



Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

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Materials Testing

Building Science

Archaeological
Services

Phase I-Environmental Site Assessment

115 Lusk Street
Ottawa, Ontario

Prepared For

DCR/Phoenix Homes

Paterson Group Inc.

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April 9, 2020

Report: PE4898-1

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by DCR/Phoenix Homes to conduct a Phase I-Environmental Site Assessment (ESA) for the property addressed 115 Lusk Street, in the City of Ottawa, Ontario, herein referred to as the Phase I Property. The purpose of this Phase I-ESA was to research the past and current use of the Phase I Property and 250m study area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property has never been developed and remains undeveloped land. Neighbouring lands were also vacant lands until the early 2000s, where land further north was developed with a residential development. No potential environmental concerns were noted with the former use of the Phase I Property or the lands within the Phase I Study Area.

Following the historical research, a site visit was conducted. The Phase I Property is currently vacant. Neighbouring lands to the north, east, and south are vacant lands and a construction site to the west. Surrounding lands further are residential to the north and east with commercial to the south. No potential environmental concerns were noted with the current use of the Phase I Property or lands within the Phase I Study Area.

Conclusion

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

1.0 INTRODUCTION

At the request of DCR/Phoenix Homes, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the property addressed 115 Lusk Street, in the City of Ottawa, Ontario, herein referred to as the Phase I Property. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject land.

Paterson was engaged to conduct this Phase I-ESA by Mr. Michael Boucher with DCR/Phoenix Homes. The head office of DCR/Phoenix Homes is located at 18 Bentley Avenue, Ottawa. Mr. Boucher can be reached by telephone at (613) 723-9227.

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

This Phase I-ESA report has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and also complies with 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.

2.0 PHASE I PROPERTY INFORMATION

| | |
|--------------------------|--|
| Address: | 115 Lusk Street, Ottawa, Ontario |
| Legal Description: | Part of Lot 4, Concession 4, Nepean (now in the City of Ottawa), Ontario. |
| Location: | The Phase I Property is located on the west side of Fallowfield Road where it transects with Forager Street, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text. |
| Latitude and Longitude: | 45° 16' 26.48" N, 75° 47' 16.78" W |
| Site Description: | |
| Configuration: | Irregular |
| Site Area: | 0.41 hectares (approximately) |
| Zoning: | IP – Industrial Zone |
| Current Use: | The Phase I Property is currently vacant land. |
| Services: | The site is located 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 property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 153/04, as amended, 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 the 1965 aerial photograph, the Phase I Property has never been developed and remains undeveloped vacant land.

National Archives

Fire Insurance Plans (FIPs) and City directories for the Phase I Property and lands within the Phase I Study Area are not available.

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 and aerial photographs.

Plan of Survey

A plan of survey was not available for review at this time.

4.2 Environmental Source Information

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 March 12, 2020. The search did not reveal any natural features or ANSIs within the Phase I Study Area.

PCB Inventory

A search of national PCB waste storage sites was conducted on March 12, 2020. No PCB waste storage sites are located within the Phase I Study Area

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on March 12, 2020. Based on the search results, the Phase I Property and other properties within the 250m study area are not listed in the NPRI.

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

An ERIS search was requested in lieu of a MECP Freedom of Information (FOI) request pertaining to all environmental conditions, permits, certificates of approval, compliance reports, fuel oil storage tanks, spills and waste generators regarding the subject site and neighbouring lands.

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.

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 Phase I Property. No Records of Site Condition (RSC) were filed for the Phase I Property or properties within the Phase I 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 the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

An ERIS search was conducted in lieu of contacting the TSSA, Fuels Safety Branch in Toronto to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. According to the ERIS report, there were no historical or current fuel storage tanks were identified in the study area. A copy of the ERIS report 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 are no closed landfill sites within the vicinity of the Phase I Study Area.

City of Ottawa Historical Land Use Inventory (HLUI)

A request for a search of the City of Ottawa’s Historical Land Use Inventory (HLUI) database was submitted to the City of Ottawa. A response had not been received at the time of issuing this report. A copy of the HLUI2005 search results will be forwarded to the client. A copy of the HLUI request form is provided in Appendix 2.

Environmental Risk Information Services (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I Property and properties within a 250 m search radius.

Based on the ERIS search, there were no records identified for the Phase I Property.

A number of records from various databases were identified in the ERIS search, which included Permit to take water (PTTW), Certificates of Approval (CAs), Environmental Activity & Sector Registry, Environmental Compliance Approvals (ECAs) and Ontario Waste Generators for properties within the 250 m search radius. The majority of these records, specifically the PTTW, Environmental Approvals and Compliance records were associated with the relatively recent residential developments on the neighbouring lands associated with Municipal and Private Sewer and Water Works as well as PTTW, which are considered non-issues to the Phase I Property.

One property addressed 100 Citigate Drive, approximately 188 m south of the subject land was registered as a waste generator of halogenated solvent and residues. Base on the separation distance, this property is not considered to pose a risk to the Phase I Property.

In summary, no PCAs that would generate APECs on the Phase I Property were identified in the ERIS report. A copy of the report is included in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

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:

- | | |
|------|--|
| 1965 | The subject site and neighbouring lands are vacant and undeveloped. Fallowfield Road is present at this time. |
| 1976 | No significant changes are apparent on the subject site or surrounding lands. |
| 1991 | No significant changes are apparent on the subject site. Surrounding lands further to the north and east are occupied by what appears to be residences and industrial buildings, respectively. Lands to the south and west remain vacant at this time. |
| 2002 | The subject site and neighbouring lands to the south, north and west are vacant. With the exception of Fallowfield Road (which has been realigned at this time) and Strandherd Drive, neighbouring lands remain unchanged from the previous photograph. The old section of Fallowfield Road to the north of the site has been renamed O’Keefe Court. |
| 2011 | No changes are apparent on the subject site or surrounding lands, with the exception of additional residential development further north. |
| 2017 | The subject site remains unchanged from the previous photograph. Neighbouring lands to the east and south are occupied with a residential development and commercial building, respectively. |

Laser copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the local topography in the immediate vicinity of the site is approximately 100m ASL, while the regional topography generally slopes down to the southeast, toward the Jock River. 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. According to this physiographic map, the site is located in the St. Lawrence Lowlands. 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 Phase I Property is located in the Central St. Lawrence Lowland, which is generally less than 150 m above sea level.

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 sandstone and dolomite of the March Formation. Overburden is reported to consist of plain till with some offshore marine deposits of clay and silt with depths ranging from 5 to 10 m over the entire site.

Natural Water Bodies and Areas of Natural Significance

No natural water bodies or areas of natural significance are known to exist on the Phase I Property or within the Phase I Study Area.

Water Well Records

The MECP online interactive well record mapping system was accessed on March 12, 2020, to conduct a search for all drilled wells within 250 m of the Phase I Property.

The search returned one monitoring well cluster record drilled approximately 200m south of the Phase I Property. The general soil profile described in the record included sandy silt, followed by clayey silt, underlain by boulders.

Based on the separation distances, these monitoring wells are not considered a concern to the Phase I Property. A copy of the well record is provided in Appendix 2.

5.0 INTERVIEWS

Mr. Michael Boucher of DCR/Phoenix Homes, the current property owner was interviewed via email on March 12, 2020. DCR/Phoenix Homes has owned the property circa 2005. According to Mr. Boucher, there is potentially fill material (granular and reworked native soil) on-site from the newly constructed access roadways (Lusk Street and Forager Street) and installment of the underground utilities (sewers and watermains). Aside from these utilities, the Phase I Property remains vacant. Mr. Boucher was unaware of any potential environmental concerns regarding the subject site.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on March 12, 2020. Weather conditions were overcast with a temperature of approximately -2°C. Ms. Mandy Witteman 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.

6.1 Specific Observation at Phase I Property

Subsurface Structures and Utilities

The Phase I Property is situated in a municipally serviced area. There are presently sewer and water services entering the Phase I Property. Other underground utility services in the immediate vicinity of the subject land include natural gas, and electricity. No well or private sewage system was observed on the property at the time of the site visit, nor are they expected to be present.

Site Features

There are no buildings present on the Phase I Property. It currently exists as vacant land. A storm sewer/manhole is present on Lusk Street, in front of the subject land. The site topography is at the grade of Lusk Street and slopes down towards Fallowfield Road in a southeasterly direction.

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 was as follows:

- North - Lusk Street and Forager Street, followed by vacant land;
- South - Construction site and vacant land, followed by Strandherd Drive;
- East - Fallowfield Road, followed by residential;
- West - Lusk Street, followed by vacant land.

Land use within the Phase I Study Area consists mainly of vacant lands and residences. No concerns were identified with the current use of the surrounding lands. The surrounding land use within the Phase I Study Area is presented on Drawing PE4898-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the available historical records, the Phase I Property has always existed as vacant and undeveloped land. There are no potential environmental concerns associated with the historical and current use of the Phase I Property.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

There are no potentially contaminating activities (PCAs) identified on the Phase I Property or on properties within the Phase I Study Area. Land use within the Phase I Study Area is either vacant land or residential with some commercial.

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) were identified on the Phase I Property.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

According to the Geological Survey of Canada website, the bedrock in the area of the Phase I Property is reported to consist of interbedded sandstone and dolomite from the March Formation. The overburden is reported to consist of plain till and some off-shore marine deposits consisting of clay and silt, ranging in depth from 5 to 10 m over the entire site.

The regional topography slopes down to the southeast towards the Jock River. The local groundwater flow beneath the Phase I Property is inferred to be in a southeasterly direction.

Existing Buildings and Structures

There are no buildings or structures present on the Phase I Property.

Subsurface Structures and Utilities

The Phase I Property is situated in a municipally serviced area. There are presently sewer and water services entering the Phase I Property.

Other underground utility services in the immediate vicinity of the subject land include natural gas, and electricity. No well or private sewage system was observed on the property at the time of the site visit.

Water Bodies and Areas of Natural Significance

No areas of natural significance or water bodies were identified on the Phase I Property or within the Phase I Study Area.

Drinking Water Wells

There are no potable water wells on the Phase I Property.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of residences and vacant land with some commercial.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, there were no PCAs identified on the Phase I Property or within the Phase I Study Area. Therefore, there are no areas of potential environmental concern (APECs) on the Phase I Property.

Contaminants of Potential Concern

There are no APECs on the Phase I Property and as such, no contaminants of potential concern (CPCs) identified 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 PCAs on the Phase I Property or in the Phase I Study Area. A variety of independent sources were consulted as part of this assessment, 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

Paterson Group was retained by DCR/Phoenix Homes to conduct a Phase I-Environmental Site Assessment (ESA) for the property addressed 115 Lusk Street, in the City of Ottawa, Ontario, herein referred to as the Phase I Property. The purpose of this Phase I-ESA was to research the past and current use of the Phase I Property and 250m study area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property has never been developed and remains undeveloped land. Neighbouring lands were also vacant lands until the early 2000s, where land further north was developed with a residential development. No potential environmental concerns were noted with the former use of the Phase I Property or the lands within the Phase I Study Area.

Following the historical research, a site visit was conducted. The Phase I Property is currently vacant. Neighbouring lands to the north, east, and south are vacant lands and a construction site to the west. Surrounding lands further are residential to the north and east with commercial to the south. No potential environmental concerns were noted with the current use of the Phase I Property or lands within the Phase I Study Area.

Conclusion

Based on the results of the assessment, **it is our opinion, that a Phase II Environmental Site Assessment is not required for the Phase I 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 DCR/Phoenix Homes. Permission and notification from DCR/Phoenix Homes and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Mandy Witteman, B.Eng., M.A.Sc.



Mark D'Arcy, P.Eng., Q.P.ESA



Report Distribution:

- DCR/Phoenix Homes
- Paterson Group

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
National Energy Board.

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.
Interra 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.

Public Information Sources

ERIS search.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4898-1 – SITE PLAN

DRAWING PE4898-2 – SURROUNDING LAND USE PLAN

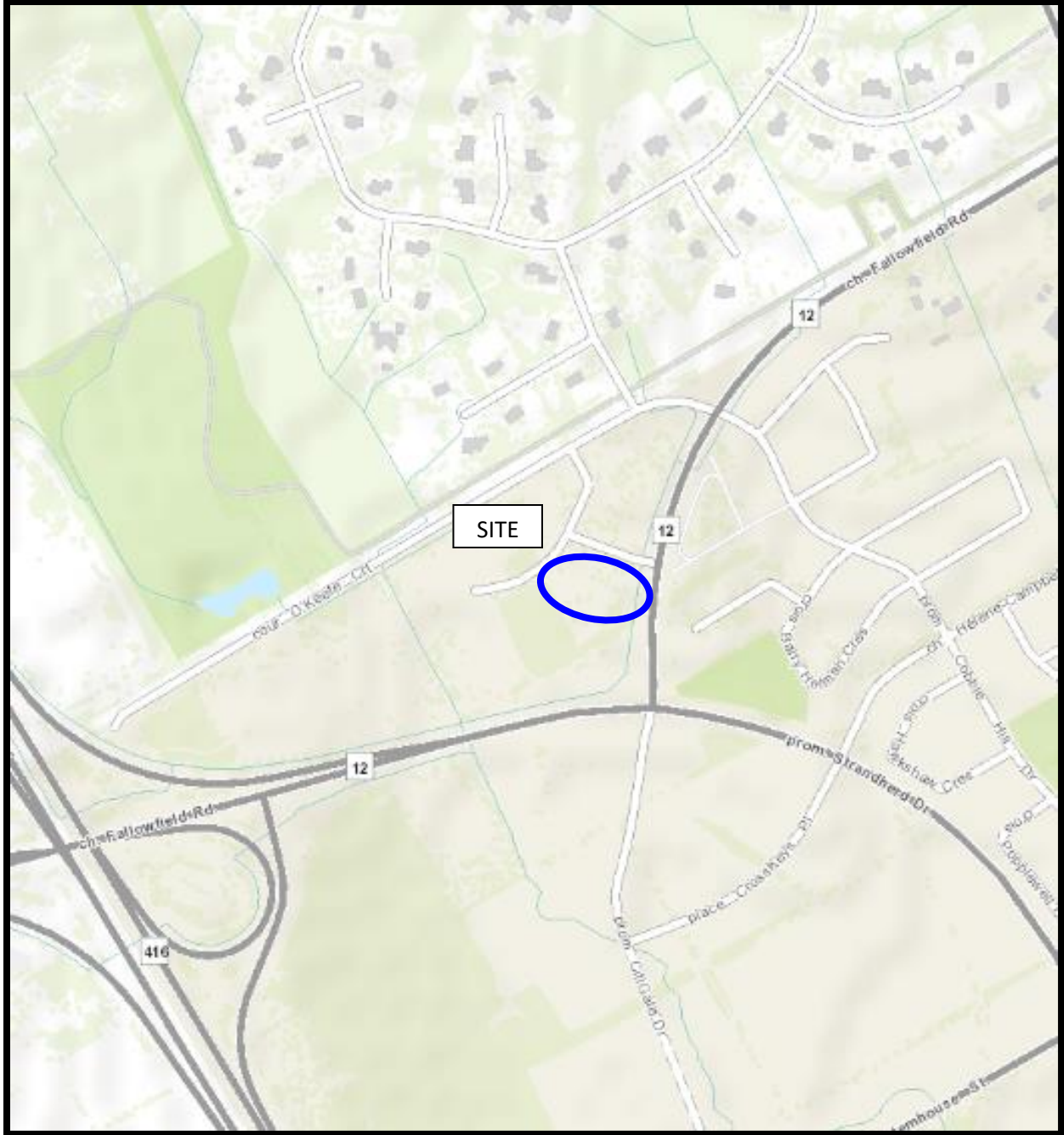


FIGURE 1
KEY PLAN

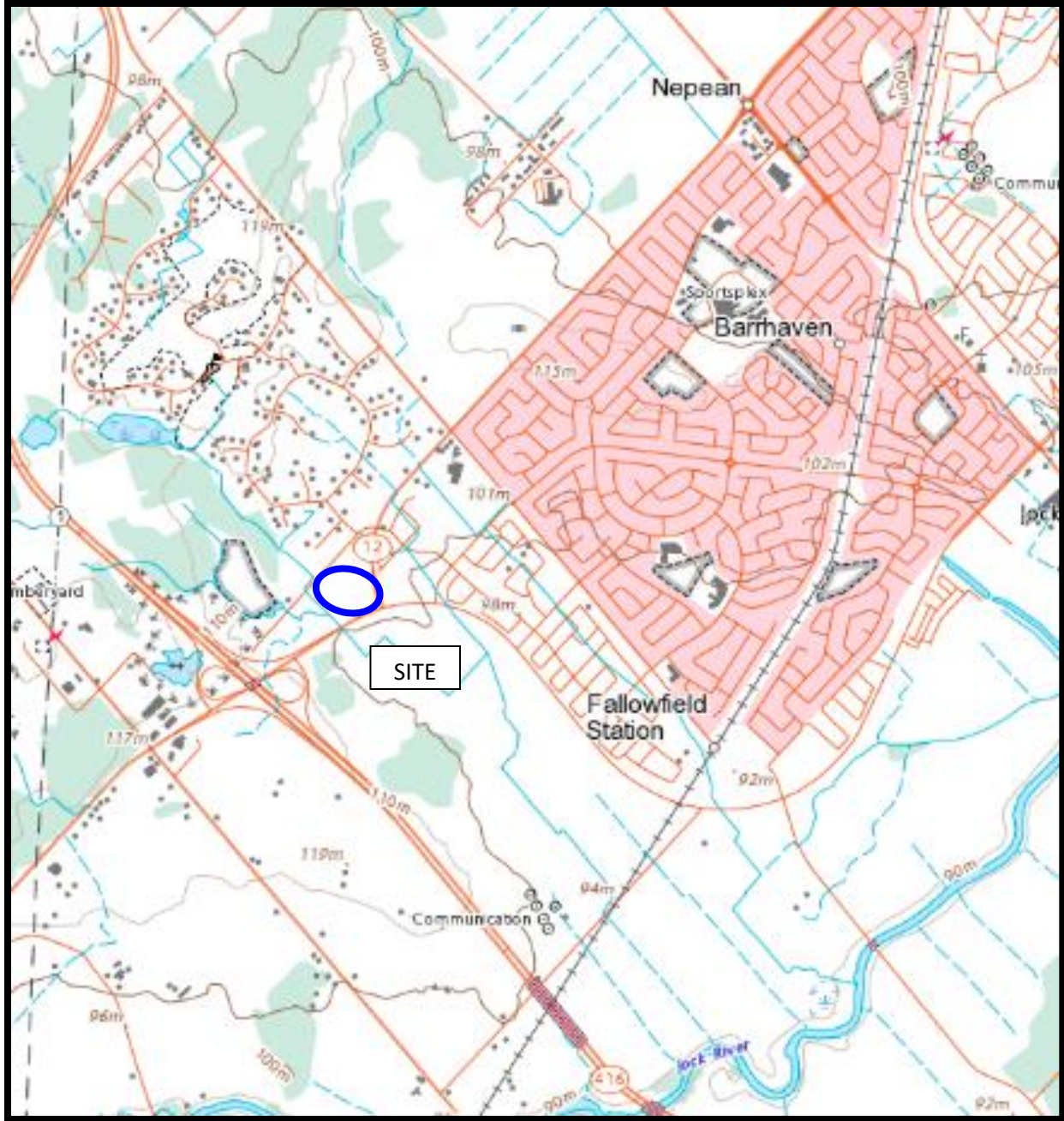
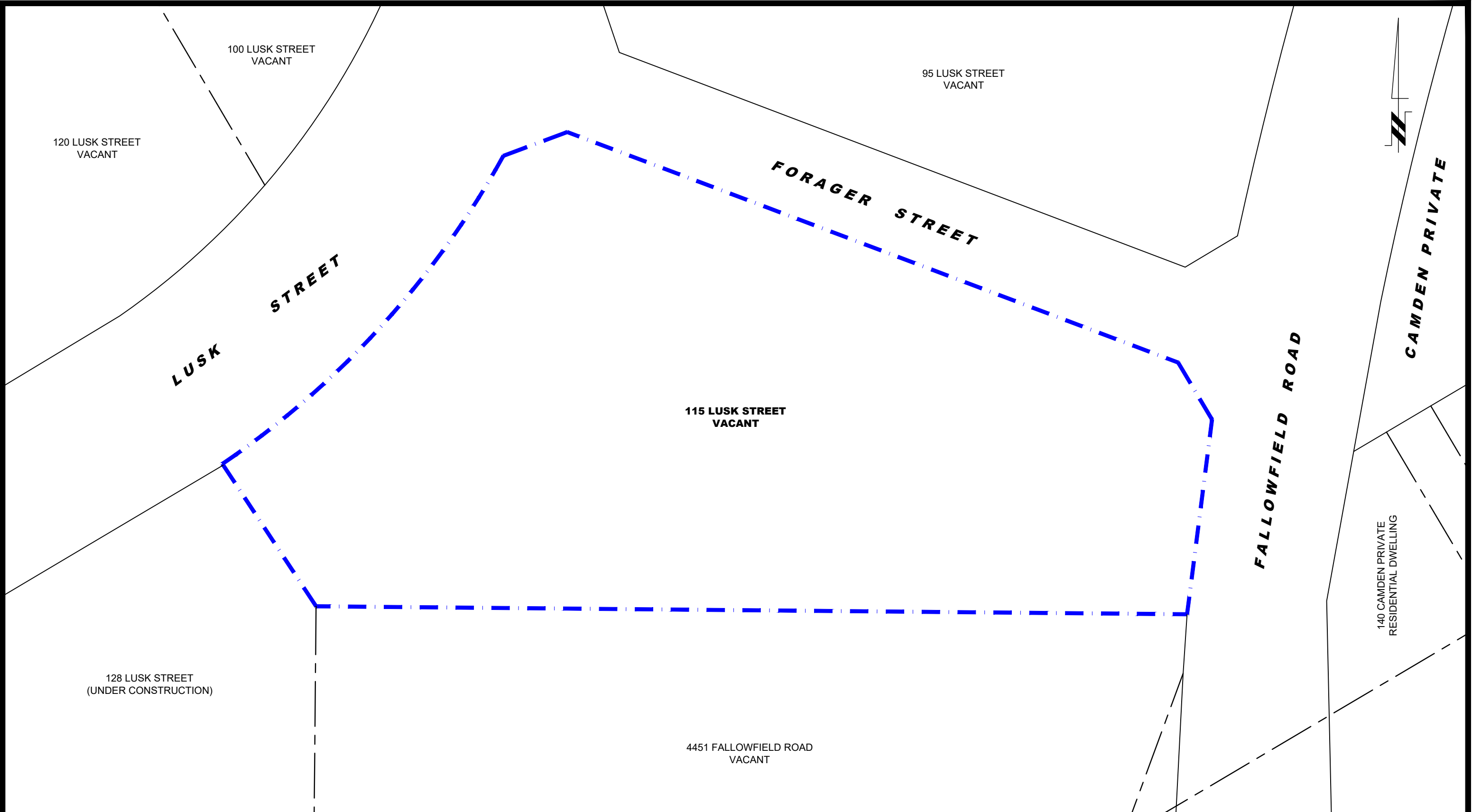


FIGURE 2
TOPOGRAPHIC MAP



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| NO. | REVISIONS | DATE | INITIAL |
|-----|-----------|------|---------|
| | | | |
| | | | |
| | | | |
| | | | |

DCR PHOENIX GROUP
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
 115 LUSK STREET
 OTTAWA, ONTARIO
 Title:
SITE PLAN

Scale: 1:400
 Drawn by: YA
 Checked by: MW
 Approved by: MSD

Date: 04/2020
 Report No.: PE4898-1
 Dwg. No.: **PE4898-1**
 Revision No.:



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| NO. | REVISIONS | DATE | INITIAL |
|-----|-----------|------|---------|
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| | | | |

DCR PHOENIX GROUP
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
115 LUSK STREET
ONTARIO

OTTAWA,
Title:

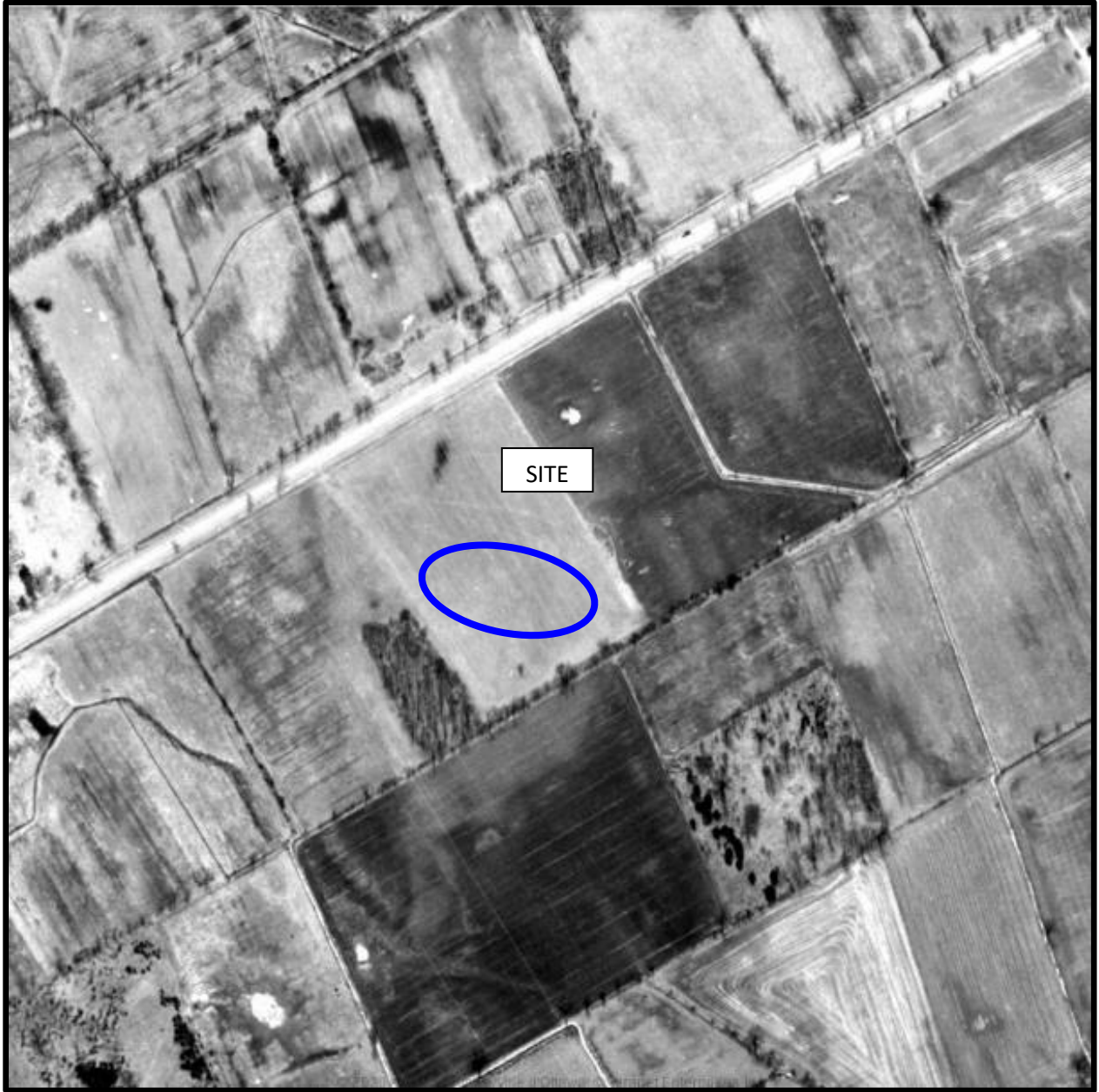
SURROUNDING LAND USE PLAN

| | | | |
|--------------|--------|---------------|-----------------|
| Scale: | 1:3000 | Date: | 04/2020 |
| Drawn by: | YA | Report No.: | PE4898-1 |
| Checked by: | MW | Dwg. No.: | PE4898-2 |
| Approved by: | MSD | Revision No.: | |

APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



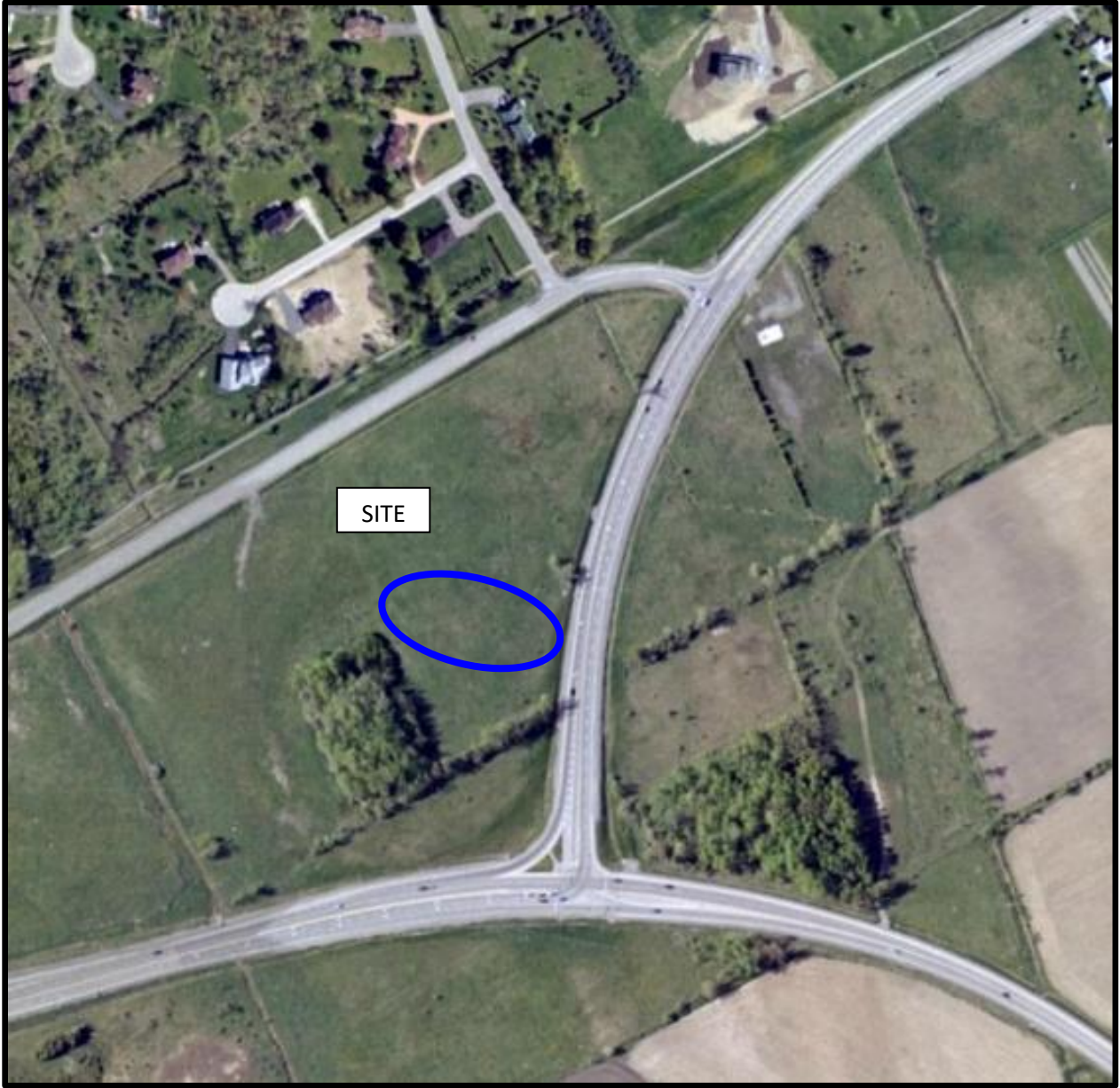
AERIAL PHOTOGRAPH
1965



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2017

Site Photographs

PE4898

115 Lusk Street – Ottawa, ON

March 12, 2019



Photograph 1: View of the Phase I Property, taken from Lusk Street, looking towards Fallowfield Road.



Photograph 2: View of the Phase I Property, taken from Lusk Street, looking south.

APPENDIX 2

MECP WELL RECORDS

TSSA CORRESPONDENCE

CITY OF OTTAWA HLUI SEARCH

ERIS REPORT

Instructions for Completing Form

- For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference.
- All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

| Ministry Use Only | | | | | | | | | | |
|-------------------|--|--|--|-----|--|--|--|-----|--|--|
| MUN | | | | CON | | | | LOT | | |

Address of Well Location (County/District/Municipality) **Ottawa** Township _____ Lot _____ Subsection _____

RR#/Street Number/Name **Followfield Road** City/Town/Village **Ottawa** Site/Compartment/Block/Tract etc. _____

GPS Reading NAD **83** Zone **18** Easting **438180** Northing **5013566** Unit Make/Model **Garmin** Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

Log of Overburden and Bedrock Materials (see instructions)

| General Colour | Most common material | Other Materials | General Description | Depth Metres | |
|----------------|----------------------|-----------------|---|--------------|-----|
| | | | | From | To |
| Light Brown | Sandy silt | | 3 Monitoring Wells as a cluster. Well tag installed on borehole #1 Typical borehole. | 0 | 6 m |
| Grey | Clayey silt | | | | |
| | Boulders | | | | |

Hole Diameter

| Depth From | Metres | | Diameter Centimetres |
|------------|--------|--|----------------------|
| | To | | |
| 0 | 6 | | 210mm |

Water Record

Water found at _____ metres Kind of Water

Fresh Sulphur Gas Salty Minerals Other: _____

After test of well yield, water was Clear and sediment free Other, specify _____

Chlorinated Yes No

Construction Record

| Inside diam centimetres | Material | Wall thickness centimetres | Depth Metres | |
|-------------------------|---|----------------------------|--------------|------|
| | | | From | To |
| 5cm | <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized | Schedule 40 | 0 | 1.25 |

Screen

| Outside diam | Material | Slot No. | Depth From | Depth To |
|--------------|---|----------|------------|----------|
| 6.5cm | <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized | #10 | 1.25 | 6 |

No Casing or Screen Open hole

Test of Well Yield

| Pumping test method (metres) | Draw Down | | Recovery | |
|---|--------------|--------------------|----------|--------------------|
| | Time min | Water Level Metres | Time min | Water Level Metres |
| Pump intake set at - (metres) | Static Level | | | |
| Pumping rate - (litres/min) | 1 | | 1 | |
| Duration of pumping _____ hrs + _____ min | 2 | | 2 | |
| Final water level end of pumping _____ metres | 3 | | 3 | |
| Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep | 4 | | 4 | |
| Recommended pump depth. _____ metres | 5 | | 5 | |
| Recommended pump rate. (litres/min) | 10 | | 10 | |
| If flowing give rate - (litres/min) | 15 | | 15 | |
| | 20 | | 20 | |
| | 25 | | 25 | |
| If pumping discontinued, give reason. | 30 | | 30 | |
| | 40 | | 40 | |
| | 50 | | 50 | |
| | 60 | | 60 | |

Plugging and Sealing Record Annular space Abandonment

| Depth set at - From | Metres To | Material and type (bentonite slurry, neat cement slurry) etc. | Volume Placed (cubic metres) |
|---------------------|-----------|---|------------------------------|
| 0 | 1 | Bentonite hole plug | |

Method of Construction

Cable Tool Rotary (air) Diamond Digging Rotary (conventional) Air percussion Jetting Other Rotary (reverse) Boring Driving Auger

Water Use

Domestic Industrial Public Supply Other Stock Commercial Not used Irrigation Municipal Cooling & air conditioning Well

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other) Observation well Abandoned, insufficient supply Dewatering Test Hole Abandoned, poor quality Replacement well

Location of Well

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

See attached site plan

Audit No. **Z 27107** Date Well Completed **2005 03 05**

Was the well owner's information package delivered? Yes No Date Delivered **2005 03 05**

Well Contractor/Technician Information

Name of Well Contractor **George Downing Estate Drilling Ltd.** Well Contractor's Licence No. **1844**

Business Address (street name, number, city etc.) **410 Main St. Grenville-sur-la-Rouge QC J0V1B0**

Name of Well Technician (last name, first name) **Downing, Bruce** Well Technician's Licence No. **12173**

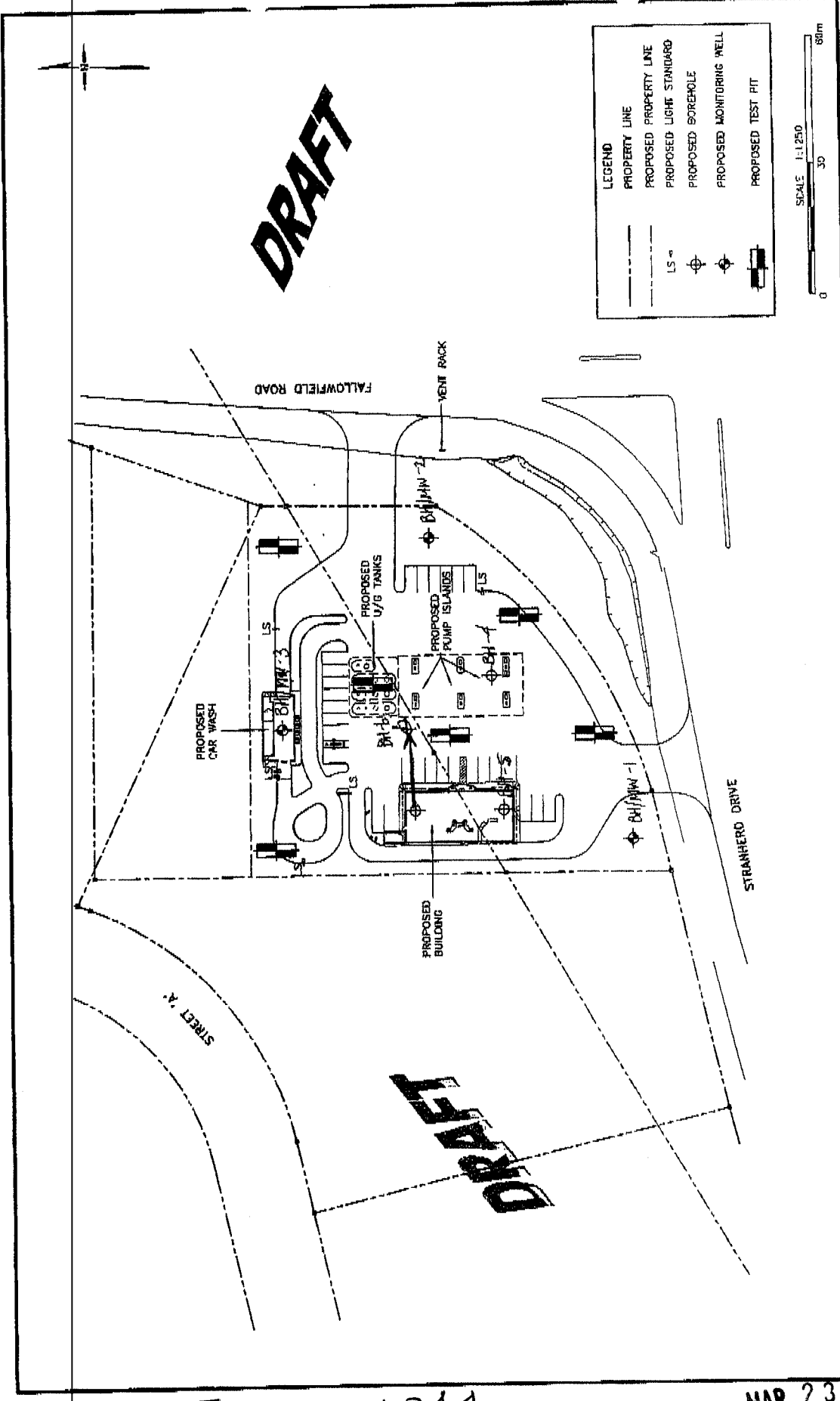
Signature of Technician/Contractor **Bruce Downing** Date Submitted **2005 03 18**

Ministry Use Only

Data Source **1844** Contractor **1844**

Date Received **MAR 23 2005** Date of Inspection **2005 03 05**

Remarks _____ Well Record Number _____



| | | | |
|--|---|-----------|---------------------|
| Title: PROPOSED TEST PIT, BOREHOLE MONITORING WELL LOCATIONS | Draw No: 31-JAN-2005 Project Manager: LS | | FIGURE 2 |
| | Date: 31-JAN-2005 | | |
| Client/Location: IMPERIAL OIL STRANHERD DRIVE (AT FALLOWFIELD ROAD) OTTAWA, ONTARIO | | | |
| Project No: OPOS-003 | Drawing: OP05003-PHWTP.DWG | Title: EM | Project Manager: EC |
| Source(S): - IMPERIAL OIL; PROPOSED SITE PLAN, SAP #99F0165-02P, APR. 14, 2004 | | | |

NOTE(S):
 - SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE

03/10/2
 4841
 MAR 23 2005

004

LOT 2

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

March 10, 2020
File: PE4898-HLUI

City of Ottawa
110 Laurier Avenue W
Ottawa, Ontario
K1P 1J1

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science
Archaeological Services

www.patersongroup.ca

Subject: **Authorization Letter, HLUI Search
Phase I-Environmental Site Assessment
115 Lusk Street, Ottawa ON**

Dear Sir,

Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

With this letter, the property owner authorizes the City of Ottawa and other regulatory bodies to release, to Paterson Group, information requested for the purpose of completing an environmental assessment of the property.

Name of Company/Property Owner:

PCR PHOENIX DEVELOPMENT
CORPORATION LIMITED.

Name of Representative

MICHAEL BOSCHER

Signature of Representative



Date

March 10 / 2020.



DATABASE REPORT

Project Property: *PE4898 - 115 Lusk Street
115 Lusk St
Nepean ON K2J 4S2*

Project No: *Will send tomorrow via email,*

Report Type: *Standard Report*

Order No: *20200406070*

Requested by: *Paterson Group Inc.*

Date Completed: *April 8, 2020*

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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.

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Executive Summary

Property Information:

Project Property: PE4898 - 115 Lusk Street
115 Lusk St Nepean ON K2J 4S2

Project No: Will send tomorrow via email,

Coordinates:

Latitude: 45.273986
Longitude: -75.7877465
UTM Northing: 5,013,689.30
UTM Easting: 438,210.15
UTM Zone: 18T

Elevation: 338 FT
102.88 M

Order Information:

Order No: 20200406070
Date Requested: April 6, 2020
Requested by: Paterson Group Inc.
Report Type: Standard Report

Historical/Products:

Executive Summary: Report Summary

| <i>Database</i> | <i>Name</i> | <i>Searched</i> | <i>Project Property</i> | <i>Within 0.25 km</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 | 2 | 2 |
| CA | <i>Certificates of Approval</i> | Y | 0 | 0 | 0 |
| CDRY | <i>Dry Cleaning Facilities</i> | Y | 0 | 0 | 0 |
| CFOT | <i>Commercial Fuel Oil Tanks</i> | Y | 0 | 0 | 0 |
| CHEM | <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 |
| 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 | 10 | 10 |
| EEM | <i>Environmental Effects Monitoring</i> | Y | 0 | 0 | 0 |
| EHS | <i>ERIS Historical Searches</i> | Y | 0 | 6 | 6 |
| 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 |
| FED TANKS | <i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i> | Y | 0 | 0 | 0 |
| FOFT | <i>Fisheries & Oceans Fuel Tanks</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 | 2 | 2 |
| GHG | <i>Greenhouse Gas Emissions from Large Facilities</i> | Y | 0 | 0 | 0 |
| HINC | <i>TSSA Historic Incidents</i> | Y | 0 | 0 | 0 |
| IAFT | <i>Indian & Northern Affairs Fuel Tanks</i> | Y | 0 | 0 | 0 |
| INC | <i>Fuel Oil Spills and Leaks</i> | Y | 0 | 0 | 0 |

| Database | Name | Searched | Project Property | Within 0.25 km | Total |
|-----------------|---|-----------------|-------------------------|-----------------------|--------------|
| LIMO | Landfill Inventory Management Ontario | Y | 0 | 0 | 0 |
| MINE | Canadian Mine Locations | Y | 0 | 0 | 0 |
| MNR | Mineral Occurrences | Y | 0 | 0 | 0 |
| NATE | National Analysis of Trends in Emergencies System (NATES) | Y | 0 | 0 | 0 |
| NCPL | Non-Compliance Reports | Y | 0 | 0 | 0 |
| NDFT | National Defense & Canadian Forces Fuel Tanks | Y | 0 | 0 | 0 |
| NDSP | National Defense & Canadian Forces Spills | Y | 0 | 0 | 0 |
| NDWD | National Defence & Canadian Forces Waste Disposal Sites | Y | 0 | 0 | 0 |
| NEBI | National Energy Board Pipeline Incidents | Y | 0 | 0 | 0 |
| NEBP | National Energy Board Wells | Y | 0 | 0 | 0 |
| NEES | National Environmental Emergencies System (NEES) | Y | 0 | 0 | 0 |
| NPCB | National PCB Inventory | Y | 0 | 0 | 0 |
| NPRI | National Pollutant Release Inventory | Y | 0 | 0 | 0 |
| OGWE | Oil and Gas Wells | Y | 0 | 0 | 0 |
| OOGW | Ontario Oil and Gas Wells | Y | 0 | 0 | 0 |
| OPCB | Inventory of PCB Storage Sites | Y | 0 | 0 | 0 |
| ORD | Orders | Y | 0 | 0 | 0 |
| PAP | Canadian Pulp and Paper | Y | 0 | 0 | 0 |
| PCFT | Parks Canada Fuel Storage Tanks | Y | 0 | 0 | 0 |
| PES | Pesticide Register | Y | 0 | 0 | 0 |
| PINC | Pipeline Incidents | Y | 0 | 0 | 0 |
| PRT | Private and Retail Fuel Storage Tanks | Y | 0 | 0 | 0 |
| PTTW | Permit to Take Water | Y | 0 | 1 | 1 |
| REC | Ontario Regulation 347 Waste Receivers Summary | Y | 0 | 0 | 0 |
| RSC | Record of Site Condition | Y | 0 | 0 | 0 |
| RST | Retail Fuel Storage Tanks | Y | 0 | 0 | 0 |
| SCT | Scott's Manufacturing Directory | Y | 0 | 0 | 0 |
| SPL | Ontario Spills | Y | 0 | 0 | 0 |
| SRDS | Wastewater Discharger Registration Database | Y | 0 | 0 | 0 |
| TANK | Anderson's Storage Tanks | Y | 0 | 0 | 0 |
| TCFT | Transport Canada Fuel Storage Tanks | Y | 0 | 0 | 0 |
| VAR | Variances for Abandonment of Underground Storage Tanks | Y | 0 | 0 | 0 |
| WDS | Waste Disposal Sites - MOE CA Inventory | Y | 0 | 0 | 0 |
| WDSH | Waste Disposal Sites - MOE 1991 Historical Approval Inventory | Y | 0 | 0 | 0 |
| WWIS | Water Well Information System | Y | 0 | 1 | 1 |
| Total: | | | 0 | 23 | 23 |

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 | EHS | | O'keefe Crt Ottawa On Ottawa ON | SW/106.8 | -2.03 | 16 |
| 2 | EHS | | 4451 Fallowfield Rd Nepean ON | SSW/108.3 | -2.00 | 16 |
| 3 | WWIS | | OTTAWA ON <i>Well ID:</i> 1535406 | SSW/126.9 | -2.00 | 16 |
| 4 | EHS | | Fallowfield Rd & Strandherd Dr Ottawa ON | SSE/138.8 | -1.31 | 19 |
| 5 | EHS | | 4310 Fallowfield Rd. Ottawa ON | ENE/143.4 | -0.02 | 19 |
| 6 | ECA | DCR/Phoenix Development Corporation Limited | 4310 Fallowfield Rd Ottawa ON K2E 6T8 | ENE/150.9 | -0.96 | 19 |
| 7 | EHS | | 4310 Fallowfield Rd Ottawa ON K2J4S2 | ENE/164.4 | -1.69 | 19 |
| 8 | ECA | 2116885 Ontario Inc. | 4401 Fallowfield Rd (Part Lot 20, Concession 4) Ottawa ON K2E 6T8 | SSW/169.9 | -2.20 | 19 |
| 8 | EHS | | 4401 Fallowfield Road Nepean ON K2R | SSW/169.9 | -2.20 | 20 |
| 9 | ECA | Strandherd Road Inc. | Strandherd Dr and Fallowfield Road Ottawa ON K2C 0P9 | SSE/189.4 | -2.72 | 20 |
| 10 | BORE | | ON | NE/226.2 | 0.33 | 20 |
| 11 | PTTW | 1578051 Ontario Inc. | Northern Site: 4268 and 4300 Fallowfield Road Southern Site: 2810 Cedarview Road CITY OF OTTAWA ON | ENE/234.5 | -1.99 | 21 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|-----------------------------|--|---------------------|----------------------|--------------------|
| 12 | BORE | | ON | W/239.6 | -2.00 | 22 |
| 13 | ECA | Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | S/247.0 | -3.31 | 23 |
| 13 | ECA | Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Nortel Dr, Crosskey Place, Systemhouse St, Dealership St, Philsar st Ottawa ON K2C 0P9 | S/247.0 | -3.31 | 23 |
| 13 | ECA | Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | S/247.0 | -3.31 | 24 |
| 13 | ECA | Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | S/247.0 | -3.31 | 24 |
| 13 | ECA | Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | S/247.0 | -3.31 | 24 |
| 13 | ECA | Zena Investment Corporation | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0A6 | S/247.0 | -3.31 | 24 |
| 13 | ECA | Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr 4175 Strandherd Drive for Sanitary and Storm Amendment Ottawa ON K2C 0P9 | S/247.0 | -3.31 | 25 |
| 13 | GEN | R.W. TOMLINSON LTD. | 100 CITIGATE DRIVE OTTAWA ON K2J6K7 | S/247.0 | -3.31 | 25 |
| 13 | GEN | R.W. TOMLINSON LTD. | 100 CITIGATE DRIVE OTTAWA ON K2J6K7 | S/247.0 | -3.31 | 25 |
| 13 | EASR | R. W. TOMLINSON LIMITED | 100 CITIGATE DR NEPEAN ON K2J 6K7 | S/247.0 | -3.31 | 26 |

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 2 BORE site(s) within approximately 0.25 kilometers of the project property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------------|-----------------------|-------------------------|----------------------------|---------------------------|
| | ON | NE | 226.24 | <u>10</u> |

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|-----------------------|-------------------------|----------------------------|---------------------------|
| | ON | W | 239.56 | <u>12</u> |

EASR - Environmental Activity and Sector Registry

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

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|--------------------------------------|-------------------------|----------------------------|---------------------------|
| R. W. TOMLINSON LIMITED | 100 CITIGATE DR NEPEAN ON K2J 6K7 | S | 246.98 | <u>13</u> |

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Mar 31, 2020 has found that there are 10 ECA site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---|---|-------------------------|----------------------------|--------------------------|
| DCR/Phoenix Development Corporation Limited | 4310 Fallowfield Rd Ottawa ON K2E 6T8 | ENE | 150.85 | <u>6</u> |
| 2116885 Ontario Inc. | 4401 Fallowfield Rd (Part Lot 20, Concession 4) Ottawa ON K2E 6T8 | SSW | 169.90 | <u>8</u> |
| Strandherd Road Inc. | Strandherd Dr and Fallowfield Road Ottawa ON K2C 0P9 | SSE | 189.38 | <u>9</u> |

| | | | | |
|-----------------------------|---|---|--------|--------------------|
| Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | S | 246.98 | 13 |
| Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | S | 246.98 | 13 |
| Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | S | 246.98 | 13 |
| Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Nortel Dr, Crosskey Place, Systemhouse St, Dealership St, Philsar st Ottawa ON K2C 0P9 | S | 246.98 | 13 |
| Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | S | 246.98 | 13 |
| Zena Investment Corporation | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0A6 | S | 246.98 | 13 |
| Strandherd Road Inc. | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr 4175 Strandherd Drive for Sanitary and Storm Amendment Ottawa ON K2C 0P9 | S | 246.98 | 13 |

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2020 has found that there are 6 EHS site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|---|-------------------------|----------------------------|-----------------------|
| | O'keefe Crt Ottawa On Ottawa ON | SW | 106.77 | 1 |
| | 4451 Fallowfield Rd Nepean ON | SSW | 108.30 | 2 |
| | Fallowfield Rd & Strandherd Dr Ottawa ON | SSE | 138.81 | 4 |

| | | | |
|---|-----|--------|-------------------|
| 4310 Fallowfield Rd. Ottawa ON | ENE | 143.39 | 5 |
| 4310 Fallowfield Rd Ottawa ON K2J4S2 | ENE | 164.36 | 7 |
| 4401 Fallowfield Road Nepean ON K2R | SSW | 169.90 | 8 |

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jan 31, 2020 has found that there are 2 GEN site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|--|-------------------------|----------------------------|-----------------------|
| R.W. TOMLINSON LTD. | 100 CITIGATE DRIVE OTTAWA ON K2J6K7 | S | 246.98 | 13 |
| R.W. TOMLINSON LTD. | 100 CITIGATE DRIVE OTTAWA ON K2J6K7 | S | 246.98 | 13 |

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994-Feb 29, 2020 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

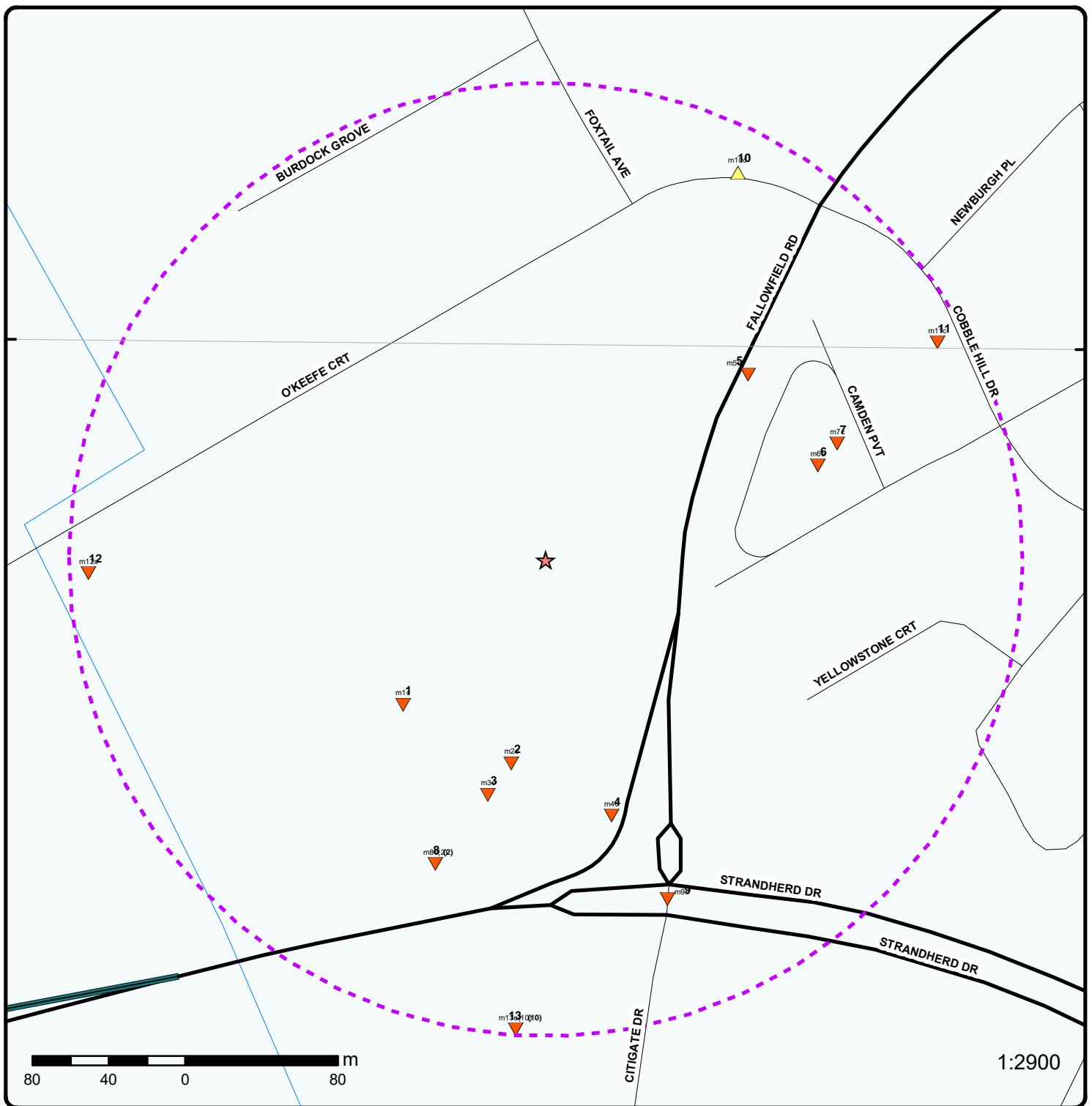
| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|---|-------------------------|----------------------------|-----------------------|
| 1578051 Ontario Inc. | Northern Site: 4268 and 4300 Fallowfield Road Southern Site: 2810 Cedarview Road CITY OF OTTAWA ON | ENE | 234.50 | 11 |

WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 1 WWIS site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|-----------------------|-------------------------|----------------------------|-----------------------|
| | OTTAWA ON | SSW | 126.94 | 3 |

Well ID: 1535406



Map : 0.25 Kilometer Radius

Order Number: 20200406070

Address: 115 Lusk St, Nepean, ON

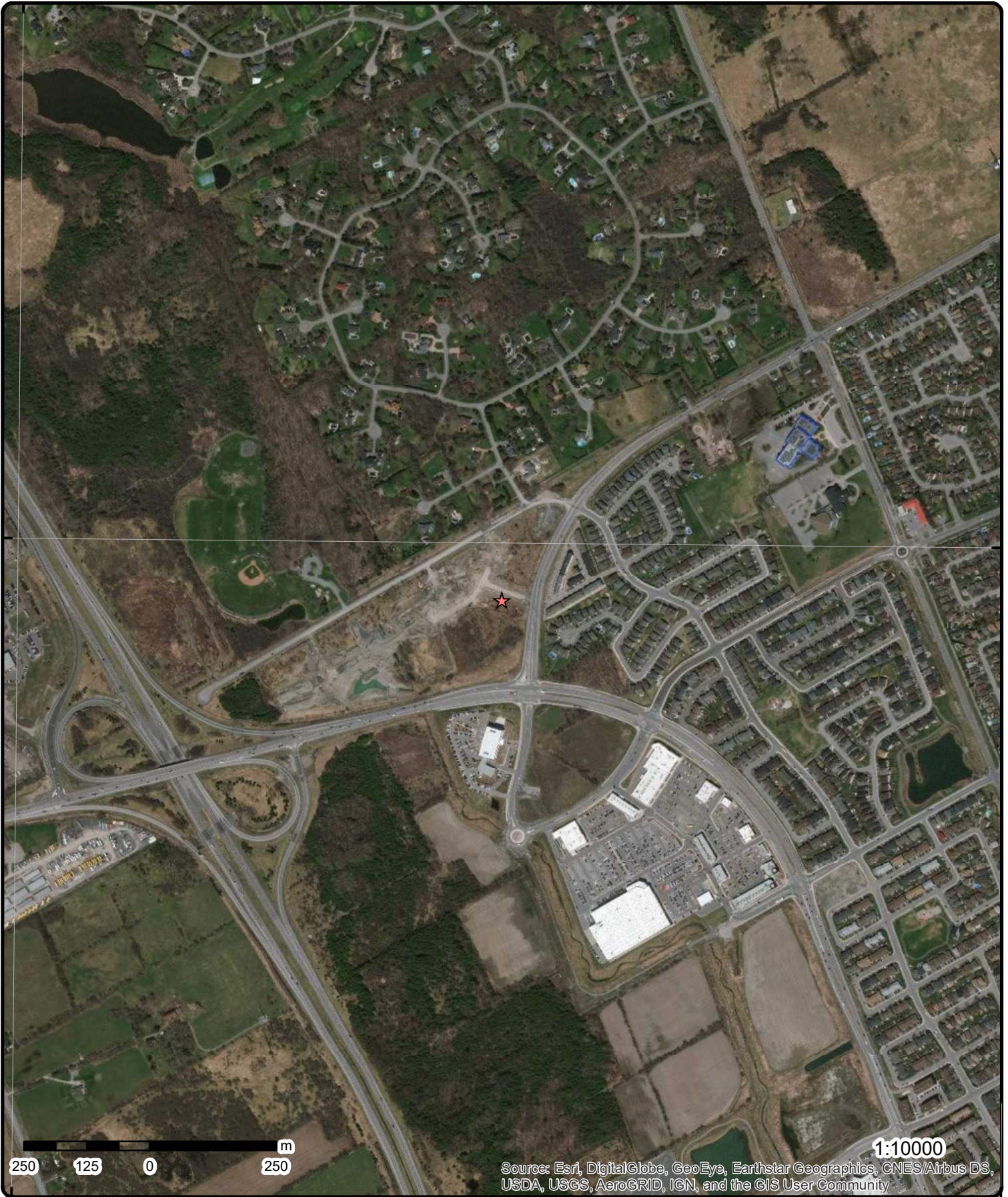


| | | | |
|-----------------------------------|----------------------|-----------------------------------|--------------------------------|
| Project Property | Expressway | Industrial and Resource - Regions | National Park |
| Buffer Outline | Principal Highway | Main Line | Provincial or Territorial 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°48'W

45°16'30"N

45°16'30"N



Aerial Year: 2019

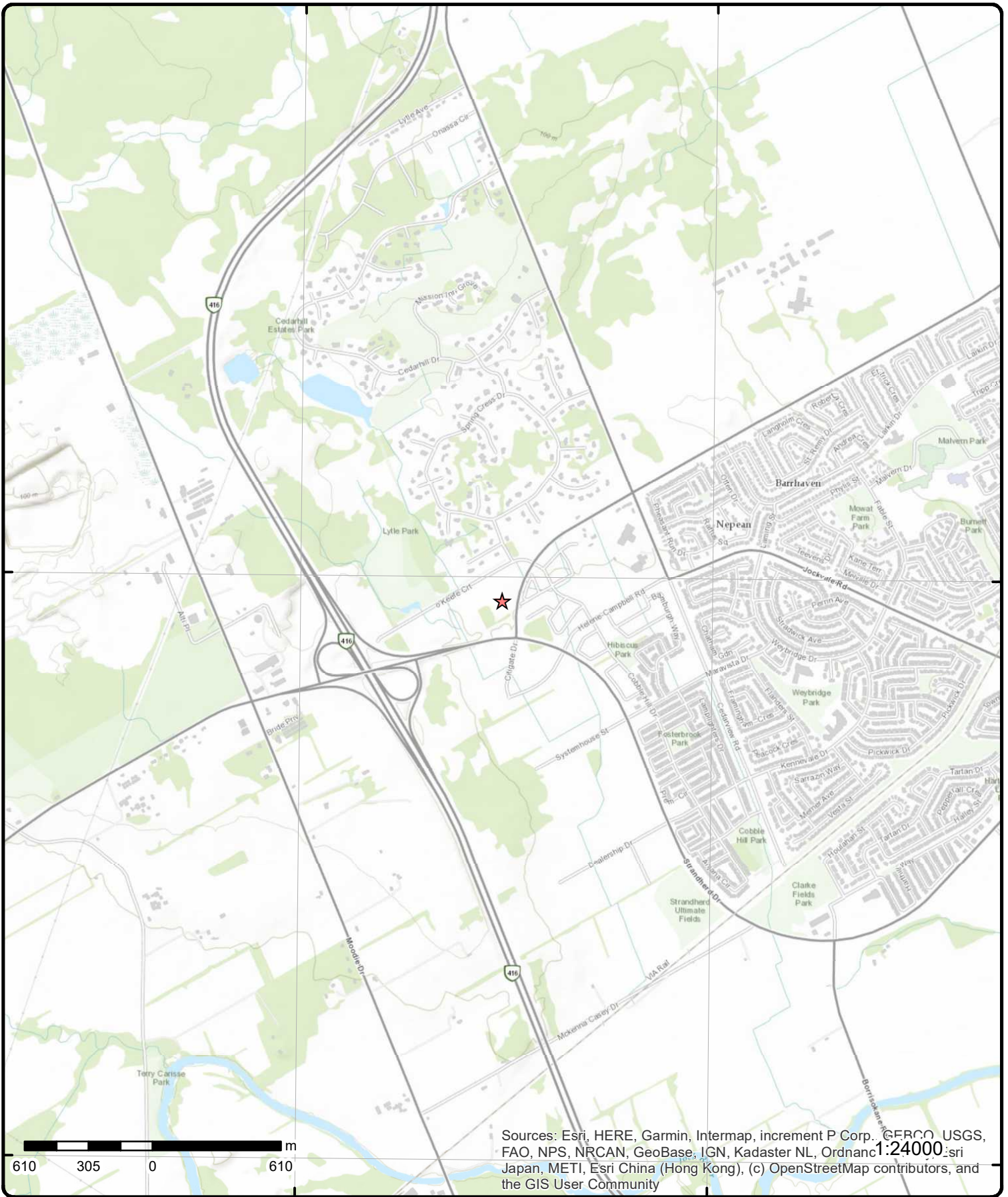
Address: 115 Lusk St, Nepean, ON

Source: ESRI World Imagery

Order Number: 20200406070



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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: 115 Lusk St, ON

Source: ESRI World Topographic Map

Order Number: 20200406070



© ERIS Information Limited Partnership

Detail Report

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|---|------------------|------------------------------------|------|
| <u>1</u> | 1 of 1 | SW/106.8 | 100.8 / -2.03 | O'keefe Crt Ottawa On Ottawa ON | EHS |
| Order No: 20170127001 Status: C Report Type: Standard Report Report Date: 02-FEB-17 Date Received: 27-JAN-17 Previous Site Name: Lot/Building Size: 36 acres Additional Info Ordered: Fire Insur. Maps and/or Site Plans; Topographic Maps; Aerial Photos | | Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.788691 Y: 45.273294 | | | |
| <u>2</u> | 1 of 1 | SSW/108.3 | 100.9 / -2.00 | 4451 Fallowfield Rd Nepean ON | EHS |
| Order No: 20150508123 Status: C Report Type: Standard Report Report Date: 14-MAY-15 Date Received: 08-MAY-15 Previous Site Name: Lot/Building Size: Additional Info Ordered: | | Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.787961 Y: 45.273023 | | | |
| <u>3</u> | 1 of 1 | SSW/126.9 | 100.9 / -2.00 | OTTAWA ON | WWIS |
| Well ID: 1535406 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Observation Wells Water Type: Casing Material: Audit No: Z27107 Tag: A020615 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: 3/23/2005 Selected Flag: Yes Abandonment Rec: Contractor: 1844 Form Version: 3 Owner: Street Name: FALLOWFIELD RD County: OTTAWA-CARLETON Municipality: NEPEAN TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: | | | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: 11315945 DP2BR: | | Elevation: 101.941482 Elevrc: | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|-------------------------|--------------------------------|
| Spatial Status: | | | | Zone: | 18 |
| Code OB: | o | | | East83: | 438180 |
| Code OB Desc: | Overburden | | | North83: | 5013566 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 3/5/2005 | | | UTMRC Desc: | margin of error : 30 m - 100 m |
| Remarks: | | | | Location Method: | wwr |
| Elevrc Desc: | | | | | |
| Location Source Date: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Source Revision Comment: | | | | | |
| Supplier Comment: | | | | | |

Overburden and Bedrock
Materials Interval

Formation ID: 932996253
Layer: 3
Color:
General Color:
Mat1: 13
Most Common Material: BOULDERS
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth:
Formation End Depth: 6
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 932996251
Layer: 1
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 81
Other Materials: SANDY
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth:
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 932996252
Layer: 2
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2: 61
Other Materials: CLAYEY
Mat3:
Other Materials:
Formation Top Depth:
Formation End Depth:

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation End Depth UOM: | | m | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 933266318 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 1 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | B | | | |
| Method Construction: | | Other Method | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 11330800 | | | |
| Casing No: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 930855170 | | | |
| Layer: | | 1 | | | |
| Material: | | 5 | | | |
| Open Hole or Material: | | PLASTIC | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 1.25 | | | |
| Casing Diameter: | | 5 | | | |
| Casing Diameter UOM: | | cm | | | |
| Casing Depth UOM: | | m | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 933412084 | | | |
| Layer: | | 1 | | | |
| Slot: | | #10 | | | |
| Screen Top Depth: | | 1.25 | | | |
| Screen End Depth: | | 6 | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | | m | | | |
| Screen Diameter UOM: | | cm | | | |
| Screen Diameter: | | 6.5 | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 11533421 | | | |
| Diameter: | | 21 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 6 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|---|----------------------------|------------------|--|--------------|
| 4 | 1 of 1 | SSE/138.8 | 101.6 / -1.31 | Fallowfield Rd & Strandherd Dr Ottawa ON | EHS |
| Order No: | 20050222008 | | | Nearest Intersection: | |
| Status: | C | | | Municipality: | |
| Report Type: | | | | Client Prov/State: | ON |
| Report Date: | 2/28/2005 | | | Search Radius (km): | 0.25 |
| Date Received: | 2/22/2005 | | | X: | -75.787289 |
| Previous Site Name: | | | | Y: | 45.272779 |
| Lot/Building Size: | | | | | |
| Additional Info Ordered: | Fire Insur. Maps and/or Site Plans | | | | |
| 5 | 1 of 1 | ENE/143.4 | 102.9 / -0.02 | 4310 Fallowfield Rd. Ottawa ON | EHS |
| Order No: | 20111025017 | | | Nearest Intersection: | O'Keefe Crt. |
| Status: | C | | | Municipality: | |
| Report Type: | Standard Report | | | Client Prov/State: | ON |
| Report Date: | 11/2/2011 | | | Search Radius (km): | 0.25 |
| Date Received: | 10/25/2011 11:45:19 AM | | | X: | -75.786408 |
| Previous Site Name: | | | | Y: | 45.274865 |
| Lot/Building Size: | | | | | |
| Additional Info Ordered: | Fire Insur. Maps and/or Site Plans; Title Searches; Aerial Photos; City Directory; Topographic Maps | | | | |
| 6 | 1 of 1 | ENE/150.9 | 101.9 / -0.96 | DCR/Phoenix Development Corporation Limited 4310 Fallowfield Rd Ottawa ON K2E 6T8 | ECA |
| Approval No: | 3382-9W2NPW | | | MOE District: | |
| Approval Date: | 2015-04-30 | | | 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: | 4310 Fallowfield Rd | | | | |
| Full Address: | | | | | |
| Full PDF Link: | https://www.accessenvironment.ene.gov.on.ca/instruments/4440-9UPQTB-14.pdf | | | | |
| 7 | 1 of 1 | ENE/164.4 | 101.2 / -1.69 | 4310 Fallowfield Rd Ottawa ON K2J4S2 | EHS |
| Order No: | 20130822023 | | | Nearest Intersection: | |
| Status: | C | | | Municipality: | |
| Report Type: | Standard Select Report | | | Client Prov/State: | ON |
| Report Date: | 03-SEP-13 | | | Search Radius (km): | .25 |
| Date Received: | 22-AUG-13 | | | X: | -75.785806 |
| Previous Site Name: | | | | Y: | 45.274544 |
| Lot/Building Size: | | | | | |
| Additional Info Ordered: | Fire Insur. Maps and/or Site Plans; Title Searches; City Directory | | | | |
| 8 | 1 of 2 | SSW/169.9 | 100.7 / -2.20 | 2116885 Ontario Inc. 4401 Fallowfield Rd (Part Lot 20, Concession 4) Ottawa ON K2E 6T8 | ECA |
| Approval No: | 3871-B3PKE8 | | | MOE District: | |
| Approval Date: | 2018-08-28 | | | City: | |
| Status: | Approved | | | Longitude: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|---|------|
| 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: 4401 Fallowfield Rd (Part Lot 20, Concession 4) Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1242-B3FJW7-14.pdf | | | | | |
| 8 | 2 of 2 | SSW/169.9 | 100.7 / -2.20 | 4401 Fallowfield Road Nepean ON K2R | EHS |
| Order No: 20181217027 Status: C Report Type: Standard Report Report Date: 18-DEC-18 Date Received: 17-DEC-18 Previous Site Name: Lot/Building Size: Additional Info Ordered: Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.78857 Y: 45.273255 | | | | | |
| 9 | 1 of 1 | SSE/189.4 | 100.2 / -2.72 | Strandherd Road Inc. Strandherd Dr and Fallowfield Road Ottawa ON K2C 0P9 | ECA |
| Approval No: 2386-9SZJ6S Approval Date: 2015-01-26 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: Strandherd Dr and Fallowfield Road Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6723-9PAHWZ-14.pdf | | | | | |
| 10 | 1 of 1 | NE/226.2 | 103.2 / 0.33 | ON | BORE |
| Borehole ID: 610536 OGF ID: 215512049 Status: Type: Borehole Use: Completion Date: AUG-1970 Static Water Level: Primary Water Use: Sec. Water Use: Total Depth m: -999 Depth Ref: Ground Surface Depth Elev: Drill Method: Orig Ground Elev m: 101 Elev Reliabil Note: DEM Ground Elev m: 102 Concession: Location D: Survey D: Comments: Inclin FLG: No SP Status: Initial Entry Surv Elev: No Piezometer: No Primary Name: Municipality: Lot: Township: Latitude DD: 45.275819 Longitude DD: -75.78649 UTM Zone: 18 Easting: 438311 Northing: 5013892 Location Accuracy: Accuracy: Not Applicable | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--|----------------------------|----------------------|--|-------------------------------|
| <u>Borehole Geology Stratum</u> | | | | | |
| Geology Stratum ID: | 218385833 | | | Mat Consistency: | |
| Top Depth: | 0 | | | Material Moisture: | |
| Bottom Depth: | 3.4 | | | Material Texture: | |
| Material Color: | | | | Non Geo Mat Type: | |
| Material 1: | Unknown | | | Geologic Formation: | |
| Material 2: | | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | UNSPECIFIED. SEISMIC VELOCITY = 1200. | | | | |
| Geology Stratum ID: | 218385834 | | | Mat Consistency: | Firm |
| Top Depth: | 3.4 | | | Material Moisture: | |
| Bottom Depth: | | | | Material Texture: | |
| Material Color: | Grey | | | Non Geo Mat Type: | |
| Material 1: | Bedrock | | | Geologic Formation: | |
| Material 2: | | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | BEDROCK. SEISMIC VELOCITY = 15000. BEDROCK. SEISMIC VELOCITY = 13000. SILT. GREY,FIRM. | | | | |
| <u>Source</u> | | | | | |
| 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: | L | | | Horizontal: | NAD27 |
| Observatio: | | | | Verticalda: | Mean Average Sea Level |
| Source Name: | Urban Geology Automated Information System (UGAIS) | | | | |
| Source Details: | File: OTTAWA1.txt RecordID: 03044 NTS_Sheet: | | | | |
| Confiden 1: | Gives some indication of sub-surface condition but material is unknown. | | | | |
| <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 | | | | |
| 11 | 1 of 1 | ENE/234.5 | 100.9 / -1.99 | 1578051 Ontario Inc. Northern Site: 4268 and 4300 Fallowfield Road Southern Site: 2810 Cedarview Road CITY OF OTTAWA ON | PTTW |
| EBR Registry No: | 011-6245 | | | Decision Posted: | |
| Ministry Ref No: | 8482-8TEKE3 | | | Exception Posted: | |
| Notice Type: | Instrument Decision | | | Section: | |
| Notice Stage: | | | | Act 1: | |
| Notice Date: | August 23, 2013 | | | Act 2: | |
| Proposal Date: | June 27, 2012 | | | Site Location Map: | |
| Year: | 2012 | | | | |
| Instrument Type: | (OWRA s. 34) - Permit to Take Water | | | | |
| Off Instrument Name: | | | | | |
| Posted By: | | | | | |
| Company Name: | 1578051 Ontario Inc. | | | | |

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

Site Address:

Location Other:

Proponent Name:

Proponent Address: 237 Somerset Street West, Ottawa Ontario, Canada K2P 0J3

Comment Period:

URL:

Site Location Details:

Northern Site: 4268 and 4300 Fallowfield Road Southern Site: 2810 Cedarview Road CITY OF OTTAWA

| | | | | | |
|--------------------|--------|---------|---------------|----|------|
| 12 | 1 of 1 | W/239.6 | 100.9 / -2.00 | ON | BORE |
|--------------------|--------|---------|---------------|----|------|

| | | | |
|----------------------------|----------------|---------------------------|----------------|
| Borehole ID: | 610530 | Inclin FLG: | No |
| OGF ID: | 215512043 | SP Status: | Initial Entry |
| Status: | | Surv Elev: | No |
| Type: | Borehole | Piezometer: | No |
| Use: | | Primary Name: | |
| Completion Date: | AUG-1970 | Municipality: | |
| Static Water Level: | | Lot: | |
| Primary Water Use: | | Township: | |
| Sec. Water Use: | | Latitude DD: | 45.273899 |
| Total Depth m: | -999 | Longitude DD: | -75.790798 |
| Depth Ref: | Ground Surface | UTM Zone: | 18 |
| Depth Elev: | | Easting: | 437971 |
| Drill Method: | | Northing: | 5013682 |
| Orig Ground Elev m: | 100 | Location Accuracy: | |
| Elev Reliabil Note: | | Accuracy: | Not Applicable |
| DEM Ground Elev m: | 100 | | |
| Concession: | | | |
| Location D: | | | |
| Survey D: | | | |
| Comments: | | | |

Borehole Geology Stratum

| | | | |
|----------------------------|-----------|----------------------------|--|
| Geology Stratum ID: | 218385823 | Mat Consistency: | |
| Top Depth: | 1.2 | Material Moisture: | |
| Bottom Depth: | 4.3 | Material Texture: | |
| Material Color: | | Non Geo Mat Type: | |
| Material 1: | Unknown | Geologic Formation: | |
| Material 2: | | Geologic Group: | |
| Material 3: | | Geologic Period: | |
| Material 4: | | Depositional Gen: | |

Gsc Material Description:
Stratum Description: UNSPECIFIED. SEISMIC VELOCITY = 2200.

| | | | |
|----------------------------|-----------|----------------------------|--|
| Geology Stratum ID: | 218385822 | Mat Consistency: | |
| Top Depth: | 0 | Material Moisture: | |
| Bottom Depth: | 1.2 | Material Texture: | |
| Material Color: | | Non Geo Mat Type: | |
| Material 1: | Unknown | Geologic Formation: | |
| Material 2: | | Geologic Group: | |
| Material 3: | | Geologic Period: | |
| Material 4: | | Depositional Gen: | |

Gsc Material Description:
Stratum Description: UNSPECIFIED. SEISMIC VELOCITY = 1000.

| | | | |
|----------------------------|-----------|---------------------------|------|
| Geology Stratum ID: | 218385824 | Mat Consistency: | Firm |
| Top Depth: | 4.3 | Material Moisture: | |
| Bottom Depth: | | Material Texture: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--|----------------------------|------------------|---|---|
| Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description: | Grey Bedrock | | | Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen: | |
| BEDROCK. SEISMIC VELOCITY = 13000. SILT. GREY,FIRM. 00035004. 000080110010000200128 **Note: Many records provided by the department have a truncated [Stratum Description] field. | | | | | |
| Source | | | | | |
| Source Type: Source Orig: Source Date: Confidence: Observatio: Source Name: Source Details: Confiden 1: | Data Survey Geological Survey of Canada 1956-1972 L | | | Source Appl: Source Iden: Scale or Res: Horizontal: Verticalda: | Spatial/Tabular 1 Varies NAD27 Mean Average Sea Level |
| Urban Geology Automated Information System (UGAIS) File: OTTAWA1.txt RecordID: 03038 NTS_Sheet: Gives some indication of sub-surface condition but material is unknown. | | | | | |
| Source List | | | | | |
| Source Identifier: Source Type: Source Date: Scale or Resolution: Source Name: Source Originators: | 1 Data Survey 1956-1972 Varies Urban Geology Automated Information System (UGAIS) Geological Survey of Canada | | | Horizontal Datum: Vertical Datum: Projection Name: | NAD27 Mean Average Sea Level Universal Transverse Mercator |
| 13 | 1 of 10 | S/247.0 | 99.6 / -3.31 | Strandherd Road Inc. 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | ECA |
| Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Address: Full Address: Full PDF Link: | 7146-9PNJXJ 2014-10-07 Revoked and/or Replaced ECA IDS Rideau Valley | | | MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: | Ottawa -75.77895 45.27079 |
| ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS 4123, 4225, 4337, 4433, and 4501 Strandherd Dr https://www.accessenvironment.ene.gov.on.ca/instruments/8421-9PMGPP-14.pdf | | | | | |
| 13 | 2 of 10 | S/247.0 | 99.6 / -3.31 | Strandherd Road Inc. 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Nortel Dr, Crosskey Place, Systemhouse St, Dealership St, Philsar st Ottawa ON K2C 0P9 | ECA |
| Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Address: Full Address: | 1671-9RXT6P 2014-12-19 Approved ECA IDS | | | MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: | |
| ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Nortel Dr, Crosskey Place, Systemhouse St, Dealership St, Philsar st | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------|---|---|------------------|---|-----------|
| Full PDF Link: | | https://www.accessenvironment.ene.gov.on.ca/instruments/7870-9PAJ8J-14.pdf | | | |
| 13 | 3 of 10 | S/247.0 | 99.6 / -3.31 | Strandherd Road Inc. 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | ECA |
| Approval No: | 9988-9SPJL7 | | | MOE District: | Ottawa |
| Approval Date: | 2015-01-14 | | | City: | |
| Status: | Approved | | | Longitude: | -75.77895 |
| Record Type: | ECA | | | Latitude: | 45.27079 |
| Link Source: | IDS | | | Geometry X: | |
| SWP Area Name: | Rideau Valley | | | Geometry Y: | |
| Approval Type: | ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS | | | | |
| Project Type: | MUNICIPAL AND PRIVATE SEWAGE WORKS | | | | |
| Address: | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr | | | | |
| Full Address: | | | | | |
| Full PDF Link: | https://www.accessenvironment.ene.gov.on.ca/instruments/4246-9PXRH5-14.pdf | | | | |
| 13 | 4 of 10 | S/247.0 | 99.6 / -3.31 | Strandherd Road Inc. 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | ECA |
| Approval No: | 3899-9SLPAP | | | MOE District: | Ottawa |
| Approval Date: | 2015-01-14 | | | City: | |
| Status: | Approved | | | Longitude: | -75.77895 |
| Record Type: | ECA | | | Latitude: | 45.27079 |
| Link Source: | IDS | | | Geometry X: | |
| SWP Area Name: | Rideau Valley | | | Geometry Y: | |
| Approval Type: | ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS | | | | |
| Project Type: | MUNICIPAL AND PRIVATE SEWAGE WORKS | | | | |
| Address: | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr | | | | |
| Full Address: | | | | | |
| Full PDF Link: | https://www.accessenvironment.ene.gov.on.ca/instruments/4016-9PXR7-14.pdf | | | | |
| 13 | 5 of 10 | S/247.0 | 99.6 / -3.31 | Strandherd Road Inc. 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0P9 | ECA |
| Approval No: | 3156-9SPPR3 | | | MOE District: | Ottawa |
| Approval Date: | 2015-01-14 | | | City: | |
| Status: | Revoked and/or Replaced | | | Longitude: | -75.77895 |
| Record Type: | ECA | | | Latitude: | 45.27079 |
| Link Source: | IDS | | | Geometry X: | |
| SWP Area Name: | Rideau Valley | | | Geometry Y: | |
| Approval Type: | ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS | | | | |
| Project Type: | MUNICIPAL AND PRIVATE SEWAGE WORKS | | | | |
| Address: | 4123, 4225, 4337, 4433, and 4501 Strandherd Dr | | | | |
| Full Address: | | | | | |
| Full PDF Link: | https://www.accessenvironment.ene.gov.on.ca/instruments/2089-9PVKCA-14.pdf | | | | |
| 13 | 6 of 10 | S/247.0 | 99.6 / -3.31 | Zena Investment Corporation 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Ottawa ON K2C 0A6 | ECA |
| Approval No: | 8156-9YNRQG | | | MOE District: | Ottawa |
| Approval Date: | 2015-07-23 | | | City: | |
| Status: | Revoked and/or Replaced | | | Longitude: | -75.77895 |
| Record Type: | ECA | | | Latitude: | 45.27079 |
| Link Source: | IDS | | | Geometry X: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|----------------------------|------------------|---|-----|
| SWP Area Name: Rideau Valley Geometry Y: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Address: 4123, 4225, 4337, 4433, and 4501 Strandherd Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8463-9WPP6T-14.pdf | | | | | |
| 13 | 7 of 10 | S/247.0 | 99.6 / -3.31 | Strandherd Road Inc. 4123, 4225, 4337, 4433, and 4501 Strandherd Dr 4175 Strandherd Drive for Sanitary and Storm Amendment Ottawa ON K2C 0P9 | ECA |
| Approval No: 3198-AY8KJJ MOE District: Ottawa Approval Date: 2018-05-22 City: Status: Approved Longitude: -75.77895 Record Type: ECA Latitude: 45.27079 Link Source: IDS Geometry X: SWP Area Name: Rideau Valley Geometry Y: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Address: 4123, 4225, 4337, 4433, and 4501 Strandherd Dr 4175 Strandherd Drive for Sanitary and Storm Amendment Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2489-AXSHE6-14.pdf | | | | | |
| 13 | 8 of 10 | S/247.0 | 99.6 / -3.31 | R.W. TOMLINSON LTD. 100 CITIGATE DRIVE OTTAWA ON K2J6K7 | GEN |
| Generator No: ON6160447 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: | | | | | |
| Detail(s) | | | | | |
| Waste Class: 241 H Waste Class Desc: Halogenated solvents and residues | | | | | |
| 13 | 9 of 10 | S/247.0 | 99.6 / -3.31 | R.W. TOMLINSON LTD. 100 CITIGATE DRIVE OTTAWA ON K2J6K7 | GEN |
| Generator No: ON6160447 PO Box No: Status: Registered Country: Canada Approval Years: As of Oct 2019 Choice of Contact: Contam. Facility: Co Admin: MHSW Facility: Phone No Admin: SIC Code: SIC Description: | | | | | |
| Detail(s) | | | | | |
| Waste Class: 241 H Waste Class Desc: Halogenated solvents and residues | | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|--------------------|--------------------------|--------------------------------|----------------------|---|-----------|
| 13 | 10 of 10 | S/247.0 | 99.6 / -3.31 | R. W. TOMLINSON LIMITED 100 CITIGATE DR NEPEAN ON K2J 6K7 | EASR |

| | | | |
|-----------------------|---|-----------------------|---------------|
| Approval No: | R-010-5111272760 | SWP Area Name: | Rideau Valley |
| Status: | REGISTERED | MOE District: | Ottawa |
| Date: | 2019-05-01 | Municipality: | NEPEAN |
| Record Type: | EASR | Latitude: | 45.27138889 |
| Link Source: | MOFA | Longitude: | -75.78805556 |
| Project Type: | Air Emissions | Geometry X: | |
| Full Address: | | Geometry Y: | |
| Approval Type: | EASR-Air Emissions | | |
| Full PDF Link: | http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2149097 | | |

Unplottable Summary

Total: **42** Unplottable sites

| DB | Company Name/Site Name | Address | City | Postal |
|-----|---|--------------------------------|----------------|--------|
| AGR | The Warren Paving & Materials Group Limited, a sub. of Lafarge Canada Inc. | Lot 21, Con IV RF | NEPEAN ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |
| CA | PUBLIC WORKS CANADA | FALLOWFIELD RD. | NEPEAN CITY ON | |
| CA | City of Ottawa | Strandherd Drive | Ottawa ON | |
| CA | DCR/Phoenix Development Corporation Limited and the National Capital Commission | | Ottawa ON | |
| CA | City of Ottawa | Strandherd Drive | Ottawa ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |
| CA | DCR/PHOENIX DEVELOPMENMT CORP. | STRANDHERD DRIVE | NEPEAN CITY ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |
| CA | TDL GROUP LIMITED | BLK. 114 FALLOWFIELD RD., SWM | NEPEAN ON | |
| CA | PETRO-CANADA PRODUCTS | FALLOWFIELD RD., BLK.113 (SWM) | NEPEAN CITY ON | |
| CA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | |

| | | | | |
|------|--|--|---|---------|
| CFOT | Bell Canada | Strandherd Dr, Nepean (Jockvale) ON | NEPEAN ON | |
| ECA | 1578051 Ontario Inc., Operating as Tartan Homes | | Ottawa ON | |
| ECA | City of Ottawa | Fourth Line Rd Lot 21, Concession 3 and 4, Geographic Township of North Gower | Ottawa ON | K2G 6J8 |
| ECA | DCR/Phoenix Development Corporation Limited | | Ottawa ON | K2E 6T8 |
| ECA | Strandherd Road Inc. | 4715 Strandherd Dr | Ottawa ON | K2C 0P9 |
| EHS | | Fallowfield Road | Ottawa (Former Township of Goulburn) ON | |
| EXP | SUPERIOR PROPANE INC | FALLOWFIELD RD | NEPEAN ON | |
| EXP | SUPERIOR PROPANE INC | FALLOWFIELD RD | OTTAWA ON | |
| EXP | SUPERIOR PROPANE ATTN WARREN HAYES | FALLOWFIELD RD PRT LOT 20 4 RF | OTTAWA ON | |
| PRT | SUPERIOR PROPANE | FALLOWFIELD RD | NEPEAN ON | |
| PRT | I C G PROPANE INC | FALLOWFIELD RD PRT LOT 20 4 RF | OTTAWA ON | |
| PTTW | 1578051 Ontario Inc. | Havencrest Development Lots 19 and 20, Concession 4, geographic township of Nepean City of Ottawa CITY OF OTTAWA | ON | |
| PTTW | Findlay Creek Properties Ltd. and 1374537 Ontario Ltd. | Lots 19, 20, Concession 4 and Lot 20, Concession 5, Ottawa | ON | |
| SPL | Geo. W. Drummond Excavating Inc<UNOFFICIAL> | Strandherd Dr and Temporary | Ottawa ON | |
| SPL | PRIVATE OWNER | GENERAL WELDING, FALLOWFIELD RD. STITTSVILLE STORAGE TANK/BARREL | OTTAWA CITY ON | |
| SPL | PUBLIC WORKS CANADA | AGRICULTURE CANADA FALLOWFIELD ROAD STORAGE TANK | NEPEAN CITY ON | |
| SPL | DEPARTMENT OF AGRICULTURE | ANIMAL DISEASE CONTROL CENTRE FALLOWFIELD ROAD | OTTAWA CITY ON | |
| WWIS | | lot 20 con 4 | ON | |
| WWIS | | lot 20 | ON | |
| WWIS | | lot 20 con 4 | ON | |
| WWIS | | | OTTAWA ON | |
| WWIS | | lot 20 con 4 | ON | |

| | | |
|------|--------|----|
| WWIS | lot 21 | ON |
| WWIS | lot 21 | ON |
| WWIS | lot 20 | ON |

Unplottable Report

Site: *The Warren Paving & Materials Group Limited, a sub. of Lafarge Canada Inc.
Lot 21, Con IV RF NEPEAN ON*

Database:
AGR

ID: 4051
OGF ID:
Current Status: Amended
Status Date: Up to March 2008
Effective Date: 10/26/2006 2:03:14 PM
Auth Type Desc: Aggregate Licence
Authority Type: CLASS A LICENCE > 20000 TONNES
Operation Type: Quarry
Max Annual Tonnage:
Max Tonnage:
Unlimited Tonnage:
Source Detail:
Effective Datetime:
System Datetime:
Refreshed Datetime:
Geometry Update Datetime:

Water Status:
Licenced Area (ha): 6.6
Extraction Area:
Location Name:
Location Accuracy:
Lower Tier Municipality: OTTAWA
Upper Tier Municipality: OTTAWA-CARLETON R
District: Kemptville District
District Name:
Section:
Shape Area:
Shape Len:

Site: *DCR/Phoenix Development Corporation Limited
Ottawa ON*

Database:
CA

Certificate #: 7851-8CTN4K
Application Year: 2011
Issue Date: 1/7/2011
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: *DCR/Phoenix Development Corporation Limited
Ottawa ON*

Database:
CA

Certificate #: 8716-69QKEM
Application Year: 2005
Issue Date: 2/18/2005
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: *DCR/Phoenix Development Corporation Limited*

Database:
CA

Ottawa ON

Certificate #: 6336-5ZSPY5
Application Year: 2004
Issue Date: 6/11/2004
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: **PUBLIC WORKS CANADA**
FALLOWFIELD RD. NEPEAN CITY ON

Database:
CA

Certificate #: 8-4023-88-
Application Year: 88
Issue Date: 9/12/1988
Approval Type: Industrial air
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: CHEMICAL STORAGE FAC.
Contaminants:
Emission Control:

Site: **City of Ottawa**
Strandherd Drive Ottawa ON

Database:
CA

Certificate #: 5791-77LJ85
Application Year: 2007
Issue Date: 10/2/2007
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **DCR/Phoenix Development Corporation Limited and the National Capital Commission**
Ottawa ON

Database:
CA

Certificate #: 1108-64ENJ3
Application Year: 2004
Issue Date: 10/7/2004
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: City of Ottawa
Strandherd Drive Ottawa ON

Database:
CA

Certificate #: 1254-73VKL4
Application Year: 2007
Issue Date: 6/17/2007
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: DCR/Phoenix Development Corporation Limited
Ottawa ON

Database:
CA

Certificate #: 2423-8BKMY7
Application Year: 2010
Issue Date: 12/13/2010
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: DCR/Phoenix Development Corporation Limited
Ottawa ON

Database:
CA

Certificate #: 2519-89BLNM
Application Year: 2010
Issue Date: 9/17/2010
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: DCR/Phoenix Development Corporation Limited
Ottawa ON

Database:
CA

Certificate #: 3694-6EQPPV
Application Year: 2005
Issue Date: 8/8/2005
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:

Site: *DCR/Phoenix Development Corporation Limited
Ottawa ON*

Database:
CA

Certificate #: 4027-78FLST
Application Year: 2007
Issue Date: 10/30/2007
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *DCR/PHOENIX DEVELOPMENTS CORP.
STRANDHERD DRIVE NEPEAN CITY ON*

Database:
CA

Certificate #: 3-1122-90-
Application Year: 90
Issue Date: 6/26/1990
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *DCR/Phoenix Development Corporation Limited
Ottawa ON*

Database:
CA

Certificate #: 5746-89AQZW
Application Year: 2010
Issue Date: 9/17/2010
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: *TDL GROUP LIMITED
BLK. 114 FALLOWFIELD RD., SWM NEPEAN ON*

Database:
CA

Certificate #: 3-0846-98-
Application Year: 98

Issue Date: 7/22/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **PETRO-CANADA PRODUCTS**
FALLOWFIELD RD., BLK.113 (SWM) NEPEAN CITY ON

Database:
CA

Certificate #: 3-1223-94-
Application Year: 94
Issue Date: 10/5/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **DCR/Phoenix Development Corporation Limited**
Ottawa ON

Database:
CA

Certificate #: 4370-7WBQGD
Application Year: 2009
Issue Date: 10/2/2009
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: **Bell Canada**
Strandherd Dr, Nepean (Jockvale) ON NEPEAN ON

Database:
CFOT

Licence No:
Registration No: 200204-1515
Posse File No:
Posse Reg No:
Tank Type:
Instance Number:
Facility Type:
Instance Type:
Status Name:
Fuel Type:
Distributor: Esso
Tank Material: Fiberglass reinforced plastic
Tank Age (as of 05/1992): 9 yrs
Tank Size: 5072 L

Letter Sent:
Corrosion Protection:
Province:
Nbr:
Contact Name: c/o Alain Naud
Contact Address: 3685 Aylmer - Bureau 200
Contact Address2:
Contact Suite:
Contact City: Montreal
Contact Prov: QC
Contact Postal: H2X 2C5
Tank Address: Strandherd Dr, Nepean (Jockvale) ON
Comments:

Site: 1578051 Ontario Inc., Operating as Tartan Homes
Ottawa ON

Database:
ECA

Approval No: 1573-98LNFS
Approval Date: 2013-06-24
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/9856-97AR27-14.pdf>

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

Site: City of Ottawa
Fourth Line Rd Lot 21, Concession 3 and 4, Geographic Township of North Gower Ottawa ON K2G 6J8

Database:
ECA

Approval No: 2323-BLGKVU
Approval Date: 2020-03-05
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: Fourth Line Rd Lot 21, Concession 3 and 4, Geographic Township of North Gower
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/0642-BEJMY-14.pdf>

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

Site: DCR/Phoenix Development Corporation Limited
Ottawa ON K2E 6T8

Database:
ECA

Approval No: 2423-8BKMY7
Approval Date: 2010-12-13
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/9905-8BAK88-14.pdf>

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

Site: Strandherd Road Inc.
4715 Strandherd Dr Ottawa ON K2C 0P9

Database:
ECA

Approval No: 3701-AM3KLF
Approval Date: 2017-05-11
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: 4715 Strandherd Dr
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/1810-ALDG46-14.pdf>

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

Site: Fallowfield Road Ottawa (Former Township of Goulburn) ON

Database:
EHS

Order No: 20060922004
Status: C
Report Type: Complete Report
Report Date: 9/25/2006
Date Received: 9/22/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: 0
Y: 0

Site: SUPERIOR PROPANE INC
FALLOWFIELD RD NEPEAN ON

Database:
EXP

Instance No: 9669823
Instance ID: 392708
Instance Type: FS Facility
Description: FS Propane Vehicle Conv Centre
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: SUPERIOR PROPANE INC
FALLOWFIELD RD OTTAWA ON

Database:
EXP

Instance No: 9558985
Instance ID: 390259
Instance Type: FS Facility
Description: Fuels Safety Propane Filling Plant > 5000 USW
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: SUPERIOR PROPANE ATTN WARREN HAYES
FALLOWFIELD RD PRT LOT 20 4 RF OTTAWA ON

Database:
EXP

Instance No: 9631753
Instance ID: 391550
Instance Type: FS Facility
Description: Fuels Safety Propane Filling Plant > 5000 USW
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: SUPERIOR PROPANE
FALLOWFIELD RD NEPEAN ON

Database:
PRT

Location ID: 9601
Type: private
Expiry Date: 1992-01-31
Capacity (L): 0.00
Licence #: 0038379001

Site: I C G PROPANE INC
FALLOWFIELD RD PRT LOT 20 4 RF OTTAWA ON

Database:
PRT

Location ID: 11051

Type: retail
Expiry Date: 1990-12-31
Capacity (L): 30000
Licence #: 0033255001

Site: 1578051 Ontario Inc.
Havencrest Development Lots 19 and 20, Concession 4, geographic township of Nepean City of Ottawa CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No: 012-4409
Ministry Ref No: 3640-9XLT22
Notice Type: Instrument Decision
Notice Stage:
Notice Date: September 02, 2015
Proposal Date: June 19, 2015
Year: 2015
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: 1578051 Ontario Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 237 Somerset Street West, Ottawa Ontario, Canada K2P 0J3
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Havencrest Development Lots 19 and 20, Concession 4, geographic township of Nepean City of Ottawa CITY OF OTTAWA

Site: Findlay Creek Properties Ltd. and 1374537 Ontario Ltd.
Lots 19, 20, Concession 4 and Lot 20, Concession 5, Ottawa ON

Database:
PTTW

EBR Registry No: IA06E1038
Ministry Ref No: 6114-6SQHA7
Notice Type: Instrument Final Decision
Notice Stage:
Notice Date: November 30, 2006
Proposal Date: August 17, 2006
Year: 2006
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Findlay Creek Properties Ltd. and 1374537 Ontario Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address:
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lots 19, 20, Concession 4 and Lot 20, Concession 5, Ottawa

Site: Geo. W. Drummond Excavating Inc<UNOFFICIAL>
Strandherd Dr and Temporary Ottawa ON

Database:
SPL

Ref No: 6067-6EASVT
Site No:
Incident Dt: 7/14/2005
Year:
Discharger Report: 0
Material Group: Oil
Health/Env Conseq:
Client Type:

| | | | |
|------------------------------|--|------------------------------|--|
| Incident Cause: | Overturn - Truck Or Trailer | 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: | Soil Contamination | Site Lot: | |
| Receiving Medium: | Land | Site Conc: | |
| Receiving Env: | | Northing: | |
| MOE Response: | | Easting: | |
| Dt MOE Arvl on Scn: | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 7/14/2005 | Site Map Datum: | |
| Dt Document Closed: | | SAC Action Class: | Spills to Highways (usually highway accidents) |
| Incident Reason: | | Source Type: | |
| Site Name: | Roadway<UNOFFICIAL> | | |
| Site County/District: | | | |
| Site Geo Ref Meth: | | | |
| Incident Summary: | Ottawa: MVA 300 L diesel to road, cleaning | | |
| Contaminant Qty: | unknown L | | |

Site: PRIVATE OWNER
GENERAL WELDING, FALLOWFIELD RD. STITTSVILLE STORAGE TANK/BARREL OTTAWA CITY ON **Database:** SPL

| | | | |
|------------------------------|--|------------------------------|-------|
| Ref No: | 213503 | Discharger Report: | |
| Site No: | | Material Group: | |
| Incident Dt: | 10/10/2001 | Health/Env Conseq: | |
| Year: | | Client Type: | |
| Incident Cause: | OTHER CONTAINER LEAK | Sector Type: | |
| Incident Event: | | Agency Involved: | |
| Contaminant Code: | | Nearest Watercourse: | |
| Contaminant Name: | | Site Address: | |
| Contaminant Limit 1: | | Site District Office: | |
| Contam Limit Freq 1: | | Site Postal Code: | |
| Contaminant UN No 1: | | Site Region: | |
| Environment Impact: | Possible | Site Municipality: | 20107 |
| Nature of Impact: | Soil contamination | Site Lot: | |
| Receiving Medium: | Land | Site Conc: | |
| Receiving Env: | | Northing: | |
| MOE Response: | | Easting: | |
| Dt MOE Arvl on Scn: | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 10/10/2001 | Site Map Datum: | |
| Dt Document Closed: | | SAC Action Class: | |
| Incident Reason: | OTHER | Source Type: | |
| Site Name: | | | |
| Site County/District: | | | |
| Site Geo Ref Meth: | | | |
| Incident Summary: | SPILL OF 2 -3 L FUEL OIL TO GROUND FROM TANK. CLEANED. | | |
| Contaminant Qty: | | | |

Site: PUBLIC WORKS CANADA
AGRICULTURE CANADA FALLOWFIELD ROAD STORAGE TANK NEPEAN CITY ON **Database:** SPL

| | | | |
|-----------------------------|-----------------------|------------------------------|-------|
| Ref No: | 79801 | Discharger Report: | |
| Site No: | | Material Group: | |
| Incident Dt: | // | Health/Env Conseq: | |
| Year: | | Client Type: | |
| Incident Cause: | UNDERGROUND TANK LEAK | Sector Type: | |
| Incident Event: | | Agency Involved: | |
| Contaminant Code: | | Nearest Watercourse: | |
| Contaminant Name: | | Site Address: | |
| Contaminant Limit 1: | | Site District Office: | |
| Contam Limit Freq 1: | | Site Postal Code: | |
| Contaminant UN No 1: | | Site Region: | |
| Environment Impact: | CONFIRMED | Site Municipality: | 20104 |
| Nature of Impact: | Soil contamination | Site Lot: | |

Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 12/11/1992
Dt Document Closed:
Incident Reason: CORROSION
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

AGRICULTURE CANADA - SOIL CONTAMINATION DUE TO UNDERGROUND TANKS

Site: DEPARTMENT OF AGRICULTURE
ANIMAL DISEASE CONTROL CENTRE FALLOWFIELD ROAD OTTAWA CITY ON

Database:
SPL

Ref No: 44068
Site No:
Incident Dt: 11/26/1990
Year:
Incident Cause: UNDERGROUND TANK LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/29/1990
Dt Document Closed:
Incident Reason: CORROSION
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting: ENVIRONMENT CANADA
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

DEPARTMENT OF AGRICULTURE-UNDERGROUND FURNACE OIL TANK LEAKING.

Site: lot 20 con 4 ON

Database:
WWIS

Well ID: 1521188
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 07417
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: 2/18/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 3142
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession: 04
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043024
DP2BR: 23
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 1/17/1987
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931047127
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Other Materials: PACKED
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 8
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931047130
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 23
Formation End Depth: 78
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931047129
Layer: 3
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 16
Formation End Depth: 23

Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931047128
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 8
Formation End Depth: 16
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

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

Pipe Information

Pipe ID: 10591594
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075103
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 24
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930075104
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 78
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521188
Pump Set At:
Static Level: 4
Final Level After Pumping: 18
Recommended Pump Depth: 50

Pumping Rate: 40
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: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934908364
Test Type:
Test Duration: 60
Test Level: 18
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651135
Test Type:
Test Duration: 45
Test Level: 18
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105888
Test Type:
Test Duration: 15
Test Level: 18
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389007
Test Type:
Test Duration: 30
Test Level: 18
Test Level UOM: ft

Water Details

Water ID: 933478675
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 76
Water Found Depth UOM: ft

Water Details

Water ID: 933478674
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40
Water Found Depth UOM: ft

Site: lot 20 ON

Database:
WWIS

Well ID: 1536291
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z34337
Tag: A035919
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: 4/13/2006
Selected Flag: Yes
Abandonment Rec:
Contractor: 7241
Form Version: 3
Owner:
Street Name: HERON 1670
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot: 020
Concession:
Concession Name: JG
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11550357
DP2BR:
Spatial Status:
Code OB: 0
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 3/2/2006
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 933053125
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 84
Other Materials: SILTY
Mat3: 81
Other Materials: SANDY
Formation Top Depth: 0
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment

Sealing Record

Plug ID: 933293034
Layer: 2
Plug From: 0.3
Plug To: 2.74
Plug Depth UOM: m

Annular Space/Abandonment

Sealing Record

Plug ID: 933293035
Layer: 3
Plug From: 2.74
Plug To: 4.57
Plug Depth UOM: m

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933293033
Layer: 1
Plug From: 0
Plug To: 0.3
Plug Depth UOM: m

**Method of Construction & Well
Use**

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

Pipe Information

Pipe ID: 11559964
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930878918
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 3.1
Casing Diameter: 3.175
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933418297
Layer: 1
Slot:
Screen Top Depth:
Screen End Depth: 4.57
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Site: lot 20 con 4 ON

Database:
WWIS

Well ID: 1536188
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:

Data Entry Status:
Data Src:
Date Received: 1/17/2006
Selected Flag: Yes
Abandonment Rec:
Contractor: 6907

Casing Material:
Audit No: Z17661
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:

Form Version: 3
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession: 04
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11550254
DP2BR:
Spatial Status:
Code OB: u
Code OB Desc: all layers are unknown type
Open Hole:
Cluster Kind:
Date Completed: 12/22/2005
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 933043020
Layer: 1
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 80
Formation End Depth UOM: ft

Method of Construction & Well
Use

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

Pipe Information

Pipe ID: 11559861
Casing No: 1
Comment:
Alt Name:

Results of Well Yield Testing

Pump Test ID: 11569337
Pump Set At: 75
Static Level: 12
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:

Site:
OTTAWA ON

Database:
WWIS

Well ID: 1535676
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: Z33652
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: 8/4/2005
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 6894
Form Version: 3
Owner:
Street Name: FALLOWFIELD RD
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11316215
DP2BR:
Spatial Status:
Code OB:
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 6/8/2005
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC:
UTMRC Desc:
Location Method: na

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933273995
Layer: 1
Plug From: 14
Plug To: 1.9
Plug Depth UOM: m

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933273996
Layer: 2
Plug From: 1.9
Plug To: 0
Plug Depth UOM: m

Pipe Information

Pipe ID: 11331070
Casing No: 1
Comment:
Alt Name:

Hole Diameter

Hole ID: 11533760
Diameter: 20
Depth From: 0
Depth To: 18
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11533761
Diameter: 6
Depth From: 0
Depth To: 7
Hole Depth UOM: m
Hole Diameter UOM: cm

Site: lot 20 con 4 ON

Database:
WWIS

Well ID: 1534313
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Abandoned-Quality
Water Type:
Casing Material:
Audit No: 267002
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: 11/13/2003
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 2
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession: 04
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11097363
DP2BR:
Spatial Status:
Code OB: -

Elevation:
Elevrc:
Zone: 18
East83:

Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 9/18/2003
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

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101078
Casing No: 1
Comment:
Alt Name:

Site: lot 21 ON

Database:
WWIS

Well ID: 1519738
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/24/1985
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 021
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10041591
DP2BR: 112
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/3/1985
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Supplier Comment:

**Overburden and Bedrock
Materials Interval**

Formation ID: 931042559
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 88
Formation End Depth: 112
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931042558
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 88
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931042560
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 112
Formation End Depth: 165
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

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

Pipe Information

Pipe ID: 10590161
Casing No: 1
Comment:

Alt Name:

Construction Record - Casing

Casing ID: 930072629
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 113
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930072630
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 165
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991519738
Pump Set At:
Static Level:
Final Level After Pumping: 30
Recommended Pump Depth: 30
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 6
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: N

Draw Down & Recovery

Pump Test Detail ID: 934384356
Test Type:
Test Duration: 30
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934894680
Test Type:
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934108646
Test Type:

Test Duration: 15
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934654896
Test Type:
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933476796
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 140
Water Found Depth UOM: ft

Water Details

Water ID: 933476797
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 160
Water Found Depth UOM: ft

Site: lot 21 ON

Database:
WWIS

Well ID: 1519741
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/3/1985
Selected Flag: Yes
Abandonment Rec:
Contractor: 3142
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 021
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10041594
DP2BR: 81
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 5/16/1985
Remarks:
Elevrc Desc:

Elevation:
Elevrc: 18
Zone:
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

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

Overburden and Bedrock
Materials Interval

Formation ID: 931042569
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 13
Other Materials: BOULDERS
Formation Top Depth: 65
Formation End Depth: 81
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931042568
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 77
Other Materials: LOOSE
Mat3:
Other Materials:
Formation Top Depth: 16
Formation End Depth: 65
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931042570
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 81
Formation End Depth: 84
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931042567
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY

Mat2: 79
Other Materials: PACKED
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 16
Formation End Depth UOM: ft

Method of Construction & Well Use

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

Pipe Information

Pipe ID: 10590164
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930072633
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 86
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930072634
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: 991519741
Pump Set At:
Static Level: 0
Final Level After Pumping: 0
Recommended Pump Depth: 30
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 8
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934654899
Test Type:
Test Duration: 45
Test Level: 0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934108649
Test Type:
Test Duration: 15
Test Level: 0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934894683
Test Type:
Test Duration: 60
Test Level: 0
Test Level UOM: ft

Water Details

Water ID: 933476800
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 84
Water Found Depth UOM: ft

Site: lot 20 ON

Database:
WWIS

Well ID: 1527942
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: 139317
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: 6/9/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 3142
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049484
DP2BR: 16
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:

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

Cluster Kind:
Date Completed: 6/3/1994
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: 931068041
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 16
Formation End Depth: 70
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068042
Layer: 3
Color: 8
General Color: BLACK
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 70
Formation End Depth: 97
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068040
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3: 79
Other Materials: PACKED
Formation Top Depth: 0
Formation End Depth: 16
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933112804
Layer: 1

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

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 10598054
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086443
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 97
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930086442
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991527942
Pump Set At:
Static Level: 4
Final Level After Pumping: 60
Recommended Pump Depth: 80
Pumping Rate: 25
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: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934111811

Test Type:
Test Duration: 15
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934904319
Test Type:
Test Duration: 60
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934655949
Test Type:
Test Duration: 45
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934386620
Test Type:
Test Duration: 30
Test Level: 60
Test Level UOM: ft

Water Details

Water ID: 933487483
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 93
Water Found Depth UOM: ft

Water Details

Water ID: 933487482
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 84
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 2019

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-Jan 31, 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 2017

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Chemical Register:

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

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 - Feb 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 2019

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-Feb 29, 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 2019

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-Mar 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-Feb 29, 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-Mar 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-Jan 31, 2020

Environmental Issues Inventory System:

Federal [EIS](#)

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 EIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial [EMHE](#)

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial [EPAR](#)

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2018

List of Expired Fuels Safety Facilities:

Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal FCS

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

Government Publication Date: Jun 2000-Nov 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal FED TANKS

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

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 2018

Fuel Storage Tank:

Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

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-Jan 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 2017

TSSA Historic Incidents:

Provincial

HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

INC

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

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as 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 will 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-Dec 31, 2019

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-Feb 29, 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 2019

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-Feb 29, 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: 1988 - Mar 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: Feb 28, 2017

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-Feb 29, 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 clean-up orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Jan 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-Jan 31, 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

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-Aug 2019

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 2018

Variances for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

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

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

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-Mar 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 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: Feb 28, 2019

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

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University
M.A.Sc., Environmental Engineering, 2013
B.Eng., Environmental Engineering, 2008

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT)
NSERC Industry R&D Scholarship

EXPERIENCE

2018 – Present

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2014 – 2015

Thurber Engineering Limited

Oil Sand Tailings Group
Tailings Engineer

2009 – 2014

Carleton University

Department of Civil & Environmental Engineering
Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009

SLR Consulting Limited

Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston
Remediation – National Capital Region, Saskatchewan
Multi-lift and dry-stacking pilot programs – Northern Alberta
Polymer amended oil sand tailings – Northern Alberta
Hydraulic cut-off wall – Allen, Saskatchewan
Cemented paste backfill systems – Northern Ontario

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