



Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

Paterson Group Inc.

Consulting Engineers
154 Colonnade Road South
Ottawa (Nepean), Ontario
Canada K2E 7J5

Tel: (613) 226-7381
Fax: (613) 226-6344
www.patersongroup.ca

Phase I-Environmental Site Assessment

5331 Fernbank Road
Ottawa, Ontario

Prepared For

Claridge Homes

February 1, 2021

Report: PE5159-2

TABLE OF CONTENTS

EXECUTIVE SUMMARY.....	ii
1.0 INTRODUCTION.....	1
2.0 PHASE I PROPERTY INFORMATION.....	1
3.0 SCOPE OF INVESTIGATION.....	2
4.0 RECORDS REVIEW.....	2
4.1 General.....	2
4.1 Environmental Source Information.....	4
4.3 Physical Setting Sources.....	7
5.0 INTERVIEWS.....	9
6.0 SITE RECONNAISSANCE.....	9
6.1 General Requirements.....	9
6.2 Specific Observations at the Phase I Property.....	9
7.0 REVIEW AND EVALUATION OF INFORMATION.....	11
7.1 Land Use History.....	11
7.2 Conceptual Site Model.....	11
8.0 CONCLUSIONS.....	13
9.0 STATEMENT OF LIMITATIONS.....	14
10.0 REFERENCES.....	15

List of Figures

Figure 1 - Key Plan
Figure 2 - Topographic Map
Drawing PE5159-3 - Site Plan
Drawing PE5159-4 - Surrounding Land Use Plan

List of Appendices

Appendix 1 Aerial Photographs
 Site Photographs

Appendix 2 MECP Freedom of Information
 TSSA Correspondence
 HLUI Response
 MECP Well Records
 ERIS Report

Appendix 3 Qualifications of Assessors

EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for 5331 Fernbank Road in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and adjacent properties and identify any environmental concerns with the potential to impact the Phase I - Property.

Based on a review of historical sources, the Phase I - Property appears to have never been formally developed and has solely existed as an agricultural field. No historical PCAs were identified on the Phase I - Property or surrounding lands.

Following the historical review, a site visit was conducted. The Phase I - Property currently exists as an agricultural field. No PCAs were identified with respect to the current use of the Phase I – Property.

The surrounding land use consisted of commercial, residential, and vacant properties. Two (2) PCAs were identified in the form of a Jiffy Lube addressed 1180 Terry Fox Drive and the O.Reg 347 Waste Generator records and associated waste classes for the Walmart addressed 5357 Fernbank. Based on the separation distances (65 m W) and age of the automotive service garage (2016) and Walmart (2014), they are not considered to result in APECs on the Phase I – Property.

Based on the results of this Phase I - Environmental Site Assessment, it is our opinion that a **Phase II - Environmental Site Assessment is not required for the property.**

1.0 INTRODUCTION

At the request of Claridge Homes, Paterson conducted a Phase I - Environmental Site Assessment (ESA) of 5331 Fernbank Road, Ottawa, Ontario. The purpose of this Phase I - ESA was to research the past and current use of the site and area and to identify any environmental concerns with the potential to have impacted the property.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all our findings and results of the environmental conditions at this site.

2.0 PHASE I PROPERTY INFORMATION

Address:	5331 Fernbank Road, Ottawa, Ontario
Legal Description:	Part of Lot 30, Concession 10, Geographic Township of Goulbourn, in the City of Ottawa Ontario.
Location:	The subject site is located on the east side of Terry Fox Drive, in the north-eastern quadrant of the Fernbank Road and Terry Fox Drive intersection.
Latitude and Longitude:	45° 16' 48" N, 75° 52' 36" W
Site Description:	
Configuration:	Irregular
Area:	15 hectares (approximately)
Zoning:	GM – General Mixed-Use Zone
Current Use:	The subject site consists of an agricultural field.
Services:	The subject site is not serviced and is situated in a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the subject properties, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I Study Area for this assignment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

Based on a review of historically available information, the Phase I property appears to have been solely used for agricultural purposes.

National Directories

Fire insurance plans and city directories are not available for the Phase I study area.

Chain of Title

Paterson did not request a Chain of Title for the subject site as it was determined that sufficient information was gathered from other sources, such as personal interviews, aerial photographs, and city directories.

Previous Engineering Reports

The following reports were reviewed prior to conducting this assessment:

- “Phase I - Environmental Site Assessment, Terry Fox Drive at Fernbank Road, Ottawa, Ontario”, prepared by Paterson Group., dated May 2006.

The Phase I – ESA was completed for the subject site in May of 2006. No PCAs were identified at the time of the assessment and no further work was recommended.

- “Phase I - Environmental Site Assessment, Vacant and Agricultural Property, Terry Fox Drive at Cope Drive, Ottawa, Ontario”, prepared by Paterson Group, dated May 2018.

The Phase I – ESA was completed for the land immediately north of the Phase I – Property in May of 2018 and two (2) potentially contaminating activities (PCAs) were identified. These PCAs were a result of a historical railway track that previously ran along the Trans Canada Trail and the currently operating Jiffy Lube addressed 1180 Terry Fox Drive. Based on the absence of fueling and maintenance operations, the historical railway track was not considered to result in an area of potential environmental concern (APEC). The Jiffy Lube was not considered to result in an APEC based on its separation distance and recent age of operation (2016). No further work was recommended at the time of the assessment.

Paterson has completed several other environmental assessments in the vicinity of the Phase I – Property. No other PCAs were identified through a review of these completed reports.

4.1 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on January 19, 2021. No listings for the subject site or properties within the study area were identified in the NPRI database.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites are located within the Phase I Study Area.

Ministry of the Environment, Conservation and Parks (MECP) Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the properties. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Instruments

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records.

At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry (ESR) was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the Phase I - Property or properties within the study area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 250 m of the Phase I - Study Area.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I - Study Area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on January 19, 2021. The search did not reveal any areas of natural significance within the Phase I - Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on January 20, 2021, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. There were no former landfill sites identified within the Phase I - Study Area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search of the City of Ottawa’s Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. At the time of issuance of this report, the HLUI search results had not yet been received. A copy of the HLUI request form is provided in Appendix 2.

Environmental Risk Information Service (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I Property and properties within the Phase I - Study Area. Based on the results in the ERIS document, there are no records associated with the Phase I – Property.

50 total records from various databases were identified in the ERIS search within the 250 m search radius, which included Boreholes, Certificates of Approvals (CAs), Environmental Sector Activity Sector Registry (EASR), Environmental Compliance Approvals (ECAs), ERIS Historical Searches, Ontario Waste Generators, Pesticide Register, Permit to Take Water and Water Well Information Systems (WWIS).

The O. Reg 347 Waste Generator records associated with the Automotive Parts and Accessories Department within the Walmart west of the Phase I – Property represent a PCA. The O. Reg 347 Waste Generator records pertain to waste classes that include acid waste-heavy metals, paint/pigment/coating residues, waste oils and lubricants, and inorganic laboratory chemicals. The waste generators and associated waste classes represent a PCA however, based on their separation distance (64 m W), age of operation (2014) and cross gradient orientation with respect to the subject site, they are not considered to result in an APEC.

The ECAs and CAs pertained solely to municipal, industrial, and private sewage works and the documented EASR is associated with a commercial heating system. No other PCAs were identified through a review of the ERIS Database report.

4.3 Physical Setting Sources

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. Based on the review, the following observations have been made:

- | | |
|------|---|
| 1945 | The subject site consists of a vacant agricultural field and what appears to be a small centrally located structure. Surrounding properties are also agricultural fields, except for a woodland to the northeast. Hazeldean Side Road and Fernbank Road can be seen in their current configurations immediately east and north of subject site, respectively. |
| 1984 | No significant changes have been made to the Phase I – Property since the previous photograph. Mahoney Creek and increased residential development can be seen to the northeast and east of the subject site, respectively. |
| 1993 | No significant changes have been made to the Phase I – Property or surrounding lands since the previous photograph. |
| 1998 | No significant changes have been made to the Phase I - Property or surrounding lands since the previous photo. |
| 2005 | No changes have been made to the Phase I – Property since the previous photograph. Terry Fox Drive has been constructed along the western side of the subject property, and Cope Drive appears to be under construction. |
| 2008 | No changes have been made to the Phase I – Property since the previous photograph. Patriot Place and Templeford Avenue are under construction to the east of the subject property. |
| 2017 | No significant changes have been made to the Phase I – Property since the previous photograph. The large commercial complex consisting of Walmart and other businesses can now be seen to the west of the subject site across Terry Fox Drive. |

Copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the subject site is approximately 95 m above sea level. The regional topography in the general area of the site slopes slightly downward towards Mahoney Creek, located approximately 340 m northeast of the Phase I - Property. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website, as a part of this assessment. According to the publication and mapping, the site is situated within the St. Lawrence Lowlands, Till Plains (Drumlinized) physiographic region. According to the mapping description provided: “The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets.” The subject site is in the Central St. Lawrence Lowland, “where the land is rarely more than 150 m above sea level, except for the Monteregion Hills, which consist of intrusive igneous rocks.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River Formation. Overburden consists of offshore and nearshore marine sediments and some organic deposits, with a drift thickness of 10 to 50 m.

Water Well Records

A search of the MECPs web site for all drilled well records within 250 m of the subject site was conducted on January 25, 2021. Based on the search results, six (6) water supply well records were identified in the Phase I study Area.

Based on the well records for the surrounding area, the subsurface profile consists primarily of native sand and clay till overlaying limestone and sandstone bedrock. The bedrock was intercepted at an average depth of 48 meters.

A copy of the well records has been included in Appendix 2.

Areas of Natural Significance and Water Bodies

A stormwater management pond is present to the northwest of the subject site, across Terry Fox Drive. Mahoney Creek is the closest water body, which is located approximately 342 m northeast of the Phase I - Property. No other creeks, streams, lakes, or other water bodies were identified in the area. No areas of natural significance were identified within the Phase I study area.

5.0 INTERVIEWS

Property Owner Representative

The current property owner, Mr. Martin Vangaal, was interviewed via phone call on January 21, 2021 as part of the Phase I ESA. Mr. Vangaal indicated that his family acquired the property in the early 1960s and that the property has solely been used for agricultural purposes.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on January 21, 2021. Weather conditions were overcast with a temperature of approximately -9°C. Personnel from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at the Phase I Property

Site Features

The Phase I - Property consists of an agricultural field that is relatively at grade with Terry Fox Drive. The site and regional topography slopes slightly downward to the north/northeast towards Mahoney Creek. Water drainage on the Phase I - Property consists primarily of surface infiltration, in addition to surface runoff towards ditches along Terry Fox Drive. No signs of staining or indications of potential subsurface contamination were observed at the time of the site visit.

A depiction of the Phase I – Property is presented on Drawing PE5159-3 – Site Plan, in the Figures section of this report.

Potential Environmental Concerns

Fuels and Chemical Storage

No above ground storage tanks (ASTs) or signs of underground storage tanks (USTs) were observed on the exterior of the subject property at the time of the site visit.

Hazardous Materials and Unidentified Substances

No hazardous materials, unidentified substances, surficial staining, abnormal odours, or indications of potential sub-surface contamination were observed on the subject property at the time of the site inspection.

Transformer Oil and Polychlorinated Biphenyls (PCBs)

No transformers or other sources of PCBs were observed on the subject property at the time of the site inspection.

Waste Management

No waste is being produced on the Phase I – Property.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection.

Land use adjacent to the subject site is as follows:

North - Cope Drive followed by vacant land.

South - Fernbank Road followed by residential dwellings.

East - Residential dwellings followed by the Monahan Drain;

West - Terry Fox Drive, followed by Walmart and Jiffy Lube.

The Jiffy Lube addressed 1180 Terry Fox Drive located west of the Phase I – Property across Terry Fox Drive is considered to represent a PCA. However, based on the age of operation (2016), and its distance from the subject site (approximately 65 m west), the service garage is not considered to represent an APEC on the Phase I - Property. No other PCAs were identified on the neighbouring properties in the Phase I - Study Area. Property use within the Phase I study area is presented on Drawing PE5159-4 – Surrounding Land Use Plan.

Land use within the Phase I Study Area (250 m radius) is primarily used for residential and agricultural purposes.

No existing off-site PCAs were identified at the time of the site visit. Surrounding land use is shown on Drawing PE5159-4 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The subject site appears to have never been developed and consists primarily of vacant land with the southern portion being comprised of an agricultural field.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

Two (2) PCAs were identified in the form of an operational service garage and O.Reg 347 Waste Generator records and associated waste classes documented for the Walmart located west of the Phase I – Property. Based on their separation distances, age of operation and cross gradient orientation with respect to the subject site, the service garage and waste generators are not considered to result in an APEC on the Phase I – Property.

Contaminants of Potential Concern

No Contaminants of Potential Concern were identified on the subject site.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

The subject site is located in an area of limestone and dolomite bedrock with marine sediment overburden of 10 to 50 m in depth. Groundwater flow is expected to flow to the central part of the site, towards Mahoney Creek.

Existing Buildings and Structures

The site is not occupied by any buildings or structures.

Water Bodies and Areas of Natural Significance

No areas of natural significance were identified on the Phase I Property or within the Phase I Study Area. One small creek was identified approximately 50 meters west of the subject property.

Drinking Water Wells

There are no domestic drinking water wells located on the subject site.

Neighbouring Land Use

Neighbouring land use in the Phase I – Study Area currently consists of vacant, residential, agricultural, and commercial uses. No PCAs were identified with respect to land use in the Phase I – Study Area.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, no PCAs were identified on the subject site or in the Phase I study area that represent Areas of Potential Environmental Concern.

Contaminants of Potential Concern

There are no contaminants of potential concern on the Phase I - Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are no APECs on the subject site. The presence of two (2) PCAs that are not considered to represent APECs on the Phase I – Property, were confirmed by a variety of independent sources, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

A Phase I – Environmental Site Assessment was carried out for 5331 Fernbank Road in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and adjacent properties and identify any environmental concerns with the potential to impact the Phase I - Property.

Based on a review of historical sources, the Phase I - Property appears to have never been formally developed and has solely existed as an agricultural field. No historical PCAs were identified on the Phase I - Property or surrounding lands.

Following the historical review, a site visit was conducted. The Phase I - Property currently exists as an agricultural field. No PCAs were identified with respect to the current use of the Phase I – Property.

The surrounding land use consisted of commercial, residential, and vacant properties. Two (2) PCAs were identified in the form of a Jiffy Lube addressed 1180 Terry Fox Drive and the O.Reg 347 Waste Generator records and associated waste classes for the Walmart addressed 5357 Fernbank. Based on the separation distances (65 m W) and age of the automotive service garage (2016) and Walmart (2014), they are not considered to result in APECs on the Phase I – Property.

Conclusion

Based on the results of this Phase I - Environmental Site Assessment, it is our opinion that **a Phase II - Environmental Site Assessment is not required for the property.**

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Claridge Homes. Permission and notification from Claridge Homes and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Samuel Berube, B.Eng.



Mark S. D'Arcy, P.Eng., QPESA

Report Distribution:

- Claridge Homes
- Paterson Group Inc.

10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.
National Archives.
Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

Provincial Records

MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP document titled “Waste Disposal Site Inventory in Ontario”.
MECP Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MECP Water Well Record Inventory.
Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.
geoOttawa: City of Ottawa electronic mapping website.
City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE5159-3 – SITE PLAN

DRAWING PE5159-4 – SURROUNDING LAND USE PLAN

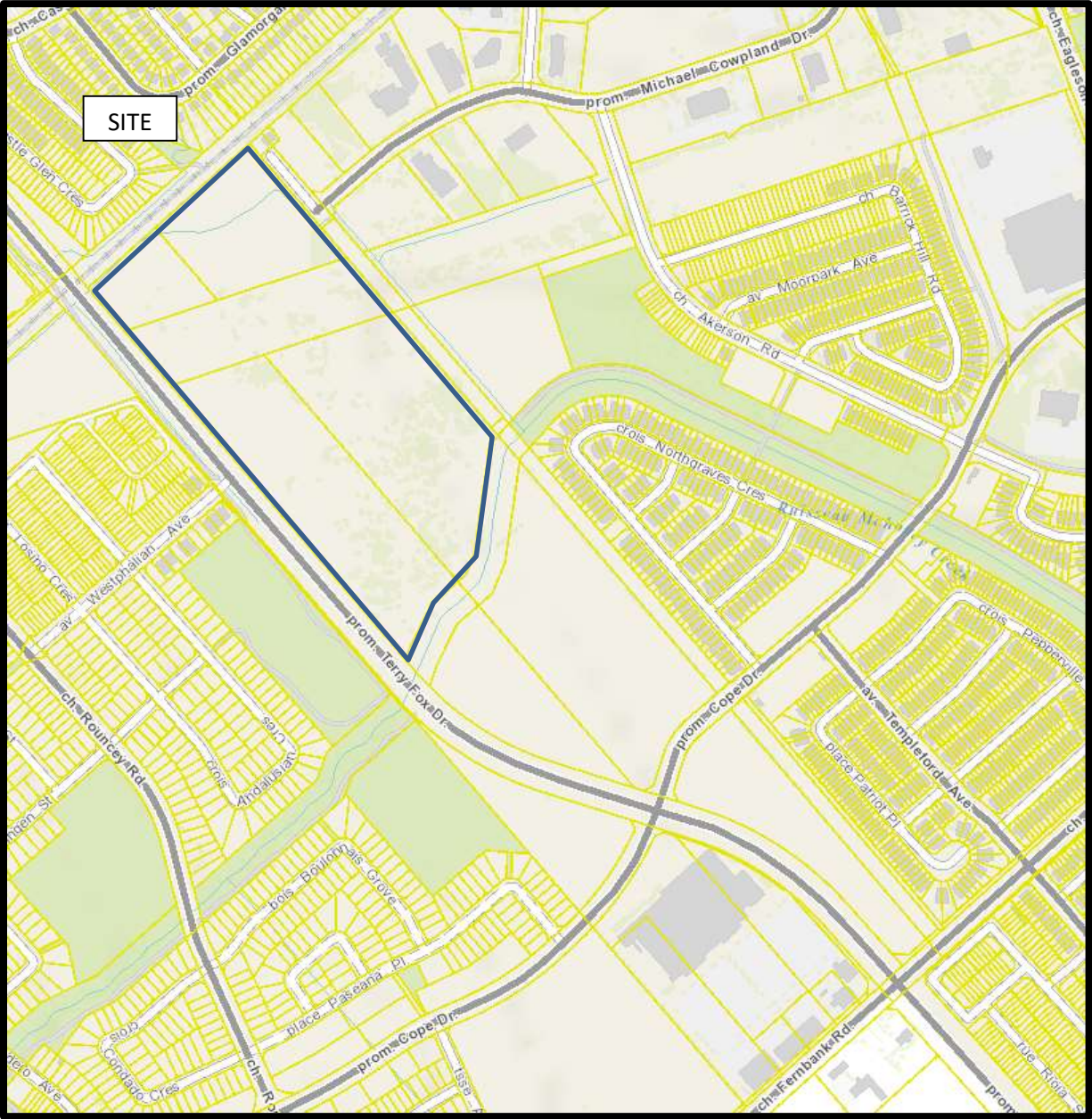


FIGURE 1
KEY PLAN

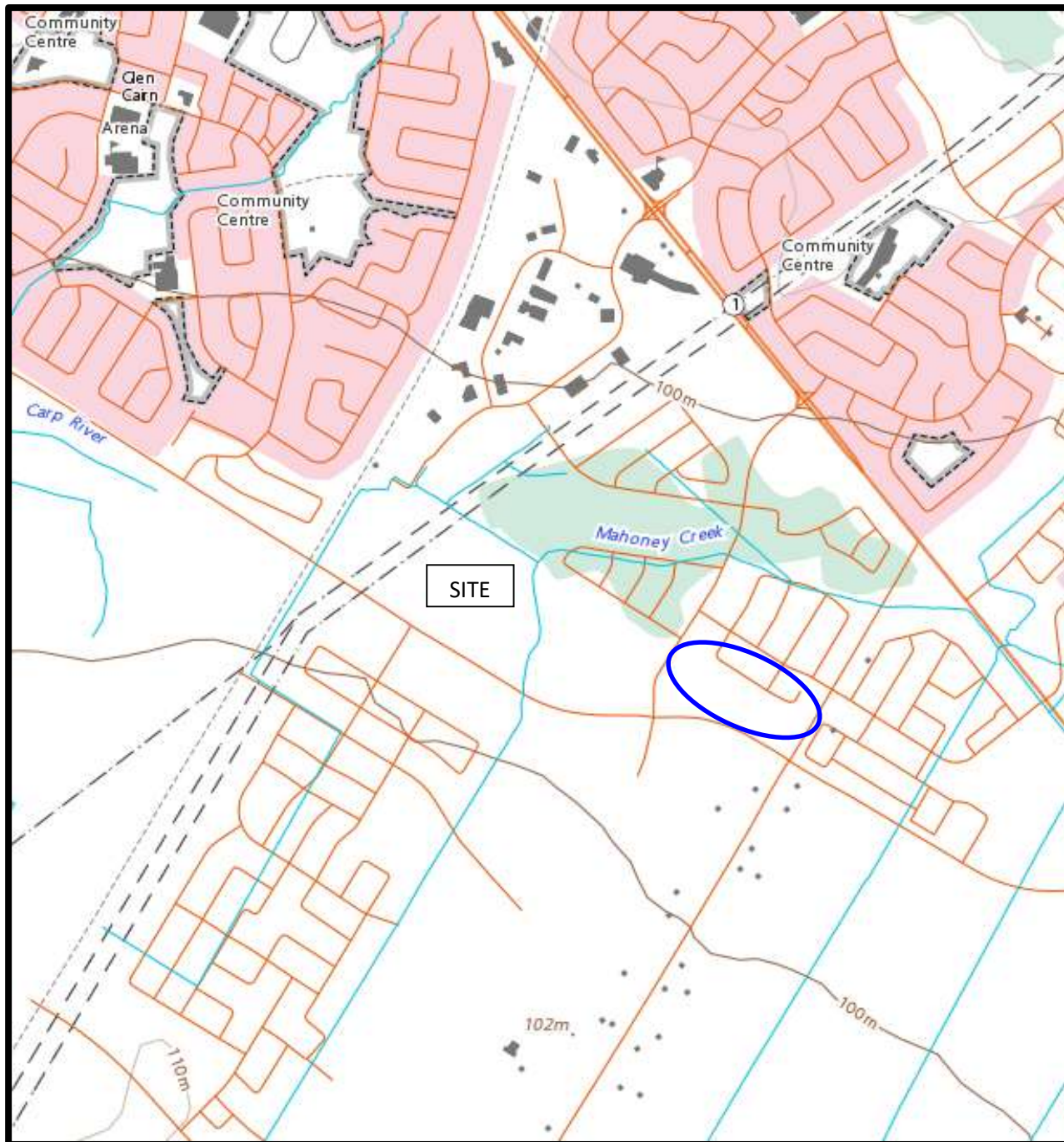
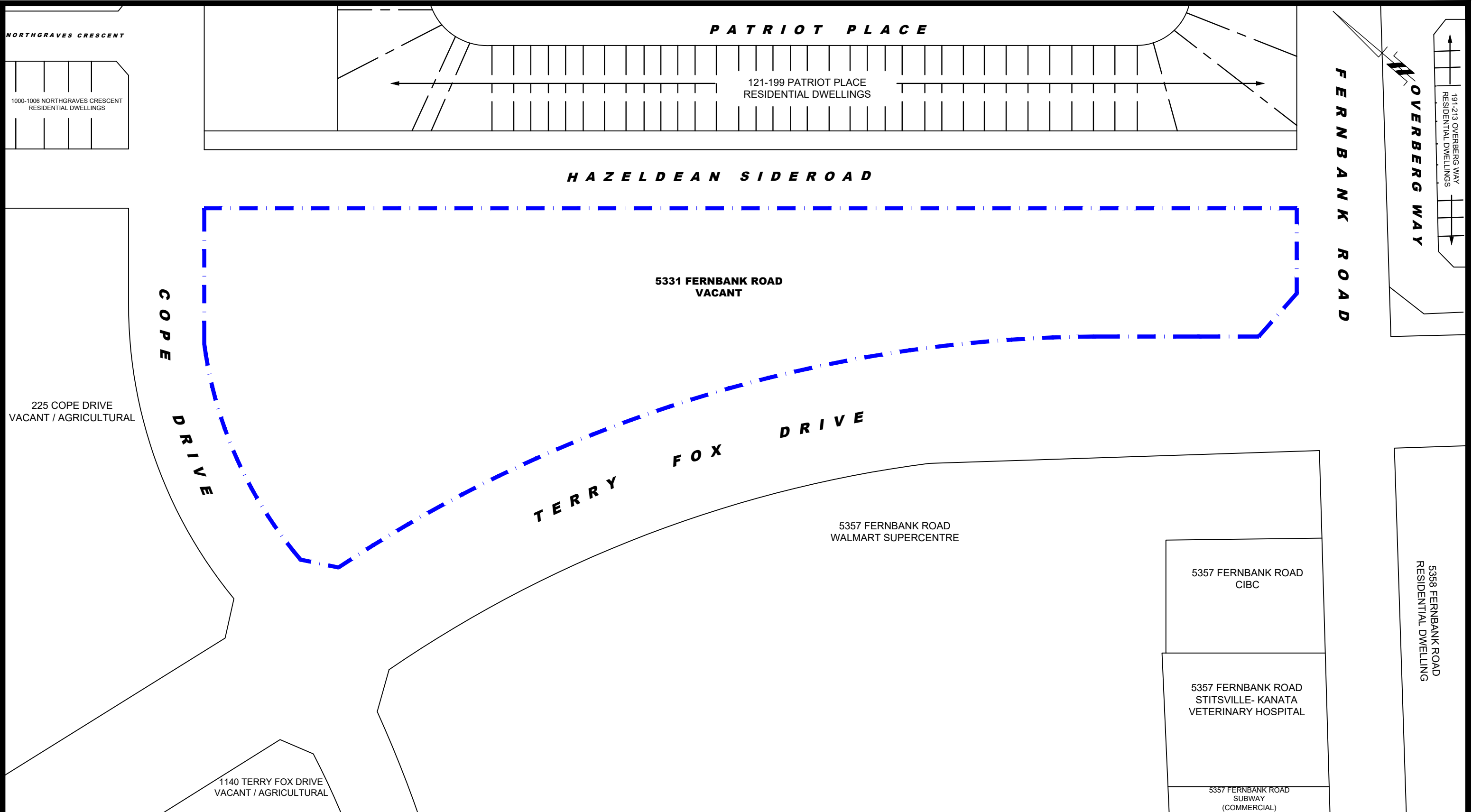


FIGURE 2
TOPOGRAPHIC MAP



patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

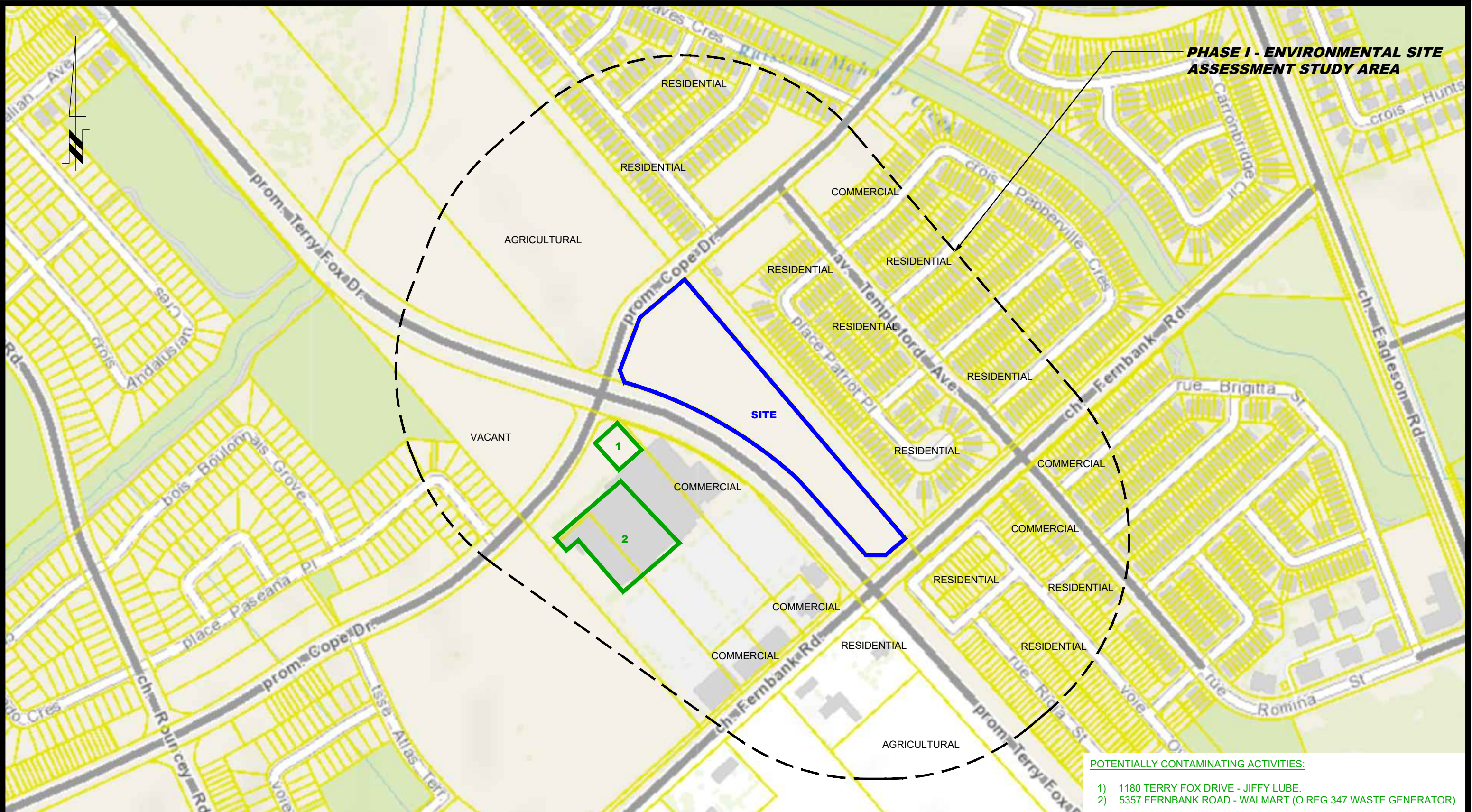
NO.	REVISIONS	DATE	INITIAL

CLARIDGE HOMES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
5331 FERNBANK ROAD

OTTAWA, ONTARIO

SITE PLAN

Scale:	1:1250	Date:	01/2021
Drawn by:	JM	Report No.:	PE5159-1
Checked by:	SB	Dwg No.:	PE5159-3
Approved by:	MSD	Revision No.:	



patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

CLARDIGE HOMES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
 5331 FERNBANK ROAD
 OTTAWA, ONTARIO
 Title: **SURROUNDING LAND USE PLAN**

Scale:	1:4000	Date:	01/2021
Drawn by:	JM	Report No.:	PE5159-1
Checked by:	SB	Dwg No.:	PE5159-4
Approved by:	MSD	Revision No.:	

p:\autocad\drawings\environmental\pe5159\pe5159-4-surrounding land use plan.dwg

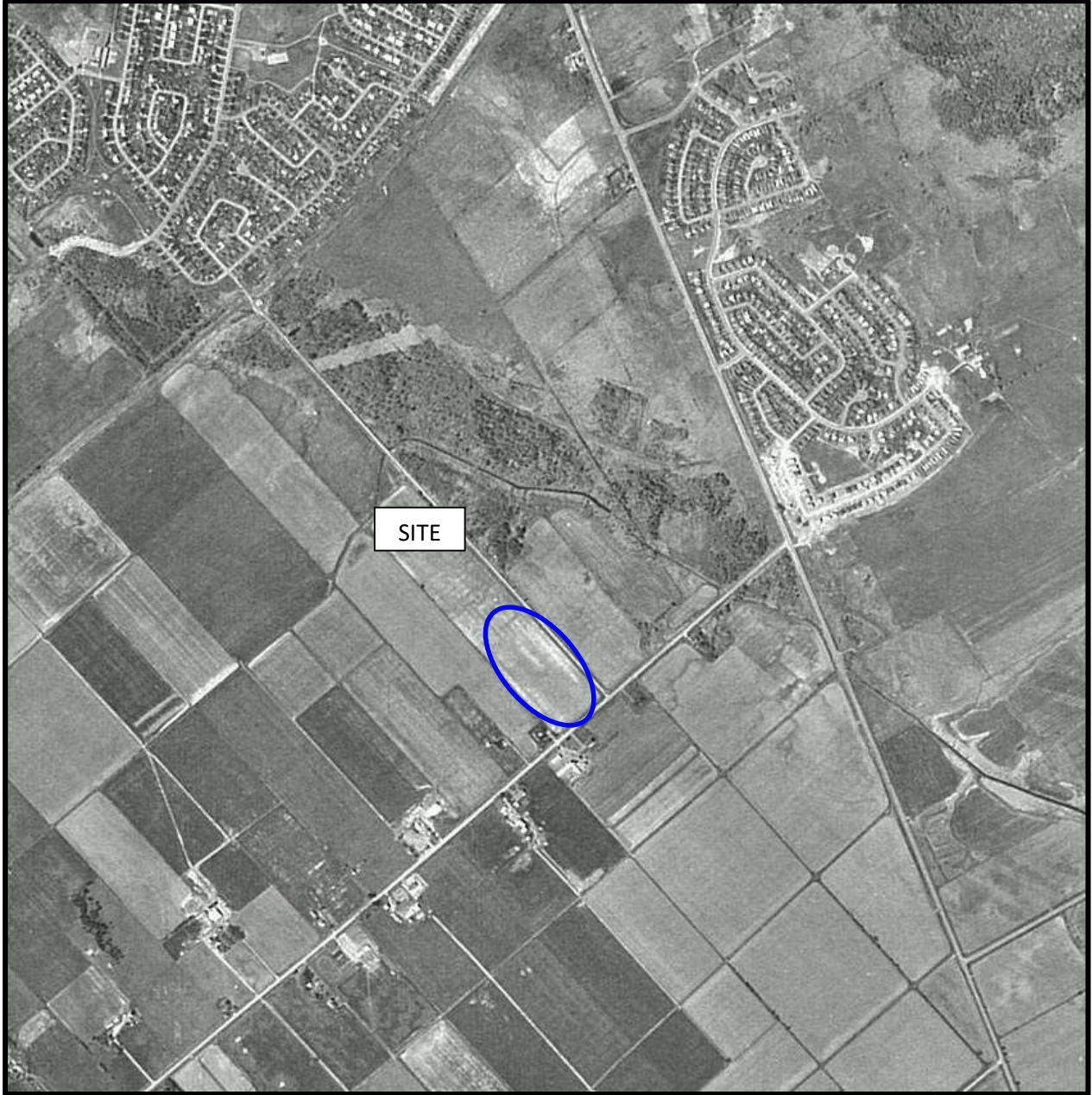
APPENDIX 1

AERIAL PHOTOGRAPHS

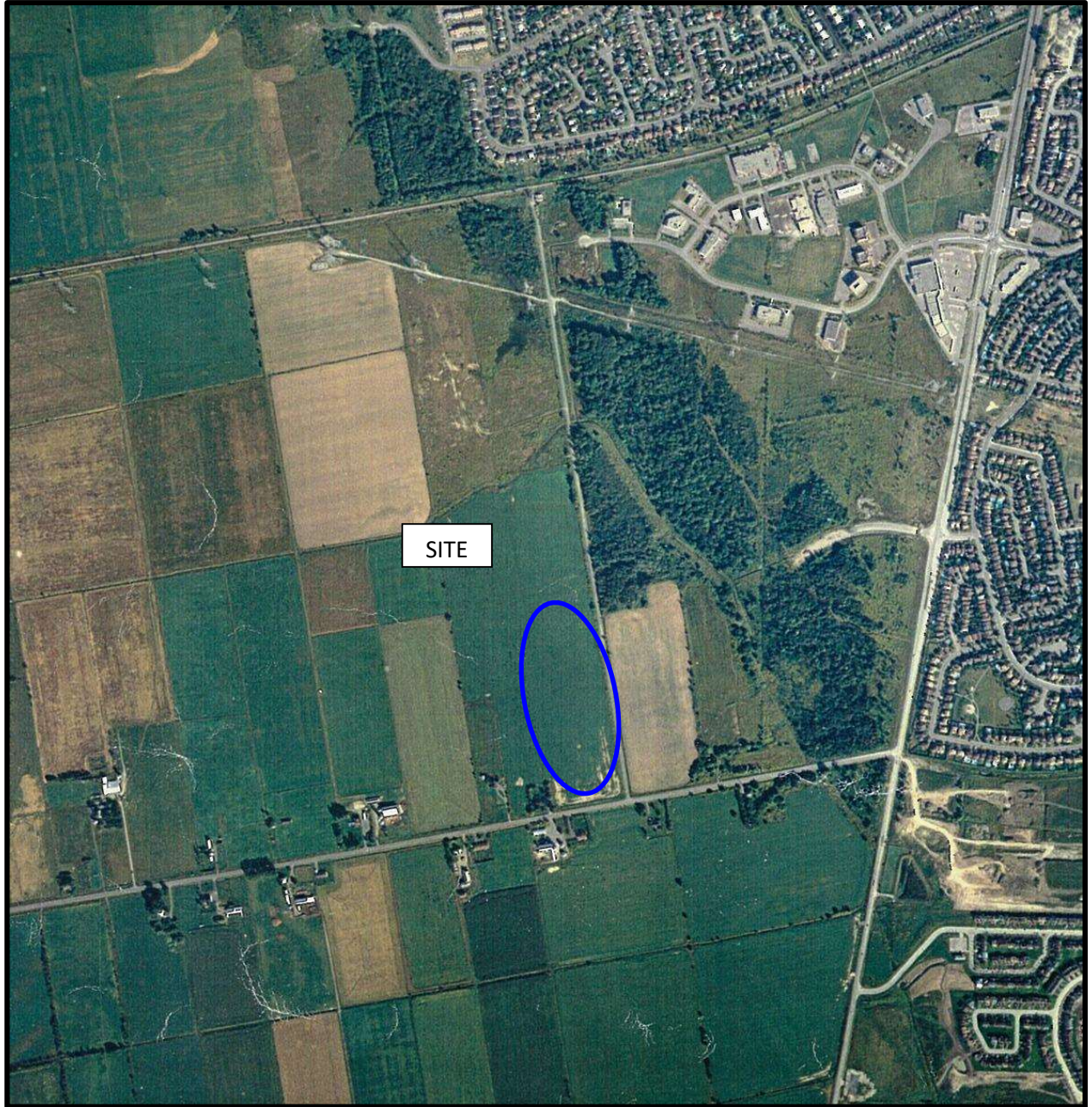
SITE PHOTOGRAPHS



AERIAL PHOTOGRAPH
1945



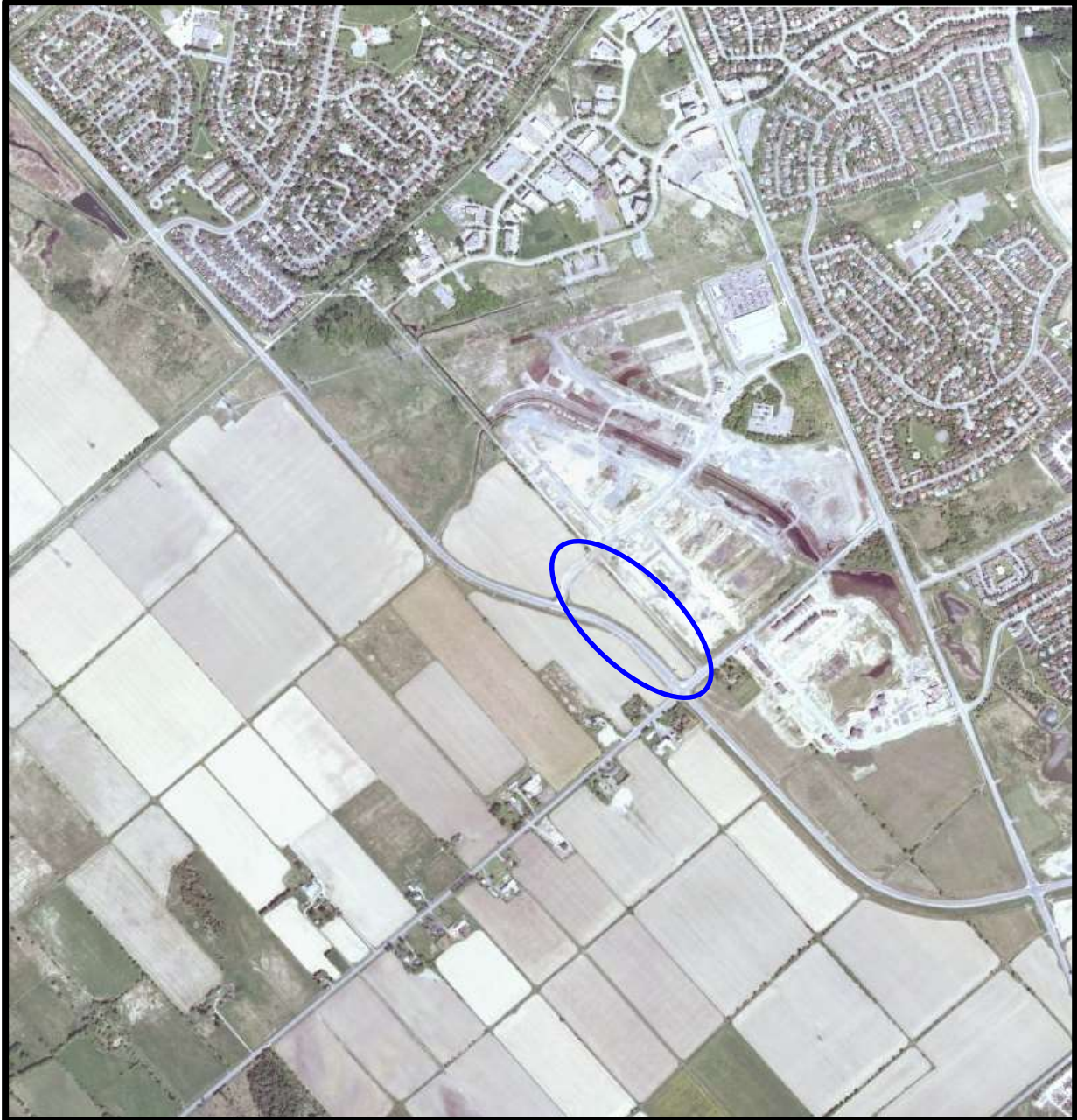
AERIAL PHOTOGRAPH
1984



AERIAL PHOTOGRAPH
1993



AERIAL PHOTOGRAPH
1998



AERIAL PHOTOGRAPH
2008



AERIAL PHOTOGRAPH
2017

Site Photographs

PE5159

5331 Fernbank Road – Ottawa, ON

January 22, 2021



Photograph 1: View of subject property from Cope Drive, looking south.



Photograph 2: View of subject property from Cope Drive, looking west.

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI APPLICATION FORM

MECP WELL RECORDS

ERIS Report

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Samuel Berube Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: sberube@patersongroup.ca			FOI Request No.	Date Request Received
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH	
Your Project/Reference No. PE5159		Signature/Print /Name of Requester Samuel Berube		
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) 1039 Terry Fox Drive and 5331 Fernbank Road, Ottawa, Ontario Part of Lot 30 and Lot 31, Concession 10, Geographic Township of Goulbourn, City of Ottawa				
Present Property Owner(s) and Date(s) of Ownership Martin Vangaal				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s), (if applicable)				
Search Parameters				Specify Year(s) Requested
<i>Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.</i>				
Environmental concerns (General correspondence, occurrence reports, abatement)				all
Orders				all
Spills				all
Investigations/prosecutions ► Owner AND tenant information must be provided				all
Waste Generator number/classes				all
Certificates of Approval ► Proponent information must be provided				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
			SD	Specify Year(s) Requested
air - emissions				1986-present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)				1986-present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations				1986-present
waste water - industrial discharges				1986-present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites				1986-present
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste				1986-present
pesticides - licenses				1986-present

A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.

Samuel Berube

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: January 22, 2021 8:51 AM
To: Samuel Berube
Subject: RE: PE5159- TSSA Request

Hello,

Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationsservices@tssa.org or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Thanks,



Sherees Thompson | Public Information Agent

Facilities
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3363 | Fax: +1-416-231-6183 | E-Mail: sthompson@tssa.org
www.tssa.org



From: Samuel Berube <SBerube@Patersongroup.ca>
Sent: January 20, 2021 10:11 AM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: PE5159- TSSA Request

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

Can you please search your records for the following addresses in the City of Ottawa?

5331, 5357, 5505 – **Fernbank Road**

950, 1036, 1140 – **Terry Fox Drive**

280, 390, 415 - **Michael Cowpland Drive**

180 – **Cope Drive**

Thank you,

Samuel Berube, B.Eng.

patersongroup
solution oriented engineering
over 60 years serving our clients

154 Colonnade Road South
Ottawa, Ontario, K2E 7J5

Tel: (613) 226-7381

Cell: 613-558-0932

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

Office Use Only

Application Number: _____	Ward Number: _____	Application Received: (dd/mm/yyyy): _____
Client Service Centre Staff: _____	Fee Received: \$	<input type="text"/>



Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning Infrastructure and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

Background Information

***Site Address or Location:**

**Mandatory Field*

Applicant/Agent Information:

Name:

Mailing Address:

Telephone: Email Address:

Registered Property Owner Information: Same as above

Name:

Mailing Address:

Telephone: Email Address:

Site Details

Legal Description and PIN:

Part of Lot 30, Concession 6, Township of Goulbourn

What is the land currently used for?

Vacant

Lot frontage:

m

Lot depth:

m

Lot area:

m²

OR

Lot area: (irregular lot)

243,087

m²

Does the site have Full Municipal Services:

Yes

No

Required Fees

Please don't hesitate to visit [the Historic Land Use Inventory website](#) more information. Fees must be paid in full at the time of application submission.

Planning Fee

\$105.00

Submittal Requirements

The following are required to be submitted with this application:

- 1. Consent to Disclose Information:** Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, **the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner.** This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.
- 2. Disclaimer:** Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Infrastructure and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.
- 3. A site plan or key plan of the property, its location and particular features.**
- 4. Any significant dates or time frames that you would like researched.**

Disclaimer
For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the Historical Land Use Inventory ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to Paterson Group _____ ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI 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.
2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.
3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
4. Copyright is reserved to the City.
5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed:  _____

Dated (dd/mm/yyyy): 19/01/2021

Per: Samuel Berube
(Please print name)

Title: Jr. Environmental Engineer

Company: Paterson Group

316/50 6

UTM 18 431510 E

5R 5013720 N

Elev. 4R 0320

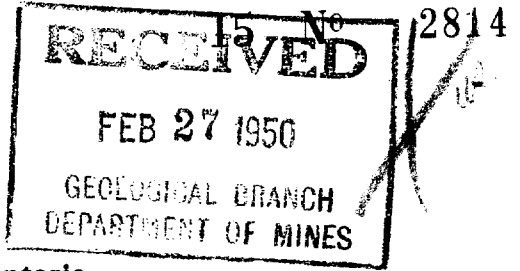
Basin 25



ONTARIO

The Well Drillers Act

Department of Mines, Province of Ontario



Water Well Record

BURN Con. 10 Lot. 30 Pt. Lot.

STILLSVILLE Acres 100

Date Completed July 49 Cost of Well (not including pump) 425.00

Pipe and Casing Record

Pumping Test

Casing diameter(s) 4"	Date
Length(s) of casing(s) 123'	Developed Capacity
Length of screen	Duration of Test 1/2 hr
Type of screen	Pumping Rate 29.0 p.m.
Type of pump	Drawdown 2.5 p.m.
Capacity of pump	Static level of completed well Flowing well (RH)
Depth of pump setting	Is well a gravel-wall type?

Water Record

Kind (fresh or mineral) fresh	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur etc.) soft			
Appearance (clear, cloudy, coloured) clear			
For what purpose(s) is the water to be used? stock		Flowing well	
How far is well from possible source of contamination? 1/4 mi			
What is source of contamination? pasture field			
Enclose a copy of any mineral analysis that has been made of water			

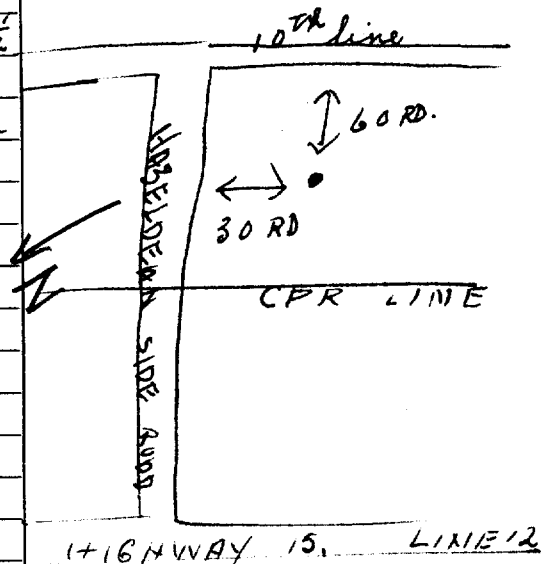
Well Log

Drift and Bedrock Record

	From	To
clay	0 ft.	115 ft.
gravel	115	121 1/2
sand	121 1/2	123

Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside?

Drilling Firm Hunt Bradley

Address Stillville

Recorded by Jim Friend per Hunt Bradley Address Stillville

Date Nov 22/49 Licence Number 339



Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the [Open Data catalogue](#).

[Go Back to Map](#)

Well ID

Well ID Number: 1502817

Well Audit Number:

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location

Township	GOULBOURN TOWNSHIP
Lot	030
Concession	CON 10
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 431630.70 Northing: 5013722.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLUE	CLAY			0 ft	100 ft
GREY	CLAY	STNS		100 ft	112 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
------------	----------	--	---------------

Method of Construction & Well Use

Method of Construction	Well Use
Cable Tool	Domestic Livestock

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		112 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 4824

Results of Well Yield Testing

After test of well yield, water was	CLOUDY
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	3 GPM
Duration of Pumping	0 h:30 m
Final water level	20 ft
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	PUMP

Disinfected?**Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	15 ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
112 ft	Fresh

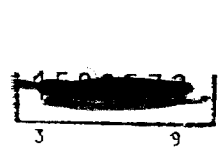
Hole Diameter

Depth From	Depth To	Diameter
------------	----------	----------

Audit Number:**Date Well Completed:** February 28, 1957**Date Well Record Received by MOE:** September 16, 1957

Updated: January 24, 2020

UTM ⁶⁷ 18Z 131730E
 50 20 40
 50 20 40



15 No 2818 ^B

Con X
 Lot 30
 CODED

The Ontario Water Resources Commission Act

Elev. 5R 0316

WATER WELL RECORD

Basin 25
 County or District Carleton
 Con. 10 Lot 31 30

Township Village, Town or City Goulbourn
 Date completed 20 Oct 67
 (day 12 month 10 year 1968)
 Address Stittsville Ont.

Casing and Screen Record

Inside diameter of casing 4"
 Total length of casing 136'
 Type of screen metal
 Length of screen _____
 Depth to top of screen _____
 Diameter of finished hole 4"

Pumping Test

Static level 5'
 Test-pumping rate 10 G.P.M.
 Pumping level 7'
 Duration of test pumping 1/2 hr.
 Water clear or cloudy at end of test clear
 Recommended pumping rate 10 G.P.M.
 with pump setting of 30 feet below ground surface

Well Log

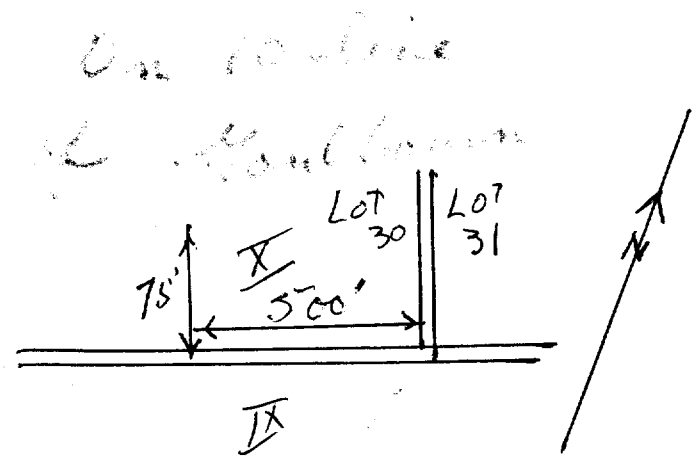
Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>Blue clay</u>	<u>0</u>	<u>130</u>		
<u>gravel</u>	<u>130</u>	<u>136</u>	<u>130-136</u>	<u>fresh</u>

For what purpose(s) is the water to be used? Farm home
 Is well on upland, in valley, or on hillside? valley
 Drilling or Boring Firm J.P. Sparks
 Address Stittsville Ont.
 Licence Number 2745
 Name of Driller or Borer J.P. Sparks
 Address Stittsville Ont.
 Date Dec 20 1967
 (Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



No 592

31G/5c.



15 N^o 2819 B

UTM 18 24 4 31 17 00 E

Elev. 5 R 599 3 5 4 0 N
The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 2 5 L 1 Carlton Township, Village, Town or City Goulbourn
County or District

Con 10 Lot 31 30 ⁴⁶³ Date completed 1st December 1967
(day month year)
Address R.R. 1 - Stittsville, Ont.

Casing and Screen Record

Inside diameter of casing 4" old - 2"
Total length of casing 56 - 2"
Type of screen -
Length of screen -
Depth to top of screen -
Diameter of finished hole 2

Pumping Test

Static level 4
Test-pumping rate 700 GPH ~~XXXXX~~
Pumping level 28
Duration of test pumping 1 hr.
Water clear or cloudy at end of test clear
Recommended pumping rate 5 G.P.M.
with pump setting of 40 feet below ground surface

Well Log

Overburden and Bedrock Record

Water Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>4" already drilled</u>	<u>0</u>	<u>136</u>	<u>155</u>	<u>fresh</u>
<u>2" sand</u>	<u>136</u>	<u>140</u>		
<u>rock, sandstone & limestone mix</u>	<u>140</u>	<u>159</u>		

For what purpose(s) is the water to be used? farm

Is well on upland, in valley, or on hillside? valley

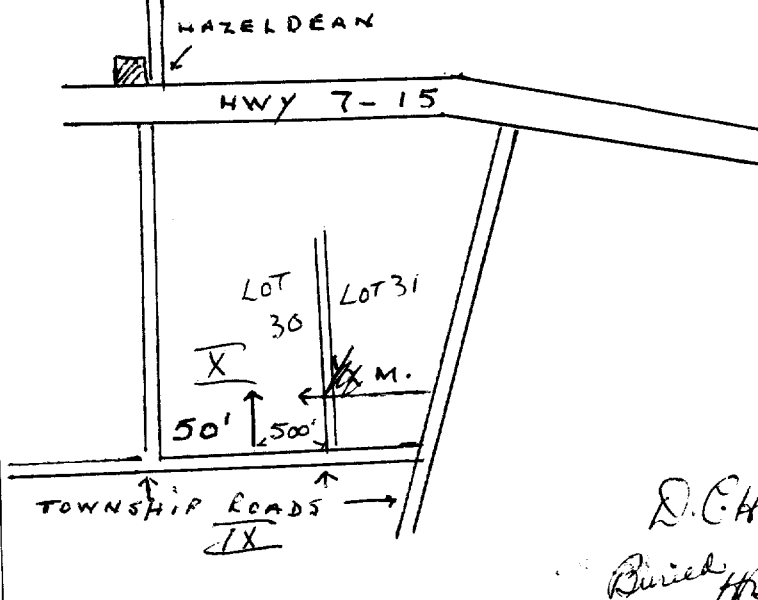
Drilling or Boring Firm
J.B. DUFRESNE & CO. LIMITED
Address 1014 Maitland Ave.,
Ottawa 5, Ont.

Licence Number
Name of Driller or Borer V. Cossette
Address 60 Clarence - Eastview, Ont.
Date December 1st 1967

(Signature of Licensed Drilling or Boring Contractor)
for: J.B. Dufresne & Co. Limited
Form 7 15M-60-4138

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



D.C.H.
Buried



The Ontario Water Resources Commission Act WATER WELL RECORD

3165e

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11
1 2

1510977

MUNICIP. 15003

CON. April

22 23 24 09

COUNTY OR DISTRICT: CARLETON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: GOULBOURN CON., BLOCK, TRACT, SURVEY, ETC.: 9 LOT: 030

DATE COMPLETED: DAY 19 MO. 11 YR 70

R.#1 STITTSVILLE

RC: 13620 4 ELEVATION: 0320 4 BASIN CODE: 25 7

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	FILL	GRAVEL	PACKED	0	4
BLUE	CLAY		SOFT	4	110
BROWN	CLAY	STONES	SOFT	110	127
GRAY	HARDPAN	BOULDERS	HARD	127	140
GRAY	LIMESTONE		HARD	140	158

31 32

10 14 15 21 32 43 54 65 75 80

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0156	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
04	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	142
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		142	158
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			0158
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
		41-44

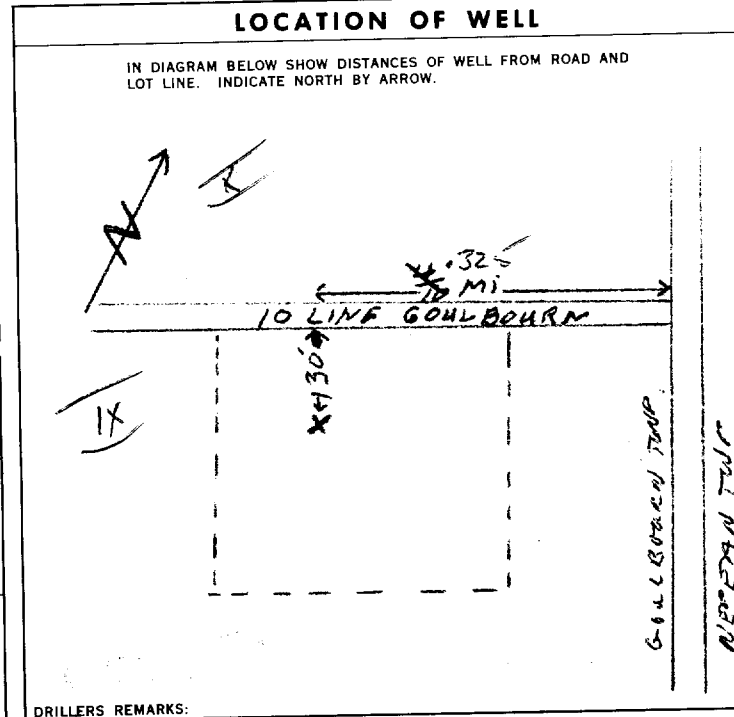
61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	
18-21	
26-29	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	0020 GPM.	01 HOURS 00 MINS.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
012 FEET	012 FEET	15 MINUTES: 012 FEET 30 MINUTES: 012 FEET 45 MINUTES: 012 FEET 60 MINUTES: 012 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	030 FEET	1 <input type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	030 FEET	0005 GPM.

50-53 040.0 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

1 WATER SUPPLY 2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL 5 ABANDONED, INSUFFICIENT SUPPLY 6 ABANDONED, POOR QUALITY 7 UNFINISHED

WATER USE

1 DOMESTIC 2 STOCK 3 IRRIGATION 4 INDUSTRIAL 5 OTHER 6 COMMERCIAL 7 MUNICIPAL 8 PUBLIC SUPPLY 9 COOLING OR AIR CONDITIONING 10 NOT USED

METHOD OF DRILLING

1 CABLE TOOL 2 ROTARY (CONVENTIONAL) 3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION 6 BORING 7 DIAMOND 8 JETTING 9 DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: CAPITAL WATER SUPPLY LICENCE NUMBER: 1558
 ADDRESS: 14 ASHFORD Dr Ottawa 6
 NAME OF DRILLER OR BORER: J. MOORE LICENCE NUMBER:
 SIGNATURE OF CONTRACTOR: Walter Kavanagh SUBMISSION DATE: DAY MO YR.

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 021270
 DATE OF INSPECTION: INSPECTOR:
 REMARKS: P/WI



Ministry of the Environment

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1516663 15003 CON 09

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Houlbourn CON., BLOCK, TRACT, SURVEY, ETC.: 9 LOT: 030

OWNER (SURNAME FIRST): Van De Ven Const. ADDRESS: Hwy 16, Manotick Ont DATE COMPLETED: DAY 15 MO 08 YR 78

ZONE: 18 EASTING: 431399 NORTHING: 5613699 RC: 4 ELEVATION: 10320 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>Brown</u>	<u>clay</u>			<u>0</u>	<u>12</u>
<u>Blue</u>	<u>clay</u>			<u>12</u>	<u>156</u>
<u>Grey</u>	<u>limestone</u>	<u>layers</u>	<u>soft</u>	<u>156</u>	<u>185</u>

MOE
VF-18

31 0012605 0152305 01852157485

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
<u>0180</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>6 7/8</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>.188</u>	<u>0</u>	<u>0157</u>
<u>06</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>157</u>	<u>0185</u>

SCREEN

SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

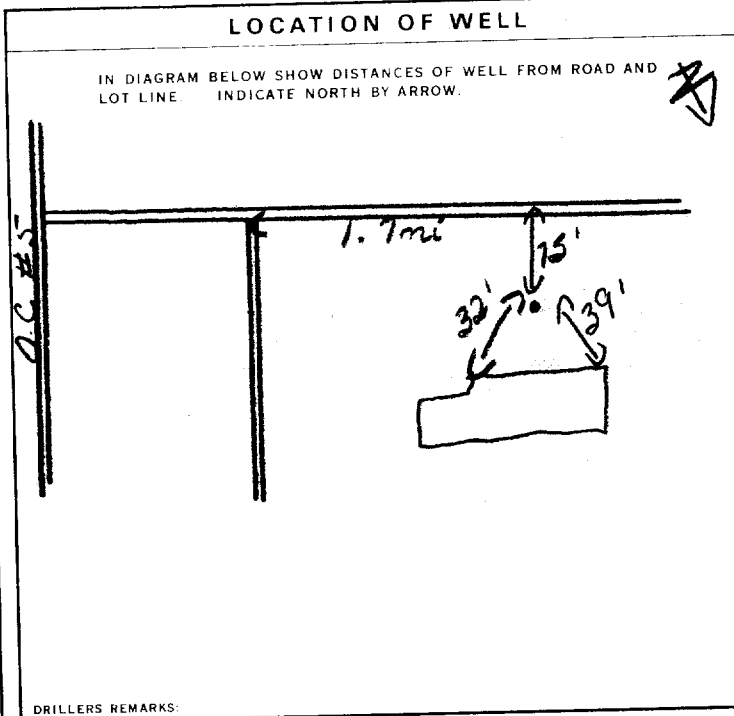
MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
FROM: <u>10-13</u> TO: <u>14-17</u>		
FROM: <u>18-21</u> TO: <u>22-25</u>		
FROM: <u>26-29</u> TO: <u>30-33</u>		

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	<u>0015</u> GPM	<u>01</u> HOURS <u>00</u> MINS
STATIC LEVEL: <u>010</u> FEET	WATER LEVEL END OF PUMPING: <u>075</u> FEET	WATER LEVELS DURING:
		15 MINUTES: <u>075</u> FEET 30 MINUTES: <u>075</u> FEET 45 MINUTES: <u>075</u> FEET 60 MINUTES: <u>075</u> FEET
IF FLOWING GIVE RATE: _____ GPM	PUMP INTAKE SET AT: _____ FEET	WATER AT END OF TEST: 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: <u>075</u> FEET	RECOMMENDED PUMPING RATE: <u>0005</u> GPM



FINAL STATUS OF WELL: 1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED, POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL

WATER USE: 1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
 OTHER 9 NOT USED

METHOD OF DRILLING: 1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION

CONTRACTOR: NAME OF WELL CONTRACTOR: CAPITAL WATER SUPPLY LTD LICENCE NUMBER: 1558
ADDRESS: Box 490, STITTSVILLE

NAME OF DRILLER OR BORER: S. Miller LICENCE NUMBER: _____
SIGNATURE OF CONTRACTOR: W. Kawanaah SUBMISSION DATE: DAY 16 MO 8 YR 78

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 080978

DATE OF INSPECTION: _____ INSPECTOR: Km

REMARKS: _____

Print only in spaces provided. Mark correct box with a checkmark, where applicable.

11

1533046

Municipality 15003 Con. CAN 10

County or District: Ottawa Carleton; Township/Borough/City/Town/Village: Goulbourn; Con block tract survey, etc.: 10; Lot: 30; Owner's surname: Viend Construction; First Name: ; Address: Shitkville, Ont; Date completed: 23 07 02

Zone, Easting, Northing, RC, Elevation, RC, Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions). Table with columns: General colour, Most common material, Other materials, General description, Depth - feet (From, To). Rows include blue clay, sand, gravel, boulders, grey limestone.

31, 32

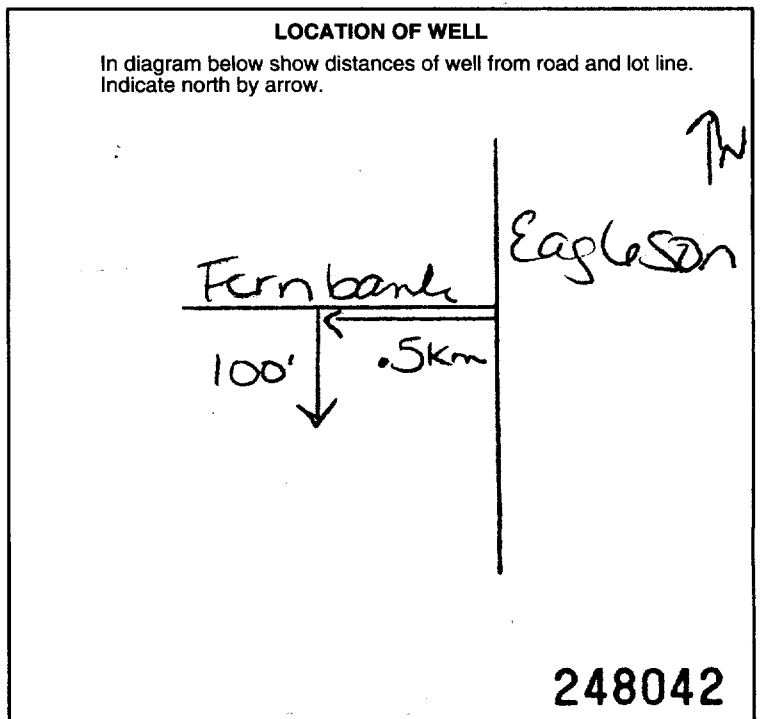
41 WATER RECORD. Table with columns: Water found at - feet, Kind of water. Rows include 150, 15-18, 20-23, 25-28, 30-33.

51 CASING & OPEN HOLE RECORD. Table with columns: Inside diam inches, Material, Wall thickness inches, Depth - feet (From, To). Rows include 6 1/4, 8 3/4, 6.

SCREEN. Table with columns: Sizes of opening (Slot No.), Diameter, Length, Material and type, Depth at top of screen.

61 PLUGGING & SEALING RECORD. Table with columns: Depth set at - feet (From, To), Material and type (Cement grout, bentonite, etc.). Row includes 2, 158, bentonite.

71 PUMPING TEST. Table with columns: Pumping test method, Pumping rate, Duration of pumping, Static level, Water level end of pumping, Water levels during, Pump intake set at, Water at end of test, Recommended pump type, Recommended pump setting, Recommended pump rate.



FINAL STATUS OF WELL, WATER USE, METHOD OF CONSTRUCTION. Multiple choice sections for well status, use, and construction method.

Name of Well Contractor: Arlrod Drilling Ltd; Well Contractor's Licence No.: 1119; Address: RR#1 Richmond, Ont; Name of Well Technician: Shannon Purcell; Well Technician's Licence No.: 12122; Signature of Technician/Contractor: ; Submission date: 12 08 02

MINISTRY USE ONLY. Data source: 1119; Date received: AUG 15 2002; Date of inspection; Inspector; Remarks: CSS.ES2



DATABASE REPORT

Project Property: *Phase I - ESA
5331 Fernbank Road
Stittsville ON K2S 1B6*

Project No: *31702*

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

Order No: *21012000215*

Requested by: *Paterson Group Inc.*

Date Completed: *January 25, 2021*

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	6
Executive Summary: Site Report Summary - Surrounding Properties.....	7
Executive Summary: Summary By Data Source.....	11
Map.....	17
Aerial.....	18
Topographic Map.....	19
Detail Report.....	20
Unplottable Summary.....	67
Unplottable Report.....	70
Appendix: Database Descriptions.....	93
Definitions.....	102

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Limited Partnership ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Limited Partnership. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property: *Phase I - ESA
5331 Fernbank Road Stittsville ON K2S 1B6*

Project No: *31702*

Order Information:

Order No: *21012000215*

Date Requested: *January 20, 2021*

Requested by: *Paterson Group Inc.*

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

Historical/Products:

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	4	4
CA	<i>Certificates of Approval</i>	Y	0	1	1
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	1	1
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	6	6
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	7	7
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	15	15
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	3	3
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	1	1
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	12	12
Total:			0	50	50

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
--------------------	-----------	--------------------------	----------------	---------------------	--------------------------	------------------------

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	CA	City of Ottawa	Terry Fox Drive (from Cope Drive to Fernbank Road) Ottawa ON	S/13.0	0.00	20
2	ECA	2129786 Ontario Limited	Fernbank Road and Terry Fox Drive Ottawa ON K2M 2E9	SE/36.3	0.00	20
3	ECA	Kanata Shopping Centres Limited	1180 Terry Fox Dr Ottawa ON K2B 8K2	W/66.7	0.31	20
4	ECA	Kanata Shopping Centres Limited	5343 Fernbank Rd Part of Lot 30, Conc. 10 Ottawa ON K2B 8K2	S/71.8	0.00	21
4	ECA	Kanata Shopping Centres Limited	5343 Fernbank Rd Part of Lot 30, Conc. 10 Ottawa ON K2B 8K2	S/71.8	0.00	21
5	WWIS		lot 30 con 10 ON Well ID: 1502814	WSW/92.4	1.00	21
6	BORE		ON	WSW/92.5	1.00	23
7	WWIS		lot 30 con 9 ON Well ID: 1510977	ESE/98.5	0.00	25
8	WWIS		lot 30 con 10 ON Well ID: 1533046	ESE/99.7	0.00	28
9	WWIS		lot 30 con 10 ON Well ID: 1502818	SSE/103.1	0.00	32
10	EHS		1140 Terry Fox Drive Stittsville ON K2S 1B9	W/114.9	1.00	34
10	EHS		1140 Terry Fox Drive Stittsville ON K2S 1B9	W/114.9	1.00	34

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
10	EHS		1140 Terry Fox Drive Stittsville ON K2S 1B9	W/114.9	1.00	34
10	EHS		1140 Terry Fox Drive Stittsville ON K2S 1B9	W/114.9	1.00	35
11	WWIS		lot 30 con 10 ON Well ID: 1502819	SSE/116.8	0.00	35
12	BORE		ON	SSE/116.9	0.00	37
13	WWIS		5355 FERNBANK ROAD lot 30 con 10 STITTSVILLE ON Well ID: 7175557	S/133.6	0.00	38
14	EHS		5357 Fernbank Road Kanata ON	SW/140.4	1.00	41
14	PES	WAL-MART CANADA CORP. - STORE #1118	5357 FERNBANK RD KANATA ON K2S 1B6	SW/140.4	1.00	41
14	GEN	Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON	SW/140.4	1.00	41
14	GEN	Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON	SW/140.4	1.00	41
14	EHS		5345 - 5375 Fernbank Road Kanata ON	SW/140.4	1.00	42
14	GEN	Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON	SW/140.4	1.00	42
14	GEN	Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON	SW/140.4	1.00	42
14	EASR	WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA	5357 Fernbank RD Kanata ON K2S 1B6	SW/140.4	1.00	43

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
14	GEN	Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	SW/140.4	1.00	43
14	GEN	Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	SW/140.4	1.00	43
14	GEN	Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	SW/140.4	1.00	44
14	GEN	Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	SW/140.4	1.00	44
14	GEN	Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	SW/140.4	1.00	45
14	GEN	Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	SW/140.4	1.00	45
14	GEN	Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	SW/140.4	1.00	46
14	GEN	Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	SW/140.4	1.00	46
14	PES	WAL-MART CANADA CORP. - STORE #1118	5357 FERNBANK RD KANATA ON K2S1B6	SW/140.4	1.00	47
14	PES	WAL-MART CANADA CORP. - STORE #1118	5357 FERNBANK RD KANATA ON K2S1B6	SW/140.4	1.00	47
14	GEN	Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	SW/140.4	1.00	47
14	GEN	Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	SW/140.4	1.00	48
15	ECA	Claridge Homes (Bridlewood Trails) Inc.	5358 Fernbank Rd Lot 30, Concession 9 Ottawa ON K2P 0Y6	SSE/142.8	0.00	49

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
16	WWIS		TEMPLEFORD/ FERNBANK lot 30 con 10 STITTSVILLE ON <i>Well ID:</i> 7175556	E/151.0	0.00	49
17	GEN	MENGI VETERINARY PROFESSIONAL CORPORATION	5373 FERNBANK ROAD C9 STITTSVILLE ON K2S1B6	S/153.9	-0.03	51
18	WWIS		lot 30 con 9 ON <i>Well ID:</i> 1516663	WSW/166.1	1.00	51
19	PTTW	2129786 Ontario Limited c/o Monarch Group	West Park Subdivision 5357, 5385, 5395, 5465, and 5571 Fernbank Road, Ottawa CITY OF OTTAWA ON	W/175.5	1.00	54
20	ECA	2129786 Ontario Limited	1140 Terry Fox Dr 5505 Fernbank Road Ottawa ON K2K 2M5	W/176.9	1.00	55
21	BORE		ON	NW/195.5	0.00	55
22	WWIS		5371 FERNBANK ROAD lot 30 con 10 STITTSVILLE ON <i>Well ID:</i> 7175558	SSW/211.1	1.00	56
23	WWIS		lot 31 con 10 ON <i>Well ID:</i> 1502816	NW/217.8	0.00	58
24	WWIS		lot 30 con 10 ON <i>Well ID:</i> 1502817	SSW/218.2	1.00	60
25	WWIS		lot 31 con 9 ON <i>Well ID:</i> 1502591	E/219.7	-1.00	63
26	EHS		Bridlewood Trails Kanata ON	ESE/223.2	0.00	65
27	BORE		ON	SSW/241.7	1.00	65

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.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	92.5	<u>6</u>
	ON	116.9	<u>12</u>
	ON	195.5	<u>21</u>
	ON	241.7	<u>27</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Ottawa	Terry Fox Drive (from Cope Drive to Fernbank Road) Ottawa ON	13.0	<u>1</u>

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Dec 31, 2020 has found that there are 1 EASR site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA	5357 Fernbank RD Kanata ON K2S 1B6	140.4	<u>14</u>

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

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Dec 31, 2020 has found that there are 6 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
2129786 Ontario Limited	Fernbank Road and Terry Fox Drive Ottawa ON K2M 2E9	36.3	<u>2</u>
Kanata Shopping Centres Limited	1180 Terry Fox Dr Ottawa ON K2B 8K2	66.7	<u>3</u>
Kanata Shopping Centres Limited	5343 Fernbank Rd Part of Lot 30, Conc. 10 Ottawa ON K2B 8K2	71.8	<u>4</u>
Kanata Shopping Centres Limited	5343 Fernbank Rd Part of Lot 30, Conc. 10 Ottawa ON K2B 8K2	71.8	<u>4</u>
Claridge Homes (Bridlewood Trails) Inc.	5358 Fernbank Rd Lot 30, Concession 9 Ottawa ON K2P 0Y6	142.8	<u>15</u>
2129786 Ontario Limited	1140 Terry Fox Dr 5505 Fernbank Road Ottawa ON K2K 2M5	176.9	<u>20</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Oct 31, 2020 has found that there are 7 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	1140 Terry Fox Drive Stittsville ON K2S 1B9	114.9	<u>10</u>
	1140 Terry Fox Drive Stittsville ON K2S 1B9	114.9	<u>10</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	1140 Terry Fox Drive Stittsville ON K2S 1B9	114.9	10
	1140 Terry Fox Drive Stittsville ON K2S 1B9	114.9	10
	5345 - 5375 Fernbank Road Kanata ON	140.4	14
	5357 Fernbank Road Kanata ON	140.4	14
	Bridlewood Trails Kanata ON	223.2	26

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jul 31, 2020 has found that there are 15 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	140.4	14
Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON	140.4	14
Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON	140.4	14
Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON	140.4	14

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	140.4	<u>14</u>
Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	140.4	<u>14</u>
Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	140.4	<u>14</u>
Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	140.4	<u>14</u>
Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	140.4	<u>14</u>
Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	140.4	<u>14</u>
Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	140.4	<u>14</u>
Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON K2S 1B6	140.4	<u>14</u>
Walmart Canada Corp.	5357 FERNBANK ROAD Kanata ON K2S 1B6	140.4	<u>14</u>
Caremedics Kanata Inc.	5357 Fernbank Road Kanata ON	140.4	<u>14</u>
MENGI VETERINARY PROFESSIONAL CORPORATION	5373 FERNBANK ROAD C9 STITTSVILLE ON K2S1B6	153.9	<u>17</u>

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Dec 31, 2020 has found that there are 3 PES site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
WAL-MART CANADA CORP. - STORE #1118	5357 FERNBANK RD KANATA ON K2S1B6	140.4	<u>14</u>
WAL-MART CANADA CORP. - STORE #1118	5357 FERNBANK RD KANATA ON K2S1B6	140.4	<u>14</u>
WAL-MART CANADA CORP. - STORE #1118	5357 FERNBANK RD KANATA ON K2S 1B6	140.4	<u>14</u>

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994-Dec 31, 2020 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

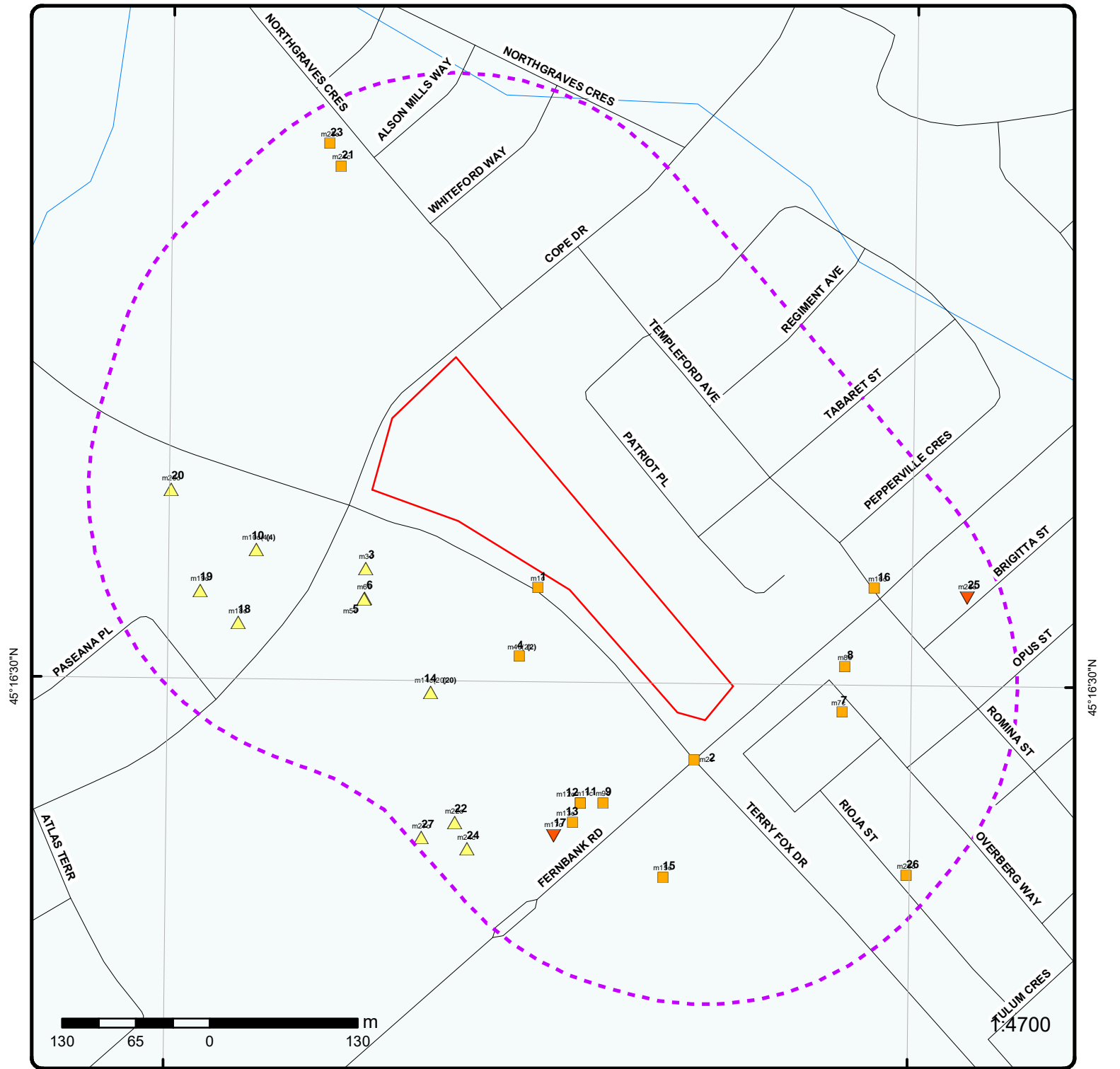
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
2129786 Ontario Limited c/o Monarch Group	West Park Subdivision 5357, 5385, 5395, 5465, and 5571 Fernbank Road, Ottawa CITY OF OTTAWA ON	175.5	<u>19</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 12 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 30 con 10 ON <i>Well ID:</i> 1502814	92.4	<u>5</u>
	lot 30 con 9 ON <i>Well ID:</i> 1510977	98.5	<u>7</u>
	lot 30 con 10 ON	99.7	<u>8</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 1533046		
	lot 30 con 10 ON	103.1	<u>9</u>
	<i>Well ID:</i> 1502818		
	lot 30 con 10 ON	116.8	<u>11</u>
	<i>Well ID:</i> 1502819		
	5355 FERNBANK ROAD lot 30 con 10 STITTSVILLE ON	133.6	<u>13</u>
	<i>Well ID:</i> 7175557		
	TEMPLEFORD/ FERNBANK lot 30 con 10 STITTSVILLE ON	151.0	<u>16</u>
	<i>Well ID:</i> 7175556		
	lot 30 con 9 ON	166.1	<u>18</u>
	<i>Well ID:</i> 1516663		
	5371 FERNBANK ROAD lot 30 con 10 STITTSVILLE ON	211.1	<u>22</u>
	<i>Well ID:</i> 7175558		
	lot 31 con 10 ON	217.8	<u>23</u>
	<i>Well ID:</i> 1502816		
	lot 30 con 10 ON	218.2	<u>24</u>
	<i>Well ID:</i> 1502817		
	lot 31 con 9 ON	219.7	<u>25</u>
	<i>Well ID:</i> 1502591		



Map : 0.25 Kilometer Radius

Order Number: 21012000215

Address: 5331 Fernbank Road, Stittsville, ON

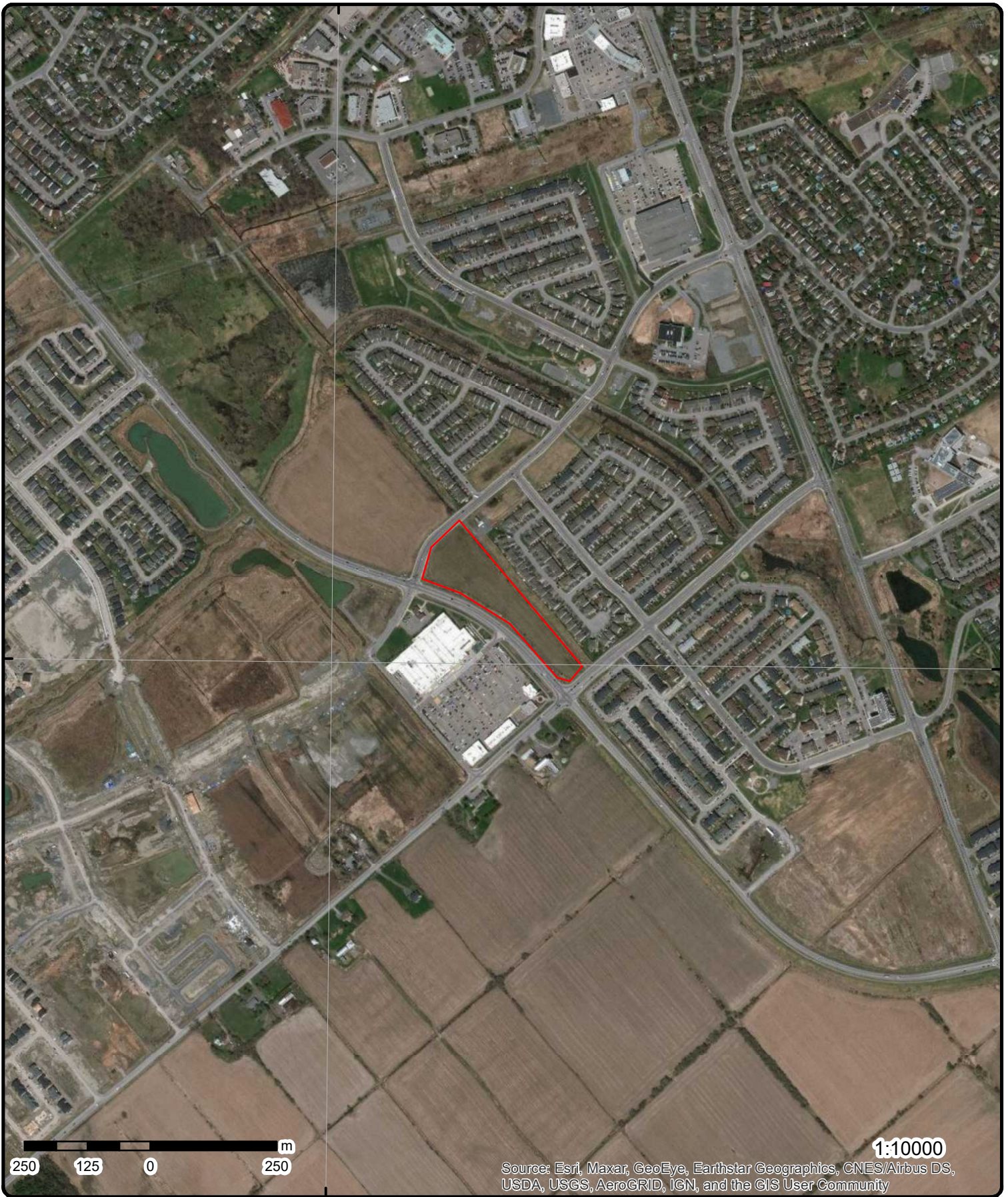


Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range
Eris Sites with Lower Elevation	Local road	Abandoned Line	Park or Sports Field
Eris Sites with Unknown Elevation	Trail	Proposed Road	Other Recreation Area
	Proposed Road		
	Ferry Route/Ice Road		

75°52'30"W

45°16'30"N

45°16'30"N



Aerial Year: 2015

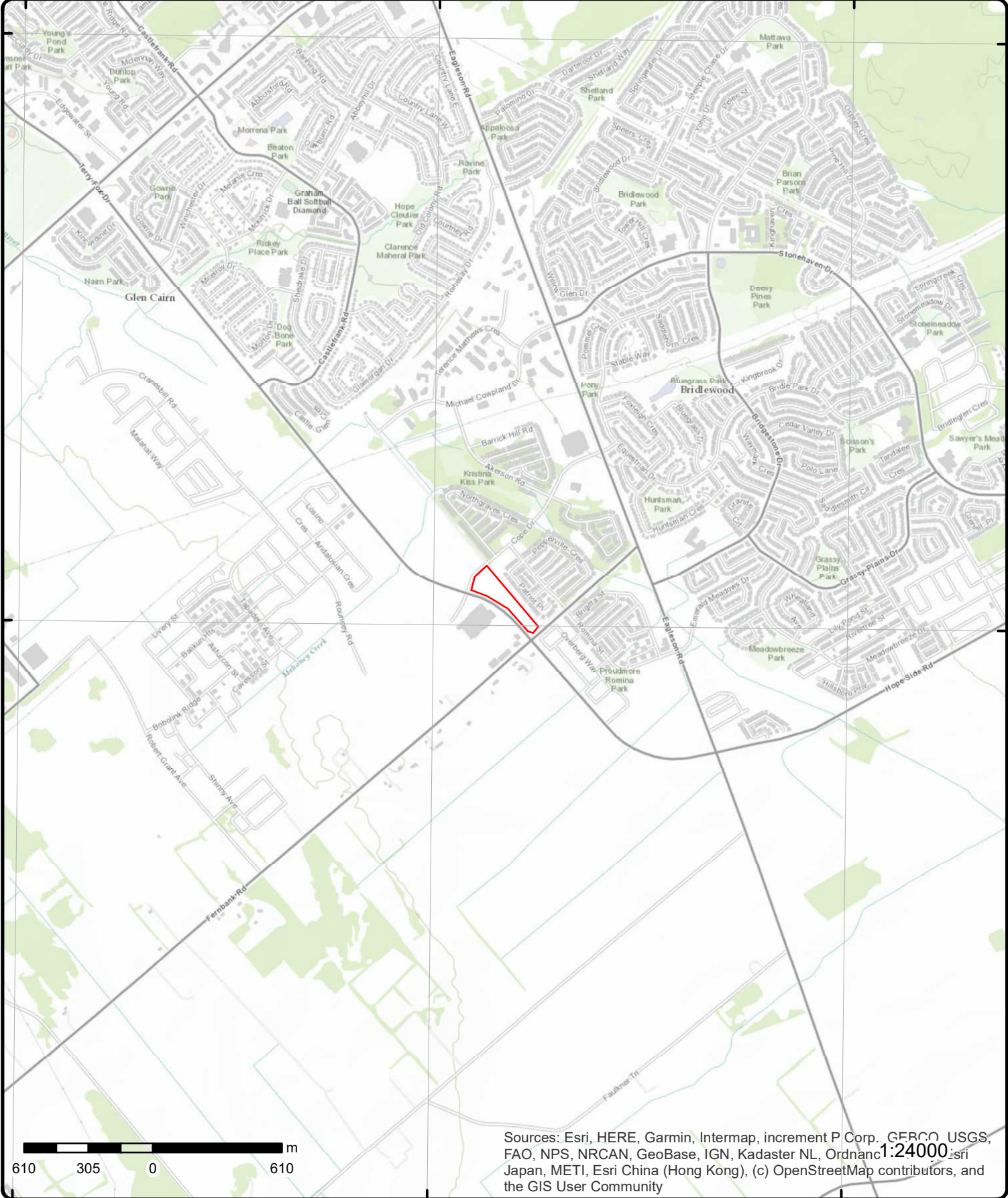
Address: 5331 Fernbank Road, Stittsville, ON

Source: ESRI World Imagery

Order Number: 21012000215



© ERIS Information Limited Partnership



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Topographic Map

Address: 5331 Fernbank Road, ON

Source: ESRI World Topographic Map

Order Number: 21012000215



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	S/13.0	97.9 / 0.00	City of Ottawa Terry Fox Drive (from Cope Drive to Fernbank Road) Ottawa ON	CA
<p>Certificate #: 0462-6D4N3R Application Year: 2005 Issue Date: 6/8/2005 Approval Type: Municipal and Private Sewage Works Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:</p>					
2	1 of 1	SE/36.3	97.9 / 0.00	2129786 Ontario Limited Fernbank Road and Terry Fox Drive Ottawa ON K2M 2E9	ECA
<p>Approval No: 0243-9LEJWY Approval Date: 2014-08-19 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 Address: Fernbank Road and Terry Fox Drive Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7064-9HXNUZ-14.pdf</p> <p>MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:</p>					
3	1 of 1	W/66.7	98.2 / 0.31	Kanata Shopping Centres Limited 1180 Terry Fox Dr Ottawa ON K2B 8K2	ECA
<p>Approval No: 7522-9VUFYD Approval Date: 2015-04-27 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Address: 1180 Terry Fox Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2674-9QMSUK-14.pdf</p> <p>MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	1 of 2	S/71.8	97.9 / 0.00	Kanata Shopping Centres Limited 5343 Fernbank Rd Part of Lot 30, Conc. 10 Ottawa ON K2B 8K2	ECA
<p>Approval No: 9577-8NXTJU MOE District:</p> <p>Approval Date: 2011-11-25 City:</p> <p>Status: Approved Longitude:</p> <p>Record Type: ECA Latitude:</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Geometry Y:</p> <p>Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Address: 5343 Fernbank Rd Part of Lot 30, Conc. 10</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4094-8NXRNB-14.pdf</p>					
4	2 of 2	S/71.8	97.9 / 0.00	Kanata Shopping Centres Limited 5343 Fernbank Rd Part of Lot 30, Conc. 10 Ottawa ON K2B 8K2	ECA
<p>Approval No: 9027-8RFSLK MOE District:</p> <p>Approval Date: 2012-02-17 City:</p> <p>Status: Revoked and/or Replaced Longitude:</p> <p>Record Type: ECA Latitude:</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Geometry Y:</p> <p>Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Address: 5343 Fernbank Rd Part of Lot 30, Conc. 10</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4539-8PRQRG-14.pdf</p>					
5	1 of 1	WSW/92.4	98.9 / 1.00	lot 30 con 10 ON	WWIS
<p>Well ID: 1502814 Data Entry Status:</p> <p>Construction Date: Data Src: 1</p> <p>Primary Water Use: Livestock Date Received: 2/27/1950</p> <p>Sec. Water Use: 0 Selected Flag: Yes</p> <p>Final Well Status: Water Supply Abandonment Rec:</p> <p>Water Type: Contractor: 1426</p> <p>Casing Material: Form Version: 1</p> <p>Audit No: Owner:</p> <p>Tag: Street Name:</p> <p>Construction Method: County: OTTAWA</p> <p>Elevation (m): Municipality: GOULBOURN TOWNSHIP</p> <p>Elevation Reliability: Site Info:</p> <p>Depth to Bedrock: Lot: 030</p> <p>Well Depth: Concession: 10</p> <p>Overburden/Bedrock: Concession Name: CON</p> <p>Pump Rate: Easting NAD83:</p> <p>Static Water Level: Northing NAD83:</p> <p>Flowing (Y/N): Zone:</p> <p>Flow Rate: UTM Reliability:</p> <p>Clear/Cloudy:</p> <p>PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1502814.pdf</p>					
<u>Bore Hole Information</u>					
<p>Bore Hole ID: 10024857 Elevation: 97.292419</p> <p>DP2BR: Elevrc:</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Spatial Status:				Zone:	18
Code OB:	o			East83:	431540.7
Code OB Desc:	Overburden			North83:	5013942
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	7/15/1949			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: 930995345
Layer: 2
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 115
Formation End Depth: 122
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930995346
Layer: 3
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 122
Formation End Depth: 123
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930995344
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 115

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

Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961502814
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10573427
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930042498
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 123
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991502814
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate: 2
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: Yes

Water Details

Water ID: 933455618
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth:
Water Found Depth UOM: ft

6	1 of 1	WSW/92.5	98.9 / 1.00	ON	BORE
Borehole ID:	610538	Inclin FLG:	No		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
OGF ID:	215512051			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	JUL-1949			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.275641
Total Depth m:	37.5			Longitude DD:	-75.8728
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	431541
Drill Method:				Northing:	5013942
Orig Ground Elev m:	97.5			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	97.3				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218385836			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	35.1			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:	218385837			Mat Consistency:	
Top Depth:	35.1			Material Moisture:	
Bottom Depth:	37.2			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.				
Geology Stratum ID:	218385838			Mat Consistency:	
Top Depth:	37.2			Material Moisture:	
Bottom Depth:	37.5			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	SAND. Y = 1200. BEDROCK. SEISMIC VELOCITY = 15000. BEDROCK. SEISMIC VELOCITY = 13000.				

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Ident:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:		Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 03046 NTS_Sheet:		

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

<u>7</u>	1 of 1	ESE/98.5	97.9 / 0.00	lot 30 con 9 ON	WWIS
Well ID:	1510977			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	12/2/1970
Sec. Water Use:	0			Selected Flag:	Yes
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:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	030
Well Depth:				Concession:	09
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/151\1510977.pdf

Bore Hole Information

Bore Hole ID:	10032980	Elevation:	96.460563
DP2BR:	140	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	431960.7
Code OB Desc:	Bedrock	North83:	5013842
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	11/19/1970	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:	931016347
Layer:	1
Color:	6
General Color:	BROWN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		01			
Most Common Material:		FILL			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		4			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931016349			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		110			
Formation End Depth:		127			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931016350			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		14			
Most Common Material:		HARDPAN			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		127			
Formation End Depth:		140			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931016351			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		140			
Formation End Depth:		158			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:		931016348			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		4			
Formation End Depth:		110			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961510977			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10581550			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930058504			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		158			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930058503			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		142			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991510977			
Pump Set At:					
Static Level:		12			
Final Level After Pumping:		12			
Recommended Pump Depth:		30			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:	5				
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: 934642259
Test Type: Draw Down
Test Duration: 45
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934899600
Test Type: Draw Down
Test Duration: 60
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934097530
Test Type: Draw Down
Test Duration: 15
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934381238
Test Type: Draw Down
Test Duration: 30
Test Level: 12
Test Level UOM: ft

Water Details

Water ID: 933466040
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 156
Water Found Depth UOM: ft

8 1 of 1 **ESE/99.7** **97.9 / 0.00** **lot 30 con 10 ON** **WWIS**

Well ID: 1533046 **Data Entry Status:**
Construction Date: **Data Src:** 1
Primary Water Use: Domestic **Date Received:** 8/15/2002
Sec. Water Use: **Selected Flag:** Yes
Final Well Status: Water Supply **Abandonment Rec:**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type:				Contractor:	1119
Casing Material:				Form Version:	1
Audit No:	248042			Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	030
Well Depth:				Concession:	10
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\1533046.pdf

Bore Hole Information

Bore Hole ID:	10529793	Elevation:	96.83245
DP2BR:	155	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	431963.2
Code OB Desc:	Bedrock	North83:	5013882
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	7/23/2002	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:	932880002
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	155
Formation End Depth:	168
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932880001
Layer:	2
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:		GRAVEL			
Mat3:		13			
Mat3 Desc:		BOULDERS			
Formation Top Depth:		153			
Formation End Depth:		155			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932880000			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		153			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933230121			
Layer:		1			
Plug From:		2			
Plug To:		158			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961533046			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11078363			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930096092			
Layer:		2			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:					
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930096093			
Layer:		3			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:					
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930096091			
Layer:		1			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:					
Casing Diameter:		8			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991533046			
Pump Set At:					
Static Level:		5			
Final Level After Pumping:		150			
Recommended Pump Depth:		150			
Pumping Rate:		10			
Flowing Rate:					
Recommended Pump Rate:		10			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934119012			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		5			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934393862			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		5			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934911826			
Test Type:		Recovery			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Duration:		60			
Test Level:		5			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934663146			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		5			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		934022379			
Layer:		1			
Kind Code:		5			
Kind:		Not stated			
Water Found Depth:		158			
Water Found Depth UOM:		ft			

9	1 of 1	SSE/103.1	97.9 / 0.00	lot 30 con 10 ON	WWIS
-------------------	--------	-----------	-------------	---------------------	------

Well ID:	1502818	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Livestock	Date Received:	5/27/1968
Sec. Water Use:	Domestic	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	4824
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	030
Well Depth:		Concession:	10
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/150\1502818.pdf

Bore Hole Information

Bore Hole ID:	10024861	Elevation:	97.616142
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	431750.7
Code OB Desc:	Overburden	North83:	5013762
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	5/12/1968	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Source Revision Comment:</i>					
<i>Supplier Comment:</i>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930995354			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		130			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930995355			
Layer:		2			
Color:					
General Color:					
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		130			
Formation End Depth:		136			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961502818			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10573431			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930042503			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		136			
Casing Diameter:		4			
Casing Diameter UOM:		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:	991502818				
Pump Set At:					
Static Level:	5				
Final Level After Pumping:	7				
Recommended Pump Depth:	30				
Pumping Rate:	10				
Flowing Rate:					
Recommended Pump Rate:	10				
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				
<u>Water Details</u>					
Water ID:	933455622				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	130				
Water Found Depth UOM:	ft				
10	1 of 4	W/114.9	98.9 / 1.00	1140 Terry Fox Drive Stittsville ON K2S 1B9	EHS
Order No:	20200115027		Nearest Intersection:		
Status:	C		Municipality:		
Report Type:	Standard Report		Client Prov/State: ON		
Report Date:	20-JAN-20		Search Radius (km): .25		
Date Received:	15-JAN-20		X: -75.8740186		
Previous Site Name:			Y: 45.2760247		
Lot/Building Size:					
Additional Info Ordered:					
10	2 of 4	W/114.9	98.9 / 1.00	1140 Terry Fox Drive Stittsville ON K2S 1B9	EHS
Order No:	20200115027		Nearest Intersection:		
Status:	C		Municipality:		
Report Type:	Standard Report		Client Prov/State: ON		
Report Date:	20-JAN-20		Search Radius (km): .25		
Date Received:	15-JAN-20		X: -75.8740186		
Previous Site Name:			Y: 45.2760247		
Lot/Building Size:					
Additional Info Ordered:					
10	3 of 4	W/114.9	98.9 / 1.00	1140 Terry Fox Drive Stittsville ON K2S 1B9	EHS
Order No:	20200115027		Nearest Intersection:		
Status:	C		Municipality:		
Report Type:	Standard Report		Client Prov/State: ON		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Report Date:	20-JAN-20			Search Radius (km): .25	
Date Received:	15-JAN-20			X: -75.8740186	
Previous Site Name:				Y: 45.2760247	
Lot/Building Size:					
Additional Info Ordered:					

10	4 of 4	W/114.9	98.9 / 1.00	1140 Terry Fox Drive Stittsville ON K2S 1B9	EHS
Order No:	20200115027			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	20-JAN-20			Search Radius (km):	.25
Date Received:	15-JAN-20			X:	-75.8740186
Previous Site Name:				Y:	45.2760247
Lot/Building Size:					
Additional Info Ordered:					

11	1 of 1	SSE/116.8	97.9 / 0.00	lot 30 con 10 ON	WWIS
Well ID:	1502819			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Livestock			Date Received:	12/21/1967
Sec. Water Use:	Domestic			Selected Flag:	Yes
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:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	030
Well Depth:				Concession:	10
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/150\1502819.pdf

Bore Hole Information

Bore Hole ID:	10024862	Elevation:	97.507202
DP2BR:	140	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	431730.7
Code OB Desc:	Bedrock	North83:	5013762
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	12/1/1967	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:			

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

**Overburden and Bedrock
Materials Interval**

Formation ID: 930995356
Layer: 1
Color:
General Color:
Mat1: 24
Most Common Material: PREV. DRILLED
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 136
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 930995357
Layer: 2
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 136
Formation End Depth: 140
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 930995358
Layer: 3
Color:
General Color:
Mat1: 26
Most Common Material: ROCK
Mat2: 18
Mat2 Desc: SANDSTONE
Mat3: 15
Mat3 Desc: LIMESTONE
Formation Top Depth: 140
Formation End Depth: 159
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961502819
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		10573432			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930042505			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		159			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930042504			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		56			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991502819			
Pump Set At:					
Static Level:		4			
Final Level After Pumping:		28			
Recommended Pump Depth:		40			
Pumping Rate:		12			
Flowing Rate:					
Recommended Pump Rate:		5			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933455623			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		155			
Water Found Depth UOM:		ft			

[12](#) 1 of 1 SSE/116.9 97.9 / 0.00 ON BORE

Borehole ID: 610533 Incl FLG: No
 OGF ID: 215512046 SP Status: Initial Entry

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Status: Type: Borehole Use: Completion Date: DEC-1967 Static Water Level: -92.0 Primary Water Use: Sec. Water Use: Total Depth m: 98.1 Depth Ref: Ground Surface Depth Elev: Drill Method: Orig Ground Elev m: 0 Elev Reliabil Note: DEM Ground Elev m: 97.5 Concession: Location D: Survey D: Comments:					
Surv Elev: No Piezometer: No Primary Name: Municipality: Lot: Township: Latitude DD: 45.27404 Longitude DD: -75.870353 UTM Zone: 18 Easting: 431731 Northing: 5013762 Location Accuracy: Accuracy: Not Applicable					
Source					
Source Type: Data Survey Source Orig: Geological Survey of Canada Source Date: 1956-1972 Confidence: Observatio: Source Name: Urban Geology Automated Information System (UGAIS) Source Details: File: OTTAWA1.txt RecordID: 03041 NTS_Sheet: Confiden 1:					
Source Appl: Spatial/Tabular Source Iden: 1 Scale or Res: Varies Horizontal: NAD27 Verticalda: Mean Average Sea Level					
Source List					
Source Identifier: 1 Source Type: Data Survey Source Date: 1956-1972 Scale or Resolution: Varies Source Name: Urban Geology Automated Information System (UGAIS) Source Originators: Geological Survey of Canada					
Horizontal Datum: NAD27 Vertical Datum: Mean Average Sea Level Projection Name: Universal Transverse Mercator					
13	1 of 1	S/133.6	97.9 / 0.00	5355 FERNBANK ROAD lot 30 con 10 STITTSVILLE ON	WWIS
Well ID: 7175557 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Alteration Water Type: Casing Material: Audit No: Z137084 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: Date Received: 1/26/2012 Selected Flag: Yes Abandonment Rec: Yes Contractor: 1119 Form Version: 7 Owner: Street Name: 5355 FERNBANK ROAD County: OTTAWA Municipality: GOULBOURN TOWNSHIP Site Info: Lot: 030 Concession: 10 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/717\7175557.pdf			

Bore Hole Information

Bore Hole ID:	1003637399	Elevation:	97.537628
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	431724
Code OB Desc:		North83:	5013745
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	10/20/2011	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:	1004144422
Layer:	3
Plug From:	
Plug To:	
Plug Depth UOM:	ft

**Annular Space/Abandonment
Sealing Record**

Plug ID:	1004144421
Layer:	2
Plug From:	0
Plug To:	86
Plug Depth UOM:	ft

**Annular Space/Abandonment
Sealing Record**

Plug ID:	1004144424
Layer:	2
Plug From:	6
Plug To:	0
Plug Depth UOM:	ft

**Annular Space/Abandonment
Sealing Record**

Plug ID:	1004144420
Layer:	1
Plug From:	0
Plug To:	6
Plug Depth UOM:	ft

**Annular Space/Abandonment
Sealing Record**

Plug ID:	1004144423
Layer:	1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug From:		86			
Plug To:		6			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004144419			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004144413			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004144417			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004144418			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1004144416			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1004144415			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 20	SW/140.4	98.9 / 1.00	5357 Fernbank Road Kanata ON	EHS
Order No:	20090429037			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	5/8/2009			Search Radius (km):	0.25
Date Received:	4/29/2009			X:	-75.880399
Previous Site Name:				Y:	45.28251
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
14	2 of 20	SW/140.4	98.9 / 1.00	WAL-MART CANADA CORP. - STORE #1118 5357 FERNBANK RD KANATA ON K2S 1B6	PES
Detail Licence No:	23-01-16089-0			Operator Box:	
Licence No:				Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:				Oper Area Code:	
Licence Type:	LIMITED			Oper Phone No:	
Licence Type Code:				Operator Ext:	
Licence Class:				Operator Lot:	
Licence Control:				Oper Concession:	
Latitude:				Operator Region:	
Longitude:				Operator District:	
Lot:				Operator County:	
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	
County:				SWP Area Name:	
Trade Name:					
PDF Link:					
14	3 of 20	SW/140.4	98.9 / 1.00	Walmart Canada Corp. 5357 FERNBANK ROAD Kanata ON	GEN
Generator No:	ON7819028			PO Box No:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	441310, 441320, 452999				
SIC Description:	Automotive Parts and Accessories Stores, Tire Dealers, All Other Miscellaneous General Merchandise Stores				
14	4 of 20	SW/140.4	98.9 / 1.00	Caremedics Kanata Inc. 5357 Fernbank Road Kanata ON	GEN
Generator No:	ON8549724			PO Box No:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	621110				
SIC Description:	Offices of Physicians				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	5 of 20	SW/140.4	98.9 / 1.00	5345 - 5375 Fernbank Road Kanata ON	EHS
Order No:	20130705006			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	11-JUL-13			Search Radius (km):	.25
Date Received:	05-JUL-13			X:	-75.872729
Previous Site Name:				Y:	45.275067
Lot/Building Size:					
Additional Info Ordered:					

14	6 of 20	SW/140.4	98.9 / 1.00	Walmart Canada Corp. 5357 FERNBANK ROAD Kanata ON	GEN
Generator No:	ON7819028			PO Box No:	
Status:				Country:	
Approval Years:	2013			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	441310, 441320, 452999				
SIC Description:	AUTOMOTIVE PARTS AND ACCESSORIES STORES, TIRE DEALERS, ALL OTHER MISCELLANEOUS GENERAL MERCHANDISE STORES				

Detail(s)

Waste Class:	242	
Waste Class Desc:	HALOGENATED PESTICIDES	
Waste Class:	145	
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES	
Waste Class:	331	
Waste Class Desc:	WASTE COMPRESSED GASES	
Waste Class:	252	
Waste Class Desc:	WASTE OILS & LUBRICANTS	
Waste Class:	122	
Waste Class Desc:	ALKALINE WASTES - OTHER METALS	
Waste Class:	263	
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS	
Waste Class:	148	
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS	

14	7 of 20	SW/140.4	98.9 / 1.00	Caremedics Kanata Inc. 5357 Fernbank Road Kanata ON	GEN
Generator No:	ON8549724			PO Box No:	
Status:				Country:	
Approval Years:	2013			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	621110				
SIC Description:	OFFICES OF PHYSICIANS				

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		312			
Waste Class Desc:		PATHOLOGICAL WASTES			
14	8 of 20	SW/140.4	98.9 / 1.00	WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA 5357 Fernbank RD Kanata ON K2S 1B6	EASR
Approval No:	R-003-7543036415	SWP Area Name:	Mississippi Valley		
Status:	REGISTERED	MOE District:	Ottawa		
Date:	2015-11-19	Municipality:	Kanata		
Record Type:	EASR	Latitude:	45.31944444		
Link Source:	MOFA	Longitude:	-75.885		
Project Type:	Heating System	Geometry X:			
Full Address:		Geometry Y:			
Approval Type:	EASR-Heating System				
Full PDF Link:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2018018				
14	9 of 20	SW/140.4	98.9 / 1.00	Walmart Canada Corp. 5357 FERNBANK ROAD Kanata ON K2S 1B6	GEN
Generator No:	ON7819028	PO Box No:			
Status:		Country:	Canada		
Approval Years:	2016	Choice of Contact:	CO_OFFICIAL		
Contam. Facility:	No	Co Admin:	Jason Fries		
MHSW Facility:	No	Phone No Admin:	905-821-2111 Ext.75127		
SIC Code:	441310, 441320, 452999				
SIC Description:	AUTOMOTIVE PARTS AND ACCESSORIES STORES, TIRE DEALERS, ALL OTHER MISCELLANEOUS GENERAL MERCHANDISE STORES				
<u>Detail(s)</u>					
Waste Class:	148				
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS				
Waste Class:	112				
Waste Class Desc:	ACID WASTE - HEAVY METALS				
Waste Class:	242				
Waste Class Desc:	HALOGENATED PESTICIDES				
Waste Class:	263				
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS				
Waste Class:	331				
Waste Class Desc:	WASTE COMPRESSED GASES				
Waste Class:	122				
Waste Class Desc:	ALKALINE WASTES - OTHER METALS				
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
Waste Class:	145				
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
14	10 of 20	SW/140.4	98.9 / 1.00	Caremedics Kanata Inc.	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				5357 Fernbank Road Kanata ON K2S 1B6	
Generator No:	ON8549724			PO Box No:	
Status:				Country:	Canada
Approval Years:	2015			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	
MHSW Facility:	No			Phone No Admin:	
SIC Code:	621110				
SIC Description:	OFFICES OF PHYSICIANS				

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

<u>14</u>	11 of 20	SW/140.4	98.9 / 1.00	Walmart Canada Corp. 5357 FERNBANK ROAD Kanata ON K2S 1B6	GEN
Generator No:	ON7819028			PO Box No:	
Status:				Country:	Canada
Approval Years:	2015			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	Vincent Feng
MHSW Facility:	No			Phone No Admin:	905-821-2111 Ext.75212
SIC Code:	441310, 441320, 452999				
SIC Description:	AUTOMOTIVE PARTS AND ACCESSORIES STORES, TIRE DEALERS, ALL OTHER MISCELLANEOUS GENERAL MERCHANDISE STORES				

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

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

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

<u>14</u>	12 of 20	SW/140.4	98.9 / 1.00	Caremedics Kanata Inc. 5357 Fernbank Road Kanata ON K2S 1B6	GEN
Generator No:	ON8549724			PO Box No:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No SIC Code: 621110 SIC Description: OFFICES OF PHYSICIANS				Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Phone No Admin:	
Detail(s)					
Waste Class: Waste Class Desc:		312 PATHOLOGICAL WASTES			

14	13 of 20	SW/140.4	98.9 / 1.00	Walmart Canada Corp. 5357 FERNBANK ROAD Kanata ON K2S 1B6	GEN
Generator No: ON7819028 Status: Approval Years: 2014 Contam. Facility: No MHSW Facility: No SIC Code: 441310, 441320, 452999 SIC Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES, TIRE DEALERS, ALL OTHER MISCELLANEOUS GENERAL MERCHANDISE STORES		PO Box No: Country: Canada Choice of Contact: CO_ADMIN Co Admin: Vincent Feng Phone No Admin: 905-821-2111 Ext.75212			
Detail(s)					
Waste Class: Waste Class Desc:		242 HALOGENATED PESTICIDES			
Waste Class: Waste Class Desc:		122 ALKALINE WASTES - OTHER METALS			
Waste Class: Waste Class Desc:		148 INORGANIC LABORATORY CHEMICALS			
Waste Class: Waste Class Desc:		252 WASTE OILS & LUBRICANTS			
Waste Class: Waste Class Desc:		331 WASTE COMPRESSED GASES			
Waste Class: Waste Class Desc:		312 PATHOLOGICAL WASTES			
Waste Class: Waste Class Desc:		263 ORGANIC LABORATORY CHEMICALS			
Waste Class: Waste Class Desc:		145 PAINT/PIGMENT/COATING RESIDUES			

14	14 of 20	SW/140.4	98.9 / 1.00	Caremedics Kanata Inc. 5357 Fernbank Road Kanata ON K2S 1B6	GEN
Generator No: ON8549724 Status: Approval Years: 2014 Contam. Facility: No MHSW Facility: No SIC Code: 621110 SIC Description: OFFICES OF PHYSICIANS		PO Box No: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Phone No Admin:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Detail(s)</u>					
Waste Class:		312			
Waste Class Desc:		PATHOLOGICAL WASTES			
14	15 of 20	SW/140.4	98.9 / 1.00	Caremedics Kanata Inc. 5357 Fernbank Road Kanata ON K2S 1B6	GEN
Generator No:		ON8549724		PO Box No:	
Status:		Registered		Country: Canada	
Approval Years:		As of Dec 2018		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
<u>Detail(s)</u>					
Waste Class:		312 P			
Waste Class Desc:		Pathological wastes			
14	16 of 20	SW/140.4	98.9 / 1.00	Walmart Canada Corp. 5357 FERNBANK ROAD Kanata ON K2S 1B6	GEN
Generator No:		ON7819028		PO Box No:	
Status:		Registered		Country: Canada	
Approval Years:		As of Dec 2018		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
<u>Detail(s)</u>					
Waste Class:		112 C			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		122 C			
Waste Class Desc:		Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		148 C			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 I			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 T			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		242 A			
Waste Class Desc:		Halogenated pesticides and herbicides			
Waste Class:		252 L			
Waste Class Desc:		Waste crankcase oils and lubricants			
Waste Class:		263 I			
Waste Class Desc:		Misc. waste organic chemicals			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		312 P			
Waste Class Desc:		Pathological wastes			
Waste Class:		331 I			
Waste Class Desc:		Waste compressed gases including cylinders			
14	17 of 20	SW/140.4	98.9 / 1.00	WAL-MART CANADA CORP. - STORE #1118 5357 FERNBANK RD KANATA ON K2S1B6	PES
Detail Licence No:				Operator Box:	
Licence No:	18247			Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)			Oper Area Code:	905
Licence Type:	Limited Vendor			Oper Phone No:	8212111
Licence Type Code:	23			Operator Ext:	
Licence Class:	01			Operator Lot:	
Licence Control:				Oper Concession:	
Latitude:				Operator Region:	
Longitude:				Operator District:	
Lot:				Operator County:	
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	
County:				SWP Area Name:	
Trade Name:					
PDF Link:					
14	18 of 20	SW/140.4	98.9 / 1.00	WAL-MART CANADA CORP. - STORE #1118 5357 FERNBANK RD KANATA ON K2S1B6	PES
Detail Licence No:	23-01-16089-0			Operator Box:	
Licence No:	16089			Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)			Oper Area Code:	905
Licence Type:	Limited Vendor			Oper Phone No:	8212111
Licence Type Code:	23			Operator Ext:	
Licence Class:	01			Operator Lot:	
Licence Control:				Oper Concession:	
Latitude:				Operator Region:	
Longitude:				Operator District:	
Lot:				Operator County:	
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	
County:				SWP Area Name:	
Trade Name:					
PDF Link:					
14	19 of 20	SW/140.4	98.9 / 1.00	Walmart Canada Corp. 5357 FERNBANK ROAD Kanata ON K2S 1B6	GEN
Generator No:	ON7819028			PO Box No:	
Status:	Registered			Country:	Canada
Approval Years:	As of Jul 2020			Choice of Contact:	
Contam. Facility:				Co Admin:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
<u>Detail(s)</u>					
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		263 I			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		261 A			
Waste Class Desc:		Pharmaceuticals			
Waste Class:		148 I			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 T			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		242 A			
Waste Class Desc:		Halogenated pesticides and herbicides			
Waste Class:		112 C			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		252 L			
Waste Class Desc:		Waste crankcase oils and lubricants			
Waste Class:		261 L			
Waste Class Desc:		Pharmaceuticals			
Waste Class:		312 P			
Waste Class Desc:		Pathological wastes			
Waste Class:		331 I			
Waste Class Desc:		Waste compressed gases including cylinders			
Waste Class:		148 C			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		122 C			
Waste Class Desc:		Alkaline slutions - containing other metals and non-metals (not cyanide)			

14	20 of 20	SW/140.4	98.9 / 1.00	Caremedics Kanata Inc. 5357 Fernbank Road Kanata ON K2S 1B6	GEN
--------------------	----------	----------	-------------	--	------------

Generator No:	ON8549724	PO Box No:	
Status:	Registered	Country:	Canada
Approval Years:	As of Jul 2020	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	312 P
Waste Class Desc:	Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	1 of 1	SSE/142.8	97.9 / 0.00	Claridge Homes (Bridlewood Trails) Inc. 5358 Fernbank Rd Lot 30, Concession 9 Ottawa ON K2P 0Y6	ECA
Approval No:		2495-9BHMZ7		MOE District:	
Approval Date:		2013-09-24		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			
Address:		5358 Fernbank Rd Lot 30, Concession 9			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/2404-9BFLFV-14.pdf			

16	1 of 1	E/151.0	97.9 / 0.00	TEMPLEFORD/ FERNBANK lot 30 con 10 STITTSVILLE ON	WWIS
Well ID:		7175556		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:				Date Received: 1/26/2012	
Sec. Water Use:				Selected Flag: Yes	
Final Well Status:		Alteration		Abandonment Rec: Yes	
Water Type:				Contractor: 1119	
Casing Material:				Form Version: 7	
Audit No:		Z137072		Owner:	
Tag:				Street Name: TEMPLEFORD/ FERNBANK	
Construction Method:				County: OTTAWA	
Elevation (m):				Municipality: GOULBOURN TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 030	
Well Depth:				Concession: 10	
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\7175556.pdf			

Bore Hole Information

Bore Hole ID:		1003637107		Elevation: 97.279685	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 18	
Code OB:				East83: 431989	
Code OB Desc:				North83: 5013951	
Open Hole:				Org CS: UTM83	
Cluster Kind:				UTMRC: 4	
Date Completed:		10/20/2011		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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug ID:		1004144410			
Layer:		1			
Plug From:		0			
Plug To:		27			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004144411			
Layer:		1			
Plug From:		27			
Plug To:		2			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004144412			
Layer:		2			
Plug From:		2			
Plug To:		0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004144409			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004144403			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004144407			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004144408			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1004144406			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1004144405			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
17	1 of 1	S/153.9	97.8 / -0.03	MENGI VETERINARY PROFESSIONAL CORPORATION 5373 FERNBANK ROAD C9 STITTSVILLE ON K2S1B6	GEN
Generator No:		ON6031203		PO Box No:	
Status:		Registered		Country: Canada	
Approval Years:		As of Jul 2020		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
<u>Detail(s)</u>					
Waste Class:		261 A			
Waste Class Desc:		Pharmaceuticals			
Waste Class:		312 P			
Waste Class Desc:		Pathological wastes			
18	1 of 1	WSW/166.1	98.9 / 1.00	lot 30 con 9 ON	WWIS
Well ID:		1516663		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 9/8/1978	
Sec. Water Use:		0		Selected Flag: Yes	
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: GOULBOURN TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 030	
Well Depth:				Concession: 09	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	

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

Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1516663.pdf

Bore Hole Information

Bore Hole ID:	10038568	Elevation:	97.866012
DP2BR:	156	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	431429.7
Code OB Desc:	Bedrock	North83:	5013921
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	8/15/1978	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:	931032826
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	12
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931032828
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	74
Mat2 Desc:	LAYERED
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	156
Formation End Depth:	185
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931032827
----------------------	-----------

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12			
Formation End Depth:		156			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961516663			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10587138			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930067750			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		185			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930067749			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		157			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991516663			
Pump Set At:					
Static Level:		10			
Final Level After Pumping:		75			
Recommended Pump Depth:		75			
Pumping Rate:		15			
Flowing Rate:					
Recommended Pump Rate:		5			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934899993			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		75			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934642509			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		75			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934381000			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		75			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934102255			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		75			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933473012			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		180			
Water Found Depth UOM:		ft			

[19](#)

1 of 1

W/175.5

98.9 / 1.00

2129786 Ontario Limited c/o Monarch Group
West Park Subdivision 5357, 5385, 5395, 5465,
and 5571 Fernbank Road, Ottawa CITY OF
OTTAWA
ON

PTTW

EBR Registry No: 011-8843
Ministry Ref No: 5012-94HR3M
Notice Type: Instrument Decision
Notice Stage:
Notice Date: December 11, 2013

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Proposal Date:	April 16, 2013			Site Location Map:	
Year:	2013				
Instrument Type:	(OWRA s. 34) - Permit to Take Water				
Off Instrument Name:					
Posted By:					
Company Name:	2129786 Ontario Limited c/o Monarch Group				
Site Address:					
Location Other:					
Proponent Name:					
Proponent Address:	3584 Jockvale Road, Ottawa Ontario, Canada K2C 3H4				
Comment Period:					
URL:					

Site Location Details:

West Park Subdivision 5357, 5385, 5395, 5465, and 5571 Fernbank Road, Ottawa CITY OF OTTAWA

20	1 of 1	W/176.9	98.9 / 1.00	2129786 Ontario Limited 1140 Terry Fox Dr 5505 Fernbank Road Ottawa ON K2K 2M5	ECA
Approval No:	5803-BQVFZK			MOE District:	
Approval Date:	2020-06-26			City:	
Status:	Approved			Longitude:	
Record Type:	ECA			Latitude:	
Link Source:	IDS			Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Address:	1140 Terry Fox Dr 5505 Fernbank Road				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/8823-BQAHA-14.pdf				

21	1 of 1	NW/195.5	97.9 / 0.00	ON	BORE
Borehole ID:	610551			Inclin FLG:	No
OGF ID:	215512064			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:				Municipality:	
Static Water Level:	4.2			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.27906
Total Depth m:	-999			Longitude DD:	-75.873107
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	431521
Drill Method:				Northing:	5014322
Orig Ground Elev m:	97.5			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	96.3				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID: 218385866 **Mat Consistency:**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Top Depth:	0			Material Moisture:	
Bottom Depth:	8.5			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.			
Geology Stratum ID:	218385867			Mat Consistency:	
Top Depth:	8.5			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. WATER STABLE AT 306.1 FEET. VELOCITY = 4750. BEDROCK. SEISMIC VELOCITY = 1		**Note: Many records provided by the department have a truncated [Stratum Description] field.	

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Ident:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:	M	Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 030590 NTS_Sheet: 31G05C		
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		

22	1 of 1	SSW/211.1	98.9 / 1.00	5371 FERNBANK ROAD lot 30 con 10 STITTSVILLE ON	WWIS
Well ID:	7175558	Data Entry Status:			
Construction Date:		Data Src:			
Primary Water Use:		Date Received:	1/26/2012		
Sec. Water Use:		Selected Flag:	Yes		
Final Well Status:	Alteration	Abandonment Rec:	Yes		
Water Type:		Contractor:	1119		
Casing Material:		Form Version:	7		
Audit No:	Z137090	Owner:			
Tag:		Street Name:	5371 FERNBANK ROAD		
Construction Method:		County:	OTTAWA		
Elevation (m):		Municipality:	GOULBOURN TOWNSHIP		
Elevation Reliability:		Site Info:			
Depth to Bedrock:		Lot:	030		
Well Depth:		Concession:	10		
Overburden/Bedrock:		Concession Name:	CON		
Pump Rate:		Easting NAD83:			
Static Water Level:		Northing NAD83:			
Flowing (Y/N):		Zone:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flow Rate: Clear/Cloudy:				UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/717\7175558.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	1003637116			Elevation:	97.464088
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	431620
Code OB Desc:				North83:	5013745
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	10/20/2011			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:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	1004144433				
Layer:	1				
Plug From:	0				
Plug To:	146				
Plug Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	1004144432				
Layer:	1				
Plug From:					
Plug To:					
Plug Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	1004144431				
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	1004144425				
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	1004144429				
Layer:					
Material:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004144430			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1004144428			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1004144427			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
23	1 of 1	NW/217.8	97.9 / 0.00	lot 31 con 10 ON	WWIS
Well ID:		1502816			
Construction Date:				Data Entry Status:	
Primary Water Use:		Domestic		Data Src:	1
Sec. Water Use:		0		Date Received:	1/30/1956
Final Well Status:		Water Supply		Selected Flag:	Yes
Water Type:				Abandonment Rec:	
Casing Material:				Contractor:	1802
Audit No:				Form Version:	1
Tag:				Owner:	
Construction Method:				Street Name:	
Elevation (m):				County:	OTTAWA
Elevation Reliability:				Municipality:	GOULBOURN TOWNSHIP
Depth to Bedrock:				Site Info:	
Well Depth:				Lot:	031
Overburden/Bedrock:				Concession:	10
Pump Rate:				Concession Name:	CON
Static Water Level:				Easting NAD83:	
Flowing (Y/N):				Northing NAD83:	
Flow Rate:				Zone:	
Clear/Cloudy:				UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1502816.pdf			

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

Bore Hole Information

Bore Hole ID:	10024859	Elevation:	96.216835
DP2BR:	28	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	431510.7
Code OB Desc:	Bedrock	North83:	5014342
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	11/12/1955	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:	930995351
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	28
Formation End Depth:	84
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	930995350
Layer:	1
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	28
Formation End Depth UOM:	ft

Method of Construction & Well

Use

Method Construction ID:	961502816
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

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

Pipe ID: 10573429
 Casing No: 1
 Comment:
 Alt Name:

Construction Record - Casing

Casing ID: 930042500
 Layer: 1
 Material: 1
 Open Hole or Material: STEEL
 Depth From:
 Depth To: 28
 Casing Diameter: 2
 Casing Diameter UOM: inch
 Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930042501
 Layer: 2
 Material: 4
 Open Hole or Material: OPEN HOLE
 Depth From:
 Depth To: 84
 Casing Diameter: 2
 Casing Diameter UOM: inch
 Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991502816
 Pump Set At:
 Static Level: 15
 Final Level After Pumping: 20
 Recommended Pump Depth:
 Pumping Rate: 12
 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: 933455620
 Layer: 1
 Kind Code: 1
 Kind: FRESH
 Water Found Depth: 80
 Water Found Depth UOM: ft

24	1 of 1	SSW/218.2	98.9 / 1.00	lot 30 con 10 ON	WWIS
--------------------	--------	-----------	-------------	---------------------	------

Well ID: 1502817 Data Entry Status:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Date:				Data Src:	1
Primary Water Use:	Livestock			Date Received:	9/16/1957
Sec. Water Use:	Domestic			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	4824
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	030
Well Depth:				Concession:	10
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):

Bore Hole Information

Bore Hole ID:	10024860	Elevation:	97.596893
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	431630.7
Code OB Desc:	Overburden	North83:	5013722
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	2/28/1957	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:	930995352
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	100
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	930995353
Layer:	2
Color:	2

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		100			
Formation End Depth:		112			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961502817			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10573430			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930042502			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		112			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991502817			
Pump Set At:					
Static Level:		15			
Final Level After Pumping:		20			
Recommended Pump Depth:					
Pumping Rate:		3			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933455621			
Layer:		1			
Kind Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind:		FRESH			
Water Found Depth:		112			
Water Found Depth UOM:		ft			

25	1 of 1	E/219.7	96.9 / -1.00	lot 31 con 9 ON	WWIS
Well ID:	1502591			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Irrigation			Date Received:	5/18/1951
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1426
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	031
Well Depth:				Concession:	09
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/150\1502591.pdf

Bore Hole Information

Bore Hole ID:	10024634	Elevation:	96.49131
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	432070.7
Code OB Desc:	Overburden	North83:	5013942
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	8/12/1949	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:	930994861
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	80

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930994862			
Layer:		2			
Color:					
General Color:					
Mat1:		14			
Most Common Material:		HARDPAN			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		80			
Formation End Depth:		84			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930994863			
Layer:		3			
Color:					
General Color:					
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		84			
Formation End Depth:		95			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961502591			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10573204			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930042047			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		95			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

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

Results of Well Yield Testing

Pump Test ID: 991502591
Pump Set At:
Static Level: 2
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:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933455390
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 95
Water Found Depth UOM: ft

[26](#) 1 of 1 **ESE/223.2** **97.9 / 0.00** **Bridlewood Trails Kanata ON** **EHS**

Order No: 20130702025	Nearest Intersection:
Status: C	Municipality:
Report Type: Custom Report	Client Prov/State: ON
Report Date: 03-JUL-13	Search Radius (km): .5
Date Received: 02-JUL-13	X: -75.866695
Previous Site Name:	Y: 45.273497
Lot/Building Size:	
Additional Info Ordered:	

[27](#) 1 of 1 **SSW/241.7** **98.9 / 1.00** **ON** **BORE**

Borehole ID: 610531	Inclin FLG: No
OGF ID: 215512044	SP Status: Initial Entry
Status:	Surv Elev: No
Type: Borehole	Piezometer: No
Use:	Primary Name:
Completion Date:	Municipality:
Static Water Level: 7.0	Lot:
Primary Water Use:	Township:
Sec. Water Use:	Latitude DD: 45.273756
Total Depth m: -999	Longitude DD: -75.872133
Depth Ref: Ground Surface	UTM Zone: 18
Depth Elev:	Easting: 431591
Drill Method:	Northing: 5013732
Orig Ground Elev m: 99.1	Location Accuracy:
Elev Reliabil Note:	Accuracy: Not Applicable
DEM Ground Elev m: 97.5	
Concession:	
Location D:	

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

Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	218385826	Mat Consistency:	
Top Depth:	39.6	Material Moisture:	
Bottom Depth:		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 302.0 FEET.IED. SEISMIC VELOCITY = 2200. BEDROCK. SEISMIC VELOCITY = **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218385825	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	39.6	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.		

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: 030390 NTS_Sheet: 31G05C		
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		

Unplottable Summary

Total: **57** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Monarch Corporation		Ottawa ON	
CA	Monarch Corporation		Ottawa ON	
CA	1384341 Ontario Ltd. and Monarch Corporation		Ottawa ON	
CA	Monarch Corporation		Ottawa ON	
CA	Monarch Corporation		Ottawa ON	
CA	Monarch Corporation		Ottawa ON	
CA	Monarch Corporation		Ottawa ON	
CA	KANATA CITY KANATA N. BUSINESS PARK	TERRY FOX DRIVE	KANATA CITY ON	
CA	Monarch Corporation		Ottawa ON	
CA	Monarch Corporation		Ottawa ON	
CA	Monarch Construction Limited		Ottawa ON	
CA	Monarch Construction Limited		Ottawa ON	
CA	Monarch Corporation	Formerly Nepean	Ottawa ON	
CA		Terry Fox Drive	Kanata ON	
CA	Terry Fox Drive Stormwater Management Facility at Realigned Richardson Side Road	Terry Fox Drive	Ottawa ON	
CA	CANADIAN TIRE REAL ESTATE LTD., GILPAUL	TERRY FOX DR., GAS BAR SWM FAC.	KANATA CITY ON	
CA	Westcreek Meadows - Phase 2B	Part of West Half of Lot 30, Concession 11	Kanata ON	

CA	Westcreek Meadows - Phase 2B	Part of West Half of Lot 30, Concession 11	Kanata ON
CA	Hazeldean - Lot 31, Concession 10		Kanata ON
CA	Hazeldean - Lot 31, Concession 10		Kanata ON
CA		Lot 31, Concession 10	Kanata ON
CA	CLARIDGE HOMES (KANATA) INC.	PT.LOT 30/CONC.XI (SWM)	KANATA CITY ON
CA	ETINVEST HOLDINGS LTD.	HAZELDEAN RD.,PT.LOT 31/C-11	GOULBOURN TWP. ON
CA	KANATA RESEARCH PARK CORPORATION	TERRY FOX DR. KANATA N. BUS. P	KANATA CITY ON
CA	GARFORD LTD. AND NOTLAW LTD.-TERRY FOX D	M.T.O. ACCES RD/TERRY FOX DR.	KANATA CITY ON
CA	TAYLOR DEVELOPMENTS	SHOPPING CEN., TERRY FOX DRIVE	KANATA CITY ON
CA	MONARCH CONSTRUCTION LTD. BEVERLY ST.	CROSSING BRIDGE ESTATES II	GOULBOURN TWP. ON
CA	KANATA CITY VALLEY-VU REALTY	FUTURE TERRY FOX DR.	KANATA CITY ON
CA	R.M. OF OTTAWA-CARLETON-PT. 2-5, LOT 31	HAZELDEAN SEWAGE PUMP STATION	KANATA CITY ON
CA	MONARCH CONSTRUCTION LTD.	CROSSING BRIDGE ESTATES II	GOULBOURN TWP. ON
CA	Monarch Corporation		Ottawa ON
CA	Monarch Corporation		Ottawa ON
CA	Monarch Construction Limited		Ottawa ON
CA	Monarch Corporation		Ottawa ON
CA	Monarch Corporation		Ottawa ON
CA	Monarch Corporation		Ottawa ON
CA	Monarch Corporation		Ottawa ON
CA	Monarch Corporation		Ottawa ON
CA	Monarch Corporation		Ottawa ON
CA	1384341 Ontario Ltd. and Monarch Corporation		Ottawa ON

CA	Monarch Corporation	Ref. Plan 4M-1423	Ottawa ON	
CA	Monarch Corporation	Ref. Plan 4M-1423	Ottawa ON	
CA	KANATA RESEARCH PARK CORP.	TERRY FOX DR.,CROSS KEY, SWM	KANATA CITY ON	
CA	KANATA CITY VALLEY-VU REALTY FORCEMAIN	FUTURE TERRY FOX DR. P.S.	KANATA CITY ON	
CA	KANATA CITY	TERRY FOX DRIVE	KANATA CITY ON	
ECA	2129786 Ontario Ltd.	Lots 29 and 30, Concession 10	Ottawa ON	K2C 3H2
ECA	2129786 Ontario Limited		Ottawa ON	K2C 3H2
ECA	2129786 Ontario Limited		Ottawa ON	K2C 3H2
ECA	2129786 Ontario Limited		Ottawa ON	K2C 3H2
ECA	WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA		ON	
ECA	WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA		ON	
ECA	WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA		ON	
PTTW	Monarch Construction Limited		ON	
SPL	Van's Industrial & Specialty Coatings<UNOFFICIAL>	Terry Fox Drive, Nepean	Ottawa ON	
SPL	PUC	TERRY FOX DR PAD TRANSFORMER BY NEWBRIDGE COMM. LTD.	KANATA CITY ON	
WWIS		lot 31	ON	
WWIS		lot 31	ON	
WWIS		con 9	ON	

Unplottable Report

Site: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 5532-6YKSFB
Application Year: 2007
Issue Date: 2/22/2007
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: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 4939-7GMPLQ
Application Year: 2008
Issue Date: 7/18/2008
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: 1384341 Ontario Ltd. and Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 4663-7JUJPT
Application Year: 2008
Issue Date: 9/26/2008
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: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 4408-875LTY

Application Year: 2010
Issue Date: 7/21/2010
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: **Monarch Corporation**
Ottawa ON

Database:
CA

Certificate #: 4104-7MTPXW
Application Year: 2009
Issue Date: 1/6/2009
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: **Monarch Corporation**
Ottawa ON

Database:
CA

Certificate #: 3859-7DCH8J
Application Year: 2008
Issue Date: 4/4/2008
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: **Monarch Corporation**
Ottawa ON

Database:
CA

Certificate #: 3662-6ZJLXB
Application Year: 2007
Issue Date: 3/25/2007
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: KANATA CITY KANATA N. BUSINESS PARK
TERRY FOX DRIVE KANATA CITY ON

Database:
CA

Certificate #: 3-0786-87-
Application Year: 87
Issue Date: 6/9/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 2511-8BFKF5
Application Year: 2010
Issue Date: 11/30/2010
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: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 1468-6D6PCA
Application Year: 2005
Issue Date: 6/10/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Monarch Construction Limited
Ottawa ON

Database:
CA

Certificate #: 1356-63ZS64
Application Year: 2004
Issue Date: 8/24/2004
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: **Monarch Construction Limited**
Ottawa ON

Database:
CA

Certificate #: 0872-628JJA
Application Year: 2004
Issue Date: 8/5/2004
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: **Monarch Corporation**
Formerly Nepean Ottawa ON

Database:
CA

Certificate #: 0272-7H8J9B
Application Year: 2008
Issue Date: 9/12/2008
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: **Terry Fox Drive Kanata ON**

Database:
CA

Certificate #: 0854-4BJN5
Application Year: 00
Issue Date: 4/13/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Extension of the watermain on Terry Fox Drive from Winchester Drive south to Michael Cowpland Drive, with a 400 mm diameter watermain.
Contaminants:
Emission Control:

Site: **Terry Fox Drive Stormwater Management Facility at Realigned Richardson Side Road**
Terry Fox Drive Ottawa ON

Database:
CA

Certificate #: 1044-5E9JWT

Application Year: 02
Issue Date: 9/27/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: City of Ottawa
Client Postal Code: K1P 1J1
Project Description: SWM Facility, quality and quantity control with inlet and outlet sewers
Contaminants:
Emission Control:

Site: **CANADIAN TIRE REAL ESTATE LTD., GILPAUL
TERRY FOX DR., GAS BAR SWM FAC. KANATA CITY ON**

Database:
CA

Certificate #: 3-0329-99-
Application Year: 99
Issue Date: 7/26/1999
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Westcreek Meadows - Phase 2B
Part of West Half of Lot 30, Concession 11 Kanata ON**

Database:
CA

Certificate #: 2660-4PZM2T
Application Year: 00
Issue Date: 10/12/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Claridge Homes (Kanata) Inc.
Client Address: 210 Gladstone Avenue, Suite #2001
Client City: Ottawa
Client Postal Code: K2P 0Y6
Project Description: This application is for the installation of watermains on Kincardine Drive to serve the Westcreek Meadows, Phase 2B, subdivision.
Contaminants:
Emission Control:

Site: **Westcreek Meadows - Phase 2B
Part of West Half of Lot 30, Concession 11 Kanata ON**

Database:
CA

Certificate #: 1686-4PZLMV
Application Year: 00
Issue Date: 10/12/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Claridge Homes (Kanata) Inc.
Client Address: 210 Gladstone Avenue, Suite #2001
Client City: Ottawa
Client Postal Code: K2P 0Y6
Project Description: This application is for the installation of sanitary and storm sewers on Kincardine Drive to serve the Westcreek Meadows, Phase 2B, subdivision.
Contaminants:

Emission Control:

Site: Hazeldean - Lot 31, Concession 10
Kanata ON

Database:
CA

Certificate #: 3223-4GTMXP
Application Year: 00
Issue Date: 2/25/00
Approval Type: Industrial air
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K1P 2L7
Project Description: For the exhaust discharge and noise emission from a 820 kW emergency standby diesel generator at the Hazeldean Sewage Pumping Station.
Contaminants:
Emission Control: Silencer

Site: Hazeldean - Lot 31, Concession 10
Kanata ON

Database:
CA

Certificate #: 5832-4FMKPR
Application Year: 00
Issue Date: 1/31/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K1P 2L7
Project Description: Constructio a new 600 mm diameter sanitary forcemain from he expanded Hazeldean Sewage Pumping Station to existing outlet chamber on Eagleson Road.
Contaminants:
Emission Control:

Site: Lot 31, Concession 10 Kanata ON

Database:
CA

Certificate #: 3-0198-76-006
Application Year: 00
Issue Date: 1/24/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K1P 2L7
Project Description: Hazeldean Sewage Pumping Station Upgrade and Expansion
Contaminants:
Emission Control:

Site: CLARIDGE HOMES (KANATA) INC.
PT.LOT 30/CONC.XI (SWM) KANATA CITY ON

Database:
CA

Certificate #: 3-1116-96-
Application Year: 96
Issue Date: 10/22/1996
Approval Type: Municipal sewage
Status: Approved

Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **ETINVEST HOLDINGS LTD.**
HAZELDEAN RD.,PT.LOT 31/C-11 GOULBOURN TWP. ON

Database:
CA

Certificate #: 3-0349-96-
Application Year: 96
Issue Date: 6/11/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **KANATA RESEARCH PARK CORPORATION**
TERRY FOX DR. KANATA N. BUS. P KANATA CITY ON

Database:
CA

Certificate #: 7-0653-87-
Application Year: 87
Issue Date: 6/9/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **GARFORD LTD. AND NOTLAW LTD.-TERRY FOX D**
M.T.O. ACCES RD/TERRY FOX DR. KANATA CITY ON

Database:
CA

Certificate #: 7-0939-91-
Application Year: 91
Issue Date: 8/2/1991
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **TAYLOR DEVELOPMENTS**
SHOPPING CEN., TERRY FOX DRIVE KANATA CITY ON

Database:
CA

Certificate #: 7-1321-88-
Application Year: 88
Issue Date: 8/19/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **MONARCH CONSTRUCTION LTD. BEVERLY ST.
CROSSING BRIDGE ESTATES II GOULBOURN TWP. ON**

Database:
CA

Certificate #: 7-0457-88-
Application Year: 88
Issue Date: 4/19/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **KANATA CITY VALLEY-VU REALTY
FUTURE TERRY FOX DR. KANATA CITY ON**

Database:
CA

Certificate #: 7-1420-86-
Application Year: 86
Issue Date: 12/17/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **R.M. OF OTTAWA-CARLETON-PT. 2-5, LOT 31
HAZELDEAN SEWAGE PUMP STATION KANATA CITY ON**

Database:
CA

Certificate #: 3-0744-92-
Application Year: 92
Issue Date: 6/29/1992
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:

Emission Control:

Site: **MONARCH CONSTRUCTION LTD.**
CROSSING BRIDGE ESTATES II GOULBOURN TWP. ON

Database:
CA

Certificate #: 3-0517-88-
Application Year: 88
Issue Date: 4/19/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Monarch Corporation**
Ottawa ON

Database:
CA

Certificate #: 6172-6UAPRG
Application Year: 2006
Issue Date: 10/6/2006
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: **Monarch Corporation**
Ottawa ON

Database:
CA

Certificate #: 6624-7SGSQE
Application Year: 2009
Issue Date: 5/29/2009
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: **Monarch Construction Limited**
Ottawa ON

Database:
CA

Certificate #: 6736-5WNKVV
Application Year: 2004
Issue Date: 3/2/2004
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: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 6872-6FHQN2
Application Year: 2005
Issue Date: 8/29/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 7843-6RLJ6M
Application Year: 2006
Issue Date: 7/14/2006
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: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 8421-7WKLTJ
Application Year: 2009
Issue Date: 10/8/2009
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: Monarch Corporation
Ottawa ON

Database:
CA

Certificate #: 8696-6DTPY6
Application Year: 2005
Issue Date: 6/30/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Monarch Corporation
Ottawa ON*

Database:
CA

Certificate #: 9615-7GFP2Z
Application Year: 2008
Issue Date: 7/28/2008
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: *1384341 Ontario Ltd. and Monarch Corporation
Ottawa ON*

Database:
CA

Certificate #: 9853-7NAUTA
Application Year: 2009
Issue Date: 1/16/2009
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: *Monarch Corporation
Ref. Plan 4M-1423 Ottawa ON*

Database:
CA

Certificate #: 5929-8E3LXZ
Application Year: 2011
Issue Date: 2/23/2011
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: Monarch Corporation
Ref. Plan 4M-1423 Ottawa ON

Database:
CA

Certificate #: 2228-8EYRE3
Application Year: 2011
Issue Date: 3/28/2011
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: KANATA RESEARCH PARK CORP.
TERRY FOX DR.,CROSS KEY, SWM KANATA CITY ON

Database:
CA

Certificate #: 3-0087-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: KANATA CITY VALLEY-VU REALTY FORCEMAIN
FUTURE TERRY FOX DR. P.S. KANATA CITY ON

Database:
CA

Certificate #: 3-1793-86-
Application Year: 86
Issue Date: 12/17/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: KANATA CITY
TERRY FOX DRIVE KANATA CITY ON

Database:
CA

Certificate #: 3-1806-87-
Application Year: 87
Issue Date: 10/5/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:

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

Site: 2129786 Ontario Ltd.
Lots 29 and 30, Concession 10 Ottawa ON K2C 3H2

Database:
ECA

Approval No: 5987-8UAP5W
Approval Date: 2012-05-30
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
Address: Lots 29 and 30, Concession 10
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/2927-8U3LAJ-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: 2129786 Ontario Limited
Ottawa ON K2C 3H2

Database:
ECA

Approval No: 3241-9FJRQ7
Approval Date: 2014-01-23
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
Address:
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/6320-9D8JLR-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: 2129786 Ontario Limited
Ottawa ON K2C 3H2

Database:
ECA

Approval No: 2105-9BQJD3
Approval Date: 2013-09-23
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address:
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/1148-9ADKLS-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: 2129786 Ontario Limited
Ottawa ON K2C 3H2

Database:
ECA

Approval No: 0194-929KD5
Approval Date: 2012-11-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address:
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/7618-8UCHB4-14.pdf>

Site: **WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA** **Database:**
ON **ECA**

Approval No: R-003-3534187580 **MOE District:**
Approval Date: 2015-10-26 **City:**
Status: Registered **Longitude:**
Record Type: **Latitude:**
Link Source: **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type:
Project Type: Heating System
Address: 2277 RIVERSIDE OTTAWA
Full Address:
Full PDF Link: <http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2017482>

Site: **WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA** **Database:**
ON **ECA**

Approval No: R-003-7543036415 **MOE District:**
Approval Date: 2015-11-19 **City:**
Status: Registered **Longitude:**
Record Type: **Latitude:**
Link Source: **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type:
Project Type: Heating System
Address: 5357 Fernbank Kanata
Full Address:
Full PDF Link: <http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2018018>

Site: **WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA** **Database:**
ON **ECA**

Approval No: R-003-4538650974 **MOE District:**
Approval Date: 2015-11-12 **City:**
Status: Registered **Longitude:**
Record Type: **Latitude:**
Link Source: **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type:
Project Type: Heating System
Address: 450 TERMINAL OTTAWA
Full Address:
Full PDF Link: <http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2017799>

Site: **Monarch Construction Limited** **Database:**
ON **PTTW**

EBR Registry No: 010-9847 **Decision Posted:**
Ministry Ref No: 1376-84RLVW **Exception Posted:**
Notice Type: Instrument Decision **Section:**
Notice Stage: **Act 1:**
Notice Date: December 02, 2014 **Act 2:**
Proposal Date: June 28, 2010 **Site Location Map:**
Year: 2010
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:

Posted By:
Company Name: Monarch Construction Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3584 Jockvale Road, Nepean Ontario, K2G 3H2
Comment Period:
URL:

Site Location Details:

Monarch Corporation Address: Lot: 7-10, Concession: 2, Ottawa, City District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 10 -100 metres eg. Topographic Map, Method: GIS Software, UTM Easting: 442618, UTM Northing: 5010739 NEPEAN

Site: **Van's Industrial & Specialty Coatings<UNOFFICIAL>**
Terry Fox Drive, Nepean Ottawa ON

Database:
SPL

Ref No:	2438-6GNMTJ	Discharger Report:	0
Site No:		Material Group:	Oil
Incident Dt:	9/28/2005	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	Other Transport Accident	Sector Type:	Other Motor Vehicle
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	Ottawa
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	
Receiving Medium:	Land & Water	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	9/28/2005	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	Spills to Watercourses
Incident Reason:	Adverse Road Condition - Road faults	Source Type:	
Site Name:	East side of Terry Fox Drive, between March Road and Legget Drive<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Van's Cleaning, 40 L diesel to road, ditch, sewer		
Contaminant Qty:			

Site: **PUC**
TERRY FOX DR PAD TRANSFORMER BY NEWBRIDGE COMM. LTD. KANATA CITY ON

Database:
SPL

Ref No:	4874	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	6/7/1988	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	COOLING SYSTEM 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:		Site Municipality:	20103
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	6/7/1988	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	

Incident Reason: FIRE/EXPLOSION **Source Type:**
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: KANATA HYDRO - 150 L MINERAL OIL (NO PCBS) TO GROUND.
Contaminant Qty:

Site: lot 31 ON

Database:
WWIS

Well ID:	1534734	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Not Used	Date Received:	6/10/2004
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Not A Well	Abandonment Rec:	
Water Type:		Contractor:	6907
Casing Material:		Form Version:	2
Audit No:	265833	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	OTTAWA CITY
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	031
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:			

Bore Hole Information

Bore Hole ID:	11097509	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	
Code OB Desc:	Overburden	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	5/31/2004	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID:	932942463
Layer:	1
Color:	
General Color:	
Mat1:	24
Most Common Material:	PREV. DRILLED
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	40
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID: 961534734
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11101224
Casing No: 1
Comment:
Alt Name:

Results of Well Yield Testing

Pump Test ID: 991534734
Pump Set At:
Static Level: 8
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

Site: lot 31 ON

Database:
WWIS

Well ID: 1528149
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 149112
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: 8/30/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY
Site Info:
Lot: 031
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049688
DP2BR:
Spatial Status:
Code OB: p

Elevation:
Elevrc:
Zone: 18
East83:

Code OB Desc: Unknown type above a bedrock layer
Open Hole:
Cluster Kind:
Date Completed: 7/27/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931068739
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 2
Formation End Depth: 3
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068737
Layer: 1
Color: 8
General Color: BLACK
Mat1: 00
Most Common Material: UNKNOWN TYPE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068741
Layer: 5
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 74
Mat2 Desc: LAYERED
Mat3:
Mat3 Desc:
Formation Top Depth: 4
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068740
Layer: 4
Color: 6
General Color: BROWN
Mat1: 08
Most Common Material: FINE SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 3
Formation End Depth: 4
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068738
Layer: 2
Color: 2
General Color: GREY
Mat1: 21
Most Common Material: GRANITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2
Formation End Depth: 2
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933113005
Layer: 3
Plug From: 9
Plug To: 20
Plug Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933113004
Layer: 2
Plug From: 7
Plug To: 9
Plug Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933113003
Layer: 1
Plug From: 3
Plug To: 7
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961528149
Method Construction Code: 6
Method Construction: Boring

Other Method Construction:

Pipe Information

Pipe ID: 10598258
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086839
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 20
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326495
Layer: 1
Slot: 010
Screen Top Depth: 10
Screen End Depth: 20
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Site:
con 9 ON

Database:
WWIS

Well ID: 1531195
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 208616
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: 7/17/2000
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GOULBOURN TOWNSHIP
Site Info:
Lot:
Concession: 09
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052729
DP2BR: 8
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:

Cluster Kind:
Date Completed: 6/21/2000
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931077795
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 68
Mat3 Desc: DRY
Formation Top Depth: 0
Formation End Depth: 8
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077796
Layer: 2
Color: 6
General Color: BROWN
Mat1: 17
Most Common Material: SHALE
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 8
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077797
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 12
Formation End Depth: 85
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933116369

Layer: 1
Plug From: 0
Plug To: 21
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961531195
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10601299
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930092184
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930092185
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991531195
Pump Set At:
Static Level: 5
Final Level After Pumping: 50
Recommended Pump Depth: 61
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 5
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:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934913422
Test Type: Draw Down
Test Duration: 60
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934396568
Test Type: Draw Down
Test Duration: 30
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934121157
Test Type: Draw Down
Test Duration: 15
Test Level: 83
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934665294
Test Type: Draw Down
Test Duration: 45
Test Level: 50
Test Level UOM: ft

Water Details

Water ID: 933491558
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 73
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Sep 2020

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-Jun 30, 2020

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 2018

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: Jul 31, 2020

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-Jun 30, 2020

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 -Dec 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Nov 2020

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-Dec 31, 2020

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: Jul 31, 2020

Environmental Activity and Sector Registry:

Provincial [EASR](#)

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

Government Publication Date: Oct 2011-Dec 31, 2020

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-Dec 31, 2020

Environmental Compliance Approval:

Provincial [ECA](#)

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

Government Publication Date: Oct 2011- Dec 31, 2020

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-Oct 31, 2020

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 / 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, 2019

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: Jul 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-Sep 2020

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: Jul 31, 2020

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-Jul 31, 2020

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 2018

TSSA Historic Incidents:

Provincial **HINC**

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal **IAFT**

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial **INC**

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

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-Jan 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, 2018

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-Sep 30, 2020

National Energy Board Wells:

Federal [NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

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

Government Publication Date: 1988-Aug 31, 2020

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-Jun 2020

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-Dec 31, 2020

Canadian Pulp and Paper:

Private

PAP

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

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

Parks Canada Fuel Storage Tanks:

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

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

Government Publication Date: Oct 2011-Dec 31, 2020

Pipeline Incidents:

Provincial PINC

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

Government Publication Date: Oct 31, 2020

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-Dec 31, 2020

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: 1986-2016

Record of Site Condition:

Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Nov 2020

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-Jun 30, 2020

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.

Government Publication Date: 1988-Mar 2020; Jul 2020 - Aug 2020

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, 2017

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-Aug 2019

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Dec 31, 2020

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: Apr 30, 2020

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 3

QUALIFICATIONS OF ASSESSORS

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Junior Environmental Engineer

EDUCATION

University of Guelph, B.Eng., 2019
Environmental Engineering

EXPERIENCE

2019 – Present

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Junior Environmental Engineer

2018

Health Canada FNIHB

Proposal and Final Design Review
Student Engineer

SELECT LIST OF PROJECTS

Phase I and II – ESA Reports – Various Sites - Ottawa
Large Scale Remediation Program – Caivan Residential Development
National Capital Region (CSA Z768-01 & MECP)
Remediation Programs – Various Sites - Ottawa
Designated Substance Surveys – Various Sites – Ottawa
Geotechnical Investigations – Various Sites
Subgrade Reviews – Various Sites – Ottawa
Density Testing – Residential and Commercial Sites – Ottawa
Bearing Surface Investigations – Various Sites - Ottawa

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Associate and Supervisor of the Environmental Division
Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991
Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present

Paterson Group Inc.

Associate and Senior Environmental/Geotechnical Engineer
Environmental and Geotechnical Division
Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Richmond Road Reconstruction - Ottawa
Billings Hurdman Interconnect - Ottawa
Bank Street Reconstruction - Ottawa
Environmental Review – Various Laboratories across Canada - CFIA
Dwyer Hill Training Centre – Ottawa
Nortel Networks Environmental Monitoring - Carling Campus – Ottawa
Remediation Program - Block D Lands – Kingston
Investigation of former landfill sites – City of Ottawa
Record of Site Condition for Railway Lands – North Bay
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
Montreal Road Reconstruction - Ottawa
Appleford Street Residential Development - Ottawa
Remediation Program - Ottawa Train Yards
Remediation Program - Bayshore and Heron Gate
Gladstone Avenue Reconstruction – Ottawa
Somerset Avenue West Reconstruction - Ottawa