ____		

SMOKING:

Smoking Restricted:	☒ Yes	☐ No			
"No Smoking" Signs posted:	☒ Yes	☐ No	Enforced:	☒ Yes	☐ No

HOUSEKEEPING:

☐ Good	☒ Average	☐ Poor	☐ Unacceptable
Comments: ____			

9.0 FIRE PROTECTION

PUBLIC:

F.U.S. Protection Class: *05* Responding Fire Department: *Ottawa ,(Manotick)* IICC Protection Grade 4

☐ Full time ☒ Part Time/Volunteer ☐ Composite

Distance to Fire Department: *<2* km Roads: ☒ Paved ☐ Unpaved Accessible Year-round: ☒ Yes ☐ No

☒ Public Water Supply ☐ Private Water Supply

No. Hydrants: *2* within 155 m, ____ within 156 - 305 m, ____ Over 305 m, ☐ None

PRIVATE:

Are the following adequate?

	Yes	No		Date Last Serviced	Comments
Portable Extinguishers	☐	☒		*Nov. 1999*	____
Standpipe/Inside Hoses	☐	☐	N/A ☒	____	____
Watchman Service	☐	☐	N/A ☒	____	____

Fire Detection System: ☐ None ☐ Full ☒ Partial, Describe: *Pull stations in convenience store*

i) Type of Detectors: smoke detectors

ii) Detectors properly located: ☒ ☐ Describe: _____

iii) Components listed by: ☒ ULC ☐ UL ☐ Other _____

iv) Maintenance contract: ☐ ☐ Company: _____ Telephone #: _____

v) Connected to: ☐ ULC Listed Station ☐ Unlisted Service ☐ Fire/Police Department ☒ Local only
☐ Other: _____

Automatic Sprinkler Protection: ☒ None ☐ Full Premises ☐ Partial (describe): _____
☐ Sprinkler Supplement Attached ☐ Yes ☒ No

10.0 ALL RISK :

Information Confirmed by: I. Hawkins/S. Nault

EARTHQUAKE

What is the earthquake zone:	2		
Is there any earthquake history in the area:	☒ Yes	☐ No	☐ Undetermined
If **Yes**, describe history Light tremors only			
Any evidence of the following:			
Significant exterior wall or foundation cracks noted? ☐ Yes ☒ No		Describe: _____	
Sagging? ☐ Yes ☒ No		Describe: _____	

FLOOD

Is this establishment located on a flood plain:	☐ Yes	☒ No	
Is it located near a body of water:	☒ Yes	☐ No	Describe: *on water*
Distance to nearest body of water:	*0 km.*	☐ None determined	
Is there a history of flooding:	☐ Yes	☒ No	If **yes**, give history: _____
Evidence of water damage:	☐ Yes	☒ No	Describe:
Years knowledge of risk: 20 yrs.			

WATER DAMAGE

Plumbing is: ☒ Copper ☐ Galvanized ☒ Plastic ☐ Other Describe:

Is there evidence of corrosion: ☐ Yes ☒ No Describe: _____

Is the building sprinklered: ☐ Yes ☒ No Comment:

Is stock susceptible to water damage: ☐ Yes ☒ No Describe: _____

Are all window/skylight openings adequately sealed: ☒ Yes ☐ No Describe: _____

Does water main pass under building: ☐ Yes ☒ No

Is the roof covering adequate: ☒ Yes ☐ No Most recent roof repair date, if applicable _____

Inside and/or roof storage tanks/process equipment ☐ Yes ☒ No Describe: _____

Tanks/equipment satisfactorily controlled: ☐ Yes ☐ No Describe: _____

Is there use of: ☐ skids ☒ Shelving ☐ Floor Drains ☐ Covers over stock/equipment Describe: _____

Sewer Backup claim in the last three years: ☐ Yes ☒ No ☐ Describe: _____

COLLAPSE AND/OR SEWER BACKUP

Is there any history of collapse:	☐ Yes	☒ No	Describe: _____
Is there any history of sewer back-up:	☐ Yes	☒ No	Describe: _____
Are sewer back-up protection devices in place:	☐ Yes	☒ No	Describe: _____

ADDITIONAL PERILS

Is lightning protection in place:		☐ Yes	☒ No	Describe: _____		
Is risk located within 5 km of airport:		☐ Yes	☒ No	Beneath a flight path:	☐ Yes	☒ No
Is the yard fenced:	☐ Yes	☒ No		Are gates locked when the premises are closed:	☐ Yes	☐ No
Is the yard and the exterior of the building lit:			☒ Yes	☐ No		
I s the risk located in a high wind/hail area:		☐ Yes	☒ No	Describe:_____		
Are there visible signs of vandalism at the risk:		☐ Yes	☒ No	Describe:_____:		
	In the area:	☐ Yes	☒ No	Describe:_____		
Is the risk protected from	Automobile	☒ Yes	☐ No	Describe:Concrete Curbs		
Impact exposure:	Aircraft	☐ Yes	☒ No	Describe:_____		
	Train	☐ Yes	☒ No	Describe:_____		
	Boat	☐ Yes	☒ No	Describe:_____		
Comments: _____						

11.0 BASIC PREMISES LIABILITY

The following appeared to be satisfactory:

Stairs, Ramps & Handrails:	Yes ☒	No ☐	N/A ☐	Comments: _____
Floor Surfaces & Coverings:	Yes ☒	No ☐	N/A ☐	Comments: _____
Walls & Ceilings:	Yes ☒	No ☐	N/A ☐	Comments: _____
Interior & Exterior Lighting:	Yes ☒	No ☐	N/A ☐	Comments: _____
Emergency Lighting	Yes ☒	No ☐	N/A ☐	Comments: _____
Interior & Exterior Housekeeping:	Yes ☒	No ☐	N/A ☐	Comments: _____
Washrooms:	Yes ☐	No ☐	N/A ☒	Comments: _____
Sidewalks, Yards & Parking Lots:	Yes ☒	No ☐	N/A ☐	Comments: _____
Fire Exits:	Yes ☒	No ☐	N/A ☐	Comments: _____
Fire Alarm System (s):	Yes ☒	No ☐	N/A ☐	Comments: _____
Snow & Ice Removal:	Yes ☒	No ☐	N/A ☐	Comments: _____
Elevating devices in operation	Yes ☐	No ☐	N/A ☒	Comments: _____
TV Satellite Dishes /Exterior Signs	Yes ☒	No ☐	N/A ☐	Comments: _____
CO detectors where required	Yes ☐	No ☐	N/A ☒	Comments: _____
Swimming Pool	Yes ☐	No ☐	☐	Supplement attached
Other	Yes ☐	No ☐	☐	Comments:_____

12.0 BASIC CRIME

☐ Refer to Expanded Crime Supplement

Crime Experience	☐ Low	☒ Moderate	☐ High		
Type of Neighbourhood:	☐ Commercial	☐ Industrial	☐ Rural	☒ Residential	☐ Isolated
Neighbourhood appears to be:	☒ Stable Changing via:	☐ Expansion/growth		☐ Renovation	☐ Deterioration
Visible malicious damage:	☐ Yes	☒ No			

BUSINESS

Automatic Teller Machine :	☐ Yes	☒ No		
Safe on Premises:	☐ Yes	☒ No	☐ Unable to Determine	
Guard Service:	☐ Yes	☒ No	☐ Unable to Determine	Describe:
Typical Stock:				
Smash & Grab exposure:	☐ Yes	☒ No	☐ Unable to Determine	
Comments:				

GENERAL PROTECTION

The following appeared to be satisfactory:

Exterior Lighting:	☒Yes	☐No	☐N/A	Comments:
Interior Lighting:	☒Yes	☐No	☐N/A	Comments:
Roof Accessibility:	☒Yes	☐No	☐N/A	Comments:
Police Patrols:	☒Yes	☐No	☐N/A	Comments:
Yard Fenced:	☐Yes	☐No	☒N/A	Describe:

SECURITY ALARM SYSTEM

Premises alarm system in use:	☒ N/A	☐ Yes	☐ No	☐ Disconnected	Date Installed: (yyyy)_____	
Monitored by:	☐ULC Listed Station	☐ Unlisted Station	☐ Local Alarm	☐ Unknown to Contact	☐ Unable to Determine	

PHYSICAL PROTECTION

Door locks:	☒ Deadbolt	☐ Spring	☐ Panic	☐ Other	
Windows Protected:	☐ Yes	☐ No	☒ N/A	If **yes**, describe	
Other Openings:	☒ No	☐ Yes	Protected:	☐ No	☐ Yes

OTHER COMMENTS:

APPENDIX II

CHAIN OF TITLE

READ Abstracts Limited
331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4
Email: search@readsearch.com
Tel.: 613-236-0664
Fax: 613-236-3677

ENVIRONMENTAL SEARCH

Terrapex
Attn: Greg Sabourin

BRIEF DESCRIPTION OF LAND:

5646 Manotick Main St.., Ottawa
Part of Lot 4, Concession A North Gower (aka Concession Broken Front)

PIN: 03902-0885

LAST REGISTERED OWNER: 595831 Ontario Inc.

CHAIN OF TITLE:

Deed RO22 registered Jul 21, 1840
From John Harvey to John Lewis

Deed RO3711 registered Mar 16, 1848
From John Lewis to John Clothier

Deed RO18593 registered Jan 7, 1862
From John Clothier to Joshua Clothier

Deed NG3559 registered Mar 11, 1882
From Joshua Clothier to George Petapiece

Deed NG5451 registered Nov 12, 1914
From George Petapiece to Richard Halpenny

Deed BG5802 registered Apr 10, 1918
From Richard Halpenny to John Boucher

Deed BG8566 registered Jan 2, 1943
From John Boucher to John W. Boucher

Deed NG8339 registered Apr 16, 1949
From John W. Boucher to John Gamble

Deed NG9069 registered May 23, 1951
From estate of John W. Boucher to Percy Boucher

Deed NG9095 registered Jul 23, 1951
From estate of John W. Boucher to The Director of the Veterans Land Act

Deed NG9278 registered Sep 23, 1952
From Percy Boucher to John Gamble

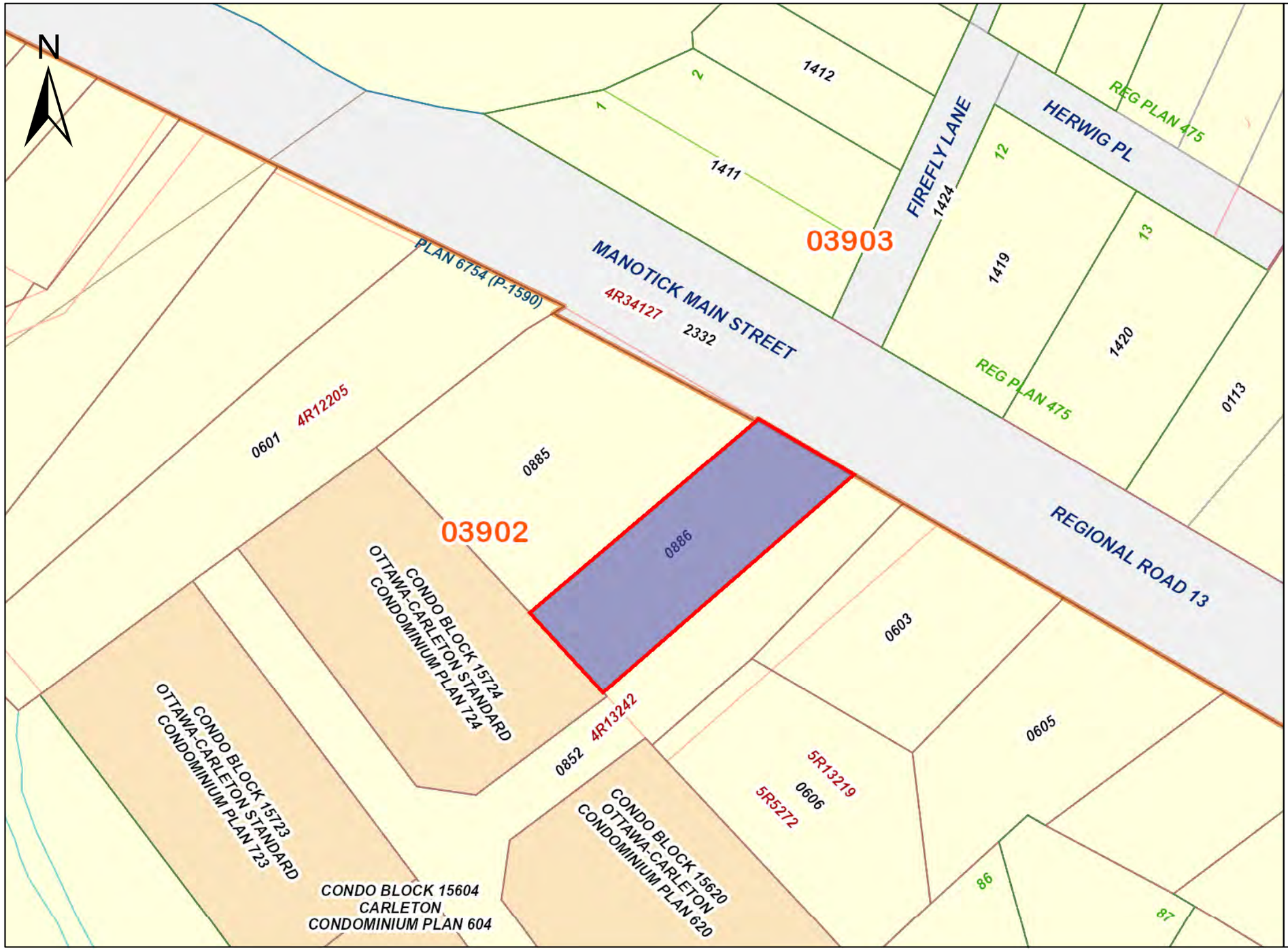
Deed NG11074 registered Mar 8, 1961
From John Gamble to Robert and Mabel Quail

Deed NG11829 registered Oct 11, 1963
From The Director of the Veterans Land Act to Robert and Mabel Quail

Deed CT106859 registered Jul 7, 1969
From Robert and Mabel Quail to William and Lorna Wilson

Deed NS238435 registered May 4, 1984
From William and Lorna Wilson to Glenn and Marguerite Beggs

Deed NS268982 registered Dec 12, 1984
From Glenn and Marguerite Beggs to 595831 Ontario Inc.



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SCALE

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PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

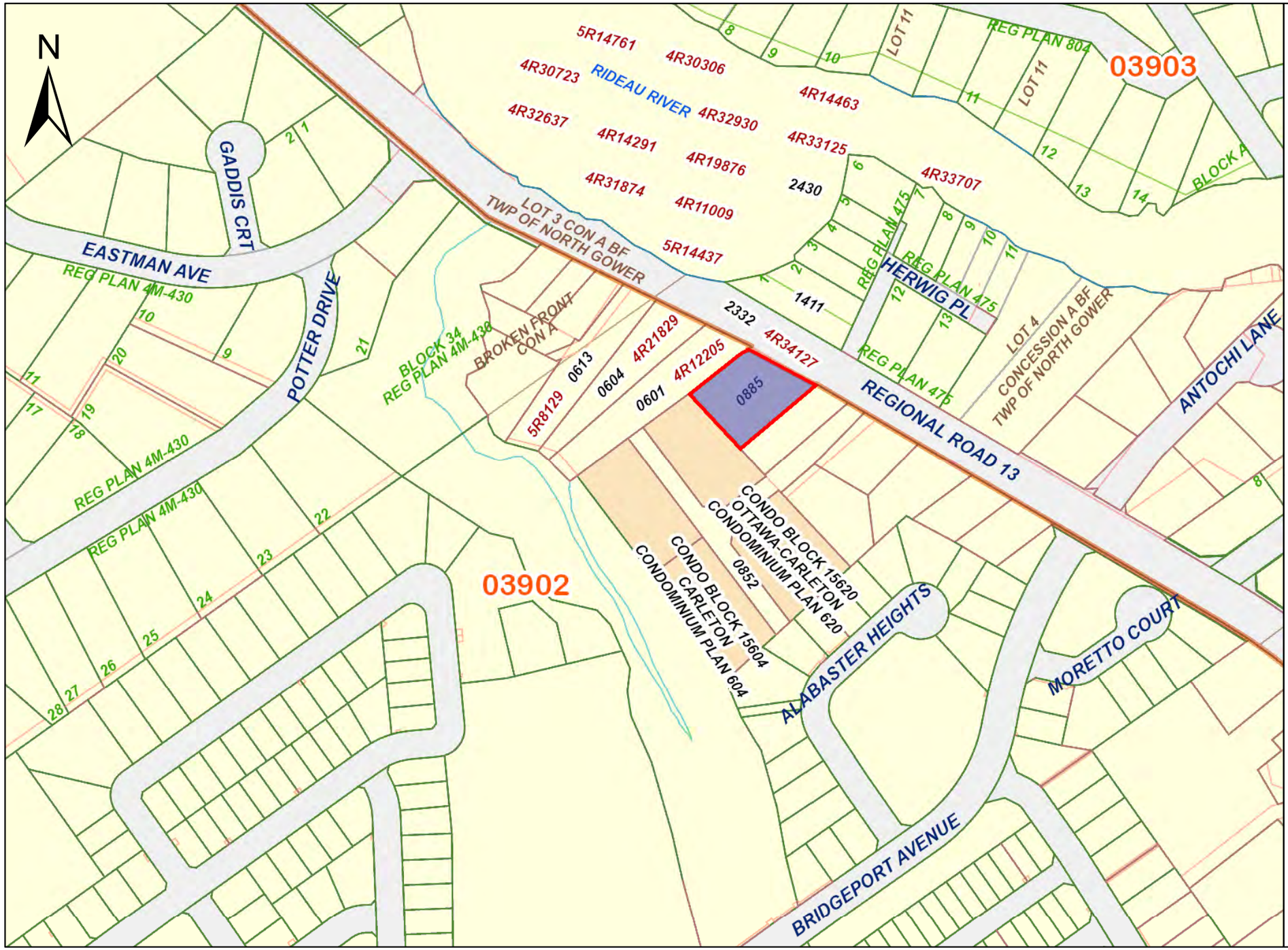
THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

Ontario



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SCALE

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meters

PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	*0449*
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Ontario

APPENDIX III
DIRECTORY SEARCH

ENVIRONMENTAL RISK INFORMATION SERVICES

CITY DIRECTORY

Project Property: *5646 Manotick Main Street, Manotick, Ontario*
Report Type: *City Directory*
Order No: *22031400343*
Information Source: *Vernon's Ottawa And Area City Directory*
Date Completed: *17/03/03*

*****See Addendum Regarding Results***

Environmental Risk Information Services
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City Directory Information Source
Vernon's Ottawa And Area City Directory

PROJECT NUMBER: 22031400343	
Site Address:	5646 Manotick Main Street, Manotick, Ontario
Year: 2011	
Site Listing:	-Discount Tobacco & Grocery Shop -Sears Canada Inc -Sears Catalogue Pickup -Amerco Rentals -U Haul Co Ltd
Adjacent Properties:	
5626 Manotick Main Street	-Address Not Listed
5628 Manotick Main Street	-Address Not Listed
5630 Manotick Main Street	-Address Not Listed
5632 Manotick Main Street	-Residential (2 Tenants)

5636 Manotick Main Street	-Vanis Construction -Select Software -Residential (2 Tenants)
5640 Manotick Main Street	-Address Not Listed
5649 Manotick Main Street	-Address Not Listed
5650 Manotick Main Street	-Residential (1 Tenant)
5652 Manotick Main Street	-Residential (1 Tenant)
5654 Manotick Main Street	-Residential (1 Tenant)

PROJECT NUMBER: 22031400343	
Site Address:	5646 Manotick Main Street, Manotick, Ontario
Year: 2006-2007	
Site Listing:	-Discount Tobacco & Grocery -Residential (2 Tenants)
Adjacent Properties:	

5626 Manotick Main Street	-Address Not Listed
5628 Manotick Main Street	-Residential (1 Tenant)
5630 Manotick Main Street	-Residential (1 Tenant)
5632 Manotick Main Street	-Manotick Cycle Centre -Manotick Lumber & Building Supplies -Cameron R&S
5636 Manotick Main Street	-Address Not Listed
5640 Manotick Main Street	-C&N Electric Ltd
5649 Manotick Main Street	-Residential (1 Tenant)
5650 Manotick Main Street	-Residential (1 Tenant)
5652 Manotick Main Street	-Residential (1 Tenant)
5654 Manotick Main Street	-Residential (1 Tenant)

Site Address:	5646 Manotick Main Street, Manotick, Ontario
Year: 2000	
Site Listing:	-Residential (1 Tenant)
Adjacent Properties:	
5626 Manotick Main Street	-Address Not Listed
5628 Manotick Main Street	-Residential (1 Tenant)
5630 Manotick Main Street	-Residential (1 Tenant)
5632 Manotick Main Street	-Residential (1 Tenant)
5636 Manotick Main Street	-Address Not Listed
5640 Manotick Main Street	-C&N Electric Ltd
5649 Manotick Main Street	-Address Not Listed
5650 Manotick Main Street	-Residential (1 Tenant)
5652 Manotick Main Street	-Residential (1 Tenant)

5654 Manotick Main Street	-Residential (1 Tenant)

PROJECT NUMBER: 22031400343	
Site Address:	5646 Manotick Main Street, Manotick, Ontario
Year: 1996	
Site Listing:	-Hawkins Gas -Residential (1 Tenant)
Adjacent Properties:	
5626 Manotick Main Street	-Manotick Cycle Centre
5628 Manotick Main Street	-Residential (1 Tenant)
5630 Manotick Main Street	-Residential (1 Tenant)
5632 Manotick Main Street	-Address Not Listed
5636 Manotick Main Street	-Address Not Listed

5640 Manotick Main Street	-C&N Electric Ltd
5649 Manotick Main Street	-Address Not Listed
5650 Manotick Main Street	-Residential (1 Tenant)
5652 Manotick Main Street	-Residential (1 Tenant)
5654 Manotick Main Street	-Residential (2 Tenants)

PROJECT NUMBER: 22031400343	
Site Address:	5646 Manotick Main Street, Manotick, Ontario
Year: 1992	
Site Listing:	-Residential (1 Tenant)
Adjacent Properties:	
5626 Manotick Main Street	-Upper Manotick Cycle Centre
5628 Manotick Main Street	-Address Not Listed

5630 Manotick Main Street	-Residential (1 Tenant)
5632 Manotick Main Street	-Address Not Listed
5636 Manotick Main Street	-Address Not Listed
5640 Manotick Main Street	-Address Not Listed
5649 Manotick Main Street	-Address Not Listed
5650 Manotick Main Street	-Residential (1 Tenant)
5652 Manotick Main Street	-Residential (1 Tenant)
5654 Manotick Main Street	-Residential (2 Tenants)

-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.

** **Manotick, Ontario** ***is listed from 2011 to 1999 within the city directory archives*** **

APPENDIX IV

ERIS REPORT

DATABASE REPORT

Project Property:	*CO884.00 - Phase One ESA - 5646 Manotick Main Street* *5646 Manotick Main Street* *Manotick ON K4M 1B3*
Project No:	*CO884.00*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*22030300700*
Requested by:	*Terrapex Environmental Ltd.*
Date Completed:	*March 10, 2022*

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Executive Summary

Property Information:

Project Property:	*CO884.00 - Phase One ESA - 5646 Manotick Main Street* *5646 Manotick Main Street Manotick ON K4M 1B3*
Project No:	*CO884.00*

Order Information:

Order No:	*22030300700*
Date Requested:	*March 3, 2022*
Requested by:	*Terrapex Environmental Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	4	4
CA	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	1	13	14
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	37	38
	Total:		2	56	58

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	GEN	595831 Ontario Inc.	5646 MANOTICK MAIN MANOTICK ON K4M 1B3	W/0.0	-0.50	21
2	WWIS		lot 4 ON ***Well ID:*** 1506502	W/0.0	-0.50	21

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	PINC		5640 Manotick Main Street, Ottawa ON	WNW/13.5	-1.65	23
3	GEN	C & N Electric Ltd	5640 Manotick Main St Manotick ON K4M 1B3	WNW/13.5	-1.65	24
4	WWIS		1017 KITOMAN CRESCENT MANOTICK ON ***Well ID:*** 7298148	NW/20.7	-1.59	24
5	WWIS		lot 4 ON ***Well ID:*** 1506496	E/27.4	0.50	26
6	WWIS		5636 MANOTICK MAIN STREET lot 2 MANOTICK ON ***Well ID:*** 7112930	NW/50.7	-1.47	29
7	WWIS		lot 4 ON ***Well ID:*** 1506500	NW/51.7	-1.47	35
8	WWIS		lot 4 ON ***Well ID:*** 1506497	ESE/52.3	1.94	37
9	WWIS		lot 4 ON ***Well ID:*** 1506505	ENE/53.1	-1.45	40
10	BORE		ON	NNW/75.0	-2.53	43
11	WWIS		lot 4 ON ***Well ID:*** 1506503	NE/85.3	-2.50	44
12	WWIS		lot 4 ON ***Well ID:*** 1506501	ENE/90.0	-0.89	46
13	WWIS		5647 HERWIG PLACE RIDEAU lot 9 MANOTICK ON	ENE/116.5	-2.19	49

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7109789			
13	HINC		5647 HERWIG PLACE OTTAWA ON	ENE/116.5	-2.19	51
14	WWIS		5659 MANOTICK MAIN STREET lot 4 con A MONOTICK ON ***Well ID:*** 7299183	E/122.5	0.81	51
15	WWIS		5645 HERWIG PLACE lot 8 MANOTICK ON ***Well ID:*** 7108187	ENE/123.3	-2.19	54
16	WWIS		5649 HERWING PLACE MANOTICK ON ***Well ID:*** 7243008	ENE/128.0	-1.53	61
17	WWIS		lot 4 ON ***Well ID:*** 1517651	E/129.4	0.50	68
18	WWIS		5647 HERWIG PLACE lot 9 MANOTICK ON ***Well ID:*** 7108186	ENE/129.7	-2.19	72
19	WWIS		lot 4 ON ***Well ID:*** 1510132	NE/131.0	-1.45	79
20	WWIS		5649 HERWING PLACE MANOTICK ON ***Well ID:*** 7243009	ENE/131.9	-1.53	81
21	WWIS		5649 HERWIG PLACE MANOTICK ON ***Well ID:*** 7242995	ENE/139.3	-1.53	89
22	WWIS		5659 MANOTICK MAIN ST lot 4 con A MANOTICK ON ***Well ID:*** 7321150	E/141.4	-0.89	91
23	WWIS		5659 MANOTICK MAIN ST MANOTICK ON ***Well ID:*** 7321066	E/147.7	-0.89	98
24	WWIS		lot 4 ON ***Well ID:*** 1506495	SSE/152.7	3.47	101
25	WWIS		lot 4 ON	E/155.9	-1.10	103

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1506494			
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON	ESE/160.6	3.20	105
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON	ESE/160.6	3.20	106
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON	ESE/160.6	3.20	106
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON	ESE/160.6	3.20	106
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON	ESE/160.6	3.20	107
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON	ESE/160.6	3.20	107
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	ESE/160.6	3.20	107
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	ESE/160.6	3.20	107
26	GEN	City of ottawa	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	ESE/160.6	3.20	108
26	GEN	City of ottawa RPAM	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	ESE/160.6	3.20	108
26	GEN	City of ottawa RPAM	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	ESE/160.6	3.20	108
26	GEN	City of ottawa RPAM	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	ESE/160.6	3.20	108
27	WWIS		POTTER DR + MANOTIC MAIN ST lot 4 con A MANOTICK ON	WSW/168.6	-1.50	109

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7181760			
28	WWIS		lot 4 ON ***Well ID:*** 1518656	ESE/169.5	3.50	113
29	BORE		ON	SE/173.8	4.67	116
30	WWIS		lot 4 ON ***Well ID:*** 1513374	E/179.3	-1.61	117
31	WWIS		POTTER DR + HANOTICK MAIN ST lot 4 con A MANOTICK ON ***Well ID:*** 7181759	SW/186.2	-1.36	121
32	WWIS		lot 3 ON ***Well ID:*** 1506487	WNW/192.9	-1.41	128
33	WWIS		lot 3 ON ***Well ID:*** 1506489	WNW/200.4	-1.41	131
34	WWIS		lot 4 ON ***Well ID:*** 1506504	E/202.3	2.14	134
35	BORE		ON	E/202.4	2.14	136
36	WWIS		5676 RIDEAU VALLEY DR. lot 4 con A MANOTICK ON ***Well ID:*** 7173907	ESE/212.4	4.88	137
37	BORE		ON	ENE/223.7	0.42	140
38	WWIS		ON ***Well ID:*** 1510424	ENE/223.8	0.42	141
39	WWIS		lot 4 ON ***Well ID:*** 1506506	ESE/225.5	5.69	144
40	WWIS		lot 4 con A ON	E/226.0	-1.50	147

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1533319			
41	WWIS		ON ***Well ID:*** 1510363	NNE/226.9	3.14	150
42	WWIS		5624 South River Drive MANOTICK ON ***Well ID:*** 7324272	NNE/233.3	3.15	152
43	WWIS		5624 south river drive MANOTICK ON ***Well ID:*** 7324268	NNE/237.3	3.15	160
44	WWIS		lot 4 ON ***Well ID:*** 1506508	ESE/239.8	6.19	161
45	WWIS		lot 4 ON ***Well ID:*** 1506507	ESE/248.4	6.14	164

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 4 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	75.0	10
	ON	173.8	29
	ON	202.4	35
	ON	223.7	37

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Nov 30, 2021 has found that there are 14 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
595831 Ontario Inc.	5646 MANOTICK MAIN MANOTICK ON K4M 1B3	0.0	1
C & N Electric Ltd	5640 Manotick Main St Manotick ON K4M 1B3	13.5	3
City of ottawa	5669 Rideau Valley Drive North Ottawa ON	160.6	26
City of ottawa	5669 Rideau Valley Drive North Ottawa ON	160.6	26

Site	Address	Distance (m)	Map Key
City of ottawa	5669 Rideau Valley Drive North Ottawa ON	160.6	26
City of ottawa	5669 Rideau Valley Drive North Ottawa ON	160.6	26
City of ottawa	5669 Rideau Valley Drive North Ottawa ON	160.6	26
City of ottawa	5669 Rideau Valley Drive North Ottawa ON	160.6	26
City of ottawa	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	160.6	26
City of ottawa	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	160.6	26
City of ottawa RPAM	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	160.6	26
City of ottawa RPAM	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	160.6	26
City of ottawa	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	160.6	26
City of ottawa RPAM	5669 Rideau Valley Drive North Ottawa ON K4M 1C8	160.6	26

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	5647 HERWIG PLACE OTTAWA ON	116.5	13

PINC - Pipeline Incidents

A search of the PINC database, dated May 31, 2021 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	5640 Manotick Main Street, Ottawa ON	13.5	3

WWIS - Water Well Information System

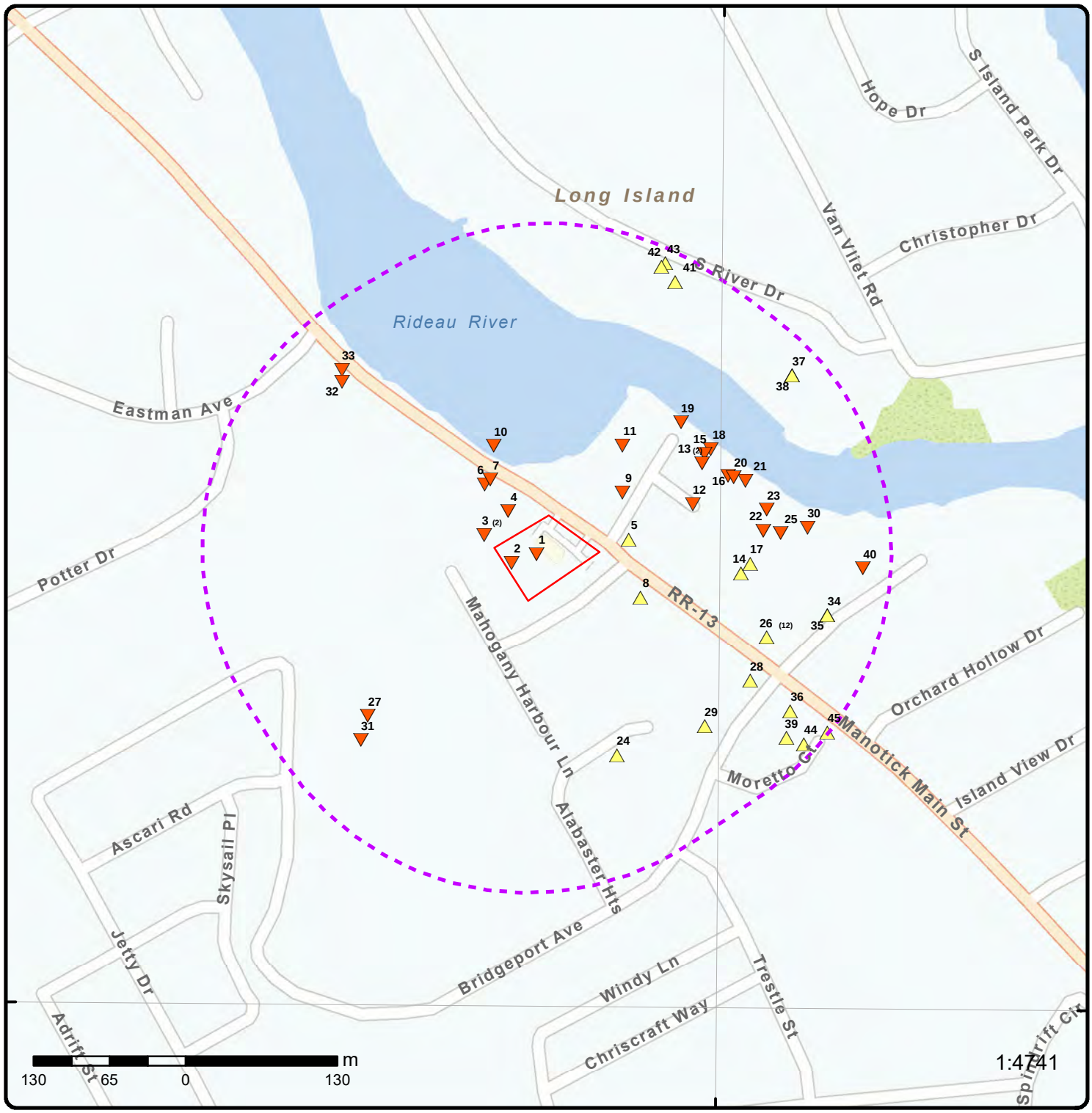
A search of the WWIS database, dated Sep 30, 2021 has found that there are 38 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 4 ON ***Well ID:*** 1506502	0.0	2
	1017 KITOMAN CRESCENT MANOTICK ON ***Well ID:*** 7298148	20.7	4
	lot 4 ON ***Well ID:*** 1506496	27.4	5
	5636 MANOTICK MAIN STREET lot 2 MANOTICK ON ***Well ID:*** 7112930	50.7	6
	lot 4 ON ***Well ID:*** 1506500	51.7	7
	lot 4 ON	52.3	8

Site	Address	Distance (m)	Map Key
	Well ID: 1506497		
	lot 4 ON ***Well ID:*** 1506505	53.1	9
	lot 4 ON ***Well ID:*** 1506503	85.3	11
	lot 4 ON ***Well ID:*** 1506501	90.0	12
	5647 HERWIG PLACE RIDEAU lot 9 MANOTICK ON ***Well ID:*** 7109789	116.5	13
	5659 MANOTICK MAIN STREET lot 4 con A MONOTICK ON ***Well ID:*** 7299183	122.5	14
	5645 HERWIG PLACE lot 8 MANOTICK ON ***Well ID:*** 7108187	123.3	15
	5649 HERWING PLACE MANOTICK ON ***Well ID:*** 7243008	128.0	16
	lot 4 ON ***Well ID:*** 1517651	129.4	17
	5647 HERWIG PLACE lot 9 MANOTICK ON ***Well ID:*** 7108186	129.7	18
	lot 4 ON ***Well ID:*** 1510132	131.0	19
	5649 HERWING PLACE MANOTICK ON ***Well ID:*** 7243009	131.9	20

Site	Address	Distance (m)	Map Key
	5649 HERWIG PLACE MANOTICK ON ***Well ID:*** 7242995	139.3	21
	5659 MANOTICK MAIN ST lot 4 con A MANOTICK ON ***Well ID:*** 7321150	141.4	22
	5659 MANOTICK MAIN ST MANOTICK ON ***Well ID:*** 7321066	147.7	23
	lot 4 ON ***Well ID:*** 1506495	152.7	24
	lot 4 ON ***Well ID:*** 1506494	155.9	25
	POTTER DR + MANOTIC MAIN ST lot 4 con A MANOTICK ON ***Well ID:*** 7181760	168.6	27
	lot 4 ON ***Well ID:*** 1518656	169.5	28
	lot 4 ON ***Well ID:*** 1513374	179.3	30
	POTTER DR + HANOTICK MAIN ST lot 4 con A MANOTICK ON ***Well ID:*** 7181759	186.2	31
	lot 3 ON ***Well ID:*** 1506487	192.9	32
	lot 3 ON ***Well ID:*** 1506489	200.4	33
	lot 4 ON	202.3	34

Site	Address	Distance (m)	Map Key
	Well ID: 1506504		
	5676 RIDEAU VALLEY DR. lot 4 con A MANOTICK ON ***Well ID:*** 7173907	212.4	36
	ON ***Well ID:*** 1510424	223.8	38
	lot 4 ON ***Well ID:*** 1506506	225.5	39
	lot 4 con A ON ***Well ID:*** 1533319	226.0	40
	ON ***Well ID:*** 1510363	226.9	41
	5624 South River Drive MANOTICK ON ***Well ID:*** 7324272	233.3	42
	5624 south river drive MANOTICK ON ***Well ID:*** 7324268	237.3	43
	lot 4 ON ***Well ID:*** 1506508	239.8	44
	lot 4 ON ***Well ID:*** 1506507	248.4	45



Map: 0.25 Kilometer Radius

Order Number: 22030300700

Address: 5646 Manotick Main Street, Manotick, ON

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation

- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail

- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital

- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

75°40'30"W

45°13'30"N

45°13'30"N

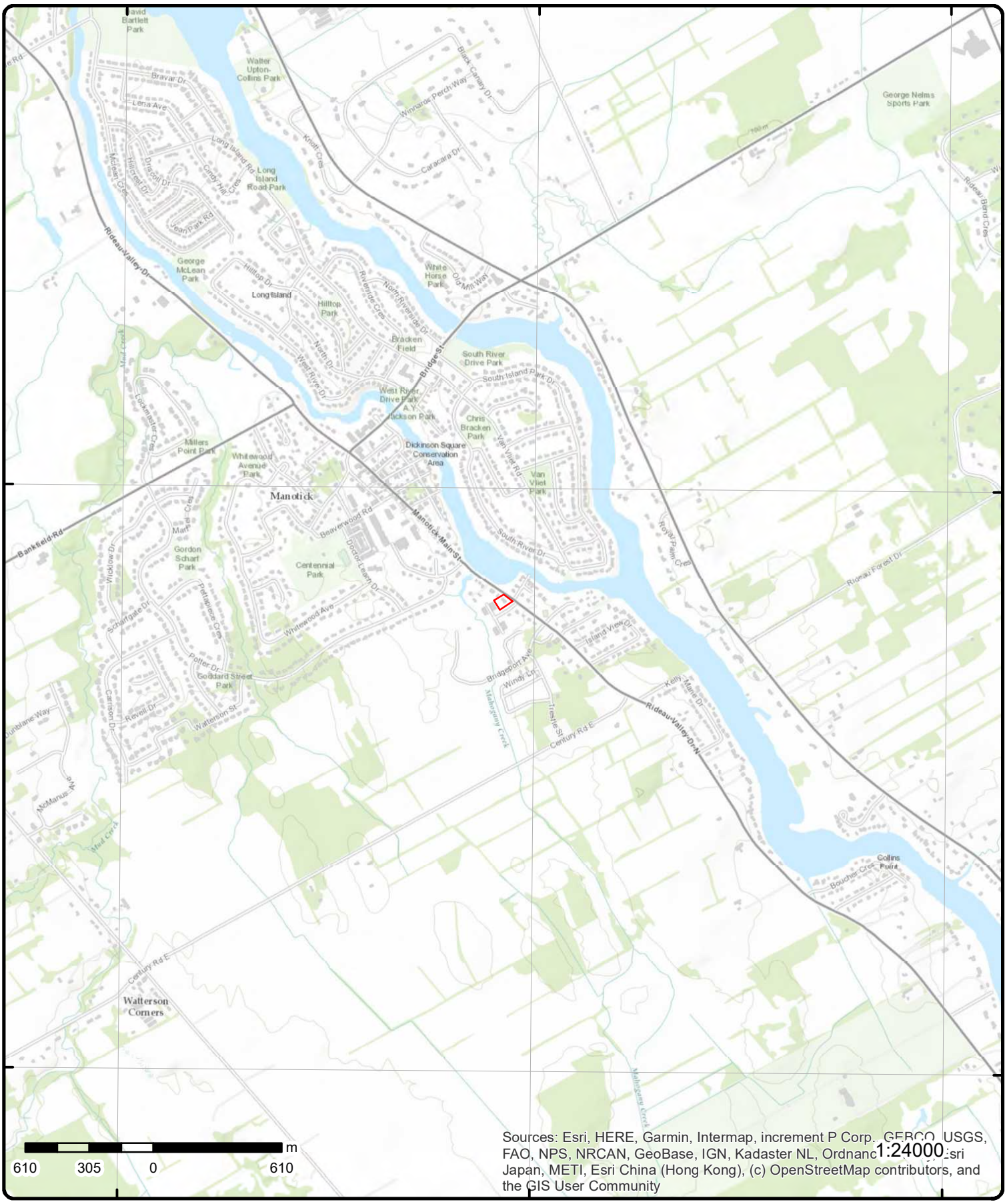
Aerial

Year: 2020

Order Number: 22030300700

Address: 5646 Manotick Main Street, Manotick, ON

Source: ESRI World Imagery



Topographic Map

Address: 5646 Manotick Main Street, ON

Source: ESRI World Topographic Map

Order Number: 22030300700

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	W/0.0	85.9 / -0.50	595831 Ontario Inc. 5646 MANOTICK MAIN MANOTICK ON K4M 1B3	GEN

Generator No:	ON8832860	**Status:**	
SIC Code:	447190	**Co Admin:**	
SIC Description:	Other Gasoline Stations	**Choice of Contact:**	
Approval Years:	07,08	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	221
Waste Class Desc:	LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	W/0.0	85.9 / -0.50	lot 4 ON	WWIS

Well ID:	1506502	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	1/9/1957
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3601
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506502.pdf

Additional Detail(s) (Map)

Well Completed Date:	1956/11/04
Year Completed:	1956
Depth (m):	13.4112
Latitude:	45.2200795153563
Longitude:	-75.6772663658669
Path:	150\1506502.pdf

Bore Hole Information

Bore Hole ID:	10028538	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446825.80
Code OB Desc:		**North83:**	5007622.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	04-Nov-1956 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	931004684
Layer:	2
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	40.0
Formation End Depth:	44.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004683
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:	40.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961506502
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID: 10577108

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049816
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 44.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506502
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 6.0
Recommended Pump Depth:
Pumping Rate: 3.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933460653
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 44.0
Water Found Depth UOM: ft

---

3 | ***1 of 2*** | ***WNW/13.5*** | ***84.7 / -1.65*** | ***5640 Manotick Main Street, Ottawa ON*** | ***PINC***

Incident ID:
Incident No: 845360
Incident Reported Dt:
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Tank Status: RC Established
Task No: 3910554
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt: 2012/07/30
Depth:
Customer Acct Name:
Incident Address:

Pipe Material:
Fuel Category: Natural Gas
Health Impact:
Environment Impact:
Property Damage: Yes
Service Interrupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
PSIG:
Attribute Category: FS-Perform P-line Inc Invest
Regulator Location:
Method Details: E-mail

Operation Type:
Pipeline Type:
Regulator Type:
Summary: 5640 Manotick Main Street, Ottawa - 1" Pipeline Hit
Reported By: Jeff.Stiles@enbridge.com
Affiliation:
Occurrence Desc:
Damage Reason: Excavation practices not sufficient
Notes:

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3 | **2 of 2** | **WNW/13.5** | **84.7 / -1.65** | **C & N Electric Ltd**
5640 Manotick Main St
Manotick ON K4M 1B3 | **GEN**

Generator No: ON5554470
SIC Code: 238210
SIC Description: ELECTRICAL CONTRACTORS, ELECTRICAL CONTRACTORS AND OTHER WIRING
Approval Years: 2016
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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4 | **1 of 1** | **NW/20.7** | **84.8 / -1.59** | **1017 KITOMAN CRESCENT**
MANOTICK ON | **WWIS**

Well ID: 7298148
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: 0
Water Type:
Casing Material:
Audit No: Z224176
Tag: A204609
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 10/31/2017
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6364
Form Version: 7
Owner:
Street Name: 1017 KITOMAN CRESCENT
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/729\7298148.pdf

Additional Detail(s) (Map)

Well Completed Date: 2017/10/03
Year Completed: 2017
Depth (m):
Latitude: 45.2204753456116
Longitude: -75.6773067285788
Path: 729\7298148.pdf

Bore Hole Information

Bore Hole ID:	1006786113	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	446823.00
Code OB Desc:		***North83:***	5007666.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	03-Oct-2017 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006960092
Layer:	
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006960097
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1006960091
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006960095
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006960096
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1006960094
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006960093
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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5 ***1 of 1*** ***E/27.4*** ***86.9 / 0.50*** ***lot 4 ON*** ***WWIS***

Well ID:	1506496	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	3/3/1953
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3725
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	004
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506496.pdf

Additional Detail(s) (Map)

Well Completed Date:	1953/01/16
Year Completed:	1953
Depth (m):	20.4216
Latitude:	45.2202670798036

Longitude: -75.6759949134349
Path: 150\1506496.pdf

Bore Hole Information

Bore Hole ID:	10028532	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	446925.80
Code OB Desc:		***North83:***	5007642.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	16-Jan-1953 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 931004667
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: 13.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004668
Layer: 2
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2: 14
Mat2 Desc: HARDPAN
Mat3:
Mat3 Desc:
Formation Top Depth: 13.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004669
Layer: 3
Color:
General Color:

Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30.0
Formation End Depth:	67.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961506496
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10577102
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930049803
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	30.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930049804
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	67.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991506496
Pump Set At:	
Static Level:	16.0
Final Level After Pumping:	16.0
Recommended Pump Depth:	
Pumping Rate:	2.0
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:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933460647
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	44.0
Water Found Depth UOM:	ft

6 | ***1 of 1*** | ***NW/50.7*** | ***84.9 / -1.47*** | ***5636 MANOTICK MAIN STREET lot 2 MANOTICK ON*** | ***WWIS***

Well ID:	7112930	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	10/14/2008
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	7
Audit No:	Z84375	**Owner:**	
Tag:	A051496	**Street Name:**	5636 MANOTICK MAIN STREET
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	002
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7112930.pdf

Additional Detail(s) (Map)

Well Completed Date:	2008/08/12
Year Completed:	2008
Depth (m):	22.85
Latitude:	45.2206808565143
Longitude:	-75.6775639064187
Path:	711\7112930.pdf

Bore Hole Information

Bore Hole ID:	1001835729	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446803.00
Code OB Desc:		**North83:**	5007689.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	12-Aug-2008 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			

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

Overburden and Bedrock Materials Interval

Formation ID: 1001936666
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0399999618530273
Formation End Depth: 7.309999942779541
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001936667
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 7.309999942779541
Formation End Depth: 22.850000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001936664
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.5199999809265137
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001936665
Layer: 2

Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.5199999809265137
Formation End Depth:	3.0399999618530273
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001936670
Layer:	1
Plug From:	8.829999923706055
Plug To:	0.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001936692
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	AIR

Pipe Information

Pipe ID:	1001936662
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1001936672
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	-0.6000000238418579
Depth To:	8.829999923706055
Casing Diameter:	15.859999656677246
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1001936673
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID: 1001936663
Pump Set At: 15.229999542236328
Static Level: 2.859999895095825
Final Level After Pumping: 3.9600000381469727
Recommended Pump Depth: 15.229999542236328
Pumping Rate: 54.599998474121094
Flowing Rate:
Recommended Pump Rate: 45.5
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1001936681
Test Type: Recovery
Test Duration: 4
Test Level: 2.8399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936687
Test Type: Draw Down
Test Duration: 30
Test Level: 3.7200000286102295
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936688
Test Type: Draw Down
Test Duration: 40
Test Level: 3.7200000286102295
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936689
Test Type: Draw Down
Test Duration: 50
Test Level: 3.700000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936676
Test Type: Draw Down
Test Duration: 2
Test Level: 3.549999952316284
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936679

Test Type: Recovery
Test Duration: 3
Test Level: 2.869999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936682
Test Type: Draw Down
Test Duration: 5
Test Level: 3.630000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936685
Test Type: Draw Down
Test Duration: 20
Test Level: 3.690000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936684
Test Type: Draw Down
Test Duration: 15
Test Level: 3.6700000762939453
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936680
Test Type: Draw Down
Test Duration: 4
Test Level: 3.619999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936683
Test Type: Draw Down
Test Duration: 10
Test Level: 3.6500000953674316
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936690
Test Type: Draw Down
Test Duration: 60
Test Level: 3.690000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001936674
Test Type: Draw Down
Test Duration: 1
Test Level: 3.490000009536743
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID:	1001936675
Test Type:	Recovery
Test Duration:	1
Test Level:	3.0
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1001936686
Test Type:	Draw Down
Test Duration:	25
Test Level:	3.7100000381469727
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1001936678
Test Type:	Draw Down
Test Duration:	3
Test Level:	3.5799999237060547
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1001936677
Test Type:	Recovery
Test Duration:	2
Test Level:	2.9000000953674316
Test Level UOM:	m

Water Details

Water ID:	1001936671
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	16.760000228881836
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001936669
Diameter:	15.229999542236328
Depth From:	8.829999923706055
Depth To:	22.850000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1001936668
Diameter:	15.859999656677246
Depth From:	0.0
Depth To:	8.829999923706055
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	1 of 1	NW/51.7	84.9 / -1.47	lot 4 ON	WWIS

Well ID:	1506500	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	12/3/1956
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3113
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506500.pdf

Additional Detail(s) (Map)

Well Completed Date:	1956/09/14
Year Completed:	1956
Depth (m):	20.7264
Latitude:	45.2207172229719
Longitude:	-75.6775032012909
Path:	150\1506500.pdf

Bore Hole Information

Bore Hole ID:	10028536	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446807.80
Code OB Desc:		**North83:**	5007693.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	14-Sep-1956 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931004680
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 39.0
Formation End Depth: 68.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004678
Layer: 1
Color:
General Color:
Mat1: 12
Most Common Material: STONES
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004679
Layer: 2
Color: 2
General Color: GREY
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 39.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506500
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577106
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049812
Layer: 1
Material: 1

Open Hole or Material:	STEEL
Depth From:	
Depth To:	40.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930049813
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	68.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991506500
Pump Set At:	
Static Level:	28.0
Final Level After Pumping:	28.0
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:	933460651
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	68.0
Water Found Depth UOM:	ft

8 ***1 of 1*** ***ESE/52.3*** ***88.3 / 1.94*** ***lot 4 ON*** ***WWIS***

Well ID:	1506497	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/22/1953
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3113
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	

Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506497.pdf

Additional Detail(s) (Map)

Well Completed Date:	1953/04/08
Year Completed:	1953
Depth (m):	21.0312
Latitude:	45.2198177859953
Longitude:	-75.6758622222897
Path:	150\1506497.pdf

Bore Hole Information

Bore Hole ID:	10028533	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446935.80
Code OB Desc:		**North83:**	5007592.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	08-Apr-1953 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931004671
Layer:	2
Color:	8
General Color:	BLACK
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	32.0
Formation End Depth:	69.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004670
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

Method Construction ID: 961506497
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577103
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049806
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 69.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049805
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 32.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506497
Pump Set At:
Static Level: 16.0
Final Level After Pumping: 19.0
Recommended Pump Depth:
Pumping Rate: 63.0
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:	0
Pumping Duration MIN:	15
Flowing:	No

Water Details

Water ID:	933460648
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	48.0
Water Found Depth UOM:	ft

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9 | ***1 of 1*** | ***ENE/53.1*** | ***84.9 / -1.45*** | ***lot 4 ON*** | ***WWIS***

Well ID:	1506505	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Commerical	**Date Received:**	6/2/1960
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4216
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506505.pdf

Additional Detail(s) (Map)

Well Completed Date:	1960/05/19
Year Completed:	1960
Depth (m):	34.1376
Latitude:	45.2206267408869
Longitude:	-75.6760628599451
Path:	150\1506505.pdf

Bore Hole Information

Bore Hole ID:	10028541	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446920.80
Code OB Desc:		**North83:**	5007682.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	19-May-1960 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			

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

Overburden and Bedrock Materials Interval

Formation ID: 931004689
Layer: 1
Color:
General Color:
Mat1: 23
Most Common Material: PREVIOUSLY DUG
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 63.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004691
Layer: 3
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 100.0
Formation End Depth: 112.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004690
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 63.0
Formation End Depth: 100.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506505
Method Construction Code: 1

Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577111
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049822
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 112.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049821
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 63.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506505
Pump Set At:
Static Level: 18.0
Final Level After Pumping: 20.0
Recommended Pump Depth:
Pumping Rate: 10.0
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: 933460656
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 100.0
Water Found Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	1 of 1	NNW/75.0	83.8 / -2.53	ON	BORE

Borehole ID:	611782	**Inclin FLG:**	No
OGF ID:	215513095	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	SEP-1956	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.220977
Total Depth m:	20.7	**Longitude DD:**	-75.677468
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	446811
Drill Method:		**Northing:**	5007722
Orig Ground Elev m:	88.4	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	84.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218389190	**Mat Consistency:**	
Top Depth:	11.9	**Material Moisture:**	
Bottom Depth:	20.7	**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. 00068EL. GREY. LIMESTONE. GREY. 00075TY = 18000. BEDROCK. SEISMIC **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	218389188	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	9.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Stones	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			

Stratum Description: STONES,GRAVEL.

Geology Stratum ID:	218389189	**Mat Consistency:**	
Top Depth:	9.1	**Material Moisture:**	
Bottom Depth:	11.9	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			

Stratum Description: SAND,GRAVEL. GREY.

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 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: OTTAWA1.txt RecordID: 04290 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		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	NE/85.3	83.9 / -2.50	lot 4 ON	WWIS

Well ID:	1506503	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	1/9/1957
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3601
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506503.pdf

Additional Detail(s) (Map)

Well Completed Date:	1956/11/16
Year Completed:	1956
Depth (m):	21.336
Latitude:	45.2209867788834
Longitude:	-75.6760671270376
Path:	150\1506503.pdf

Bore Hole Information

Bore Hole ID:	10028539	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446920.80
Code OB Desc:		**North83:**	5007722.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	16-Nov-1956 00:00:00	**UTMRC Desc:**	unknown UTM

Remarks: ***Location Method:*** p9
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931004686
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 24.0
Formation End Depth: 70.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004685
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: 24.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506503
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577109
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049818
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

Construction Record - Casing

Casing ID:	930049817
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	28.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991506503
Pump Set At:	
Static Level:	18.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	
Pumping Rate:	3.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933460654
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70.0
Water Found Depth UOM:	ft

12 ***1 of 1*** ***ENE/90.0*** ***85.5 / -0.89*** ***lot 4 ON*** ***WWIS***

Well ID:	1506501	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	1/9/1957
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3601
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	

Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506501.pdf

Additional Detail(s) (Map)

Well Completed Date:	1956/10/01
Year Completed:	1956
Depth (m):	21.336
Latitude:	45.2205412523203
Longitude:	-75.6752976355064
Path:	150\1506501.pdf

Bore Hole Information

Bore Hole ID:	10028537	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446980.80
Code OB Desc:		**North83:**	5007672.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	01-Oct-1956 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931004681
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:	22.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004682
Layer:	2
Color:	
General Color:	

Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 22.0
Formation End Depth: 70.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506501
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577107
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049814
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 26.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049815
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

Results of Well Yield Testing

Pump Test ID: 991506501
Pump Set At:
Static Level: 6.0
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

Water Details

Water ID:	933460652
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70.0
Water Found Depth UOM:	ft

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13 | ***1 of 2*** | ***ENE/116.5*** | ***84.2 / -2.19*** | ***5647 HERWIG PLACE RIDEAU lot 9 MANOTICK ON*** | ***WWIS***

Well ID:	7109789	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	8/14/2008
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z80844	**Owner:**	
Tag:		**Street Name:**	5647 HERWIG PLACE RIDEAU
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	009
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7109789.pdf

Additional Detail(s) (Map)

Well Completed Date:	2008/06/24
Year Completed:	2008
Depth (m):	7.62
Latitude:	45.2208569030939
Longitude:	-75.6751969294975
Path:	710\7109789.pdf

Bore Hole Information

Bore Hole ID:	1001732899	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446989.00
Code OB Desc:		**North83:**	5007707.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	24-Jun-2008 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			

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

Overburden and Bedrock Materials Interval

Formation ID: 1001750451
Layer: 1
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 25.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1001750453
Layer: 1
Plug From: 25.0
Plug To: 0.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1001750457
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1001750450
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001750455
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1001750456
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001750454
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1001750452
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

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13 | ***2 of 2*** | ***ENE/116.5*** | ***84.2 / -2.19*** | ***5647 HERWIG PLACE OTTAWA ON*** | ***HINC***

External File Num: FS INC 0810-05974
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 9/19/2008
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Construction Site (pipeline strike)
Service Interruptions: Yes
Property Damage: Yes
Fuel Life Cycle Stage: Transmission, Distribution and Transportation
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training: Yes Management:Yes Human Factors:Yes
Reported Details:
Fuel Category: Gaseous Fuel
Occurrence Type: Incident
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name: Ottawa
Approx. Quant. Rel:
Nearby body of water:
Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

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14 | ***1 of 1*** | ***E/122.5*** | ***87.2 / 0.81*** | ***5659 MANOTICK MAIN STREET lot 4 con A MONOTICK ON*** | ***WWIS***

Well ID: 7299183
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Data Entry Status:
Data Src:
Date Received: 11/16/2017
Selected Flag: TRUE
Abandonment Rec: Yes

Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z262261	**Owner:**	
Tag:		**Street Name:**	5659 MANOTICK MAIN STREET
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	A
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/729\7299183.pdf

Additional Detail(s) (Map)

Well Completed Date:	2017/10/06
Year Completed:	2017
Depth (m):	
Latitude:	45.2200132975
Longitude:	-75.6747666320077
Path:	729\7299183.pdf

Bore Hole Information

Bore Hole ID:	1006800444	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	447022.00
Code OB Desc:		**North83:**	5007613.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	06-Oct-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006970435
Layer:	
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006970444
Layer:	1
Plug From:	55.0
Plug To:	4.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006970445
Layer:	2
Plug From:	4.0
Plug To:	0.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006970440
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1006970434
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006970438
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006970439
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1006970437
Layer:	

Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1006970436
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

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15 | **1 of 1** | **ENE/123.3** | **84.2 / -2.19** | **5645 HERWIG PLACE lot 8 MANOTICK ON** | **WWIS**

Well ID: 7108187
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z80735
Tag: A066479
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/15/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1119
Form Version: 7
Owner:
Street Name: 5645 HERWIG PLACE
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot: 008
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7108187.pdf

Additional Detail(s) (Map)

Well Completed Date: 2008/05/14
Year Completed: 2008
Depth (m): 42.66
Latitude: 45.2209290612935
Longitude: -75.675172309724
Path: 710\7108187.pdf

Bore Hole Information

Bore Hole ID: 1001658366
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 14-May-2008 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:

Elevation:
Elevrc:
Zone: 18
East83: 446991.00
North83: 5007715.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

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

Overburden and Bedrock Materials Interval

Formation ID: 1001782334
Layer: 3
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 35.349998474121094
Formation End Depth: 42.65999984741211
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001782333
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6.400000095367432
Formation End Depth: 35.349998474121094
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001782332
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.400000095367432
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001782337
Layer: 2
Plug From: 4.869999885559082

Plug To: 0.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001782336
Layer: 1
Plug From: 7.920000076293945
Plug To: 4.869999885559082
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001782369
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1001782330
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001782340
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 8.529999732971191
Depth To: 0.0
Casing Diameter: 0.15880000591278076
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001782341
Layer: 1
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1001782331
Pump Set At: 36.56999969482422
Static Level: 3.200000047683716
Final Level After Pumping: 3.3399999141693115
Recommended Pump Depth: 30.469999313354492
Pumping Rate: 91.0
Flowing Rate:
Recommended Pump Rate: 91.0

Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1001782342
Test Type: Draw Down
Test Duration: 1
Test Level: 3.319999933242798
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782347
Test Type: Recovery
Test Duration: 3
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782351
Test Type: Recovery
Test Duration: 5
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782354
Test Type: Draw Down
Test Duration: 15
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782358
Test Type: Draw Down
Test Duration: 25
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782362
Test Type: Draw Down
Test Duration: 40
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782366

Test Type: Draw Down
Test Duration: 60
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782355
Test Type: Recovery
Test Duration: 15
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782361
Test Type: Recovery
Test Duration: 30
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782367
Test Type: Recovery
Test Duration: 60
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782360
Test Type: Draw Down
Test Duration: 30
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782364
Test Type: Draw Down
Test Duration: 50
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782365
Test Type: Recovery
Test Duration: 50
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782359
Test Type: Recovery
Test Duration: 25
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782363
Test Type: Recovery
Test Duration: 40
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782348
Test Type: Draw Down
Test Duration: 4
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782356
Test Type: Draw Down
Test Duration: 20
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782345
Test Type: Recovery
Test Duration: 2
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782346
Test Type: Draw Down
Test Duration: 3
Test Level: 3.3299999237060547
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782352
Test Type: Draw Down
Test Duration: 10
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782343
Test Type: Recovery
Test Duration: 1
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782350
Test Type: Draw Down
Test Duration: 5
Test Level: 3.3399999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782353
Test Type: Recovery
Test Duration: 10
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782344
Test Type: Draw Down
Test Duration: 2
Test Level: 3.319999933242798
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782349
Test Type: Recovery
Test Duration: 4
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782357
Test Type: Recovery
Test Duration: 20
Test Level: 3.200000047683716
Test Level UOM: m

Water Details

Water ID: 1001782339
Layer: 2
Kind Code: 8
Kind: Untested
Water Found Depth: 41.13999938964844
Water Found Depth UOM: m

Water Details

Water ID: 1001782338
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 40.529998779296875
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001782335
Diameter: 15.550000190734863

Depth From:	42.65999984741211
Depth To:	0.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

16 **1 of 1** **ENE/128.0** **84.8 / -1.53** **5649 HERWING PLACE MANOTICK ON** **WWIS**

Well ID:	7243008	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	6/15/2015
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z191411	**Owner:**	
Tag:	A144855	**Street Name:**	5649 HERWING PLACE
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	LOT 10 & 11
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/724\7243008.pdf

Additional Detail(s) (Map)

Well Completed Date:	2015/04/21
Year Completed:	2015
Depth (m):	42.672
Latitude:	45.220759548779
Longitude:	-75.6749155652907
Path:	724\7243008.pdf

Bore Hole Information

Bore Hole ID:	1005408890	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	447011.00
Code OB Desc:		**North83:**	5007696.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	21-Apr-2015 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 1005581247

Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 59.0
Formation End Depth: 120.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005581249
Layer: 5
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 133.0
Formation End Depth: 140.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005581246
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 22.0
Formation End Depth: 59.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005581248
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 120.0
Formation End Depth: 133.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	1005581245
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	0.0
Formation End Depth:	22.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005581286
Layer:	1
Plug From:	28.0
Plug To:	18.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005581287
Layer:	2
Plug From:	18.0
Plug To:	0.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005581285
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1005581243
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005581256
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	28.0
Depth To:	140.0
Casing Diameter:	5.9375
Casing Diameter UOM:	inch

Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1005581255
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2.0
Depth To: 28.0
Casing Diameter: 6.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005581257
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1005581244
Pump Set At: 120.0
Static Level: 12.079999923706055
Final Level After Pumping: 12.25
Recommended Pump Depth: 100.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 20.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1005581260
Test Type: Draw Down
Test Duration: 2
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581263
Test Type: Recovery
Test Duration: 3
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581279
Test Type: Recovery
Test Duration: 40
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581258
Test Type: Draw Down
Test Duration: 1
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581261
Test Type: Recovery
Test Duration: 2
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581276
Test Type: Draw Down
Test Duration: 30
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581281
Test Type: Recovery
Test Duration: 50
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581283
Test Type: Recovery
Test Duration: 60
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581259
Test Type: Recovery
Test Duration: 1
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581269
Test Type: Recovery

Test Duration: 10
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581270
Test Type: Draw Down
Test Duration: 15
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581274
Test Type: Draw Down
Test Duration: 25
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581277
Test Type: Recovery
Test Duration: 30
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581265
Test Type: Recovery
Test Duration: 4
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581267
Test Type: Recovery
Test Duration: 5
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581268
Test Type: Draw Down
Test Duration: 10
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581278
Test Type: Draw Down
Test Duration: 40
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581262
Test Type: Draw Down
Test Duration: 3
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581275
Test Type: Recovery
Test Duration: 25
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581280
Test Type: Draw Down
Test Duration: 50
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581272
Test Type: Draw Down
Test Duration: 20
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581273
Test Type: Recovery
Test Duration: 20
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581264
Test Type: Draw Down
Test Duration: 4
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581266
Test Type: Draw Down
Test Duration: 5
Test Level: 12.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581271

Test Type: Recovery
Test Duration: 15
Test Level: 12.083000183105469
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581282
Test Type: Draw Down
Test Duration: 60
Test Level: 12.25
Test Level UOM: ft

Water Details

Water ID: 1005581252
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 59.0
Water Found Depth UOM: ft

Water Details

Water ID: 1005581254
Layer: 3
Kind Code: 8
Kind: Untested
Water Found Depth: 133.0
Water Found Depth UOM: ft

Water Details

Water ID: 1005581253
Layer: 2
Kind Code: 8
Kind: Untested
Water Found Depth: 120.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1005581250
Diameter: 9.75
Depth From: 0.0
Depth To: 28.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1005581251
Diameter: 5.9375
Depth From: 28.0
Depth To: 140.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

17	*1 of 1*	*E/129.4*	*86.9 / 0.50*	*lot 4 ON*	*WWIS*

Well ID:	1517651	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/15/1981
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1558
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	004
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1517651.pdf

Additional Detail(s) (Map)

Well Completed Date:	1981/06/29
Year Completed:	1981
Depth (m):	14.6304
Latitude:	45.2200858920087
Longitude:	-75.6746681440371
Path:	151\1517651.pdf

Bore Hole Information

Bore Hole ID:	10039523	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	447029.80
Code OB Desc:		***North83:***	5007621.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	29-Jun-1981 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931035866
Layer:	3
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	

Mat3 Desc:
Formation Top Depth: 20.0
Formation End Depth: 25.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931035865
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 14.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931035867
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 25.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931035864
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: 14.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961517651
Method Construction Code: 5
Method Construction: Air Percussion

Other Method Construction:

Pipe Information

Pipe ID:	10588093
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930069102
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	26.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930069103
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	48.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991517651
Pump Set At:	
Static Level:	5.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	30.0
Pumping Rate:	30.0
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:	934376069
Test Type:	Draw Down
Test Duration:	30
Test Level:	20.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 934102180
Test Type: Draw Down
Test Duration: 15
Test Level: 20.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934645904
Test Type: Draw Down
Test Duration: 45
Test Level: 20.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934895597
Test Type: Draw Down
Test Duration: 60
Test Level: 20.0
Test Level UOM: ft

Water Details

Water ID: 933474169
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

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18 | ***1 of 1*** | ***ENE/129.7*** | ***84.2 / -2.19*** | ***5647 HERWIG PLACE lot 9 MANOTICK ON*** | ***WWIS***

Well ID: 7108186
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z80734
Tag: A066480
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/15/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1119
Form Version: 7
Owner:
Street Name: 5647 HERWIG PLACE
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot: 009
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7108186.pdf

Additional Detail(s) (Map)

Well Completed Date: 2008/05/14
Year Completed: 2008

Depth (m):	42.97
Latitude:	45.2209654415459
Longitude:	-75.6751090555826
Path:	710\7108186.pdf

Bore Hole Information

Bore Hole ID:	1001658363	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446996.00
Code OB Desc:		**North83:**	5007719.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	14-May-2008 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1001782292
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	7.610000133514404
Formation End Depth:	35.959999084472656
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001782293
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	35.959999084472656
Formation End Depth:	42.970001220703125
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001782291
Layer:	1

Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 7.610000133514404
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001782295
Layer: 1
Plug From: 9.140000343322754
Plug To: 6.090000152587891
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001782296
Layer: 2
Plug From: 6.090000152587891
Plug To: 0.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001782327
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1001782289
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001782298
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 9.75
Depth To: 0.0
Casing Diameter: 0.15880000591278076
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001782299
Layer:

Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1001782290
Pump Set At: 36.56999969482422
Static Level: 3.200000047683716
Final Level After Pumping: 3.299999952316284
Recommended Pump Depth: 30.469999313354492
Pumping Rate: 91.0
Flowing Rate:
Recommended Pump Rate: 91.0
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1001782315
Test Type: Recovery
Test Duration: 20
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782300
Test Type: Draw Down
Test Duration: 1
Test Level: 3.2799999713897705
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782316
Test Type: Draw Down
Test Duration: 25
Test Level: 3.299999952316284
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782302
Test Type: Draw Down
Test Duration: 2
Test Level: 3.2799999713897705
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782317
Test Type: Recovery
Test Duration: 25
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782306
Test Type: Draw Down
Test Duration: 4
Test Level: 3.2799999713897705
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782310
Test Type: Draw Down
Test Duration: 10
Test Level: 3.2799999713897705
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782312
Test Type: Draw Down
Test Duration: 15
Test Level: 3.2899999618530273
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782301
Test Type: Recovery
Test Duration: 1
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782304
Test Type: Draw Down
Test Duration: 3
Test Level: 3.2799999713897705
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782309
Test Type: Recovery
Test Duration: 5
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782314
Test Type: Draw Down
Test Duration: 20
Test Level: 3.299999952316284

Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782325
Test Type: Recovery
Test Duration: 60
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782313
Test Type: Recovery
Test Duration: 15
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782318
Test Type: Draw Down
Test Duration: 30
Test Level: 3.299999952316284
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782319
Test Type: Recovery
Test Duration: 30
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782320
Test Type: Draw Down
Test Duration: 40
Test Level: 3.299999952316284
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782322
Test Type: Draw Down
Test Duration: 50
Test Level: 3.299999952316284
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782308
Test Type: Draw Down
Test Duration: 5
Test Level: 3.2799999713897705
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782311
Test Type: Recovery
Test Duration: 10
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782323
Test Type: Recovery
Test Duration: 50
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782324
Test Type: Draw Down
Test Duration: 60
Test Level: 3.299999952316284
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782303
Test Type: Recovery
Test Duration: 2
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782305
Test Type: Recovery
Test Duration: 3
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782307
Test Type: Recovery
Test Duration: 4
Test Level: 3.200000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001782321
Test Type: Recovery
Test Duration: 40
Test Level: 3.200000047683716
Test Level UOM: m

Water Details

Water ID: 1001782297
Layer: 1
Kind Code: 8

Kind:	Untested
Water Found Depth:	40.22999954223633
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001782294
Diameter:	15.550000190734863
Depth From:	42.970001220703125
Depth To:	0.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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19 | **1 of 1** | **NE/131.0** | **84.9 / -1.45** | **lot 4 ON** | **WWIS**

Well ID:	1510132	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/28/1969
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1802
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510132.pdf

Additional Detail(s) (Map)

Well Completed Date:	1969/06/24
Year Completed:	1969
Depth (m):	29.8704
Latitude:	45.2211705657571
Longitude:	-75.6754324555289
Path:	151\1510132.pdf

Bore Hole Information

Bore Hole ID:	10032162	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446970.80
Code OB Desc:		**North83:**	5007742.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	24-Jun-1969 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	931013991
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	62.0
Formation End Depth:	98.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931013990
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	62.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961510132
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10580732
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930056937
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	98.0
Casing Diameter:	

Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930056936
Layer:	1
Material:	2
Open Hole or Material:	GALVANIZED
Depth From:	
Depth To:	62.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991510132
Pump Set At:	
Static Level:	7.0
Final Level After Pumping:	21.0
Recommended Pump Depth:	24.0
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
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933465072
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	92.0
Water Found Depth UOM:	ft

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20 ***1 of 1*** ***ENE/131.9*** ***84.8 / -1.53*** ***5649 HERWING PLACE MANOTICK ON*** ***WWIS***

Well ID:	7243009	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	6/15/2015
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z191410	***Owner:***	
Tag:	A144856	***Street Name:***	5649 HERWING PLACE
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	LOT 10 & 11
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	

Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/724\7243009.pdf

Additional Detail(s) (Map)

Well Completed Date: 2015/04/15
Year Completed: 2015
Depth (m): 42.672
Latitude: 45.220750924129
Longitude: -75.6748517787417
Path: 724\7243009.pdf

Bore Hole Information

Bore Hole ID: 1005408893
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 15-Apr-2015 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 18
East83: 447016.00
North83: 5007695.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1005581333
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 122.0
Formation End Depth: 134.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005581334
Layer: 5
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:

Mat3:
Mat3 Desc:
Formation Top Depth: 134.0
Formation End Depth: 140.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005581330
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 13
Mat3 Desc: BOULDERS
Formation Top Depth: 0.0
Formation End Depth: 22.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005581331
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 22.0
Formation End Depth: 65.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005581332
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 65.0
Formation End Depth: 122.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005581371
Layer: 1

Plug From: 28.0
Plug To: 18.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005581372
Layer: 2
Plug From: 18.0
Plug To: 0.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1005581370
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1005581328
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005581340
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2.0
Depth To: 28.0
Casing Diameter: 6.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1005581341
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 28.0
Depth To: 140.0
Casing Diameter: 5.9375
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005581342
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft

Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1005581329
Pump Set At: 120.0
Static Level: 12.420000076293945
Final Level After Pumping: 12.5
Recommended Pump Depth: 100.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 20.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1005581344
Test Type: Recovery
Test Duration: 1
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581346
Test Type: Recovery
Test Duration: 2
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581349
Test Type: Draw Down
Test Duration: 4
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581350
Test Type: Recovery
Test Duration: 4
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581355
Test Type: Draw Down
Test Duration: 15
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581362
Test Type: Recovery
Test Duration: 30
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581364
Test Type: Recovery
Test Duration: 40
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581343
Test Type: Draw Down
Test Duration: 1
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581357
Test Type: Draw Down
Test Duration: 20
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581363
Test Type: Draw Down
Test Duration: 40
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581365
Test Type: Draw Down
Test Duration: 50
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581366
Test Type: Recovery
Test Duration: 50
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581351
Test Type: Draw Down
Test Duration: 5
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581354
Test Type: Recovery
Test Duration: 10
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581359
Test Type: Draw Down
Test Duration: 25
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581368
Test Type: Recovery
Test Duration: 60
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581348
Test Type: Recovery
Test Duration: 3
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581353
Test Type: Draw Down
Test Duration: 10
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581358
Test Type: Recovery
Test Duration: 20
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581360
Test Type: Recovery
Test Duration: 25
Test Level: 12.416999816894531

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581352
Test Type: Recovery
Test Duration: 5
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581356
Test Type: Recovery
Test Duration: 15
Test Level: 12.416999816894531
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581361
Test Type: Draw Down
Test Duration: 30
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581345
Test Type: Draw Down
Test Duration: 2
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581347
Test Type: Draw Down
Test Duration: 3
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005581367
Test Type: Draw Down
Test Duration: 60
Test Level: 12.5
Test Level UOM: ft

Water Details

Water ID: 1005581337
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 65.0
Water Found Depth UOM: ft

Water Details

Water ID:	1005581338
Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	122.0
Water Found Depth UOM:	ft

Water Details

Water ID:	1005581339
Layer:	3
Kind Code:	8
Kind:	Untested
Water Found Depth:	134.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005581335
Diameter:	9.75
Depth From:	0.0
Depth To:	28.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1005581336
Diameter:	5.9375
Depth From:	28.0
Depth To:	140.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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21 ***1 of 1*** ***ENE/139.3*** ***84.8 / -1.53*** ***5649 HERWIG PLACE MANOTICK ON*** ***WWIS***

Well ID:	7242995	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	6/15/2015
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z191412	***Owner:***	
Tag:		***Street Name:***	5649 HERWIG PLACE
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	LOT 10 & 11
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/724\7242995.pdf

Additional Detail(s) (Map)

Well Completed Date:	2015/04/22
Year Completed:	2015
Depth (m):	
Latitude:	45.2207246737694
Longitude:	-75.6747240992347
Path:	724\7242995.pdf

Bore Hole Information

Bore Hole ID:	1005408851	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	447026.00
Code OB Desc:		***North83:***	5007692.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	22-Apr-2015 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1005575111
Layer:	2
Plug From:	4.0
Plug To:	0.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005575109
Layer:	1
Plug From:	0.0
Plug To:	39.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005575110
Layer:	1
Plug From:	39.0
Plug To:	4.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005575108
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1005575102
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005575106
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1005575107
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1005575105
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005575104
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

22	***1 of 1***	***E/141.4***	***85.5 / -0.89***	***5659 MANOTICK MAIN ST lot 4 con A MANOTICK ON***	***WWIS***

Well ID:	7321150	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	10/29/2018
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z276740	***Owner:***	
Tag:	A252839	***Street Name:***	5659 MANOTICK MAIN ST

Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	A
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/732\7321150.pdf

Additional Detail(s) (Map)

Well Completed Date:	2018/08/22
Year Completed:	2018
Depth (m):	36.576
Latitude:	45.2203387612615
Longitude:	-75.6745284824787
Path:	732\7321150.pdf

Bore Hole Information

Bore Hole ID:	1007302654	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	447041.00
Code OB Desc:		**North83:**	5007649.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	22-Aug-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007581797
Layer:	1
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	01
Mat2 Desc:	FILL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007581798

Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 120.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007581835
Layer: 2
Plug From: 28.0
Plug To: 38.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007581834
Layer: 1
Plug From: 0.0
Plug To: 28.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007581833
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1007581795
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007581804
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 38.0
Depth To: 120.0
Casing Diameter: 6.125
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1007581803

Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2.0
Depth To: 38.0
Casing Diameter: 6.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007581805
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1007581796
Pump Set At: 100.0
Static Level: 22.899999618530273
Final Level After Pumping: 30.899999618530273
Recommended Pump Depth: 100.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 20.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1007581818
Test Type: Draw Down
Test Duration: 15
Test Level: 30.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581831
Test Type: Recovery
Test Duration: 60
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581816
Test Type: Draw Down
Test Duration: 10
Test Level: 30.399999618530273

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581820
Test Type: Draw Down
Test Duration: 20
Test Level: 30.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581829
Test Type: Recovery
Test Duration: 50
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581819
Test Type: Recovery
Test Duration: 15
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581827
Test Type: Recovery
Test Duration: 40
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581828
Test Type: Draw Down
Test Duration: 50
Test Level: 30.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581814
Test Type: Draw Down
Test Duration: 5
Test Level: 30.200000762939453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581822
Test Type: Draw Down
Test Duration: 25
Test Level: 30.799999237060547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581823
Test Type: Recovery
Test Duration: 25
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581807
Test Type: Recovery
Test Duration: 1
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581808
Test Type: Draw Down
Test Duration: 2
Test Level: 29.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581811
Test Type: Recovery
Test Duration: 3
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581809
Test Type: Recovery
Test Duration: 2
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581812
Test Type: Draw Down
Test Duration: 4
Test Level: 30.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581815
Test Type: Recovery
Test Duration: 5
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581810
Test Type: Draw Down
Test Duration: 3

Test Level: 29.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581817
Test Type: Recovery
Test Duration: 10
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581821
Test Type: Recovery
Test Duration: 20
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581825
Test Type: Recovery
Test Duration: 30
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581830
Test Type: Draw Down
Test Duration: 60
Test Level: 30.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581806
Test Type: Draw Down
Test Duration: 1
Test Level: 28.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581813
Test Type: Recovery
Test Duration: 4
Test Level: 22.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007581824
Test Type: Draw Down
Test Duration: 30
Test Level: 30.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1007581826
Test Type:	Draw Down
Test Duration:	40
Test Level:	30.899999618530273
Test Level UOM:	ft

Water Details

Water ID:	1007581801
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	100.0
Water Found Depth UOM:	ft

Water Details

Water ID:	1007581802
Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	114.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1007581800
Diameter:	6.125
Depth From:	38.0
Depth To:	120.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1007581799
Diameter:	9.75
Depth From:	0.0
Depth To:	38.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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23 ***1 of 1*** ***E/147.7*** ***85.5 / -0.89*** ***5659 MANOTICK MAIN ST MANOTICK ON*** ***WWIS***

Well ID:	7321066	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	10/29/2018
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Abandoned-Supply	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z276739	***Owner:***	
Tag:		***Street Name:***	5659 MANOTICK MAIN ST
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/732\7321066.pdf

Additional Detail(s) (Map)

Well Completed Date: 2018/08/20
Year Completed: 2018
Depth (m):
Latitude: 45.220501004078
Longitude: -75.6744921904158
Path: 732\7321066.pdf

Bore Hole Information

Bore Hole ID: 1007303261
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 20-Aug-2018 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 18
East83: 447044.00
North83: 5007667.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1007579218
Layer:
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007579224
Layer: 1
Plug From: 0.0
Plug To: 5.0
Plug Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID:	1007579225
Layer:	2
Plug From:	5.0
Plug To:	45.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1007579223
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1007579217
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1007579221
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1007579222
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1007579220
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1007579219
Diameter:	
Depth From:	

Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

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24 | **1 of 1** | **SSE/152.7** | **89.8 / 3.47** | **lot 4 ON** | **WWIS**

Well ID:	1506495	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	4/1/1952
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3725
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506495.pdf

Additional Detail(s) (Map)

Well Completed Date: 1951/11/20
Year Completed: 1951
Depth (m): 19.5072
Latitude: 45.2186011497757
Longitude: -75.6761025366878
Path: 150\1506495.pdf

Bore Hole Information

Bore Hole ID:	10028531	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446915.80
Code OB Desc:		**North83:**	5007457.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	20-Nov-1951 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 931004665
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: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004666
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 64.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506495
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577101
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049802
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 64.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049801
Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:	
Depth To:	36.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991506495
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933460646
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	40.0
Water Found Depth UOM:	ft

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25 ***1 of 1*** ***E/155.9*** ***85.3 / -1.10*** ***lot 4 ON*** ***WWIS***

Well ID:	1506494	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	12/7/1949
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3601
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	004
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506494.pdf

Additional Detail(s) (Map)

Well Completed Date:	1949/10/04
Year Completed:	1949
Depth (m):	8.5344
Latitude:	45.2203218724587
Longitude:	-75.6743397780562
Path:	150\1506494.pdf

Bore Hole Information

Bore Hole ID:	10028530	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	447055.80
Code OB Desc:		***North83:***	5007647.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	04-Oct-1949 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931004663
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:	24.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004664
Layer:	2
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	24.0
Formation End Depth:	28.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961506494
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10577100
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930049800
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	28.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991506494
Pump Set At:	
Static Level:	2.0
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:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933460645
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	28.0
Water Found Depth UOM:	ft

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26 | ***1 of 12*** | ***ESE/160.6*** | ***89.6 / 3.20*** | ***City of ottawa***
5669 Rideau Valley Drive North
Ottawa ON | ***GEN***

Generator No:	ON1549684	***Status:***	
SIC Code:	913140	***Co Admin:***	
SIC Description:	Municipal Fire-Fighting Services	***Choice of Contact:***	
Approval Years:	03,04,05,06,07,08	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

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

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 254
Waste Class Desc: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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26 ***2 of 12*** ***ESE/160.6*** ***89.6 / 3.20*** ***City of ottawa***
5669 Rideau Valley Drive North
Ottawa ON ***GEN***

Generator No: ON1549684
SIC Code: 913140
SIC Description: Municipal Fire-Fighting Services
Approval Years: 2009
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

---

26 ***3 of 12*** ***ESE/160.6*** ***89.6 / 3.20*** ***City of ottawa***
5669 Rideau Valley Drive North
Ottawa ON ***GEN***

Generator No: ON1549684
SIC Code: 913140
SIC Description: Municipal Fire-Fighting Services
Approval Years: 2010
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

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26 ***4 of 12*** ***ESE/160.6*** ***89.6 / 3.20*** ***City of ottawa***
5669 Rideau Valley Drive North
Ottawa ON ***GEN***

Generator No: ON1549684
SIC Code: 913140
SIC Description: Municipal Fire-Fighting Services
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	5 of 12	ESE/160.6	89.6 / 3.20	City of ottawa 5669 Rideau Valley Drive North Ottawa ON	GEN

Generator No: ON1549684
SIC Code: 913140
SIC Description: Municipal Fire-Fighting Services
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	6 of 12	ESE/160.6	89.6 / 3.20	City of ottawa 5669 Rideau Valley Drive North Ottawa ON	GEN

Generator No: ON1549684
SIC Code: 913140
SIC Description:
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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	7 of 12	ESE/160.6	89.6 / 3.20	City of ottawa 5669 Rideau Valley Drive North Ottawa ON K4M 1C8	GEN

Generator No: ON1549684
SIC Code: 913140
SIC Description: 913140
Approval Years: 2016
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	8 of 12	ESE/160.6	89.6 / 3.20	City of ottawa 5669 Rideau Valley Drive North Ottawa ON K4M 1C8	GEN

Generator No: ON1549684
SIC Code: 913140
SIC Description: 913140
Approval Years: 2015
PO Box No:
Country: Canada

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

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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26 | ***9 of 12*** | ***ESE/160.6*** | ***89.6 / 3.20*** | ***City of ottawa*** ***5669 Rideau Valley Drive North*** ***Ottawa ON K4M 1C8*** | ***GEN***

Generator No:	ON1549684	***Status:***	
SIC Code:	913140	***Co Admin:***	
SIC Description:	913140	***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: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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26 | ***10 of 12*** | ***ESE/160.6*** | ***89.6 / 3.20*** | ***City of ottawa RPAM*** ***5669 Rideau Valley Drive North*** ***Ottawa ON K4M 1C8*** | ***GEN***

Generator No:	ON1549684	***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: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

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26 | ***11 of 12*** | ***ESE/160.6*** | ***89.6 / 3.20*** | ***City of ottawa RPAM*** ***5669 Rideau Valley Drive North*** ***Ottawa ON K4M 1C8*** | ***GEN***

Generator No:	ON1549684	***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: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

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26 | ***12 of 12*** | ***ESE/160.6*** | ***89.6 / 3.20*** | ***City of ottawa RPAM*** ***5669 Rideau Valley Drive North*** ***Ottawa ON K4M 1C8*** | ***GEN***

Generator No:	ON1549684	***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:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)

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27 | **1 of 1** | **WSW/168.6** | **84.9 / -1.50** | **POTTER DR + MANOTIC MAIN ST lot 4 con A MANOTICK ON** | **WWIS**

Well ID:	7181760	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring and Test Hole	**Date Received:**	5/29/2012
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	4875
Casing Material:		**Form Version:**	7
Audit No:	Z133017	**Owner:**	
Tag:		**Street Name:**	POTTER DR + MANOTIC MAIN ST
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	A
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7181760.pdf

Additional Detail(s) (Map)

Well Completed Date:	2012/03/23
Year Completed:	2012
Depth (m):	14.5
Latitude:	45.2188911061047
Longitude:	-75.6788162973326
Path:	718\7181760.pdf

Bore Hole Information

Bore Hole ID:	1003809905	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446703.00
Code OB Desc:		**North83:**	5007491.00
Open Hole:		**Org CS:**	MTM09
Cluster Kind:		**UTMRC:**	4
Date Completed:	23-Mar-2012 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004325896
Layer:	3
Color:	2
General Color:	GREY
Mat1:	16
Most Common Material:	DOLOMITE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	11.069999694824219
Formation End Depth:	14.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004325895
Layer:	2
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	7.630000114440918
Formation End Depth:	11.069999694824219
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004325894
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	7.630000114440918
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004325911
Layer:	1
Plug From:	0.0
Plug To:	11.430000305175781
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID: 1004325912
Layer: 2
Plug From: 4.269999980926514
Plug To: 14.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004325910
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1004325892
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004325900
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.46000000834465027
Depth To: 11.430000305175781
Casing Diameter: 15.880000114440918
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004325901
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1004325893
Pump Set At:
Static Level: 2.880000114440918
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: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:

Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1004325902
Test Type: Draw Down
Test Duration: 17
Test Level: 3.049999952316284
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325906
Test Type: Draw Down
Test Duration: 62
Test Level: 3.1150000095367 43
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325903
Test Type: Recovery
Test Duration: 17
Test Level: 2.9700000286102295
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325905
Test Type: Draw Down
Test Duration: 46
Test Level: 3.0999999046325684
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325904
Test Type: Draw Down
Test Duration: 32
Test Level: 3.0899999141693115
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325907
Test Type: Recovery
Test Duration: 62
Test Level: 2.859999895095825
Test Level UOM: m

Water Details

Water ID: 1004325899
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 12.899999618530273
Water Found Depth UOM: m

Hole Diameter

Hole ID:	1004325897
Diameter:	15.399999618530273
Depth From:	11.430000305175781
Depth To:	14.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004325898
Diameter:	22.959999084472656
Depth From:	0.0
Depth To:	11.430000305175781
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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28 ***1 of 1*** ***ESE/169.5*** ***89.9 / 3.50*** ***lot 4 ON*** ***WWIS***

Well ID:	1518656	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	11/8/1983
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3644
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	004
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1518656.pdf

Additional Detail(s) (Map)

Well Completed Date:	1983/10/19
Year Completed:	1983
Depth (m):	13.1064
Latitude:	45.2191857965719
Longitude:	-75.6746574988643
Path:	151\1518656.pdf

Bore Hole Information

Bore Hole ID:	10040526	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	447029.80
Code OB Desc:		***North83:***	5007521.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9

Date Completed: 19-Oct-1983 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: unknown UTM
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 931039105
Layer: 3
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: 43.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931039104
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 32.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931039103
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961518656
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10589096
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930070748
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 43.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930070747
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 34.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991518656
Pump Set At:
Static Level: 11.0
Final Level After Pumping: 30.0
Recommended Pump Depth: 30.0
Pumping Rate: 30.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934103968
Test Type: Draw Down
Test Duration: 15
Test Level: 30.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649954
Test Type: Draw Down
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934899493
Test Type: Draw Down
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934379973
Test Type: Draw Down
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Water Details

Water ID: 933475422
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 37.0
Water Found Depth UOM: ft

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29 ***1 of 1*** ***SE/173.8*** ***91.1 / 4.67*** ***ON*** ***BORE***

Borehole ID: 611772
OGF ID: 215513086
Status:
Type: Borehole
Use:
Completion Date:
Static Water Level: 1.5
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 93
Elev Reliabil Note:
DEM Ground Elev m: 92.2
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.218831
Longitude DD: -75.67515
UTM Zone: 18
Easting: 446991
Northing: 5007482
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID:	218389164	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	9.1	**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:	218389166	**Mat Consistency:**	
Top Depth:	9.1	**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,LIMESTONE. Y = 3700. BEDROCK. SEISMIC VELOCITY = 15000. BEDROCK. SEISMIC VELOCIT **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218389165	**Mat Consistency:**	
Top Depth:	9.1	**Material Moisture:**	
Bottom Depth:	9.1	**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. WATER STABLE AT 300.0 FEET.		

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:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 042800 NTS_Sheet: 31G04G		
Confiden 1:	Reliable information but incomplete.		

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		

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30 | ***1 of 1*** | ***E/179.3*** | ***84.8 / -1.61*** | ***lot 4 ON*** | ***WWIS***

Well ID:	1513374	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	8/13/1973
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558

Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	004
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513374.pdf

Additional Detail(s) (Map)

Well Completed Date:	1973/06/05
Year Completed:	1973
Depth (m):	11.8872
Latitude:	45.2203686064375
Longitude:	-75.674047383753
Path:	151\1513374.pdf

Bore Hole Information

Bore Hole ID:	10035360	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	447078.80
Code OB Desc:		***North83:***	5007652.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	05-Jun-1973 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931023199
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931023200
Layer:	3
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023198
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
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:	931023201
Layer:	4
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30.0
Formation End Depth:	39.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961513374
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10583930
Casing No:	1

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930062623
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	37.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930062624
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	39.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991513374
Pump Set At:	
Static Level:	5.0
Final Level After Pumping:	30.0
Recommended Pump Depth:	30.0
Pumping Rate:	10.0
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:	934639595
Test Type:	Draw Down
Test Duration:	45
Test Level:	30.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934099208
Test Type:	Draw Down
Test Duration:	15
Test Level:	30.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934378600
Test Type:	Draw Down
Test Duration:	30
Test Level:	30.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934897066
Test Type:	Draw Down
Test Duration:	60
Test Level:	30.0
Test Level UOM:	ft

Water Details

Water ID:	933468913
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	38.0
Water Found Depth UOM:	ft

31 ***1 of 1*** ***SW/186.2*** ***85.0 / -1.36*** ***POTTER DR + HANOTICK MAIN ST lot 4 con A MANOTICK ON*** ***WWIS***

Well ID:	7181759	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Test Hole	***Date Received:***	5/29/2012
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	4875
Casing Material:		***Form Version:***	7
Audit No:	Z133016	***Owner:***	
Tag:		***Street Name:***	POTTER DR + HANOTICK MAIN ST
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	004
Well Depth:		***Concession:***	A
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7181759.pdf

Additional Detail(s) (Map)

Well Completed Date:	2012/03/23
Year Completed:	2012
Depth (m):	38
Latitude:	45.2187016319953
Longitude:	-75.6788904614109
Path:	718\7181759.pdf

Bore Hole Information

Bore Hole ID:	1003809880	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446697.00
Code OB Desc:		**North83:**	5007470.00
Open Hole:		**Org CS:**	MTM09
Cluster Kind:		**UTMRC:**	4
Date Completed:	23-Mar-2012 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004325853
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	7.630000114440918
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004325854
Layer:	2
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	7.630000114440918
Formation End Depth:	11.140000343322754
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004325856
Layer:	4
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	

Mat3 Desc:
Formation Top Depth: 11.600000381469727
Formation End Depth: 38.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004325855
Layer: 3
Color: 2
General Color: GREY
Mat1: 16
Most Common Material: DOLOMITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 11.140000343322754
Formation End Depth: 11.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004325890
Layer: 1
Plug From: 0.0
Plug To: 11.279999732971191
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004325891
Layer: 2
Plug From: 4.880000114440918
Plug To: 11.600000381469727
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004325889
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1004325851
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004325860
Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:	-0.5099999904632568
Depth To:	11.279999732971191
Casing Diameter:	15.880000114440918
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004325861
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1004325852
Pump Set At:	13.420000076293945
Static Level:	2.9100000858306885
Final Level After Pumping:	3.2899999618530273
Recommended Pump Depth:	
Pumping Rate:	4.510000228881836
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	0
Pumping Duration HR:	2
Pumping Duration MIN:	
Flowing:	

Draw Down & Recovery

Pump Test Detail ID:	1004325862
Test Type:	Draw Down
Test Duration:	1
Test Level:	3.049999952316284
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1004325868
Test Type:	Draw Down
Test Duration:	4
Test Level:	3.0999999046325684
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1004325879
Test Type:	Recovery
Test Duration:	25
Test Level:	3.0
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID: 1004325880
Test Type: Draw Down
Test Duration: 30
Test Level: 3.2300000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325882
Test Type: Draw Down
Test Duration: 40
Test Level: 3.240000009536743
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325884
Test Type: Draw Down
Test Duration: 50
Test Level: 3.259999990463257
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325873
Test Type: Recovery
Test Duration: 10
Test Level: 3.069999933242798
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325883
Test Type: Recovery
Test Duration: 40
Test Level: 2.9600000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325872
Test Type: Draw Down
Test Duration: 10
Test Level: 3.1500000953674316
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325874
Test Type: Draw Down
Test Duration: 15
Test Level: 3.1700000762939453
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325877
Test Type: Recovery

Test Duration: 20
Test Level: 3.0199999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325878
Test Type: Draw Down
Test Duration: 25
Test Level: 3.2100000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325866
Test Type: Draw Down
Test Duration: 3
Test Level: 3.0799999237060547
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325864
Test Type: Draw Down
Test Duration: 2
Test Level: 3.069999933242798
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325870
Test Type: Draw Down
Test Duration: 5
Test Level: 3.109999895095825
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325871
Test Type: Recovery
Test Duration: 5
Test Level: 3.109999895095825
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325876
Test Type: Draw Down
Test Duration: 20
Test Level: 3.190000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325885
Test Type: Recovery
Test Duration: 50
Test Level: 2.950000047683716
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325867
Test Type: Recovery
Test Duration: 3
Test Level: 3.130000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325875
Test Type: Recovery
Test Duration: 15
Test Level: 3.0399999618530273
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325881
Test Type: Recovery
Test Duration: 30
Test Level: 2.9800000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325887
Test Type: Recovery
Test Duration: 60
Test Level: 2.940000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325863
Test Type: Recovery
Test Duration: 1
Test Level: 3.1700000762939453
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325865
Test Type: Recovery
Test Duration: 2
Test Level: 3.1500000953674316
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325869
Test Type: Recovery
Test Duration: 4
Test Level: 3.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1004325886

Test Type:	Draw Down
Test Duration:	60
Test Level:	3.2699999809265137
Test Level UOM:	m

Water Details

Water ID:	1004325859
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	11.399999618530273
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004325858
Diameter:	22.860000610351562
Depth From:	0.0
Depth To:	11.279999732971191
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004325857
Diameter:	15.239999771118164
Depth From:	11.279999732971191
Depth To:	11.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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32 | ***1 of 1*** | ***WNW/192.9*** | ***85.0 / -1.41*** | ***lot 3 ON*** | ***WWIS***

Well ID:	1506487	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	2/9/1953
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3601
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	003
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506487.pdf

Additional Detail(s) (Map)

Well Completed Date:	1952/12/13
Year Completed:	1952

Depth (m):	12.8016
Latitude:	45.2214636956286
Longitude:	-75.679129673955
Path:	150\1506487.pdf

Bore Hole Information

Bore Hole ID:	10028523	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446680.80
Code OB Desc:		**North83:**	5007777.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	13-Dec-1952 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931004649
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30.0
Formation End Depth:	42.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004648
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:	30.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961506487
Method Construction Code:	1

Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577093
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049787
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 30.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049788
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 42.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506487
Pump Set At:
Static Level: 3.0
Final Level After Pumping: 3.0
Recommended Pump Depth:
Pumping Rate: 3.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933460638
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Water Details

Water ID:	933460636
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	25.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933460637
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	35.0
Water Found Depth UOM:	ft

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33 | ***1 of 1*** | ***WNW/200.4*** | ***85.0 / -1.41*** | ***lot 3 ON*** | ***WWIS***

Well ID:	1506489	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	12/13/1954
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1802
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	003
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506489.pdf

Additional Detail(s) (Map)

Well Completed Date:	1954/11/22
Year Completed:	1954
Depth (m):	29.5656
Latitude:	45.2215537050595
Longitude:	-75.6791307455908
Path:	150\1506489.pdf

Bore Hole Information

Bore Hole ID:	10028525	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	446680.80
Code OB Desc:		***North83:***	5007787.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9

Date Completed: 22-Nov-1954 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: unknown UTM
Location Method: p9

Overburden and Bedrock Materials Interval

Formation ID: 931004652
Layer: 1
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: 25.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004653
Layer: 2
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 25.0
Formation End Depth: 44.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004654
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 44.0
Formation End Depth: 97.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506489
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10577095
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049792
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 97.0
Casing Diameter: 3.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049791
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 44.0
Casing Diameter: 3.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506489
Pump Set At:
Static Level: 28.0
Final Level After Pumping: 35.0
Recommended Pump Depth:
Pumping Rate: 7.0
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: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933460640
Layer: 1
Kind Code: 1
Kind: FRESH

Water Found Depth: 96.0
Water Found Depth UOM: ft

---

34 | **1 of 1** | **E/202.3** | **88.5 / 2.14** | **lot 4 ON** | **WWIS**

Well ID: 1506504
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/5/1958
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3601
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot: 004
Concession:
Concession Name: BF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506504.pdf

Additional Detail(s) (Map)

Well Completed Date: 1958/07/14
Year Completed: 1958
Depth (m): 18.288
Latitude: 45.2196948124195
Longitude: -75.6738228988797
Path: 150\1506504.pdf

Bore Hole Information

Bore Hole ID: 10028540
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 14-Jul-1958 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 447095.80
North83: 5007577.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Overburden and Bedrock Materials Interval

Formation ID: 931004687
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: 31.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931004688
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 31.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506504
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577110
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049819
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 31.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049820
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:

Depth To:	60.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991506504
Pump Set At:	
Static Level:	12.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	
Pumping Rate:	5.0
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:	933460655
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	58.0
Water Found Depth UOM:	ft

---

35 ***1 of 1*** ***E/202.4*** ***88.5 / 2.14*** ***ON*** ***BORE***

Borehole ID:	611776	**Inclin FLG:**	No
OGF ID:	215513090	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	JUL-1958	**Municipality:**	
Static Water Level:	72.2	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.219694
Total Depth m:	18.3	**Longitude DD:**	-75.673823
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	447096
Drill Method:		**Northing:**	5007577
Orig Ground Elev m:	89.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	90.1		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218389174	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	9.4	**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:	218389175	**Mat Consistency:**	
Top Depth:	9.4	**Material Moisture:**	
Bottom Depth:	18.3	**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:			
Stratum Description:	LIMESTONE. GREY. 00058FEET.GRAVEL. NE. Y = 3700. BEDROCK. SEISMIC VELOCITY = 15000 **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: OTTAWA1.txt RecordID: 04284 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		

36 | ***1 of 1*** | ***ESE/212.4*** | ***91.3 / 4.88*** | ***5676 RIDEAU VALLEY DR. lot 4 con A MANOTICK ON*** | ***WWIS***

Well ID:	7173907	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	12/23/2011
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z137080	**Owner:**	
Tag:		**Street Name:**	5676 RIDEAU VALLEY DR.
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	A
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/717\7173907.pdf

Additional Detail(s) (Map)

Well Completed Date: 2011/11/07
Year Completed: 2011
Depth (m):
Latitude: 45.2189543438589
Longitude: -75.6742191733222
Path: 717\7173907.pdf

Bore Hole Information

Bore Hole ID: 1003625246
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 07-Nov-2011 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 447064.00
North83: 5007495.00
Org CS: UTM83
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: wwr

Annular Space/Abandonment Sealing Record

Plug ID: 1004093144
Layer: 2
Plug From: 18.0
Plug To: 11.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004093145
Layer: 3
Plug From: 11.0
Plug To: 10.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004093143
Layer: 1
Plug From: 21.0
Plug To: 18.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004093146

Layer: 4
Plug From: 10.0
Plug To: 8.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004093147
Layer: 5
Plug From: 8.0
Plug To: 0.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004093142
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1004093136
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004093140
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004093141
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Water Details

Water ID: 1004093139
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID:	1004093138
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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37 ***1 of 1*** ***ENE/223.7*** ***86.8 / 0.42*** ***ON*** ***BORE***

Borehole ID:	611784	***Inclin FLG:***	No
OGF ID:	215513097	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:	OCT-1969	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	45.221537
Total Depth m:	22.3	***Longitude DD:***	-75.674227
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	447066
Drill Method:		***Northing:***	5007782
Orig Ground Elev m:	61	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	86.1		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218389196	***Mat Consistency:***	
Top Depth:	6.1	***Material Moisture:***	
Bottom Depth:	6.4	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SAND,GRAVEL. GREY.		

Geology Stratum ID:	218389195	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	6.1	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Boulders	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	CLAY,BOULDERS. GREY.		

Geology Stratum ID:	218389197	***Mat Consistency:***	
Top Depth:	6.4	***Material Moisture:***	
Bottom Depth:	22.3	***Material Texture:***	
Material Color:	Black	***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. BLACK. 00071EY. 00227E. GREY. 00075TY = 18000. BEDROCK. SEISMIC VELOCI **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: OTTAWA1.txt RecordID: 04292 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		

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38 ***1 of 1*** ***ENE/223.8*** ***86.8 / 0.42*** ***ON*** ***WWIS***

Well ID:	1510424	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	12/29/1969
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1503
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	OSGOODE TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	LI
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510424.pdf

Additional Detail(s) (Map)

Well Completed Date:	1969/10/31
Year Completed:	1969
Depth (m):	22.2504
Latitude:	45.2215377530539
Longitude:	-75.6742267810806
Path:	151\1510424.pdf

Bore Hole Information

Bore Hole ID:	10032452	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	447065.80
Code OB Desc:		***North83:***	5007782.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	31-Oct-1969 00:00:00	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931014853
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931014854
Layer:	2
Color:	2
General Color:	GREY
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20.0
Formation End Depth:	21.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931014855
Layer:	3
Color:	8
General Color:	BLACK
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	

Mat3:
Mat3 Desc:
Formation Top Depth: 21.0
Formation End Depth: 73.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961510424
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10581022
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930057494
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 73.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930057493
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 24.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991510424
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 30.0
Recommended Pump Depth: 50.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0

Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934897476
Test Type: Draw Down
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934096937
Test Type: Draw Down
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934378420
Test Type: Draw Down
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934640553
Test Type: Draw Down
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Water Details

Water ID: 933465409
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 71.0
Water Found Depth UOM: ft

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39 | ***1 of 1*** | ***ESE/225.5*** | ***92.1 / 5.69*** | ***lot 4 ON*** | ***WWIS***

Well ID: 1506506
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status:
Data Src: 1
Date Received: 6/27/1960
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1802
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NORTH GOWER TOWNSHIP
Site Info:
Lot: 004
Concession:
Concession Name: BF

Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506506.pdf

Additional Detail(s) (Map)

Well Completed Date:	1960/06/02
Year Completed:	1960
Depth (m):	31.3944
Latitude:	45.2187470812665
Longitude:	-75.6742574804221
Path:	150\1506506.pdf

Bore Hole Information

Bore Hole ID:	10028542	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	447060.80
Code OB Desc:		**North83:**	5007472.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	02-Jun-1960 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931004694
Layer:	3
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	40.0
Formation End Depth:	103.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004693
Layer:	2
Color:	
General Color:	
Mat1:	13
Most Common Material:	BOULDERS
Mat2:	11

Mat2 Desc:	GRAVEL
Mat3:	05
Mat3 Desc:	CLAY
Formation Top Depth:	26.0
Formation End Depth:	40.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004692
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	26.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961506506
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10577112
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930049824
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	103.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930049823
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	46.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991506506
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	35.0
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:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933460657
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	100.0
Water Found Depth UOM:	ft

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40 ***1 of 1*** ***E/226.0*** ***84.9 / -1.50*** ***lot 4 con A ON*** ***WWIS***

Well ID:	1533319	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	11/18/2002
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2558
Casing Material:		***Form Version:***	1
Audit No:	246350	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	004
Well Depth:		***Concession:***	A
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1533319.pdf

Additional Detail(s) (Map)

Well Completed Date:	2002/11/01
Year Completed:	2002
Depth (m):	24.384
Latitude:	45.2200571418035
Longitude:	-75.6734387080022

Path: 153\1533319.pdf

Bore Hole Information

Bore Hole ID:	10530066	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	447126.30
Code OB Desc:		***North83:***	5007617.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	01-Nov-2002 00:00:00	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932880782
Layer:	2
Color:	8
General Color:	BLACK
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	19.0
Formation End Depth:	80.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932880781
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	19.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933230382
Layer:	1
Plug From:	0.0
Plug To:	27.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961533319
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	11078636
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930096669
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991533319
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	
Recommended Pump Depth:	60.0
Pumping Rate:	15.0
Flowing Rate:	
Recommended Pump Rate:	7.0
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

Draw Down & Recovery

Pump Test Detail ID:	934119665
Test Type:	Draw Down
Test Duration:	15
Test Level:	10.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934664216
Test Type:	Draw Down
Test Duration:	45
Test Level:	10.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934912341
Test Type: Draw Down
Test Duration: 60
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934394517
Test Type: Draw Down
Test Duration: 30
Test Level: 10.0
Test Level UOM: ft

Water Details

Water ID: 934022738
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 74.0
Water Found Depth UOM: ft

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41 | ***1 of 1*** | ***NNE/226.9*** | ***89.5 / 3.14*** | ***ON*** | ***WWIS***

Well ID: 1510363
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 12/29/1969
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1503
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OSGOODE TOWNSHIP
Site Info:
Lot:
Concession:
Concession Name: LI
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510363.pdf

Additional Detail(s) (Map)

Well Completed Date: 1969/09/23
Year Completed: 1969
Depth (m): 25.908
Latitude: 45.2222503030717
Longitude: -75.6755089270735
Path: 151\1510363.pdf

Bore Hole Information

Bore Hole ID:	10032391	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	446965.80
Code OB Desc:		***North83:***	5007862.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	23-Sep-1969 00:00:00	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931014659
Layer:	1
Color:	2
General Color:	GREY
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	17.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931014660
Layer:	2
Color:	8
General Color:	BLACK
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	17.0
Formation End Depth:	85.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961510363
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID: 10580961
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930057374
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 85.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930057373
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 18.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991510363
Pump Set At:
Static Level: 8.0
Final Level After Pumping: 25.0
Recommended Pump Depth: 60.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933465339
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 83.0
Water Found Depth UOM: ft

42	1 of 1	NNE/233.3	89.5 / 3.15	5624 South River Drive MANOTICK ON	WWIS

Well ID: 7324272
Construction Date:
Data Entry Status:
Data Src:

Primary Water Use:	Domestic	**Date Received:**	12/11/2018
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z276769	**Owner:**	
Tag:	A252942	**Street Name:**	5624 South River Drive
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	OSGOODE TOWNSHIP
Elevation Reliability:		**Site Info:**	S/L 10
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/732\7324272.pdf

Additional Detail(s) (Map)

Well Completed Date:	2018/10/03
Year Completed:	2018
Depth (m):	41.148
Latitude:	45.2223664263818
Longitude:	-75.6756606019739
Path:	732\7324272.pdf

Bore Hole Information

Bore Hole ID:	1007323351	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	446954.00
Code OB Desc:		**North83:**	5007875.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	03-Oct-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007742522
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	50.0
Formation End Depth:	120.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007742521
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 21.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007742523
Layer: 4
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 120.0
Formation End Depth: 128.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007742520
Layer: 1
Color: 0
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 81
Mat3 Desc: SANDY
Formation Top Depth: 0.0
Formation End Depth: 21.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007742524
Layer: 5
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 128.0
Formation End Depth: 135.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007745929
Layer: 1
Plug From: 27.0
Plug To: 0.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007748811
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1007740448
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007749945
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2.0
Depth To: 27.0
Casing Diameter: 6.25
Casing Diameter UOM: Inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1007749946
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 27.0
Depth To: 135.0
Casing Diameter: 5.938000202178955
Casing Diameter UOM: Inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 1007752382
Pump Set At: 80.0
Static Level: 13.399999618530273

Final Level After Pumping: 15.199999809265137
Recommended Pump Depth: 100.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 20.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 3
Water State After Test: OTHER
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 1007759450
Test Type: Draw Down
Test Duration: 2
Test Level: 14.800000190734863
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759456
Test Type: Draw Down
Test Duration: 20
Test Level: 15.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759469
Test Type: Recovery
Test Duration: 20
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759458
Test Type: Draw Down
Test Duration: 30
Test Level: 15.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759461
Test Type: Draw Down
Test Duration: 60
Test Level: 15.199999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759462
Test Type: Recovery
Test Duration: 1
Test Level: 13.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759464
Test Type: Recovery
Test Duration: 3
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759451
Test Type: Draw Down
Test Duration: 3
Test Level: 14.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759453
Test Type: Draw Down
Test Duration: 5
Test Level: 15.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759467
Test Type: Recovery
Test Duration: 10
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759474
Test Type: Recovery
Test Duration: 60
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759454
Test Type: Draw Down
Test Duration: 10
Test Level: 15.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759449
Test Type: Draw Down
Test Duration: 1
Test Level: 14.699999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759455
Test Type: Draw Down
Test Duration: 15
Test Level: 15.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759460
Test Type: Draw Down
Test Duration: 50
Test Level: 15.199999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759472
Test Type: Recovery
Test Duration: 40
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759465
Test Type: Recovery
Test Duration: 4
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759452
Test Type: Draw Down
Test Duration: 4
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759457
Test Type: Draw Down
Test Duration: 25
Test Level: 15.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759466
Test Type: Recovery
Test Duration: 5
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759471
Test Type: Recovery
Test Duration: 30
Test Level: 13.399999618530273

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759459
Test Type: Draw Down
Test Duration: 40
Test Level: 15.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759463
Test Type: Recovery
Test Duration: 2
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759468
Test Type: Recovery
Test Duration: 15
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759470
Test Type: Recovery
Test Duration: 25
Test Level: 13.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007759473
Test Type: Recovery
Test Duration: 50
Test Level: 13.399999618530273
Test Level UOM: ft

Water Details

Water ID: 1007751342
Layer: 2
Kind Code: 8
Kind: Untested
Water Found Depth: 128.0
Water Found Depth UOM: ft

Water Details

Water ID: 1007751341
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 50.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID:	1007747303
Diameter:	5.938000202178955
Depth From:	27.0
Depth To:	135.0
Hole Depth UOM:	ft
Hole Diameter UOM:	Inch

Hole Diameter

Hole ID:	1007747302
Diameter:	9.75
Depth From:	0.0
Depth To:	27.0
Hole Depth UOM:	ft
Hole Diameter UOM:	Inch

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43 ***1 of 1*** ***NNE/237.3*** ***89.5 / 3.15*** ***5624 south river drive MANOTICK ON*** ***WWIS***

Well ID:	7324268	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	12/11/2018
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	Yes
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z276782	***Owner:***	
Tag:		***Street Name:***	5624 south river drive
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	OSGOODE TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2018/10/11
Year Completed:	2018
Depth (m):	
Latitude:	45.2223936552676
Longitude:	-75.6756227127056
Path:	

Bore Hole Information

Bore Hole ID:	1007323339	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	446957.00
Code OB Desc:		***North83:***	5007878.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4

Date Completed:	11-Oct-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1007727483
Layer:	1
Plug From:	
Plug To:	61.0
Plug Depth UOM:	m

Pipe Information

Pipe ID:	1007727340
Casing No:	0
Comment:	
Alt Name:	

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44 **1 of 1** **ESE/239.8** **92.6 / 6.19** **lot 4 ON** **WWIS**

Well ID:	1506508	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Livestock	**Date Received:**	11/30/1965
Sec. Water Use:	Domestic	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3601
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NORTH GOWER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506508.pdf

Additional Detail(s) (Map)

Well Completed Date:	1965/10/12
Year Completed:	1965
Depth (m):	32.9184
Latitude:	45.2187032041427
Longitude:	-75.6740659151704
Path:	150\1506508.pdf

Bore Hole Information

Bore Hole ID:	10028544	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	447075.80
Code OB Desc:		**North83:**	5007467.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	12-Oct-1965 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931004698
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:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004699
Layer:	2
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004700
Layer:	3
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	

Formation Top Depth: 30.0
Formation End Depth: 108.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506508
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10577114
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049827
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 30.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049828
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 108.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506508
Pump Set At:
Static Level: 38.0
Final Level After Pumping: 40.0
Recommended Pump Depth: 80.0
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate: 4.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID:	933460659
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	100.0
Water Found Depth UOM:	ft

45 | ***1 of 1*** | ***ESE/248.4*** | ***92.5 / 6.14*** | ***lot 4 ON*** | ***WWIS***

Well ID:	1506507	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	8/27/1963
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3113
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NORTH GOWER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	004
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506507.pdf

Additional Detail(s) (Map)

Well Completed Date:	1963/03/05
Year Completed:	1963
Depth (m):	21.9456
Latitude:	45.2187947167644
Longitude:	-75.6738122671879
Path:	150\1506507.pdf

Bore Hole Information

Bore Hole ID:	10028543	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	447095.80
Code OB Desc:		***North83:***	5007477.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	05-Mar-1963 00:00:00	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931004695
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:	15.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004696
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	45.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931004697
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	45.0
Formation End Depth:	72.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961506507
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10577113

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930049825
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 45.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930049826
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 72.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506507
Pump Set At:
Static Level: 30.0
Final Level After Pumping: 50.0
Recommended Pump Depth: 65.0
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: 933460658
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 72.0
Water Found Depth UOM: ft

Unplottable Summary

Total: 43 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Village Square Mall	Regional Road No. 13	Ottawa ON	
CA	City of Ottawa	Rideau Valley Drive	Ottawa ON	
CA	Minto Communities Inc.		Ottawa ON	
CA	PERCY STINSON C/O ENVIROPLAN LIMITED	POTTER DR. STINSON SUBD.	RIDEAU TWP. ON	
CA	GORDON SCHARF & IVY SCHARF ENVIROPLAN LT	POTTER DR.	RIDEAU TWP. ON	
CA	KIZELL ENTERPRISES LTD. MANOTICK ESTATES	N & S SIDE POTTER DR. PH. III	RIDEAU TWP. ON	
CA	LEIMERK FARMS LTD. C/O GINSBERG, GLUZMAN	POTTER DR. MANOTICK EST. PH.4	RIDEAU TWP. ON	
DTNK	595831 ONT INC	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA	ON	
DTNK	595831 ONT INC	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA	ON	
EBR	Minto Communities Inc.	Ottawa, Ontario CITY OF OTTAWA	ON	
EBR	Minto Communities		ON	
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.	Part of Lots 4 & 5, Concession A	Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6

ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
ECA	Minto Communities Inc.		Ottawa ON	K1P 0B6
EXP		RIDEAU VALLEY DR RIDEAU TWP N5V 3K5	ON	
EXP		RIDEAU VALLEY DR RIDEAU TWP N5V 3K5	ON	
EXP		RIDEAU VALLEY DR RIDEAU TWP N5V 3K5	ON	
FST	595831 ONT INC	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA	ON	
FST	595831 ONT INC	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA	ON	
GEN	City of Ottawa	Rideau Valley Dr. right of way Manotick Main St.	Ottawa ON	
GEN	City of Ottawa	Rideau Valley Dr. right of way Manotick Main St.	Ottawa ON	
PRT	595831 ONT INC	RIDEAU VALLEY DR	RIDEAU TWP ON	
PTTW	Minto Communities Inc.	Lots 4 and 5, Concession A, NORTH GOWER City of Ottawa CITY OF OTTAWA	ON	
PTTW	Minto Communities Inc.		ON	
PTTW	Minto Communities Inc.		ON	

SPL	Marathon Drilling<UNOFFICIAL>	Rideau Valley Drive at Mud Creek	Ottawa ON
SPL	Taggart Construction Limited	Rideau Valley Drive	Ottawa ON
SPL	CONSTRUCTION COMPANY	REGION RD #13, BAXTER CONSERVATION AREA TRANSPORT TRUCK (CARGO)	RIDEAU TOWNSHIP ON

Unplottable Report

Site: ***Village Square Mall***
Regional Road No. 13 Ottawa ON

Database: ***CA***

Certificate #:	7752-4VBMMJ
Application Year:	01
Issue Date:	4/2/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	The Village Square Mall (Barrhaven) Inc.
Client Address:	17 Fitzgerald Road
Client City:	Nepean
Client Postal Code:	K2H 9G1
Project Description:	Storm and sanitary sewers to be constructed on Greenbank Road
Contaminants:	
Emission Control:	

Site: ***City of Ottawa***
Rideau Valley Drive Ottawa ON

Database: ***CA***

Certificate #:	8286-7L6SKV
Application Year:	2009
Issue Date:	1/7/2009
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: ***Minto Communities Inc.***
Ottawa ON

Database: ***CA***

Certificate #:	3058-7JZKTF
Application Year:	2008
Issue Date:	10/7/2008
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: ***PERCY STINSON C/O ENVIROPLAN LIMITED***
POTTER DR. STINSON SUBD. RIDEAU TWP. ON

Database: ***CA***

Certificate #:	3-0463-88-

Application Year: 88
Issue Date: 6/6/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***GORDON SCHARF & IVY SCHARF ENVIROPLAN LT***
POTTER DR. RIDEAU TWP. ON

Database: ***CA***

Certificate #: 3-0453-88-
Application Year: 88
Issue Date: 6/6/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KIZELL ENTERPRISES LTD. MANOTICK ESTATES***
N & S SIDE POTTER DR. PH. III RIDEAU TWP. ON

Database: ***CA***

Certificate #: 3-1593-86-
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: ***LEIMERK FARMS LTD. C/O GINSBERG, GLUZMAN***
POTTER DR. MANOTICK EST. PH.4 RIDEAU TWP. ON

Database: ***CA***

Certificate #: 3-1552-87-
Application Year: 87
Issue Date: 9/15/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***595831 ONT INC***
RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA ON

Database: ***DTNK***

Site: ***595831 ONT INC***
RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA ON

Database: ***DTNK***

Site: ***Minto Communities Inc.***
Ottawa, Ontario CITY OF OTTAWA ON

Database: ***EBR***

EBR Registry No: 013-0315
Ministry Ref No: MNRF INST 30/17
Notice Type: Instrument Decision
Notice Stage:
Notice Date: September 28, 2017
Proposal Date: April 10, 2017
Year: 2017
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species
Off Instrument Name:
Posted By:
Company Name: Minto Communities Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6, Minto Communities Inc., 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6
Comment Period:
URL:

Site Location Details:

Ottawa, Ontario CITY OF OTTAWA

Site: ***Minto Communities***
ON

Database: ***EBR***

EBR Registry No: 019-2808
Ministry Ref No: KV-C-001-19
Notice Type: Instrument
Notice Stage: Decision
Notice Date:
Proposal Date: December 4, 2020
Year: 2020
Decision Posted: February 26, 2021
Exception Posted:
Section: Section 17 (2) (c)
Act 1: Endangered Species Act , R.S.O. 2007
Act 2: Endangered Species Act, 2007
Site Location Map:
Instrument Type: Permit for activities to achieve an overall benefit to a species
Off Instrument Name: Permit for activities with conditions to achieve overall benefit to the species (ESA s.17(2) (c))
Posted By: Ministry of the Environment, Conservation and Parks
Company Name:
Site Address:
Location Other:
Proponent Name: Minto Communities
Proponent Address: Minto Communities
180 Kent Street
Unit 200
Ottawa,
ON
K1P 0B6
Canada
Comment Period: December 4, 2020 - January 3, 2021 (30 days) Closed
URL: https://ero.ontario.ca/notice/019-2808

Site Location Details:

Part of Lot 12, Concession 4, Township of March, Ottawa

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No:	3053-8YJNWU	***MOE District:***	
Approval Date:	2012-10-01	***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:	Minto Communities Inc.		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1397-8XNJGH-14.pdf		
PDF Site Location:			

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No:	1554-8Y2HZ6	***MOE District:***	
Approval Date:	2012-09-14	***City:***	
Status:	Revoked and/or Replaced	***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:	Minto Communities Inc.		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1100-8WTMSY-14.pdf		
PDF Site Location:			

Site: ***Minto Communities Inc.***
Part of Lots 4 & 5, Concession A Ottawa ON K1P 0B6

Database: ***ECA***

Approval No:	8043-8VNJCB	***MOE District:***	
Approval Date:	2012-07-10	***City:***	
Status:	Revoked and/or Replaced	***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:	Minto Communities Inc.		
Address:	Part of Lots 4 & 5, Concession A		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/3777-8VLN6N-14.pdf		
PDF Site Location:			

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No:	3002-8PBSB4	***MOE District:***	
Approval Date:	2012-01-31	***City:***	
Status:	Revoked and/or Replaced	***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: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6465-8NETCD-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 0195-95LSVA
Approval Date: 2013-03-22
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1964-8XNJA4-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 7202-97BLB4
Approval Date: 2013-05-23
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4553-95ZKWJ-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 7971-9EAST8
Approval Date: 2014-01-10
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7322-9E4LGN-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 6432-CA6MRC
Approval Date: January 18, 2022
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: South Nation
MOE District: Ottawa
City:
Longitude:
Latitude:
Geometry X: -8402261.5817000009
Geometry Y: 5691103.7277999958
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2726-C9PS46-14.pdf
PDF Site Location: Avalon South Stormwater Management Facility Expansion
Neighbourhood 4
Lot 4, Concession 10
City of Ottawa, Ontario

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 7661-ABCKQL
Approval Date: 2016-06-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5664-AB4KGV-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 0606-AHXJCH
Approval Date: 2017-02-02
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4552-AHSJ74-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 2268-9WYR3F
Approval Date: 2015-06-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3873-9WWLDY-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 8813-9WYQ2J
Approval Date: 2015-06-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4625-9WXRTA-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 7598-94TRX3
Approval Date: 2013-02-26
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2553-8VDQUF-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 1720-AKJGKQ
Approval Date: 2017-03-24
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1769-AKEQQZ-14.pdf
PDF Site Location:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 3128-AQGJ6T
Approval Date: 2017-08-23
Status: Approved
Record Type: ECA
MOE District:
City:
Longitude:
Latitude:

Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4569-AQCRKJ-14.pdf
PDF Site Location:
Geometry X:
Geometry Y:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 8605-AYUHJG
Approval Date: 2018-05-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7723-AYKNXD-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 6142-BEJHCE
Approval Date: 2019-08-01
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0892-BDSKVQ-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Minto Communities Inc.***
Ottawa ON K1P 0B6

Database: ***ECA***

Approval No: 8270-A3ZLU2
Approval Date: 2015-11-10
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Communities Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8185-A3PRB5-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site:

Database: ***EXP***

RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON

Instance No:	9724864	***Model:***	
Status:	Abandoned	***Quantity:***	
Instance ID:		***Unit of Measure:***	
Instance Type:		***Fuel Type2:***	
Instance Creation Dt:		***Fuel Type3:***	
Instance Install Dt:		***Piping Steel:***	0
Item:	FS GASOLINE STATION - FULL SERVE	***Piping Galvanized:***	0
Item Description:		***Tank Single Wall St:***	2
Facility Type:	FS Liquid Fuel Tank	***Piping Underground:***	0
Overfill Prot Type:		***Tank Underground:***	2
Creation Date:		***Panam Related:***	
Expired Date:		***Panam Venue Nm:***	
Manufacturer:			
Description:			
Serial No:			
Ulc Standard:			
Facility Location:	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5		
Source:	FS Expired Facilities		

Site: ***Database:*** ***EXP***

RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON

Instance No:	9724864	***Model:***	
Status:	Abandoned	***Quantity:***	
Instance ID:		***Unit of Measure:***	
Instance Type:		***Fuel Type2:***	
Instance Creation Dt:		***Fuel Type3:***	
Instance Install Dt:		***Piping Steel:***	2
Item:	FS GASOLINE STATION - FULL SERVE	***Piping Galvanized:***	0
Item Description:		***Tank Single Wall St:***	0
Facility Type:	FS Piping	***Piping Underground:***	2
Overfill Prot Type:		***Tank Underground:***	0
Creation Date:		***Panam Related:***	
Expired Date:		***Panam Venue Nm:***	
Manufacturer:			
Description:			
Serial No:			
Ulc Standard:			
Facility Location:	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5		
Source:	FS Expired Facilities		

Site: ***Database:*** ***EXP***

RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON

Instance No:	9724864	***Model:***	
Status:	Abandoned	***Quantity:***	
Instance ID:		***Unit of Measure:***	
Instance Type:		***Fuel Type2:***	
Instance Creation Dt:		***Fuel Type3:***	
Instance Install Dt:		***Piping Steel:***	2
Item:	FS GASOLINE STATION - FULL SERVE	***Piping Galvanized:***	0
Item Description:		***Tank Single Wall St:***	2
Facility Type:		***Piping Underground:***	2
Overfill Prot Type:		***Tank Underground:***	2
Creation Date:		***Panam Related:***	
Expired Date:		***Panam Venue Nm:***	
Manufacturer:			
Description:			
Serial No:			
Ulc Standard:			
Facility Location:	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5		
Source:	FS All Facility		

Site: ***595831 ONT INC***
RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA ON

Database: ***FST***

Instance No:	10940468	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Single Wall UST	***Fuel Type2:***	NULL
Install Date:	4/30/1992	***Fuel Type3:***	NULL
Install Year:	1984	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	22700	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA		

Fuel Storage Tank Details

Owner Account Name: 595831 ONT INC

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: 595831 ONT INC
Item: FS LIQUID FUEL TANK

Site: ***595831 ONT INC***
RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA ON

Database: ***FST***

Instance No:	10940446	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Single Wall UST	***Fuel Type2:***	NULL
Install Date:	4/30/1992	***Fuel Type3:***	NULL
Install Year:	1984	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	35000	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	RIDEAU VALLEY DR RIDEAU TWP N5V 3K5 ON CA		

Fuel Storage Tank Details

Owner Account Name: 595831 ONT INC

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: 595831 ONT INC
Item: FS LIQUID FUEL TANK

Site: ***City of Ottawa***
Rideau Valley Dr. right of way Manotick Main St. Ottawa ON

Database: ***GEN***

Generator No: ON6802088
SIC Code: 913910
SIC Description: Other Local Municipal and Regional Public Administration
Approval Years: 2010
PO Box No:
Country:

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

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Site: ***City of Ottawa***
Rideau Valley Dr. right of way Manotick Main St. Ottawa ON

Database: ***GEN***

Generator No: ON6802088
SIC Code: 913910
SIC Description: Other Local Municipal and Regional Public Administration
Approval Years: 2009
PO Box No:
Country:

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

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Site: ***595831 ONT INC***
RIDEAU VALLEY DR RIDEAU TWP ON

Database: ***PRT***

Location ID: 12469
Type: retail
Expiry Date: 1995-08-31
Capacity (L): 57700
Licence #: 0051903001

Site: ***Minto Communities Inc.***
Lots 4 and 5, Concession A, NORTH GOWER City of Ottawa CITY OF OTTAWA ON

Database: ***PTTW***

EBR Registry No: 012-9487
Ministry Ref No: 2771-AH5MTR
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 05, 2017
Proposal Date: January 04, 2017
Year: 2017
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Company Name: Minto Communities Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6, Minto Communities Inc., 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6
Comment Period:
URL:

Site Location Details:

Lots 4 and 5, Concession A, NORTH GOWER City of Ottawa CITY OF OTTAWA

Site: ***Minto Communities Inc.***
ON

Database: ***PTTW***

EBR Registry No: 012-9800
Ministry Ref No: 5771-AJEJDR
Notice Type: Instrument Decision
Notice Stage:
Notice Date: October 06, 2017
Proposal Date: February 13, 2017
Year: 2017
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Minto Communities Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6, Minto Communities Inc., 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Avalon West Community Address: Lot: 3 & Part of Lot 4, Concession: 11, Geographic Township: CUMBERLAND, Ottawa, City District Office: Ottawa GeoReference: Zone: 18, UTM Easting: 461611, UTM Northing: 5032496, UTM Location Description: S1- Lot 3 Concession 11, Site #: 5712-AJEJLA CITY OF OTTAWA

Site: ***Minto Communities Inc.***
ON

Database: ***PTTW***

EBR Registry No: 011-4898
Ministry Ref No: 3046-8MLKW5
Notice Type: Instrument Decision
Notice Stage:
Notice Date: December 17, 2014
Proposal Date: November 04, 2011
Year: 2011
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Minto Communities Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6, Minto Communities Inc., 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Mahogany Community Development Address: Lot: Part of Lots 4 and 5, Concession: A (Broken Front), Ottawa, City District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, UTM Easting: 446650, UTM Northing: 5007555, , LIO GeoReference: Zone: , UTM Easting: , UTM Northing: , Latitude: , Longitude: CITY OF OTTAWA

Site: ***Marathon Drilling<UNOFFICIAL>*** ***Database:*** ***SPL***
Rideau Valley Drive at Mud Creek Ottawa ON

Ref No:	2485-7W4NJV	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Discharge Or Bypass To A Watercourse	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:	MAX-GEL, VISCOSIFIER	***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:***	
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/21/2009	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Equipment Failure	***Source Type:***	
Site Name:	Bore hole underneath Mud Creek<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Marathon Drilling, 2 100L viscosifier to Mud Creek, May 09		
Contaminant Qty:	200 L		

Site: ***Taggart Construction Limited*** ***Database:*** ***SPL***
Rideau Valley Drive Ottawa ON

Ref No:	2534-7UPHZG	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Unknown	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	Planned Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	8/7/2009	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Land Spills
Incident Reason:	Unknown - Reason not determined	***Source Type:***	
Site Name:	Construction hole<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Taggart Construction: 1L hydraulic oil to grnd, contd		
Contaminant Qty:	40 L		

Site: ***CONSTRUCTION COMPANY***
REGION RD #13, BAXTER CONSERVATION AREA TRANSPORT TRUCK (CARGO) RIDEAU TOWNSHIP ON

Database: ***SPL***

Ref No:	66774	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/6/1992	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CONTAINER 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:	CONFIRMED	***Site Municipality:***	20612
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/6/1992	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	WELD/SEAM FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	CLOUTIER CONSTRUCTION LTD-22L DIESEL FUEL TO GRAVEL ON SIDE ROAD.		
Contaminant Qty:			

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

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

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 -Nov 2021

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

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Jul 2021

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Jan 31, 2022

Drill Hole Database: Provincial DRL

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

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

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

Government Publication Date: May 31, 2021

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011- Jan 31, 2021

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994 - Jan 31, 2022

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011- Jan 31, 2021

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

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

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2019

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

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

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

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

Government Publication Date: May 31, 2021

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

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

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Nov 30, 2021

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994 - Jan 31, 2022

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: Oct 2011- Jan 31, 2021

Pipeline Incidents: Provincial PINC

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

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994 - Jan 31, 2022

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

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

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

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

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2019

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

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

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011- Jan 31, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Sep 30, 2021

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX V

GOVERNMENT AND REGULATORY INFORMATION

UTM 18 414617915E 31G49
19 5010714010N

Elev. 19[illegible]0210

Basin 25

ONTARIO

The Water-well Drillers Act, 1954
Department of Mines

15 NW 6502

RECEIVED
JAN 9 1957
GEOLOGICAL BRANCH
DEPARTMENT of MINES

Lot 4

Water-Well Record

County or Territorial District Carleton Township, Village, Town or City N. Gower

[redacted] Village, Town or City) Manotick

[redacted] Address Manotick

(day) (month) (year)

Pipe and Casing Record

Casing diameter(s) 4"
Length(s) 44
Type of screen
Length of screen

Pumping Test

Static level 6'
Pumping rate 200 gpm
Pumping level 6'
Duration of test 1 hr.

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Clay	1'	40'			
Gravel	40	44'	44'	38'	fresh

DGR

For what purpose(s) is the water to be used?
Home

Is water clear or cloudy? clear

Is well on upland, in valley, or on hillside? hillside

Drilling firm J. J. Meagher

Address 639 Rowanwood

Name of Driller J. J. Meagher

Address

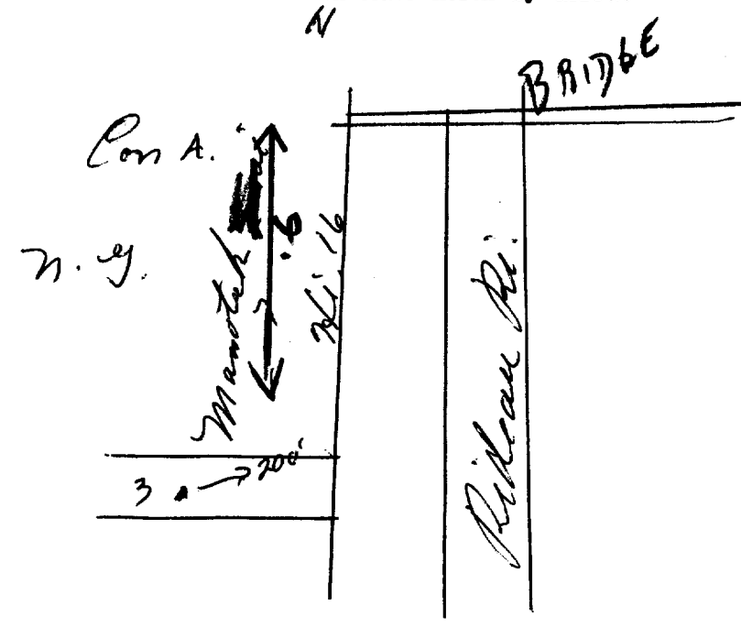
Licence Number 171

I certify that the foregoing statements of fact are true.

Date March 14 J. J. Meagher
Signature of Licensee

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 5

345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

30 March 2022

Gregory Sabourin
Terrapex Environmental Ltd.
1 – 20 Gurdwara Road
Ottawa, ON K2E 8B3

Subject: **5646 Manotick Main Street, Ottawa, Ontario**
Your File No.: **CO884.00**
SR No.: **3183272**

Dear Madam/Sir:

We are in receipt of your correspondence wherein you requested the release of information regarding the above noted subject.

A search of TSSA public records **did not** identify/reveal/locate any documents relating to the following Program(s):

Program	No Record
Fuels Safety	☐
Boiler/Pressure Vessel	☐
Elevating & Amusement Devices	☐

Requested records relating to the following Program(s) were located:

Program	Record	Documents Attached
Fuels Safety	☒	☒
Boiler/Pressure Vessel**	☐	☐
Elevating & Amusement Devices	☐	☐
Other	☐	☐

**For BPV, if it has been indicated that records have been located but are not attached, it is likely that TSSA may not be the keeper of the records you are looking for, see note below.

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 Services

Limitations and Notices:

TSSA Fuels Safety:

If you have environmental concerns regarding this property, you should consider hiring an environmental consultant to conduct an environmental assessment of the property in question.

- Sites that have not been licensed since 1987 may not be in TSSA records.

- Be advised, TSSA Fuels Safety Division did not register:
  - private fuel underground/ aboveground storage tanks prior to January of 1990; and
  - furnace oil tanks prior to May 1, 2002.

- Fuels Safety Division does not register
  - private waste oil tanks in apartments, office buildings, residences etc.; and
  - aboveground gas or diesel tanks.

- The *Technical Standards and Safety Act* and associated regulations do not require the registration of private fuel outlets, nor does it require that any documentation on these facilities be submitted to or reviewed or approved by TSSA. As a result, TSSA has limited information on these facilities. TSSA cautions that any information provided may be inaccurate, incomplete or out of date.

TSSA Elevating & Amusement Devices Program Notice:

- All orders and/or directions issued by the TSSA Inspector have a compliance date and the owner or designated contractor are required to comply within the specified time limit.

- All written declarations of compliance (where eligible) should be sent to TSSA. Once a declaration of compliance has been received, the outstanding order will be resolved.

- Each report shows the details and date of the inspection conducted by TSSA at the requested location.

- The Ontario Amusement Devices Regulation (O. Reg. 221/01) was adopted in 2001. Since that time, TSSA retains copies of technical dossiers of new amusement devices in Ontario (as per TSSA's retention policy). However, for rides that existed prior to the adoption of the Regulation, which were subject to a "grandfathering-in" clause, technical dossiers were not required to be filed with the TSSA. However, if the amusement ride remains in operation, as per ASTM requirements, the owner/licensee must possess an operations document for the device in question.

TSSA Boilers and Pressure Vessels (BPVs) Program Notice:

- Be advised, TSSA does not typically inspect BPVs. These inspections are usually performed by insurance companies.

- **Inspection reports are not always submitted to TSSA by insurance companies; therefore, while TSSA may have some evidence of a BPV at a location on file, there may be no inspection records pertaining to BPVs located at the address provided.

- As of July 1, 2018, BPVs in Ontario may not be operated unless the Director has issued a current certificate of inspection (COI) to the owner or operator. A COI will be issued to the owner or operator of the BPV by TSSA after TSSA has received a Record of Inspection (ROI) from the insurer/third-party inspector, the associated fees have been paid and the BPV has passed a periodic inspection.

- Please note that if the BPV in question is insured, the insurance company may have additional inspection records. Please contact the insurer directly should you wish to obtain further information.

Orac Installed Base

Navigator Favorites Home Profile Sign Out Help

Item Instances

Quick Find Item Instance Go Advanced Search

Logged In As CHILL

- General
- Additional Attributes
- Assets
- Party Relationships
  - Owner
  - Parties
  - Accounts
  - Contacts
  - Summary
- Pricing
- Counters
- Contracts
- Notes
- Transactions
- Service Requests
- Repair Orders
- History
- Operating Units
- Configuration

Item Instance Details

Item Instance: 37676816
Item: FS CYLINDER EXCHANGE
Item Description: FS Cylinder Exchange

General Attributes

Organization Name	TSSA Item Master	Instance Name	
Last Version Label	1	Version Label Date	07-AUG-2005 13:34
Revision		New Version Label	
System	Go	External Reference	
Item Instance Type		Accounting Classification	Customer Product
Operational Status	Not Used	Lot Number	: not lot-controlled
Status	MIGRATED	Condition	
Quantity	1	UOM	Each
Start Date	07-AUG-2005	Start Time	13:34
Shipped On Date		Shipped On Time	
End Date		End Time	
Return By Date		Return By Time	
Actual Return Date		Actual Return Time	

* Indicates required field.

Time format is HH24:MM

Note: You do not have permission to make updates in this page.

☑ Creation Completed

Owner

Party Type	Party		
Party Name:	DISCOUNT TOBACCO & GROCERY SHOP	Party Number:	980135
Account Number:	415359	Account Name	DISCOUNT TOBACCO & GROCERY SHOP

Current Location

* Type Party Site Go

Party Name DISCOUNT TOBAC Go

Party Number 980135 Go

*Line 1 5646 MANOTICK M Go

Site Number 822906 Go

Address 5646 MANOTICK MAIN ST
MANOTICK, K4M 1B3, CA

Installed At

Installed Date 07-AUG-2005 Installed Time 13:34

Time format is HH24:MM

Change in installed date does not change contract date.

Type Go

Order

Sales Order Number

Sales Order Date

Sales Order Line

Purchase Order Number

Agreement Name

Item Flags

- [x] BOM Enabled
- [x] IB Trackable
- [ ] Inventory Trackable
- [x] Sellable
- [ ] Shippable

Item Views

- [ ] Merchant
- [x] Customer

Descriptive Flexfields

Context Value

Select Context Value and click 'Go' to show relevant fields.

File Number D02-01-MANO 5646

July 15, 2013

Milan Mohammad
8395390 Canada Inc.
5646 Manotick Main Street
Manotick, ON K4M 1B3

Dear Mr. Mohammad:

Re: 5646 Manotick Main Street, Manotick, Ottawa
Receipt Number: 0008047

This will acknowledge receipt of your letter of July 12, 2013, and payment of $168.00, requesting zoning confirmation that a propane tank exchange is permitted at the above-noted property.

We wish to advise that this property is presently subject to the provisions of the City of Ottawa Consolidated Zoning By-law 2008-250, as amended, in a zone designated as **RC1[152r]**. This is a *Rural Commercial* designation that provides for a range of highway and recreational commercial uses which serve the rural community, as defined in Sections 217 and 218 of the By-law.

A propane exchange and transfer facility in association with the existing retail use is permitted on this property, subject to the provisions of Section 66 of the Zoning By-law (Provisions for the Handling and Transfer of Propane and Natural Gas):

66. (1) Facilities relating to the handling and transfer of propane and natural gas, including tanks and associated compressors, pumps and other similar facilities must not be located in any required front, side, corner side or rear yard, nor closer than 30 metres to any lot line abutting a residential zone.

(2) Despite subsection (1), the minimum of 30 metres may be reduced to a minimum of 6 metres where it can be demonstrated that appropriate noise abatement measures have been undertaken to ensure that noise levels at the boundary of the residential zone do not create a nuisance for uses in that abutting residential zone.

It should be noted that having this use permitted under the zoning by-law does not supersede any other required approvals or regulations.

We trust this information is of assistance to you and wish to emphasize that our response was formulated based on the information you provided to us. Should circumstances change, or

City Of Ottawa
Planning and Growth Management
101 Centrepointe Drive
Nepean, Ontario K2G 5K7
Tel. : 613-580-2424 ext.: 13900
robert.sandercoll@ottawa.ca

Ville d'Ottawa
Urbanisme et Gestion de la croissance
Tél. : 613-580-2424 poste: 13900
robert.sandercoll@ottawa.ca

should you require further information, please contact the undersigned at 613-580-2424, ext. 13900.

Yours truly,

Robert Sandercott

Robert Sandercott
Development Information Officer – South District
Planning and Growth Management Department

Attach.

City Of Ottawa
Planning and Growth Management
101 Centrepointe Drive
Nepean, Ontario K2G 5K7
Tel. : 613-580-2424 ext.: 13900
robert.sandercott@ottawa.ca

Ville d'Ottawa
Urbanisme et Gestion de la croissance
Tél. : 613-580-2424 poste: 13900
robert.sandercott@ottawa.ca

File Number: D06-03-22-0049

March 25, 2022

Greg Sabourin
Terrapex

*Sent via email [*g.sabourin@terrapex.com*]*

Dear Greg,

Re: Information Request
5646 Manotick Main Street, Ottawa, Ontario ("Subject Property")

Internal Department Circulation:

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- No information was returned on the Subject Property from Departmental circulation.

Documents Provided:

HLUI Summary Report and HLUI Map

The HLUI Summary Report Excel spreadsheet identifies HLUI area, point and line features within 250 metres of the Subject Property, as shown on the provided HLUI Map PDF. Within 500 metres of the Subject Property, landfills and Environmental Risk Management Area (ERMA) are also identified if applicable.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at https://ero.ontario.ca/ contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact HLUI@ottawa.ca.

Sincerely,

Amya Martinov
Student Planner

Per:

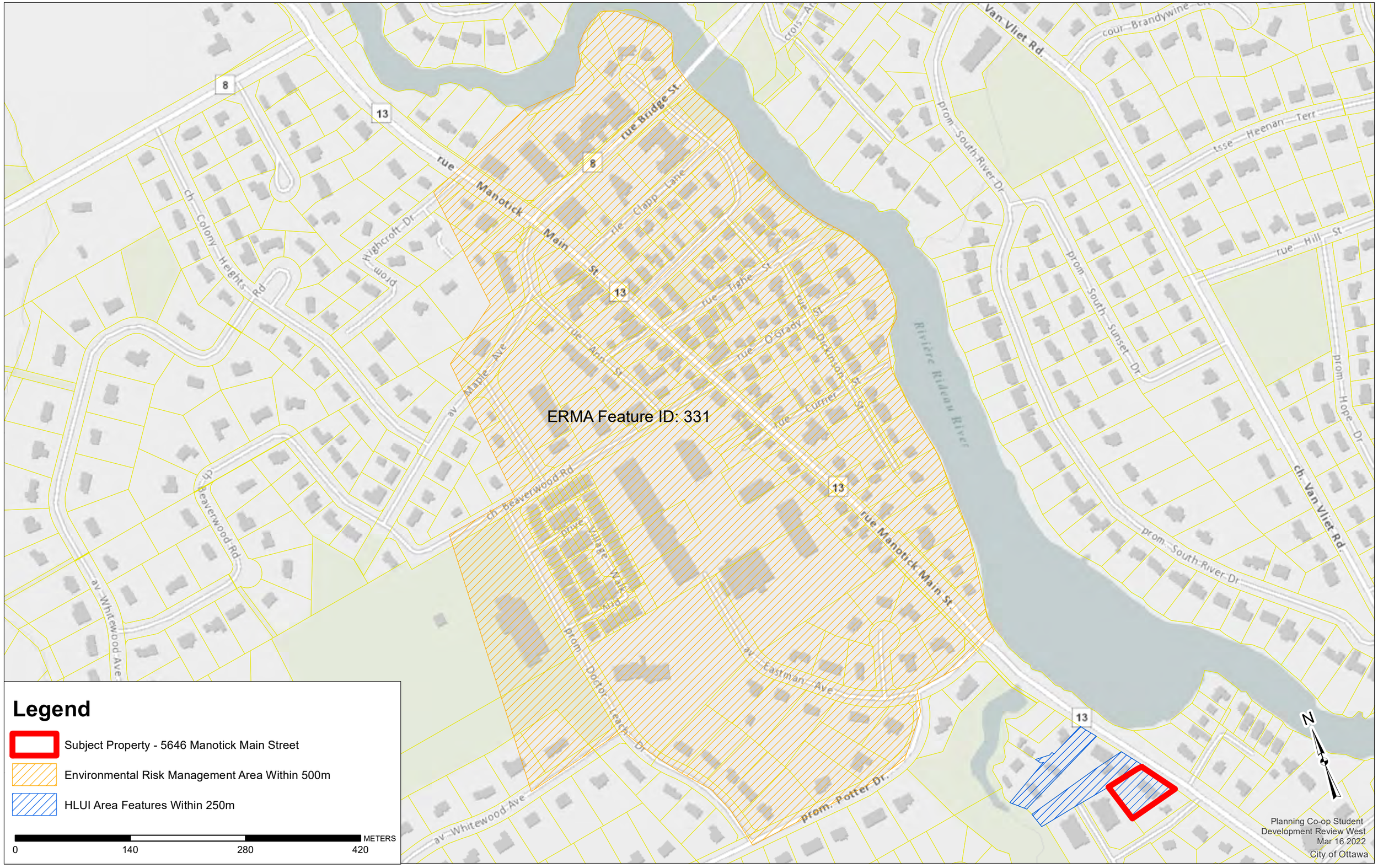
Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB / AM

Enclosures: (2)
1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-22-0049

HISTORIC LAND USE INVENTORY (HLUI) - REPORT REFERENCE MAP



APPENDIX VI

AERIAL PHOTOGRAPHS

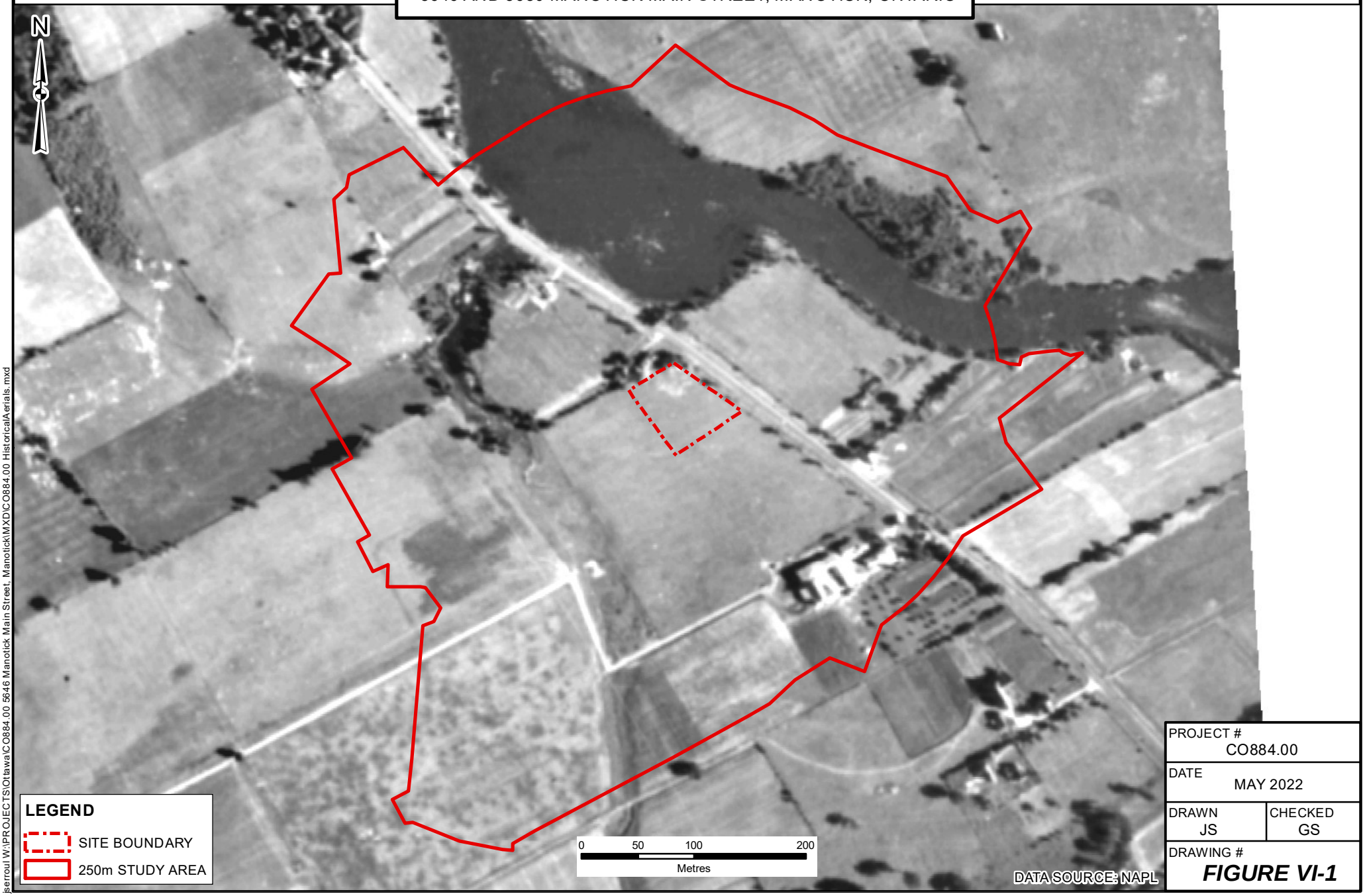
TERRAPEX

1946 HISTORICAL AERIAL PHOTO

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.



PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	FIGURE VI-1

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 HistoricalAerials.mxd

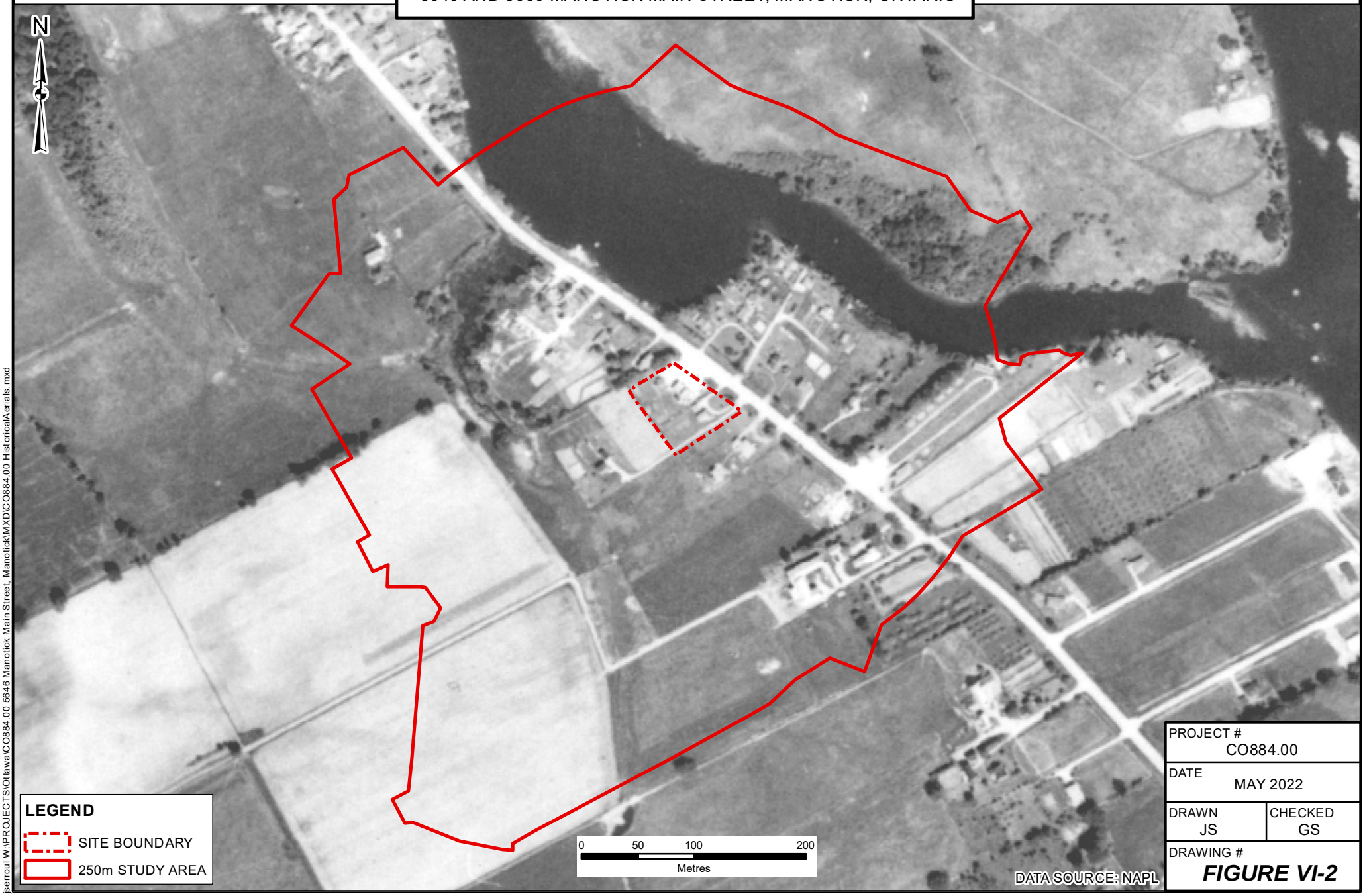
TERRAPEX

1959 HISTORICAL AERIAL PHOTO

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.



PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	FIGURE VI-2

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 HistoricalAerials.mxd

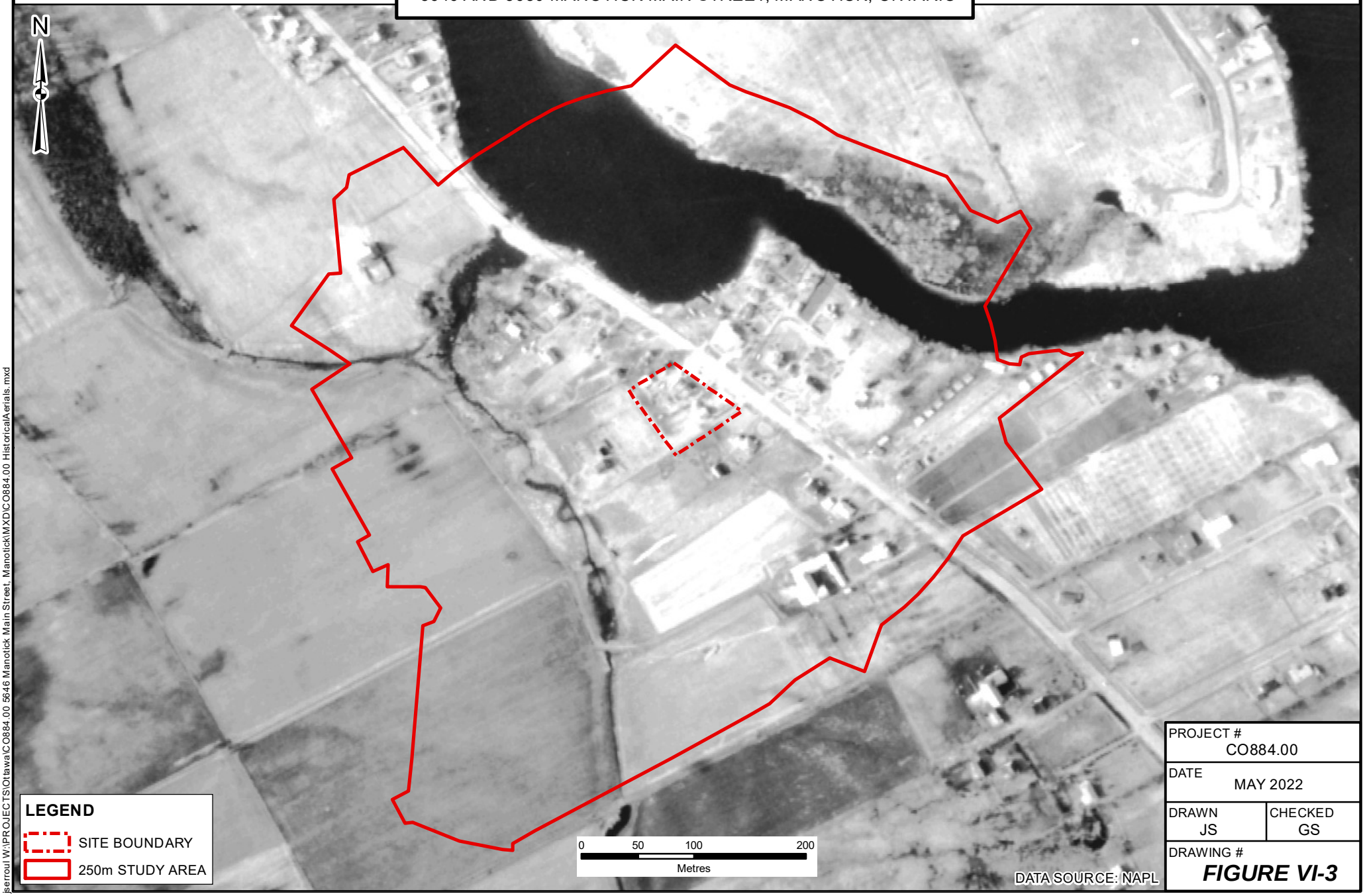
TERRAPEX

1965 HISTORICAL AERIAL PHOTO

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.



PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
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DRAWING #	FIGURE VI-3

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 HistoricalAerials.mxd

TERRAPEX

1976 HISTORICAL AERIAL PHOTO

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	*FIGURE VI-4*

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 HistoricalAerials.mxd

TERRAPEX

1991 HISTORICAL AERIAL PHOTO

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.

LEGEND

SITE BOUNDARY

250m STUDY AREA

0 50 100 200

Metres

DATA SOURCE: CITY OF OTTAWA

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	***FIGURE VI-5***

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 HistoricalAerials.mxd

TERRAPEX

2007 HISTORICAL AERIAL PHOTO

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	FIGURE VI-6

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 HistoricalAerials.mxd

TERRAPEX

2011 HISTORICAL AERIAL PHOTO

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	FIGURE VI-7

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 HistoricalAerials.mxd

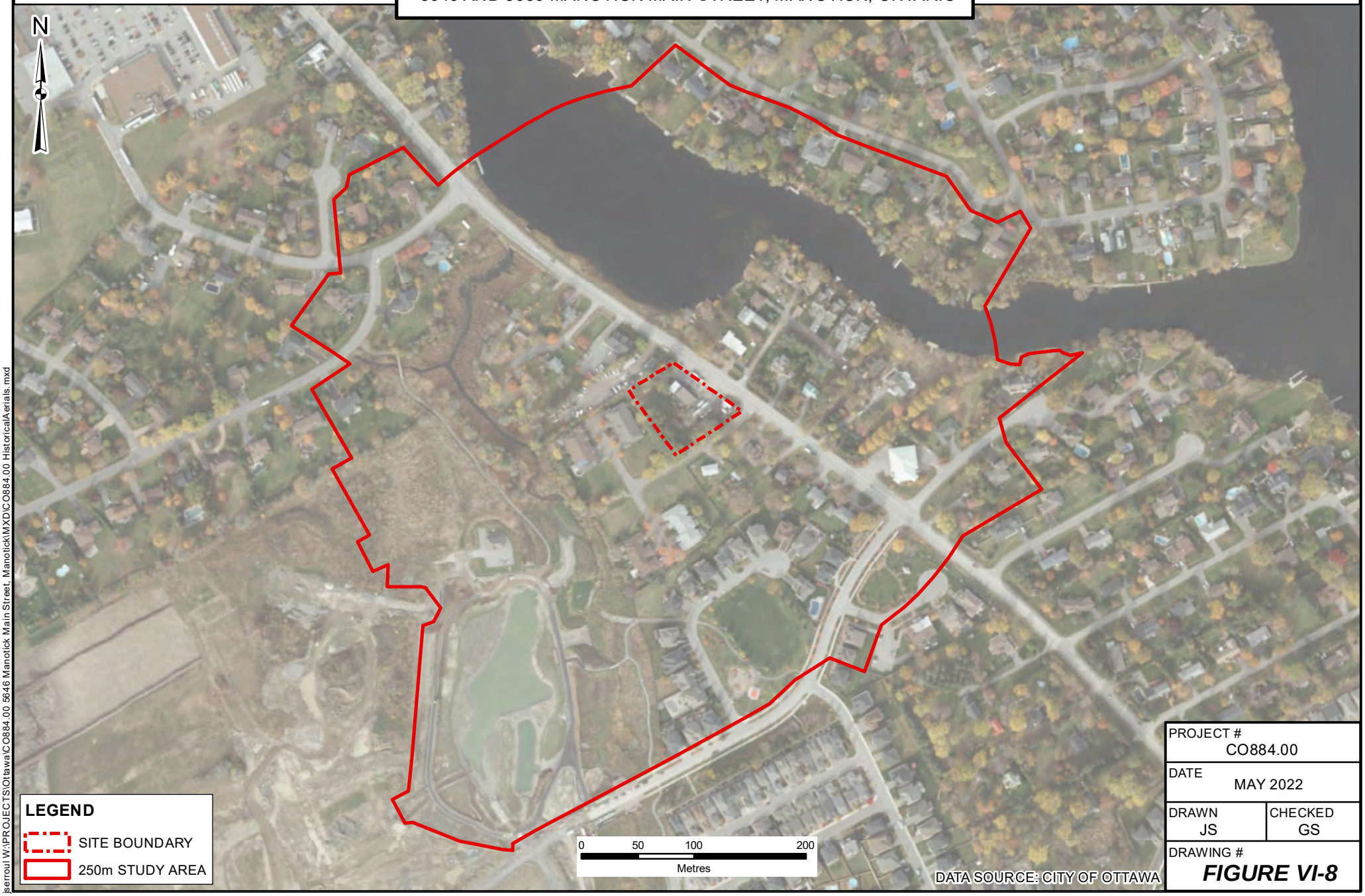
TERRAPEX

2019 HISTORICAL AERIAL PHOTO

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.



PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	FIGURE VI-8

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 HistoricalAerials.mxd

APPENDIX VII

TOPOGRAPHIC MAP

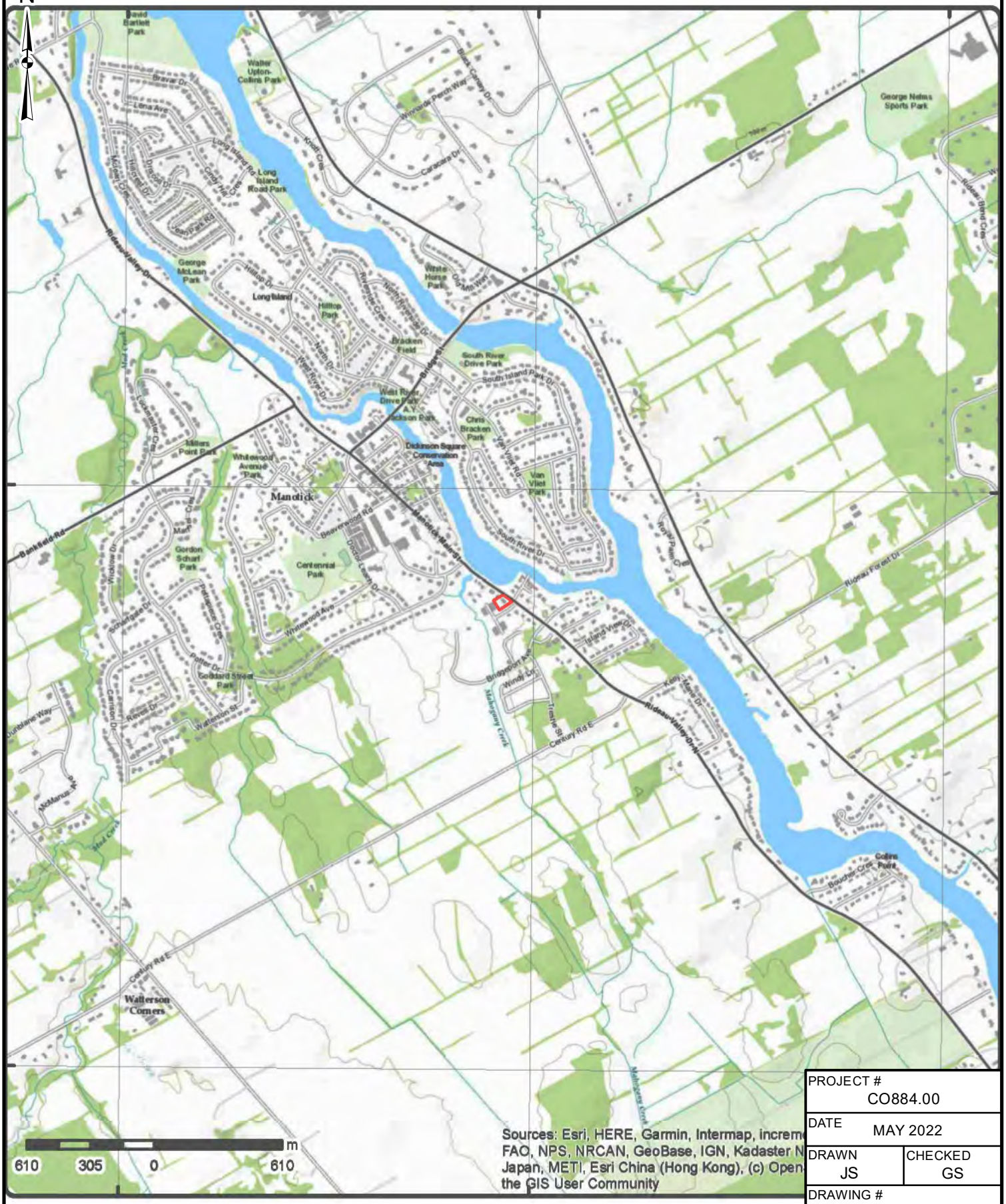
TERRAPEX

TOPOGRAPHIC MAP

5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO

CLIENT

595831 ONTARIO INC.



DATA SOURCE: ERIS

PROJECT #	CO884.00
DATE	MAY 2022
DRAWN	JS
CHECKED	GS
DRAWING #	**FIGURE VII**

jserroul W:\PROJECTS\Ottawa\CO884.00 5646 Manotick Main Street, Manotick\MXD\CO884.00 FIG VII TOPOGRAPHIC MAP.mxd

APPENDIX VIII

SITE PHOTOGRAPHS

TERRAPEX	PHOTOGRAPHIC LOG		Page 1 of 11
Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 1 **Date:** March 16, 2022 **Viewing Direction:** west **Description:** A view of the Site from the eastern side of Manotick Main Street.	

Photo No: 2 **Date:** March 16, 2022 **Viewing Direction:** South **Description:** View of the Site from the northeastern portion of the Site. The two-bay car wash is visible at the north end of the building.	

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 3 **Date:** March 16, 2022 **Viewing Direction:** East **Description:** View of rear portion of the building from the southwestern portion of the Site. The two second floor apartments are accessed from the wooden staircase at the southwest corner of the building.	

Photo No: 4 **Date:** March, 2022 **Viewing Direction:** North **Description:** View of the septic bed located at the rear of the Site.	

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 5 **Date:** March 16, 2022 **Viewing Direction:** West **Description:** A view of the southwest corner of the building.	

Photo No: 6 **Date:** March 16, 2022 **Viewing Direction:** North **Description:** A view of excavated soil located at the rear of the building.	

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 7 **Date:** March 16, 2021 **Viewing Direction:** East **Description:** A view of the apparent location of the former underground storage tank nest.	

Photo No: 8 **Date:** March 16, 2022 **Viewing Direction:** South **Description:** A view of domestic supply well located at the front of the building. It was noted that the water supply well was in a state of disrepair and was missing its cap.	

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 9 **Date:** March 16, 2022 **Viewing Direction:** North **Description:** A view of the interior of the Site building in the former store area.	

Photo No: 10 **Date:** March 16, 2022 **Viewing Direction:** East **Description:** A view of car wash mechanical room located in the northern portion of the building.	

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 11
Date: March 16, 2022
Viewing Direction: East
Description: A view of the second apartment upstairs.

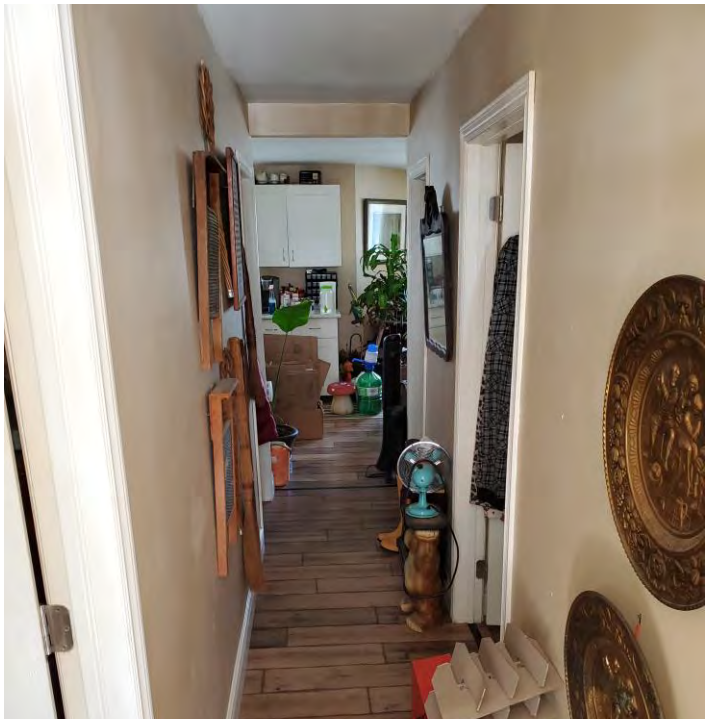


Photo No: 12
Date: March 16, 2022
Viewing Direction: East
Description: A view of extension located at the rear of the building.

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 13 **Date:** March 16, 2022 **Viewing Direction:** N/A **Description:** A view of the bulk detergents stored in the mechanical room for the car wash.	

Photo No: 14 **Date:** March 16, 2022 **Viewing Direction:** West **Description:** A view of the bathroom located in the former store area of the building.	

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

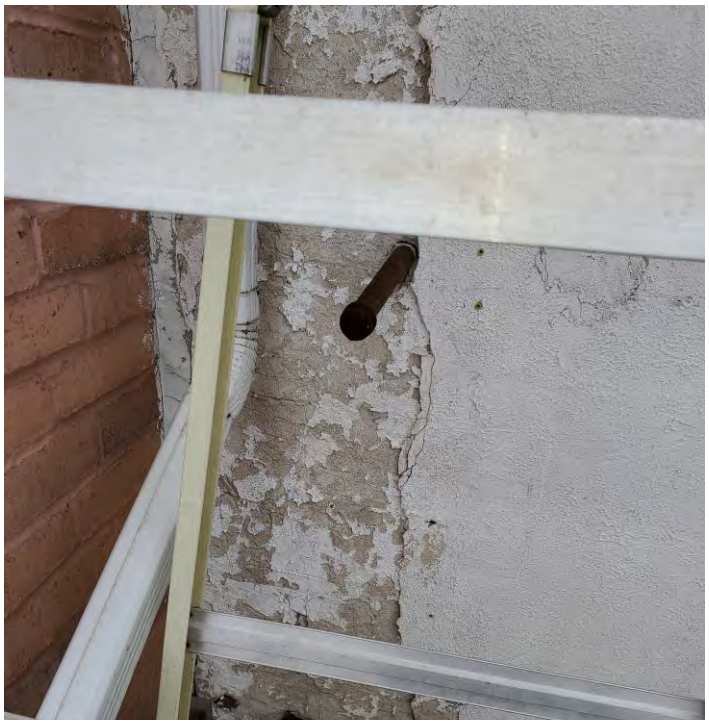
Photo No: 15 **Date:** March 16, 2022 **Viewing Direction:** East **Description:** A view of a pipe leading out of the building.	

Photo No: 14 **Date:** March 16, 2022 **Viewing Direction:** East **Description:** A view of the former pump island.	

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 17

Date: April 21, 2022

Viewing Direction: Southwest

Description:

A view of the residential building located at 5650 Manotick Main Street.

Photo No: 18

Date: April 21, 2022

Viewing Direction: West

Description:

A view of the residential property located at 5650 Manotick Main Street.

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 18
Date: April 21, 2022
Viewing Direction: East
Description: A view of the rear of the residential building located at 5650 Manotick Main Street.

Photo No: 18
Date: April 21, 2022
Viewing Direction: west
Description: A view of the residential property located at 5650 Manotick Main Street.

Client: 595831 Ontario Inc.	**Site Location**:	5646 & 5650 Manotick Main Street, Ottawa ON	**Project No**: CO884.00

Photo No: 19
Date: April 21, 2022
Viewing Direction: East
Description: The shed located in the backyard of 5650 Manotick Main Street property.

Photo No: 18
Date: April 21, 2022
Viewing Direction: N/A
Description: A view of the staining located underneath the lawn mower inside the shed located on the 5650 Manotick Main Street Property.

APPENDIX IX

QUALIFICATIONS OF ASSESSORS

GREGORY SABOURIN, P.Eng.

Education:	B.Eng. Environmental Engineering	2010	Carleton University, Ottawa
Professional Associations:	Professional Engineers of Ontario (PEO) – Membership Number: 100165530		

EXPERIENCE 2010 to present – Terrapex Environmental Ltd., Ottawa, Ontario

Mr Sabourin is project manager responsible for supervising environmental site assessments for various municipal residential, commercial and developer clients. Mr. Sabourin has a wide variety of field experience including but not limited to borehole drilling, groundwater sampling, soil and sub-slab vapor sampling, and remedial supervision. Mr. Sabourin Mr. Sabourin is registered with the Ontario Ministry of the Environment, Conservation and Parks (MECP) as a Qualified Person (QP) for undertaking Environmental Site Assessment activities and certifying Records of Site Condition (RSC) and has experience filing in the registry.

PROJECT EXPERIENCE

Municipal client: Completed several Phase I environmental site assessments (ESA) at properties owned by a municipality compliant with CSA standards. The work completed included site inspections to identify visible signs and/or potential sources of contamination possible, contaminant transport pathways, and potential receptors. Conducted interviews with relevant people who had a connection to the site. Conducted research and reviewed available documents including requesting information from public and private entities; interpreting aerial photographs; reviewing city directories, and previous environmental reports and acquired information; drafting of site plans; and, report composition. Additional responsibilities included client and tenant liaison. All Phase I ESAs were finalized with a recommendation for either no further work or the design and completion of a Phase II ESA.

Commercial Client: Was an integral part of a team that completed a Phase One ESA and a subsequent Phase Two ESA at a former industrial Site in Ottawa ON. The ESAs were completed so the Site could be re-developed into childcare facility. Since the Site was to be redeveloped into a more sensitive land use this necessitated the filing of a RSC with the Ministry of Environment, Conservation and Parks (MECP). Responsibilities included developing the conceptual site model (CSM), liaison with the clients and property owner for the supporting documentation needed for the RSC filing, filling out the electronic RSC form and addressing MECP comments during the initial review.

Petroleum Client: Conducted field and reporting tasks for a soil remediation project at a former gas station and commercial property, in Ottawa, Ontario. The area excavated was based on results of a previous Phase II ESA and observations of the soil conditions during the excavation. The total soil excavated and disposed of offsite was 4,700 metric tonnes. Responsibilities included supervision and direction n of all excavation activities, collection of confirmatory soil samples, interpretation of laboratory analytical data, drafting of site plans and analytical results figures, and report composition.

Technology Client: Conducted field and office activities for Human Health and Ecological Risk Assessment (HHERA) for site located in eastern Ontario that was contaminated by historic use and storage of chlorinated solvents. Responsibilities included management of sub-contractors, liaison with client and land owners, health and safety, groundwater monitoring and sampling, sub-slab vapour and ambient air sampling, drafting of site plans, review of historic reports, completion of data gap analysis, and annual report composition. In order to support the HHERA, Mr. Sabourin conducted a building floor and subgrade investigation consisting of the installation and sampling of sub-slab vapour probes and conducting preliminary pilot sub-slab communicative testing for the eventual design and installation of a sub-slab depressurization system.

Government Client: Provided multi-year environmental consulting services to a government campus in Ottawa, Ontario with respect to due diligence monitoring of the facilities sanitary effluent flow. Responsibilities included reviewing sanitary sewer plans and selecting sample locations, completion of a health and safety plan, supervising and training Terrapex staff in collection of sanitary effluent samples using manual and automatic sampling methodologies, and writing reports comparing the analytical results to the Ottawa's sewer-use bylaw. The sanitary effluent sampling program has since expanded to include additional buildings and facilities.

MIKE GRINNELL, P. Eng.

Position: Senior Project Manager, Ottawa Office

Qualifications:
B.A.Sc., Geological Engineering
P.Eng., Province of Ontario
QP_{ESA} in accordance with O.Reg. 153/04

Experience:

Terrapex Environmental Ltd.	2015 to present
Franz Environmental Inc.	2010 to 2014
Houle Chevrier Engineering Ltd.	2009 to 2010
Sustainable Development Technologies Canada	2008-2009
Aqua Terre Solutions Inc.	1998-2008
Conor Pacific Environmental Technologies Inc. (formerly Arcturus Environmental Inc)	1994-1998
Consulting and Audit Canada	1993-1994
Adamas Engineering Ltd.	1992-1993
Water & Earth Science Associates Ltd.	1991-1992

Mr. Grinnell is a senior environmental engineer / senior project manager with 27 years of experience. During that time he has managed approximately 620 phased environmental site assessment (Phase I, II & III ESAs), 250 contaminated site remediations, 60 designated substance surveys, 200 underground storage tank removals, 20 storage tank compliance programs, 25 potable water/wastewater projects and 35 compliance audits. As a senior project manager Mr. Grinnell liaises regularly with the clients and is responsible for ensuring that project deliverables are provided on time and on budget. He also provides senior technical review on all reports/correspondence issued for his projects.

Representative projects include the following:

Inogen Canadian Account Leader. Since 2016, Mr. Grinnell has been responsible for assigning all work requests in Canada. This includes liaising with clients and project teams, overseeing work product quality, assigning resources to complete deliverables on time and on budget and attending global meetings to support clients and learn associate capabilities to enhance service delivery in Canada.

Account Manager and Senior Technical Reviewer, SOA, Valvoline Canada Corporation. Responsible for overseeing site assessments and site investigations conducted for due diligence purposes in Alberta, Manitoba and Ontario under current standing offer agreement since 2019.

Account Manager and Senior Technical Reviewer, SOA, National Capital Commission (NCC). Responsible for overseeing site assessment, site monitoring/management, risk assessment and other work programs conducted on federal lands owned by the NCC in the National Capital Region since 2018.

Project Manager and Senior Technical Reviewer for remediation and risk base closure plan, chlorinated hydrocarbons impacted site, confidential location eastern Ontario. This project has included a data gap analyses, supplemental investigations to assess soil vapour and sub-slab soil vapour conditions, remedial options analyses, development of a conceptual site model, preparation of a human health and ecological risk assessment (ongoing) and the design/installation of a sub slab depressurization system (panned for 2018).

Project Manager and Senior Technical Reviewer, Phase I ESA / LCA/ Phase II ESA / remedial options analyses, transactional due diligence investigation, Confidential Client. On behalf of an American food manufacturer, Phase I ESAs and limited compliance audits (environmental and health and safety) were conducted at facilities located in Edmonton Alberta, Brantford Ontario and Toronto, Ontario. Following the identification of historical TCE storage and handling at the Toronto facility, a Phase II ESA, supplemental soil and groundwater delineation program, remedial options analyses and environmental liability estimate were prepared. The transaction ultimately proceeded and the Toronto facility is currently undergoing remediation (oversee by the original owner).

Account Manager and Senior Technical Reviewer, SOA, Husky Oil Operations Limited. Responsible for overseeing all site assessment, site monitoring/management and site remedial work programs conducted in Ontario since 2015.