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Phase I Environmental Site Assessment

8555 Campeau Drive
Ottawa, Ontario

Prepared For

Blevins Developments Ltd.

April 21, 2020

Report: PE4900-1

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Mr. Jim Dodd of Reid's Heritage Homes to conduct a Phase I environmental site assessment (Phase I ESA) for the proposed commercial development at 8555 Campeau Drive, at the intersection of Huntmar Drive and Highway 417, in Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and identify any environmental concerns that have potentially impacted the Phase I property.

According to the historical research, the site was historically used for agricultural purposes since prior to 1945. No PCAs were identified with respect to the use of the Phase I property.

The properties in the study area have, in general, been used historically for residential and agricultural purposes. No current and/or historical PCAs were identified on the Phase I property.

Following the historical review, Paterson conducted a site visit to assess the current environmental conditions of the site. The Phase I property is currently undeveloped. No PCAs were identified on-site at the time of the site visit.

The properties in the study area are generally used for commercial purposes or are undeveloped. Two PCAs (car dealerships with associated service centres) were identified within the study area; however, these are not considered to have resulted in APECs on-site.

Conclusion

Based on the results of the assessment, in our opinion, **a Phase II Environmental Site Assessment is not required for the property.**

1.0 INTRODUCTION

At the request of Blevins Developments Ltd. (Blevins), Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for the proposed commercial development at 8555 Campeau Drive, at the intersection of Huntmar Drive and Highway 417 in Ottawa, Ontario, herein referred to as the "Phase I property" or "site." The purpose of this Phase I ESA was to research the former and current use of the Phase I property and study area to identify any environmental concerns with the potential to have impacted the Phase I property.

Paterson was retained by Mr. Jim Dodd of Reid's Heritage Homes (6783 Wellington Road 34, RR#22, Cambridge, ON, Tel: 519-240-3908).

This Phase I ESA report has been prepared specifically and solely for the above-noted project, described herein, and contains the findings and assessment of the environmental conditions at this site.

This report has been prepared in general accordance with Ontario Regulation 153/04, as amended under the Environmental Protection Act, and complies with the requirements of CSA Z768-01. The conclusions presented in this Phase I ESA report are based on information gathered from a limited historical review and field assessment program. The findings of the Phase I ESA are based on a review of readily available geological, historical, and regulatory information, as well as a cursory review made at the time of the field inspection. 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:	8555 Campeau Drive, Ottawa, Ontario
Legal Description:	Block 2, Plan 4M-1554, Part of Lot 3, Concession 1, Geographic Township of Huntley in the City of Ottawa
PIN:	04508-0103
Location:	The Phase I property is located northwest of the intersection of Huntmar Drive and Highway 417 in Ottawa, Ontario. Refer to Figure 1 – Key Plan for the site location.
Latitude and Longitude:	45°17'49.5"N, 75°56'2.7"W

Site Description:

Configuration:	Irregular
Site Area:	3.24 hectares
Zoning:	MC H(45) – Mixed Use Centre Zone
Current Use:	The site is currently undeveloped.
Services:	The site is located in an area that is undergoing development, all of which is municipally serviced.

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 Phase I property 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 Phase I property and study area by conducting site reconnaissance.
- Conduct interviews with persons knowledgeable of current and historic operations on the Phase I 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; and
- Provide preliminary remediation recommendations and/or recommend 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 ESA study area for this assignment. Properties located outside the 250 m radius are not considered to have impacted the Phase I property, based on their significant distance away from the site.

First Developed Use Determination

Based on a review of available historical information, the Phase I property has been used for residential (farmstead) and agricultural purposes since prior to 1945, but is currently vacant.

Fire Insurance Plans

Fire Insurance Plans (FIPs) are not available for the area of the Phase I property.

City of Ottawa Street Directories

Municipal directories are not available for the Phase I study area.

Chain of Title

Paterson did not request a Chain of Title for the site as it was determined that sufficient information was gathered from other sources, and a title search would not contribute to obtaining information about the environmental condition of the Phase I property.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted as part of the Environmental Risk Information Services (ERIS) search, dated March 24, 2020. The Phase I property was not listed in the NPRI database. No records were identified for properties within the study area. Please refer to the ERIS report provided in Appendix 2.

PCB Inventory

A search of national PCB waste storage sites was conducted. The Phase I property is not registered as a PCB waste storage site. No PCB waste storage sites are present within the Phase I study area. Please refer to the ERIS report provided in Appendix 2.

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

Based on the ERIS report, dated March 24, 2020, there are several certificates of approval (CAs) and environmental compliance approvals (ECAs) for properties within in the Phase I study area related to approval for industrial, municipal, and private water/sewage works. The report did not identify any certificates of property use or any other similar MECP issued instruments for properties within the Phase I study area. A copy of the ERIS report is provided in Appendix 2.

MECP Submissions

Based on the ERIS report, dated March 24, 2020, there is a permit for activities with environmental conditions related to construction dewatering in the vicinity of the adjacent commercial shopping area. No other permits were noted for properties within the Phase I study area. A copy of the ERIS report is provided in Appendix 2.

MECP Incident Reports

The ERIS report identified 2 historical spills or incidents in the study area, which, given their nature and locations, are not considered to pose an environmental risk to the Phase I property. A copy of the ERIS report is provided in Appendix 2.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry (ESR) was conducted electronically in April 2020. No Record of Site Conditions (RSC) were identified related to the Phase I property. Please refer to the ERIS report provided in Appendix 2.

MECP Waste Management Records

Based on the ERIS report, dated March 24, 2020, there are no waste management records for the Phase I property or within the study area. Please refer to the ERIS report provided in Appendix 2.

MECP Waste Disposal Site Inventory

The Ministry of the Environment, Conservation and Parks 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 current or former waste disposal sites in the Phase I study area.

MECP Coal Gasification Plant Inventory

The Ministry of the Environment, Conservation and Parks document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No municipal coal gasification plant sites are located within the Phase I study area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted electronically via the Ministry of Natural Resources and Forestry (MNR) website. No areas of natural significance were identified within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

In lieu of contacting the TSSA, Fuels Safety Branch in Toronto, Paterson obtained an ERIS report, which provided information regarding current and former underground storage tanks, spills, and incidents for the site and adjacent properties. According to the ERIS report dated March 24, 2020, no TSSA tank records were identified for properties in the Phase I study area. Two records of incidents/spills were identified, as noted previously. Based on their nature and location relative to the site, these are not considered to pose an environmental risk to the Phase I property. A copy of the ERIS report is provided 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. The report did not identify any closed landfill sites within the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

A request for information from the City's Historical Land Use Inventory (HLUI) database for the Phase I property will be submitted to the City of Ottawa. However,

submission has been delayed due to the current novel coronavirus situation in Ottawa. A copy of the response will be forwarded to the client, should it contain any pertinent information.

Environmental Risk Information Services (ERIS)

As referenced previously, Paterson obtained a standard ERIS database report, dated March 24, 2020, which provides environmental information for the Phase I property and properties within the 250 m study area. ERIS provides information from all federal and provincial databases, as well as private databases. No other records, in addition to those previously discussed, were considered to represent PCAs within the Phase I study area. A copy of the ERIS report is available in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library and the City of Ottawa's geoOttawa website were reviewed in approximate ten-year intervals, commencing with the earliest available photograph. Based on the review, the following observations have been made:

- 1945 The Phase I property is occupied by a farm, including various buildings and agricultural land. Surrounding properties are also agricultural fields. Feedmill Creek, a tributary of the Carp River, runs along the northern boundary of the site. Huntmar Drive is visible to the east.
- 1959 No significant changes have been made to the site or study area.
- 1976 The on-site buildings are not visible in this photo (likely due to colour quality). No other significant changes have been made to the site or study area.
- 1988 The on-site buildings are visible. Highway 417 has been constructed to the south of the Phase I property. No other significant changes have been made to the site or study area.
- 1999 (*geoOttawa*) The on-site buildings have been removed. A highway interchange has been constructed in the vicinity of the site. Some commercial development has begun in the study area.

- 2011 (*geoOttawa*) The study area is fully developed south of the 417. No significant changes have been made to the site or study area north of the 417.
- 2017 (*geoOttawa*) The commercial shopping centre is present north of the site. No other significant changes have been made.

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

Water Bodies

Feedmill Creek, a tributary of the Carp River (which is located approximately 875 m northeast of the site) runs along the northern boundary of the site. A drainage ditch borders the site to the east and south and a stormwater management pond is located approximately 95 m north of the Phase I property. South of Highway 417, a stormwater management pond is present associated with Palladium Auto Park.

Topographic Maps

Topographic information was obtained from the Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the Phase I property is approximately 101 m above sea level. The regional topography in the vicinity of the site slopes to the northeast toward the Carp River, located approximately 875 m northeast of the site. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

Physiographic information was reviewed from the Natural Resources Canada – The Atlas of Canada website. According to Natural Resources Canada (NRCan), the Phase I property is situated within the St. Lawrence Lowlands. According to the 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 specifically located within the Central St. Lawrence Lowland area, which is rarely more 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. Based on the information from NRCan, the bedrock at the site consists of interbedded limestone and shale of the Verulam Formation,

whereas the surficial geology in the vicinity of the Phase I property is described as offshore marine sediments comprised of clay and silt. The overburden thickness ranges from 10 to 25 m.

MECP Water Well Records

A search of the MECP's website for all drilled well records within 250 m of the Phase I property was conducted as part of this assessment. The search identified 3 well records within the Phase I study area, though none of these were situated on the Phase I property. One was related to the abandonment of a potable water well (no water), and 2 whose primary purpose was to water livestock. Please note that 1 of these agricultural well records was also returned in the ERIS report. Copies of the well records are provided in Appendix 2.

5.0 INTERVIEWS

Mr. Eric Topolnisky, Regional Director of RioCan, who has been involved with the site since 2014, was interviewed via email in April 2020. To his knowledge, the Phase I property has never been developed and there are no known environmental concerns associated with the site or adjacent properties.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on April 14, 2020, by Ms. Kelly Martinell of Paterson Group. This site visit included inspection of accessible areas of the site. The weather at the time was a mix of sun and cloud with a temperature of 3°C. The adjacent properties and properties within the study area were also assessed.

6.2 Specific Observations at Phase I Property

Site Features

The site is undeveloped and generally at a similar elevation to Highway 417, immediately to the south. The ground surface is uneven and groundcover includes long grasses and trees, with some gravelled areas. There is a steep embankment along the northern property boundary, which leads to the creek that runs through the adjacent property. A shallow drainage ditch runs along the eastern property boundary and part of the southern property boundary as well. The Phase I property is accessible by an access road from the retail outlet mall to the north.

The regional topography generally slopes to the northeast toward the Carp River. Groundwater flow is expected to be generally in this direction, although local flow is likely influenced by the adjacent creek. Water drainage on the Phase I property occurs primarily via infiltration, though some overland flow to the ditches and toward the creek are anticipated. Site features are depicted on Drawing PE4900-1 Site Plan in the Figures section of this report.

Buildings and Structures

Concrete foundations from the former on-site buildings were observed on the Phase I property during the site visit. Remnants of livestock fencing were also observed. A permanent Tanger Outlets sign, visible from Highway 417, was present near the southern property boundary, accessible from the nearby outlet mall by a gravel road.

Underground Utilities

The Phase I property is not currently serviced; however, an underground conduit runs electricity to the Tanger Outlets sign, centrally located along the southern property boundary. Properties in the area are serviced by municipal water and sewer services. Future development of the site will include water and sewer services supplied by the City of Ottawa and electric and communication lines are anticipated to be underground, given nearby developments.

Fuel and Chemical Storage

No bulk chemical storage areas, aboveground storage tanks (ASTs), or evidence of underground storage tanks (USTs) were observed on-site or on nearby properties during the site visit.

Wastewater Discharge

The Phase I property is currently undeveloped. No sheen or odour were observed on standing water on-site or on the water of Feedmill Creek.

Waste Management

No wastes are currently produced on the Phase I property. No concerns were identified with regard to waste management on adjacent properties during the site visit.

Hazardous Building Materials

There are currently no buildings on-site, although some remnant concrete foundations are present. No concerns were identified with respect to the buildings immediately adjacent to the site.

Potable Wells

No potable wells were observed on-site or on the surrounding properties. The study area is generally municipally serviced.

Monitoring Wells

No monitoring wells were observed on-site during the site visit.

Neighbouring Properties

An inspection of the adjacent properties was conducted from the Phase I property and publicly accessible roadways. The observed adjacent land use is as follows:

- North – Feedmill Creek, followed by commercial
- West – Highway 417/Palladium Drive interchange;
- East – Huntmar Drive, followed by undeveloped;
- South – Highway 417, followed by commercial.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the Phase I property. Two PCAs (car dealerships with associated service centres) were identified within the Phase I study area; however, are not considered to have resulted in APECs on the Phase I property. Current land use within the Phase I Study Area is illustrated on Drawing PE4900-2 – Surrounding Land Use Plan in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on a review of available historical information, the Phase I property has never been formally developed.

Potentially Contaminating Activities (PCAs)

Based on Paterson's assessment, no PCAs have been identified on the Phase I property. Two PCAs have been identified within the study area; these are two car dealerships with associated service centres, located in the Palladium Auto Park,

south of Highway 417. These do not pose an environmental concern to the Phase I property.

Areas of Potential Environmental Concern (APECs)

No APECs were identified on the Phase I property.

Contaminants of Potential Concern (CPCs)

No CPCs were identified on the Phase I property.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on information from the Geological Survey of Canada, the Phase I property is located in an area of limestone and shale bedrock, with an overburden consisting of clay and silt, ranging from 10 to 25 m in thickness. Groundwater is anticipated to flow northeast toward the Carp River. Local groundwater flow is expected to be to the north or north-northeast, given the tributary running along the northern property boundary.

Water Bodies

As noted above, Feedmill Creek runs along the northern boundary of the site. It flows to the northeast toward the Carp River.

Existing Buildings and Structures

Concrete foundations from the former on-site buildings were observed on the Phase I property during the site visit. A permanent Tanger Outlets sign is present near the southern property boundary. There are no other buildings or structures on the Phase I property.

Areas of Natural Significance

No areas of natural significance were identified on-site or within the Phase I study area.

Potable Wells

The Phase I property is located within a municipally serviced area. No active MECP potable water well records were identified within the study area.

Neighbouring Land Use

Land use within the Phase I study area consists of primarily commercial properties as well as some undeveloped land.

Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs)

No PCAs were identified on the Phase I property. Two PCAs were identified within the Phase I study area; however, these are not considered to have resulted in APECs on-site.

Contaminants of Potential Concern (CPCs)

As noted in Section 7.1, no CPCs were identified on the Phase I property.

Assessment of Uncertainty and/or Absence of Information

There were no material deviations to the Phase I ESA requirements set out in O.Reg. 153/04 that would cause uncertainty or absence of information affecting the validity of the findings of the Phase I ESA or this Phase I CSM. Although receipt of municipal historical land use information from the City of Ottawa has been delayed due to the current situation surrounding the novel coronavirus, it is the opinion of the Qualified Person (QP_{ESA}), that based on the information obtained and reviewed as part of this Phase I ESA, there are no APECs on the Phase I property.

8.0 CONCLUSIONS

8.1 Assessment

Paterson Group was retained by Mr. Jim Dodd of Reid's Heritage Homes to conduct a Phase I environmental site assessment (Phase I ESA) for the proposed commercial development at 8555 Campeau Drive, at the intersection of Huntmar Drive and Highway 417, in Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and identify any environmental concerns that have potentially impacted the Phase I property.

According to the historical research, the site was historically used for agricultural purposes since prior to 1945. No PCAs were identified with respect to the use of the Phase I property.

The properties in the study area have, in general, been used historically for residential and agricultural purposes. No current and/or historical PCAs were identified on the Phase I property.

Following the historical review, Paterson conducted a site visit to assess the current environmental conditions of the site. The Phase I property is currently undeveloped. No PCAs were identified on-site at the time of the site visit.

The properties in the study area are generally used for commercial purposes or are undeveloped. Two PCAs (car dealerships with associated service centres) were identified within the study area; however, these are not considered to have resulted in APECs on-site.

Based on the results of this 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 as well as a cursory review made at the time of the field inspection. 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 Phase I property 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 Blevins Developments Ltd. Permission and notification from Blevins Developments Ltd. and Paterson Group will be required to release this report to any other party.

Paterson Group Inc.

K. Martinell

Kelly Martinell, P.Eng



Mark S. D'Arcy, P.Eng., QP_{ESA}



Report Distribution:

- Blevins Developments Ltd.
- Paterson Group Inc.

10.0 REFERENCES

Federal Records

- Natural Resources Canada: Air Photo Library.
- Natural Resources Canada: The Atlas of Canada.
- Geological Survey of Canada: Surficial and Subsurface Mapping.
- Environment Canada: National Pollutant Release Inventory.
- National PCB Waste Storage Site Inventory.
- National Archives of Canada.

Provincial Records

- MECP: Freedom of Information and Privacy Office.
- MECP: Municipal Coal Gasification Plant Site Inventory, 1991.
- MECP: Waste Disposal Site Inventory, 1991.
- MECP: Brownfields Environmental Site Registry.
- MECP: Water Well Inventory.
- Office of Technical Standards and Safety Authority, Fuels Safety Branch.
- Ministry of Natural Resources and Forestry Areas of Natural Significance.
- Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

Municipal Records

- The City of Ottawa: eMap website.
- The City of Ottawa: Historical Land Use Inventory Database
- The City of Ottawa: document entitled, "Old Landfill Management Strategy, Phase I – Identification of Sites", prepared by Golder Associates, 2004.

Local Information Sources

- Personal Interviews.

Public Information Sources

- Google Earth.
- Google Maps/Street View.

Other Sources

- Environmental Risk Information Services (ERIS) Report

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4900-1 – SITE PLAN

DRAWING PE4900-2 – SURROUNDING LAND USE PLAN

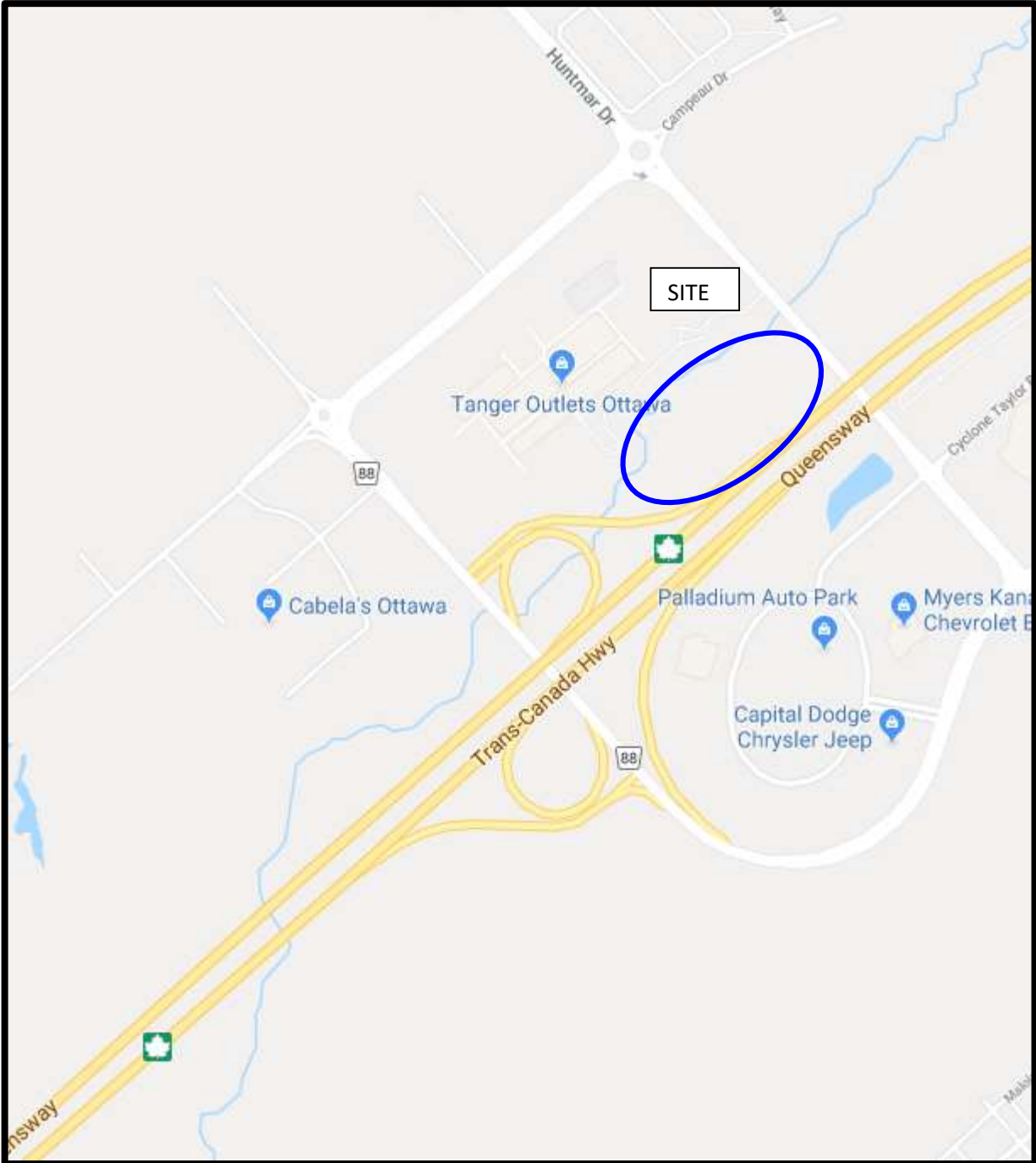


FIGURE 1
KEY PLAN

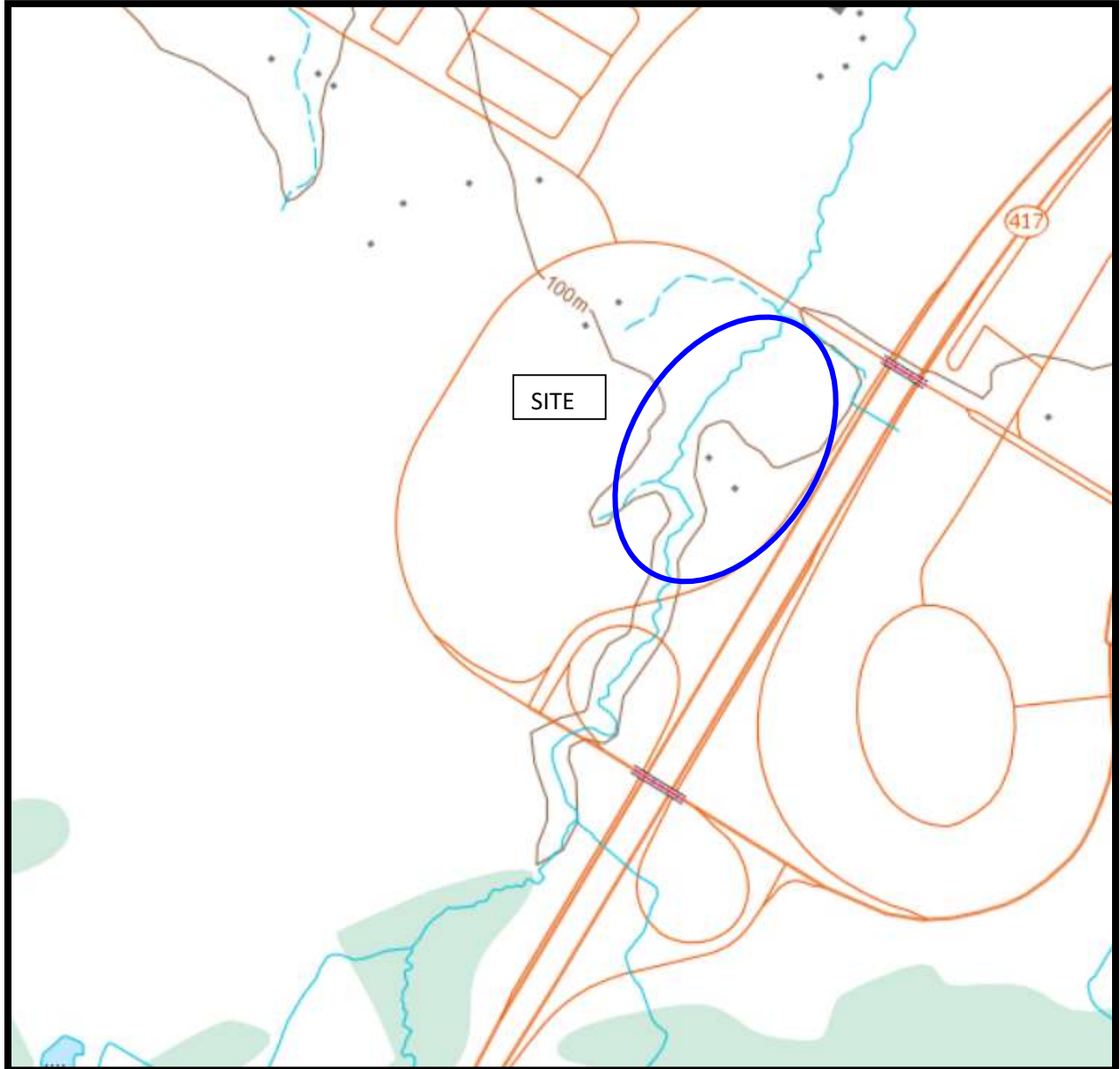
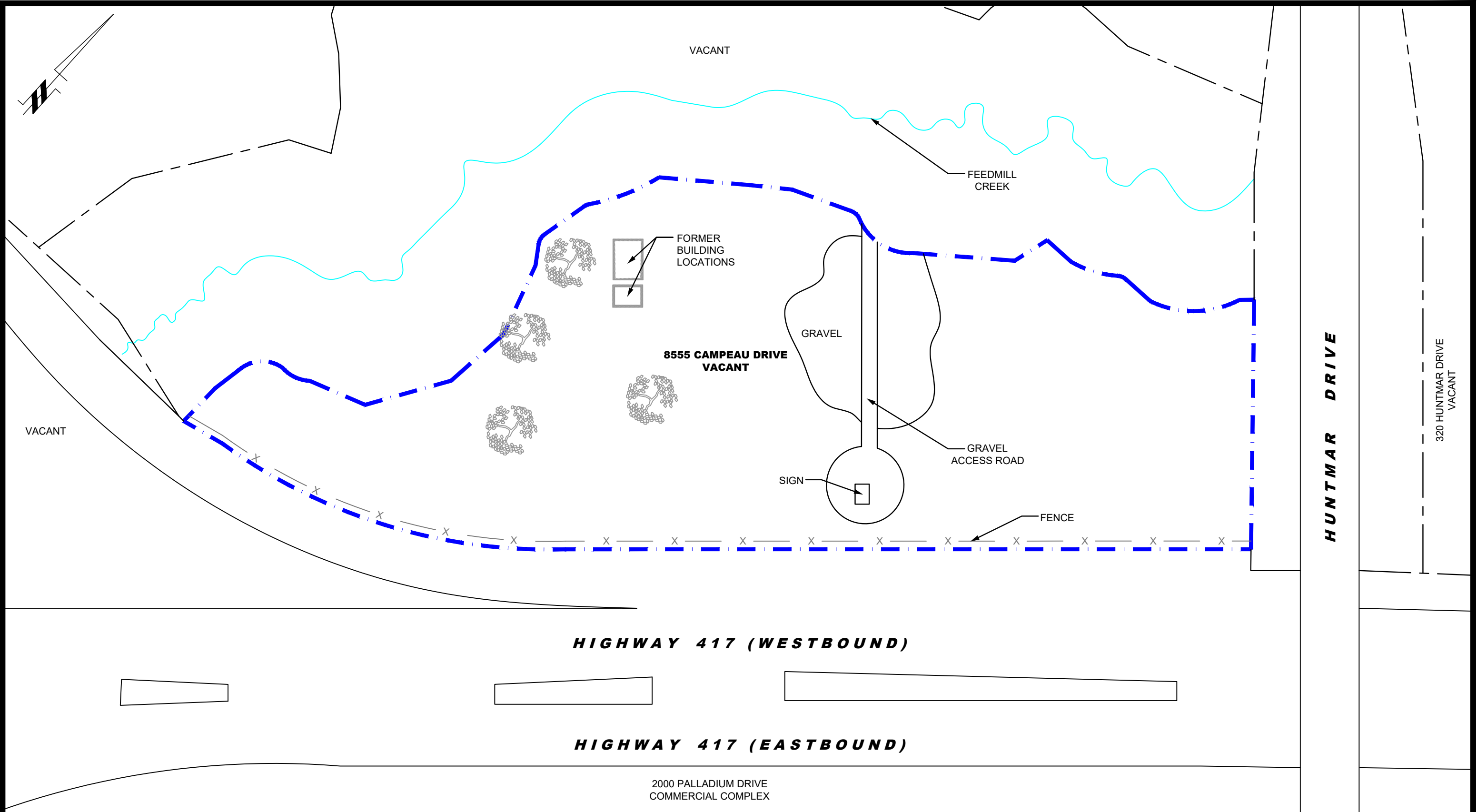


FIGURE 2
TOPOGRAPHIC MAP



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NO.	REVISIONS	DATE	INITIAL

BLEVINS
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
8555 CAMPEAU DRIVE
OTTAWA, ONTARIO
Title: **SITE PLAN**

Scale: 1:1250
Drawn by: YA
Checked by: KAM
Approved by: MSD

Date: 04/2020
Report No.: PE4900-1
Dwg. No.: **PE4900-1**
Revision No.:



- POTENTIALLY CONTAMINATING ACTIVITIES:**
- 1) #600-2500 PALLADIUM DRIVE- KANATA TOYOTA (DEALERSHIP AND SERVICE CENTRE)
 - 2) #800-2500 PALLADIUM DRIVE- KANATA HONDA (DEALERSHIP AND SERVICE CENTRE)

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NO.	REVISIONS	DATE	INITIAL

BLEVINS
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
8555 CAMPEAU DRIVE

OTTAWA, ONTARIO

Title: **SURROUNDING LAND USE PLAN**

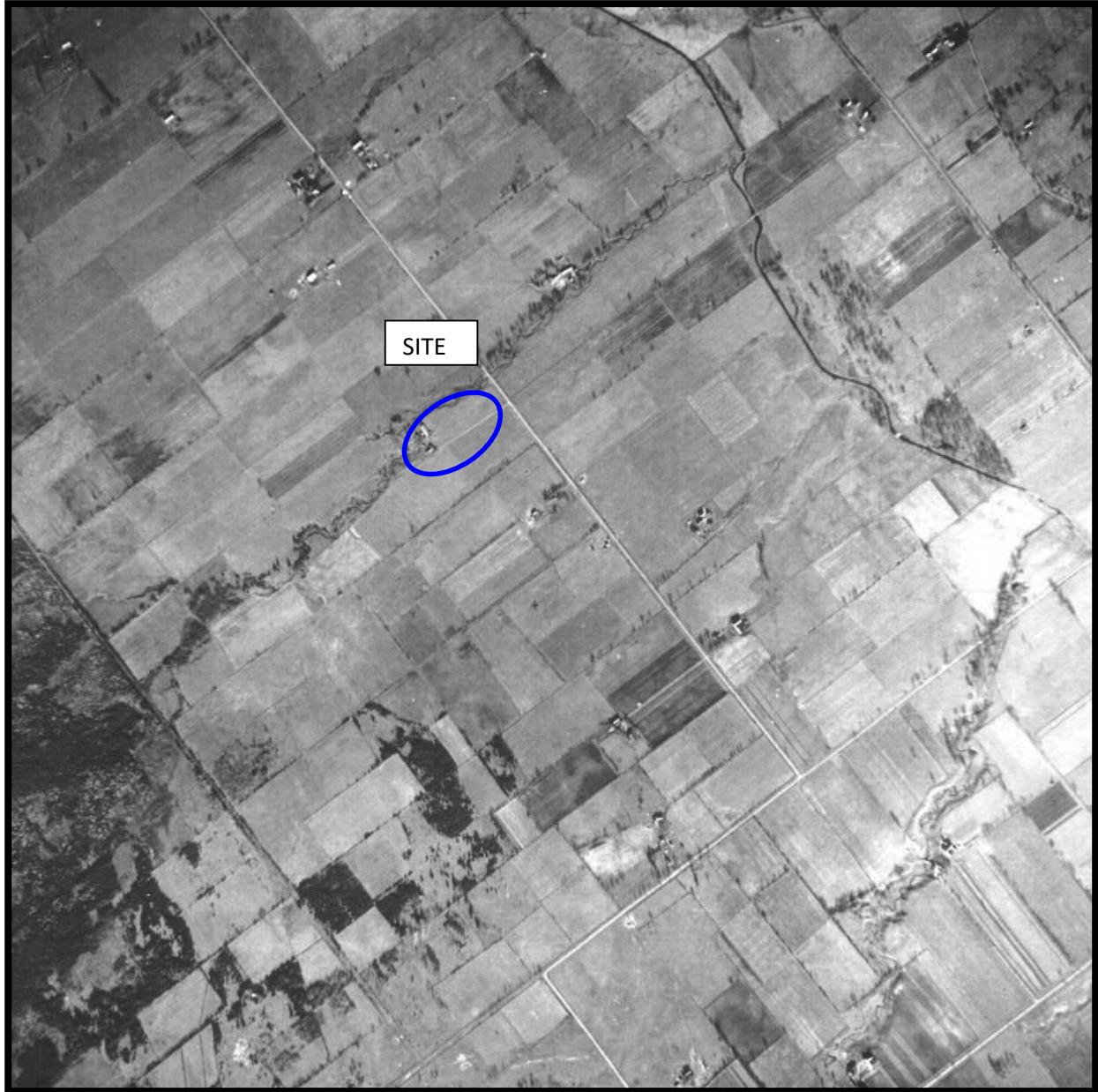
Scale:	1:4000	Date:	04/2020
Drawn by:	YA	Report No.:	PE4900-1
Checked by:	KAM	Dwg. No.:	PE4900-2
Approved by:	MSD	Revision No.:	

APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

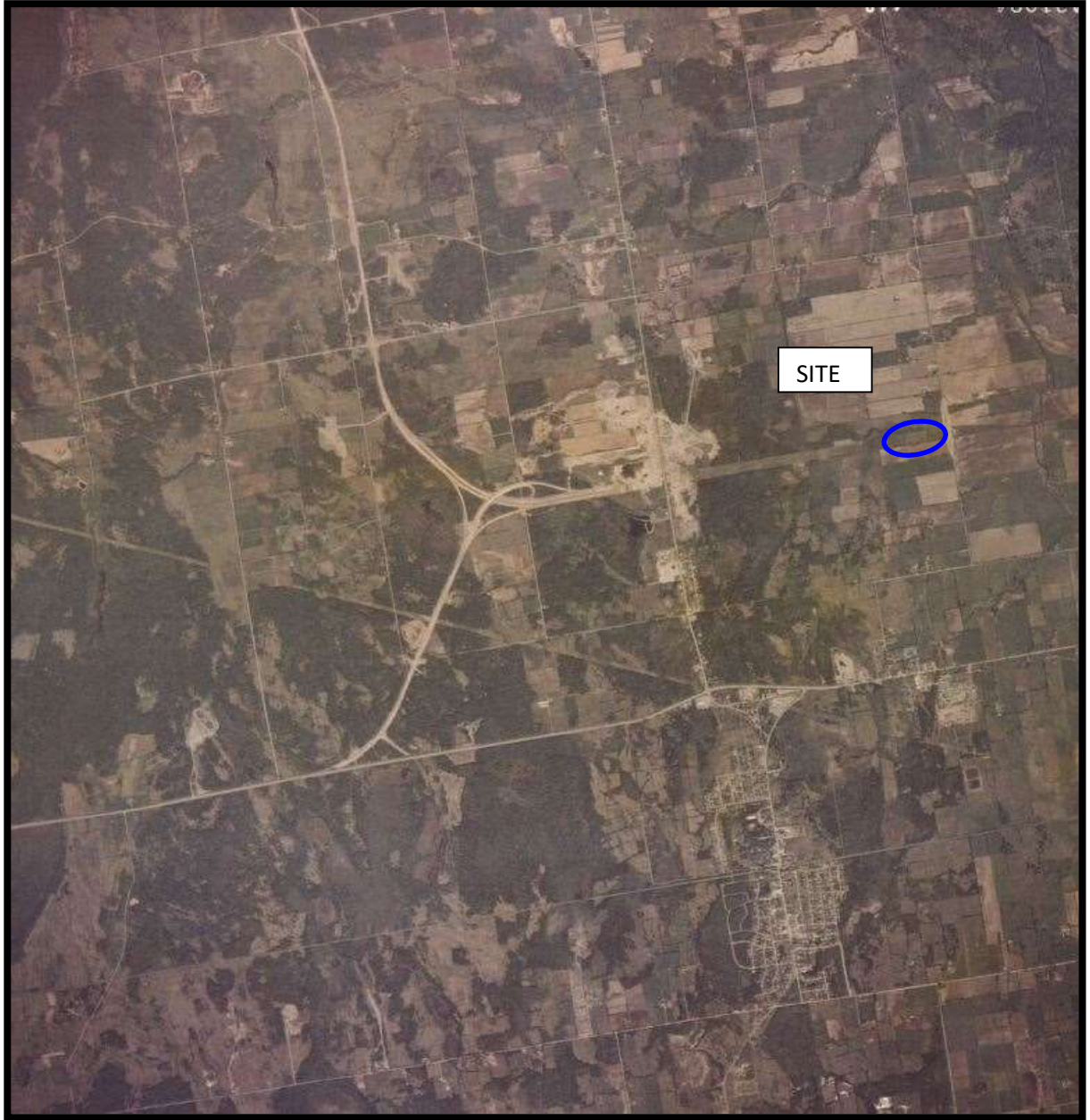
SURVEY PLANS



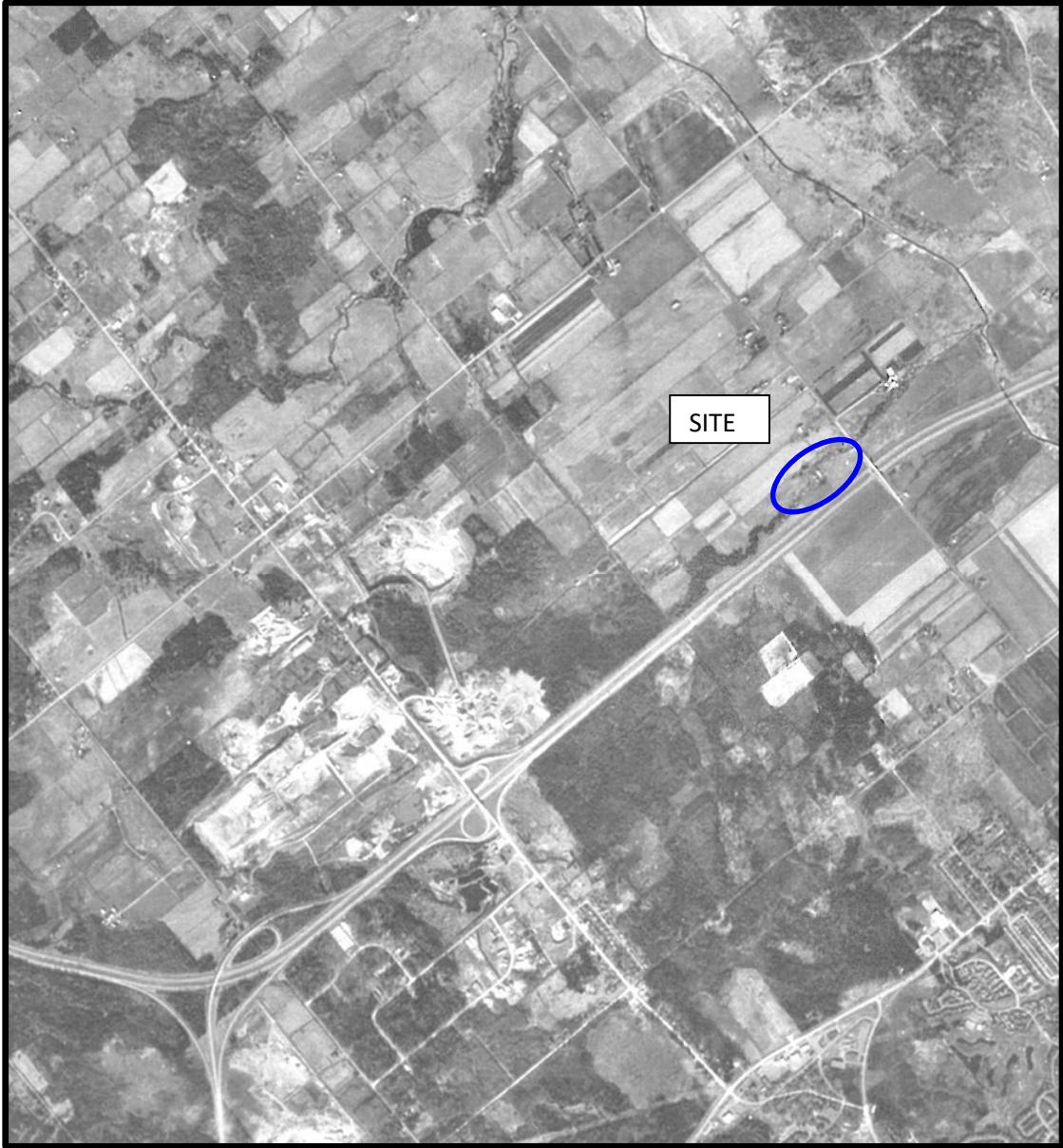
AERIAL PHOTOGRAPH
1945



AERIAL PHOTOGRAPH
1959



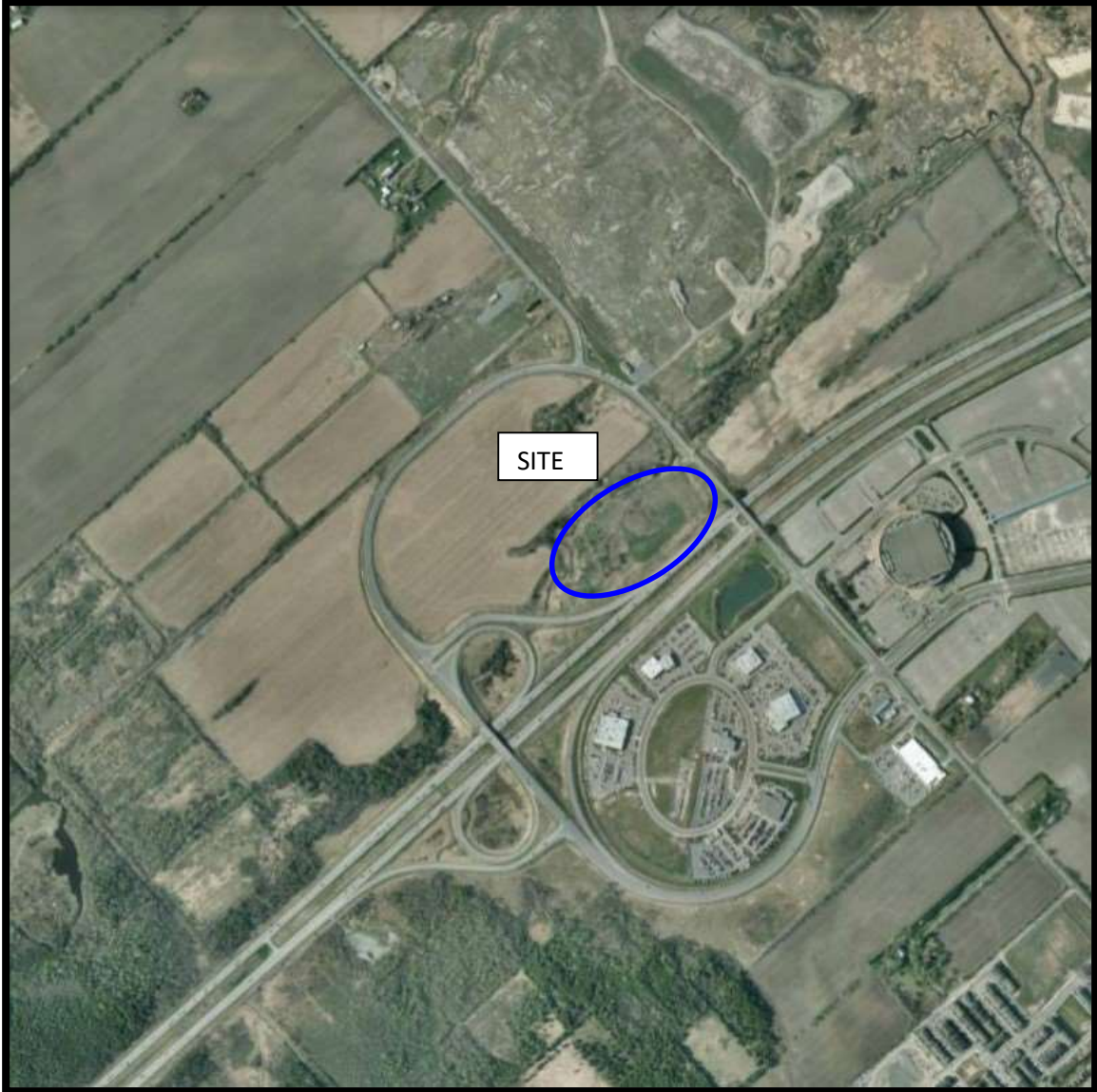
AERIAL PHOTOGRAPH
1976



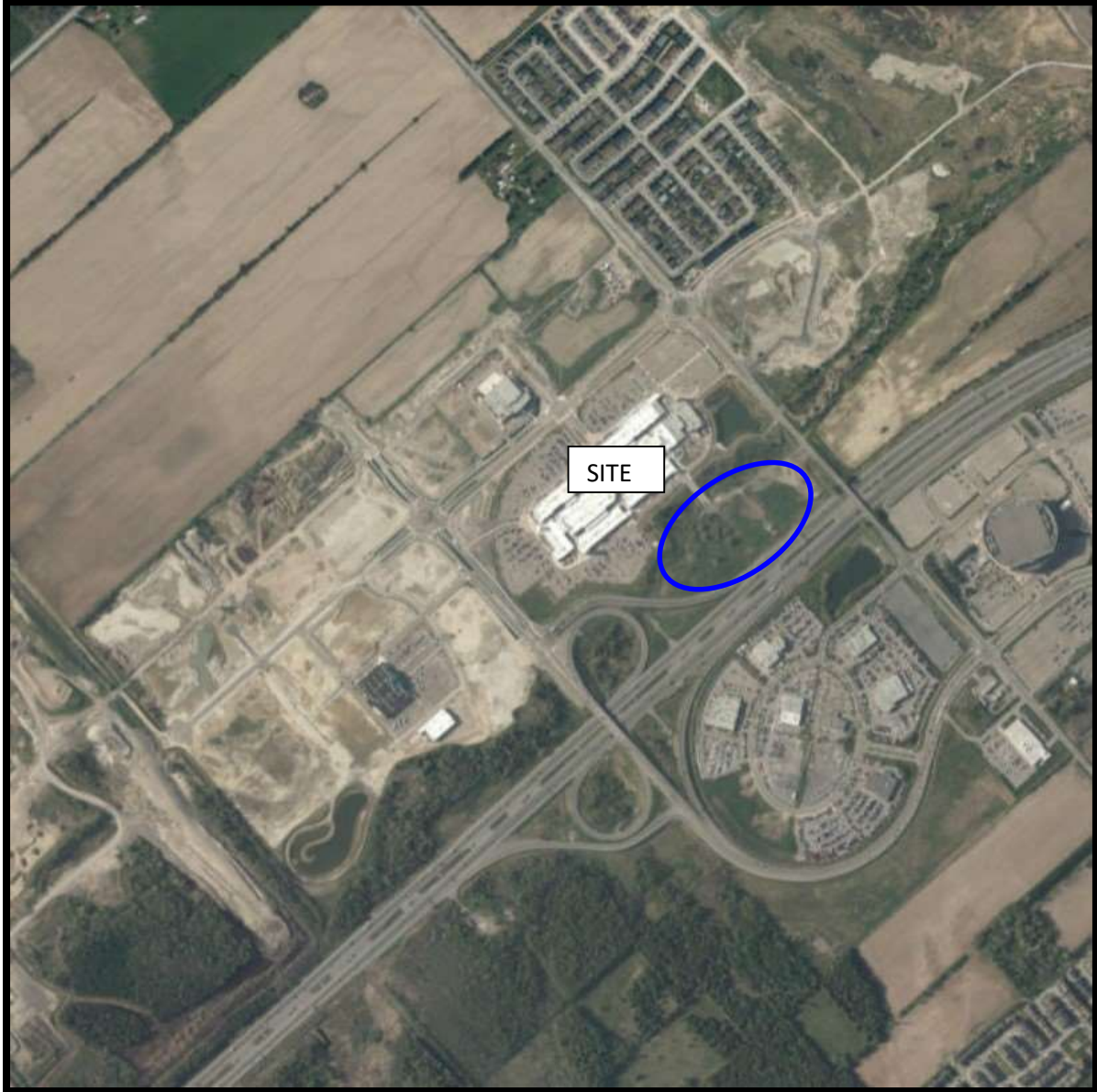
AERIAL PHOTOGRAPH
1988



AERIAL PHOTOGRAPH
1999



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2017

Site Photographs

PE4900

8555 Campeau Drive, Ottawa, Ontario

April 14, 2020



Photo 1: Phase I property, looking south.



Photo 2: Looking east at Phase I property from across Feedmill Creek.

Site Photographs

PE4900

8555 Campeau Drive, Ottawa, Ontario

April 14, 2020

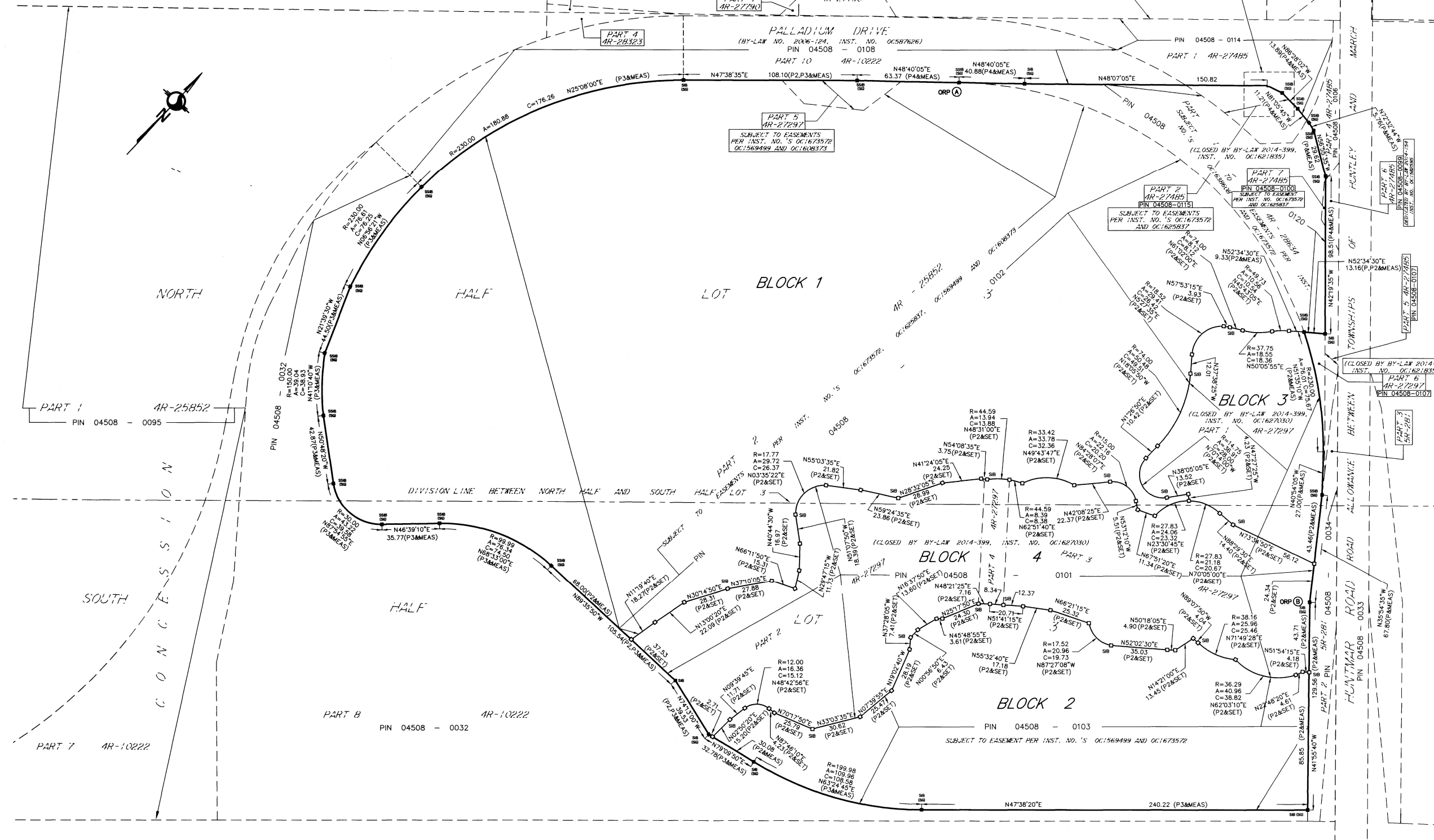
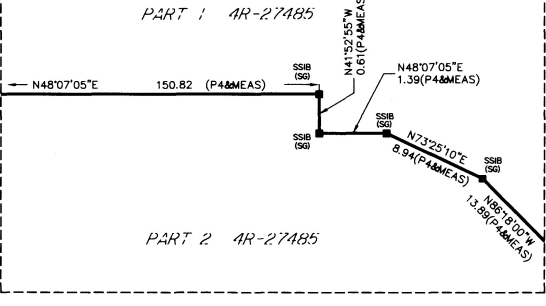


Photo 3: Phase I property, looking northwest.



Photo 4: Former building foundation on-site.

DETAIL "A"
NOT TO SCALE



APPROVED UNDER SECTION 51 OF THE PLANNING ACT BY THE CITY OF OTTAWA THIS 2 DAY OF November, 2015.

MICHAEL MIZZI, MPP, RPP, ACTING GENERAL MANAGER
PLANNING AND GROWTH MANAGEMENT DEPARTMENT
PLANNING AND INFRASTRUCTURE PORTFOLIO
CITY OF OTTAWA

BLOCK 1 COMPRISES ALL OF PIN 04508-0102, 04508-0120, 04508-0100, 04508-0115.
BLOCK 2 COMPRISES ALL OF PIN 04508-0103.
BLOCKS 3 AND 4 COMPRISES ALL OF PIN 04508-0101.
BLOCK 1 IS SUBJECT TO EASEMENT PER INST. NO.'S OC1673572, OC1625837, OC1569499, OC1606373 & OC1636608.
BLOCK 2 IS SUBJECT TO EASEMENT PER INST. NO.'S OC1569499 & OC1673572.

CERTIFICATE OF REGISTRATION
PLAN 4M-1554

I CERTIFY THAT THIS PLAN IS REGISTERED IN THE LAND REGISTRY OFFICE FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON NO.4 AT 11:46 O'CLOCK ON THE 2 DAY OF February, 2016 AND ENTERED IN THE PARCEL REGISTER FOR PROPERTY IDENTIFIER 04508-0100, 04508-0102, 04508-0102, 04508-0103, 04508-0115 AND 04508-0120 AND THE REQUIRED CONSENTS ARE REGISTERED AS PLAN DOCUMENT NUMBER OC1761406.

F. Laman
REPRESENTATIVE FOR THE LAND REGISTRAR

THIS PLAN COMPRISES ALL THE LAND IDENTIFIED BY ALL OF PIN 04508-0100, ALL OF PIN 04508-0101, ALL OF PIN 04508-0102, ALL OF PIN 04508-0103, ALL OF PIN 04508-0120 AND ALL OF PIN 04508-0115.

PLAN OF SUBDIVISION OF
PART OF LOT 3
CONCESSION 1
(PART AS CLOSED BY BY-LAWS
OC1621835 AND OC1627030)
GEOGRAPHIC TOWNSHIP OF HUNTLEY
CITY OF OTTAWA

Scale 1 : 1250
50 37.5 25 12.5 0 25 50 Metres

METRIC CONVERSION
DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES
AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048
GRID SCALE CONVERSION
DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE
COMBINED SCALE FACTOR OF 0.999914.
BEARING NOTE
BEARINGS HEREON ARE GRID BEARINGS DERIVED FROM THE CAN-NET VRS NETWORK AND
ARE REFERRED TO THE CENTRAL MERIDIAN 76° 30' WEST LONGITUDE OF THE 3rd MTM
ONTARIO COORDINATE SYSTEM, NAD83 (ORIGINAL) ZONE 9.

OBSERVED REFERENCE POINTS DERIVED FROM GPS OBSERVATIONS USING THE CAN-NET VIRTUAL REFERENCE STATION NETWORK: MTM ZONE 9, NAD83 (ORIGINAL)

COORDINATES TO URBAN ACCURACY PER SEC 14(2) OF O. REG. 216/10		
ORP ID	NORTHING	EASTING
(A)	5017879.38	348879.92
(B)	5017841.37	349221.03

COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 29th DAY OF JANUARY, 2015.

June 18/15
DATE
BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

OWNER'S CERTIFICATE

THIS IS TO CERTIFY THAT:
1. ALL OF BLOCKS 1 AND 2 HAVE BEEN LAID OUT IN ACCORDANCE WITH OUR INSTRUCTIONS.

RIOCAN HOLDINGS (TJV) INC. (50% INT.) 1633272 ALBERTA ULC (50% INT.)

DATED: July 7/15
Dated: June 20/15
JONATHAN OWLIN
SENIOR VICE-PRESIDENT OF INVESTMENT
I HAVE THE AUTHORITY TO BIND THE CORPORATION
FRANK C. MARCHELLO JR.
EXECUTIVE VICE-PRESIDENT
I HAVE THE AUTHORITY TO BIND THE CORPORATION

OWNER'S CERTIFICATE

THIS IS TO CERTIFY THAT:
1. ALL OF BLOCKS 3 AND 4 HAVE BEEN LAID OUT IN ACCORDANCE WITH OUR INSTRUCTIONS.

DATED: 13 JAN 2016
Dated: 12 Jan 2016

JIM WATSON
CITY OF OTTAWA
(MAYOR)
I HAVE THE AUTHORITY TO BIND THE CORPORATION
LESLIE DONNELLY
CITY OF OTTAWA
(DEPUTY CITY CLERK)
I HAVE THE AUTHORITY TO BIND THE CORPORATION

LEGEND

SYMBOL	DENOTES	FOUND MONUMENTS
IB	IRON BAR	SET MONUMENTS
IB0	ROUND IRON BAR	IRON BAR
SIB	STANDARD IRON BAR	STANDARD IRON BAR
SSIB	SHORT STANDARD IRON BAR	SHORT STANDARD IRON BAR
CC	CUT CROSS	CUT CROSS
CCP	CONCRETE PIN	CONCRETE PIN
WIT	WITNESS	WITNESS
PIN	PROPERTY IDENTIFICATION NUMBER	PROPERTY IDENTIFICATION NUMBER
MEAS	MEASURED	MEASURED
PROP	PROPORTIONED	PROPORTIONED
OU	ORIGIN UNKNOWN	ORIGIN UNKNOWN
SG	STANTEC GEOMATICS LTD.	STANTEC GEOMATICS LTD.
P2	PLAN 4R-28634	PLAN 4R-28634
P3	PLAN 4R-27297	PLAN 4R-27297
P4	PLAN 4R-25852	PLAN 4R-25852
		PLAN 4R-27485

ALL SET MONUMENTS SHOWN HEREON ARE IRON BARS (IB) UNLESS OTHERWISE NOTED.

Stantec Geomatics Ltd.
Ontario Land Surveyors
Canada Lands Surveyors
1331 CLYDE AVENUE, SUITE 400, OTTAWA, ON, K2C 3G4
PHONE (613)722-4420 FAX (613)722-2799
brian.webster@stantec.com
stantec.com

PART 2, 5R-181 (P-6092-6) (DESIGNATED AS KING'S HIGHWAY BY ORDER IN 3021-71)
HWY 417 (QUEENSWAY) (DESIGNATED AS CONTROLLED ACCESS HIGHWAY AS SCHEDULE 2 TO REGULATION 389, R.R.O. 1970.)
PIN 04508 - 0032

W:\active\161612756-111_Riocan_Huntman\417\subdivision_final_plan_(Riocan)\addwg\161612756-132-Riocan_Kanana\est-rev5.dwg

11 March 2016 12:58 PM
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I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

DATE: Mar 11/16

B. J. Webster
 BRIAN J. WEBSTER
 ONTARIO LAND SURVEYOR

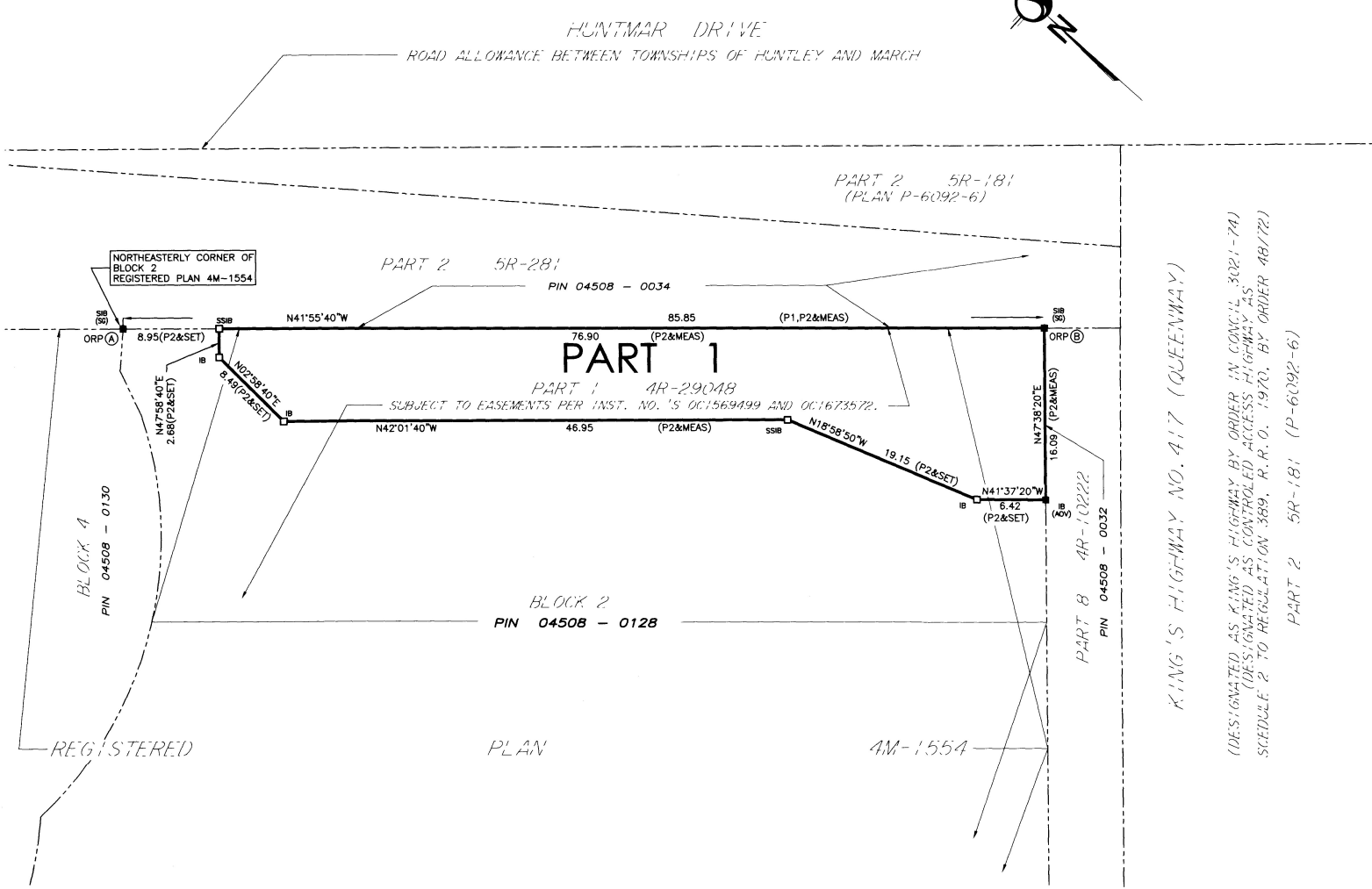
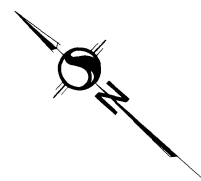
PLAN 4R-29395
 RECEIVED AND DEPOSITED

DATE: March 14/16

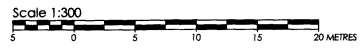
d. memo
 REPRESENTATIVE FOR THE LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON (4).

SCHEDULE			
PART	BLOCK	PLAN	PIN
1	PART OF 2	4M-1554	PART OF 04508-0128

PART 1 IS SUBJECT TO EASEMENTS PER INST. NO.'S OC1569499 AND OC1673572.



PLAN OF SURVEY of
**PART OF BLOCK 2
 REGISTERED PLAN 4M-1554
 CITY OF OTTAWA**



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

GRID SCALE CONVERSION
 DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999999.

BEARING NOTE
 BEARINGS HEREON ARE GRID BEARINGS DERIVED FROM THE CAN-NET VRS NETWORK AND ARE REFERRED TO THE CENTRAL MERIDIAN 76° 30' WEST LONGITUDE OF THE 3rd MTM ONTARIO COORDINATE SYSTEM, NAD83 (ORIGINAL) ZONE 9.

OBSERVED REFERENCE POINTS DERIVED FROM GPS OBSERVATIONS USING THE CAN-NET VIRTUAL REFERENCE STATION NETWORK.
 3rd MTM ZONE 9, NAD83 (ORIGINAL) (1997.0).
 COORDINATES TO URBAN ACCURACY PER SEC 14(2) OF O.REG. 216/10

ORP ID	NORTHING	EASTING
(A)	5017753.94	349290.00
(B)	5017690.07	349347.36

COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

LEGEND

SYMBOL	NOTES	FOUND MONUMENTS
■	SET MONUMENTS	SET MONUMENTS
□	IRON BAR	IRON BAR
IB	ROUND IRON BAR	ROUND IRON BAR
IBO	STANDARD IRON BAR	STANDARD IRON BAR
SIB	SHORT STANDARD IRON BAR	SHORT STANDARD IRON BAR
SSIB	CUT CROSS	CUT CROSS
CC	CONCRETE PIN	CONCRETE PIN
CP	WITNESS	WITNESS
WIT	PROPERTY IDENTIFICATION NUMBER	PROPERTY IDENTIFICATION NUMBER
PIN	MEASURED	MEASURED
MEAS	PROPORTIONED	PROPORTIONED
PROP	ORIGIN UNKNOWN	ORIGIN UNKNOWN
OU	STANTEC GEOMATICS LTD.	STANTEC GEOMATICS LTD.
STANTEC	REGISTERED PLAN 4M-1554	REGISTERED PLAN 4M-1554
P1	PLAN 4R-29048	PLAN 4R-29048
P2	PLAN 4R-29048	PLAN 4R-29048
ORP	OBSERVED REFERENCE POINT	OBSERVED REFERENCE POINT

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

- THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
- THE SURVEY WAS COMPLETED ON THE 8th DAY OF MARCH, 2016.

DATE: Mar 11/16

B. J. Webster
 BRIAN J. WEBSTER
 ONTARIO LAND SURVEYOR

Stantec Geomatics Ltd.
 CANADA AND ONTARIO LAND SURVEYORS
 1331 CLYDE AVENUE, SUITE 400
 OTTAWA, ONTARIO, K2C 3G4
 TEL. (613) 722-4420 FAX. (613) 722-2799
 stantec.com

APPENDIX 2

MECP WATER WELL RECORDS

ERIS REPORT

UTM | 18 | Z | 426665 | E
 | 9 | R | 5016380 | N
 Elev. | 9 | R | 0230 |
 Basin | 0251 | | | |
 Lot 3



31 GSD

15 No 3079
 GROUND WATER BRANCH
 185
 DEC 16 1957
 ONTARIO WATER RESOURCES COMMISSION

The Water-well Drillers Act, 1954
 Department of Mines

Water-Well Record

Ship, Village, Town or City..... HUNTER
 Village, Town or City).....
 Address
 Date completed
 (day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter (s) <u>4"</u>	Static level <u>15</u>
Length (s) <u>62'</u>	Pumping rate <u>300 GPM</u>
Type of screen <u>NONE</u>	Pumping level <u>27</u>
Length of screen	Duration of test <u>1 1/2 HRS</u>

Well Log

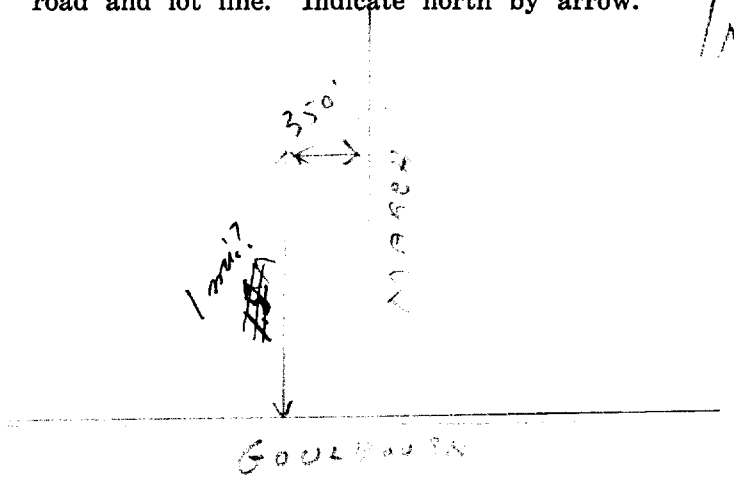
Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
<u>CLAY</u>	<u>0</u>	<u>50</u>			
<u>SHALE</u>	<u>50</u>	<u>60</u>			
<u>SAND</u>	<u>60</u>	<u>61</u>			
<u>SANDSTONE</u>	<u>61</u>	<u>89</u>	<u>87</u>	<u>74</u>	<u>FRESH</u>

For what purpose(s) is the water to be used?
BARN
 Is water clear or cloudy?..... PLAIN
 Is well on upland, in valley, or on hillside?.....
UPLAND
 Drilling firm
 Address
 Name of Driller W. M. SPARKS
 Address 5074 MADISON
 Licence Number 490

Location of Well

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



I certify that the foregoing statements of fact are true.

Date DEC 4 1957 K. Sparks
 Signature of Licensee

UTM 182 4268100E



31G54

WATER BE...
15 No. DIVISION 3285
JUL 6 1964
ONTARIO WATER RESOURCES COM...

5 501165110N

The Ontario Water Resources Commission Act

Elev. 4 10325

WATER WELL RECORD

Basin 25 Carleton

Township, Village, Town or City March

Con. 1 Lot 3

Date completed 23 May 64
(day month year)

Address Hazeldean, Ontario.

Casing and Screen Record

Inside diameter of casing 1 1/2" - 2" & 3"
Total length of casing 3", 0'-52'; 2", 52'-77'; 1 1/2", 77'-85'
Type of screen -
Length of screen -
Depth to top of screen -
Diameter of finished hole 2"

Pumping Test

Static level 5'
Test-pumping rate 10 G.P.M.
Pumping level 20'
Duration of test pumping 1 hour
Water clear or cloudy at end of test clear
Recommended pumping rate 5 G.P.M.
with pump setting of 40 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

Clay

0

30

136

sulphur

Quick sand

30

52

Boulders & sand

52

70

Limestone

70

136

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

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

Drilling or Boring Firm J.B. Dufresne & Co. Ltd.,
1014 Maitland Ave.,
Address OTTAWA 5, Ont.

Licence Number 1307

Name of Driller or Borer F. Cossette
Address 1510 Baseline Rd., Ottawa, Ont.

Date 26 May, 1964

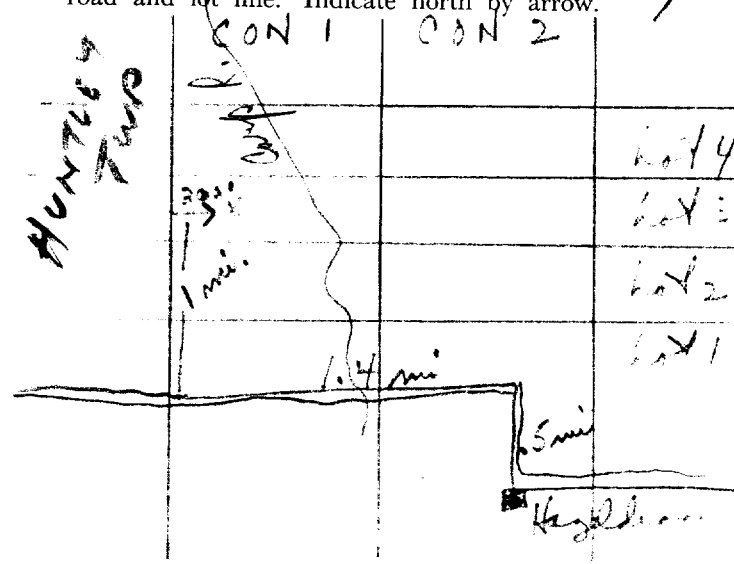
(Signature of Licensed Drilling or Boring Contractor)

Form 7 10M-62-1152

OWRC COPY

Location of Well

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



CSS.58

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

11
1 2

1529619

Municipality 15005 Con. CON 02
10 14 15 22 23 24

County or District Ottawa Carleton		Township/Borough/City/Town/Village West Carleton - Huntley		Con block tract survey, etc. 2	Lot 2
Owner's surname Turpin Group Inc.	First name	Address c/o Golders Ass. Ltd. 1796 Courtwood Cres.		Date completed 25 day 9 month 97 year	
Zone M 10		Easting 12 17 18 24		Northing K2C 2B5	

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	Clay		Packed	0	10
Gray	Clay		Sticky	10	38
Gray	Sandy Clay		Dry	38	41.6
Gray	Limestone		Medium HARD	41.6	150
Gray	Limestone		Medium Hard	150	200

NOTE: No Water, Well was stopped at owners request

31 _____

32 _____

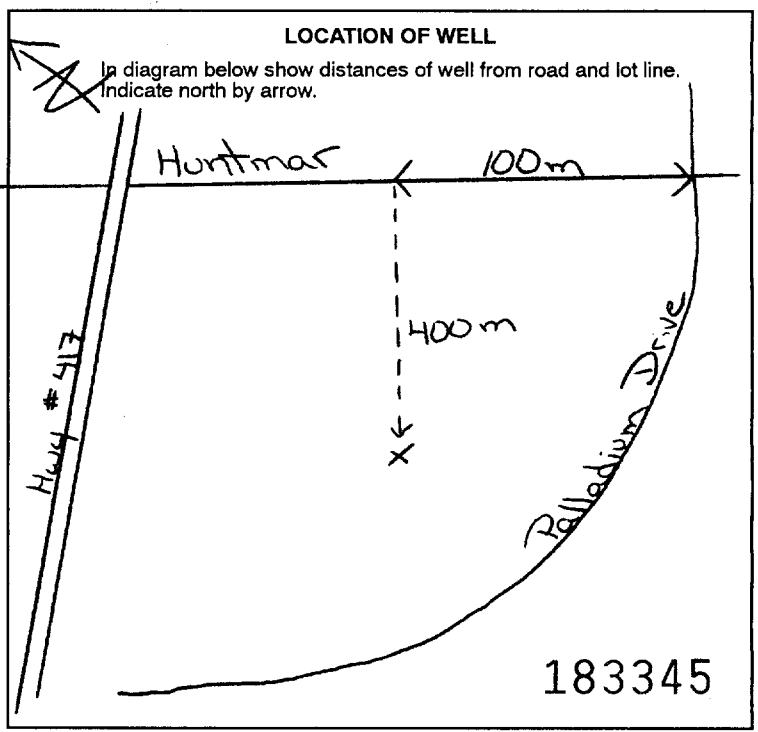
Water found at - feet	Kind of water
10-13	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas
15-18	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas
20-23	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas
25-28	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas
30-33	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input type="checkbox"/> Steel 2 <input checked="" type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.188	0	44.5
5 15/16	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		44.5	200
16	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic			27-30

SCREEN	SIZES OF OPENING (Slot No.)	Diameter inches	Length feet	Material and type	Depth at top of screen feet

PLUGGING & SEALING RECORD		
<input type="checkbox"/> Annular space <input type="checkbox"/> Abandonment		
Depth set at - feet	Material and type (Cement grout, bentonite, etc.)	
From To		
10-13 14-17	43 0 Grouted Cement (8)	
18-21 22-25		
26-29 30-33 80		

PUMPING TEST	Pumping test method	Pumping rate	Duration of pumping
	1 <input type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	GPM	Hours Mins
	Static level	Water level during	Water levels during
	19-21	15 minutes 26-28	30 minutes 29-31
Water level end of pumping	22-24	45 minutes 32-34	60 minutes 35-37
feet	feet	feet	feet
If flowing give rate	Pump intake set at	Water at end of test	
38-41	feet	<input type="checkbox"/> Clear <input type="checkbox"/> Cloudy	
GPM	Recommended pump setting	Recommended pump rate	
	43-45	46-49	
Recommended pump type			
<input type="checkbox"/> Shallow <input type="checkbox"/> Deep			



FINAL STATUS OF WELL		
1 <input type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	6 <input checked="" type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	

WATER USE		
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not used
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	

METHOD OF CONSTRUCTION		
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input checked="" type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1558
Address P.O. Box 490 Stittsville, Ontario K2S 1A6	
Name of Well Technician S. Miller	Well Technician's Licence No. T0097
Signature of Technician/Contractor <i>[Signature]</i>	Submission date day 29 mo 9 yr 97

MINISTRY USE ONLY	Data source	Contractor 1558	Date received OCT 17 1997
	Date of inspection	Inspector	
	Remarks <i>[Signature]</i>		



DATABASE REPORT

Project Property: *Phase I ESA
Huntmar Drive
Ottawa ON
PE4900*

Project No: *PE4900*

Report Type: *Standard Report*

Order No: *20200319234*

Requested by: *Paterson Group Inc.*

Date Completed: *March 24, 2020*

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Executive Summary

Property Information:

Project Property: *Phase I ESA
Huntmar Drive Ottawa ON*

Project No: *PE4900*

Coordinates:

Latitude: *45.297219*
Longitude: *-75.9345891*
UTM Northing: *5,016,393.33*
UTM Easting: *426,721.93*
UTM Zone: *18T*

Elevation: *328 FT
99.88 M*

Order Information:

Order No: *20200319234*
Date Requested: *March 19, 2020*
Requested by: *Paterson Group Inc.*
Report Type: *Standard Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
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	6	6
CA	<i>Certificates of Approval</i>	Y	0	4	4
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	12	12
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	1	1
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	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	2	2
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	1	1
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	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	1	1
Total:			0	30	30

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

Executive Summary: Site Report Summary - Surrounding Properties

<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>
1	PTTW	RioCan Management Inc.	333 Huntmar Drive, City of Ottawa, Ontario CITY OF OTTAWA ON	WNW/140.5	0.00	18
1	ECA	RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	WNW/140.5	0.00	18
1	ECA	West Ottawa Land Holdings Inc. and West Ottawa Land Holdings (2) Inc.	333 Huntmar Dr Part Lots 3 and 4, Concession 1 Ottawa ON K1V 8Y3	WNW/140.5	0.00	18
1	ECA	RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	WNW/140.5	0.00	19
1	ECA	RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	WNW/140.5	0.00	19
2	BORE		ON	ENE/204.1	0.22	19
3	WWIS		lot 3 con 1 ON Well ID: 1503019	N/210.3	-1.46	20
4	BORE		ON	ENE/237.4	-0.05	23
5	BORE		ON	E/242.8	0.08	24
6	BORE		ON	E/243.1	0.08	25
7	BORE		ON	E/243.6	0.08	27
8	BORE		ON	NNE/244.3	-2.00	28

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	PINC		8555 CAMPEAU DRIVE, OTTAWA ON	W/246.8	0.00	29
9	EASR	TIMMINS SQUARE LIMITED PARTNERSHIP	8555 CAMPEAU DR KANATA ON K2T 0K5	W/246.8	0.00	29
10	CA	Tony Graham Kanata Limited	600-2500 Palladium Dr Ottawa ON	SSE/249.9	1.00	29
10	CA	Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON	SSE/249.9	1.00	30
10	CA	Kanata Motors Corporation	2500 Palladium Dr Kanata Ottawa ON	SSE/249.9	1.00	30
10	CA	Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON	SSE/249.9	1.00	30
10	HINC		2500 PALLADIUM DRIVE KANATA ON	SSE/249.9	1.00	30
10	HINC		2500 PALLADIUM DRIVE RICHMOND ON	SSE/249.9	1.00	31
10	EHS		2500 Palladium Drive Unit 1200 Kanata ON	SSE/249.9	1.00	31
10	SPL		#200 - 2500 Palladium Drive Ottawa ON	SSE/249.9	1.00	31
10	ECA	Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON K2A 1C5	SSE/249.9	1.00	32
10	ECA	Zena Investment Corporation	2500 Palladium Dr Ottawa ON K2V 1E2	SSE/249.9	1.00	32
10	ECA	Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON K2A 1C5	SSE/249.9	1.00	32

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<u>10</u>	ECA	Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON K2A 1C5	SSE/249.9	1.00	<u>33</u>
<u>10</u>	ECA	Kanata Motors Corporation	2500 Palladium Dr Kanata Ottawa ON K2V 1E2	SSE/249.9	1.00	<u>33</u>
<u>10</u>	ECA	Tony Graham Kanata Limited	600-2500 Palladium Dr Ottawa ON K2G 1E3	SSE/249.9	1.00	<u>33</u>
<u>10</u>	ECA	Tony Graham Motors Limited	2500 Palladium Dr Ottawa ON K2G 1E3	SSE/249.9	1.00	<u>34</u>
<u>10</u>	ECA	Zena Investment Corporation	2500 Palladium Dr Ottawa ON K2J 6H8	SSE/249.9	1.00	<u>34</u>

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 6 BORE site(s) within approximately 0.25 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	ENE	204.14	<u>2</u>
	ON	E	242.79	<u>5</u>
	ON	E	243.06	<u>6</u>
	ON	E	243.60	<u>7</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	ENE	237.37	<u>4</u>
	ON	NNE	244.33	<u>8</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 4 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON	SSE	249.92	<u>10</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON	SSE	249.92	10
Tony Graham Kanata Limited	600-2500 Palladium Dr Ottawa ON	SSE	249.92	10
Kanata Motors Corporation	2500 Palladium Dr Kanata Ottawa ON	SSE	249.92	10

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Feb 29, 2020 has found that there are 1 EASR 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>
TIMMINS SQUARE LIMITED PARTNERSHIP	8555 CAMPEAU DR KANATA ON K2T 0K5	W	246.80	9

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Feb 29, 2020 has found that there are 12 ECA 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>
RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	WNW	140.48	1
RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	WNW	140.48	1
West Ottawa Land Holdings Inc. and West Ottawa Land Holdings (2) Inc.	333 Huntmar Dr Part Lots 3 and 4, Concession 1 Ottawa ON K1V 8Y3	WNW	140.48	1
RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	WNW	140.48	1

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON K2A 1C5	SSE	249.92	10
Zena Investment Corporation	2500 Palladium Dr Ottawa ON K2V 1E2	SSE	249.92	10
Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON K2A 1C5	SSE	249.92	10
Palladium Auto Park Ltd.	2500 Palladium Drive Ottawa ON K2A 1C5	SSE	249.92	10
Zena Investment Corporation	2500 Palladium Dr Ottawa ON K2J 6H8	SSE	249.92	10
Tony Graham Motors Limited	2500 Palladium Dr Ottawa ON K2G 1E3	SSE	249.92	10
Kanata Motors Corporation	2500 Palladium Dr Kanata Ottawa ON K2V 1E2	SSE	249.92	10
Tony Graham Kanata Limited	600-2500 Palladium Dr Ottawa ON K2G 1E3	SSE	249.92	10

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2020 has found that there are 1 EHS 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>
	2500 Palladium Drive Unit 1200 Kanata ON	SSE	249.92	10

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 2 HINC 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>
	2500 PALLADIUM DRIVE KANATA ON	SSE	249.92	10
	2500 PALLADIUM DRIVE RICHMOND ON	SSE	249.92	10

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 1 PINC 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>
	8555 CAMPEAU DRIVE, OTTAWA ON	W	246.80	9

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>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
RioCan Management Inc.	333 Huntmar Drive, City of Ottawa, Ontario CITY OF OTTAWA ON	WNW	140.48	1

SPL - Ontario Spills

A search of the SPL database, dated 1988-Aug 2019 has found that there are 1 SPL 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>
	#200 - 2500 Palladium Drive Ottawa ON	SSE	249.92	10

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>
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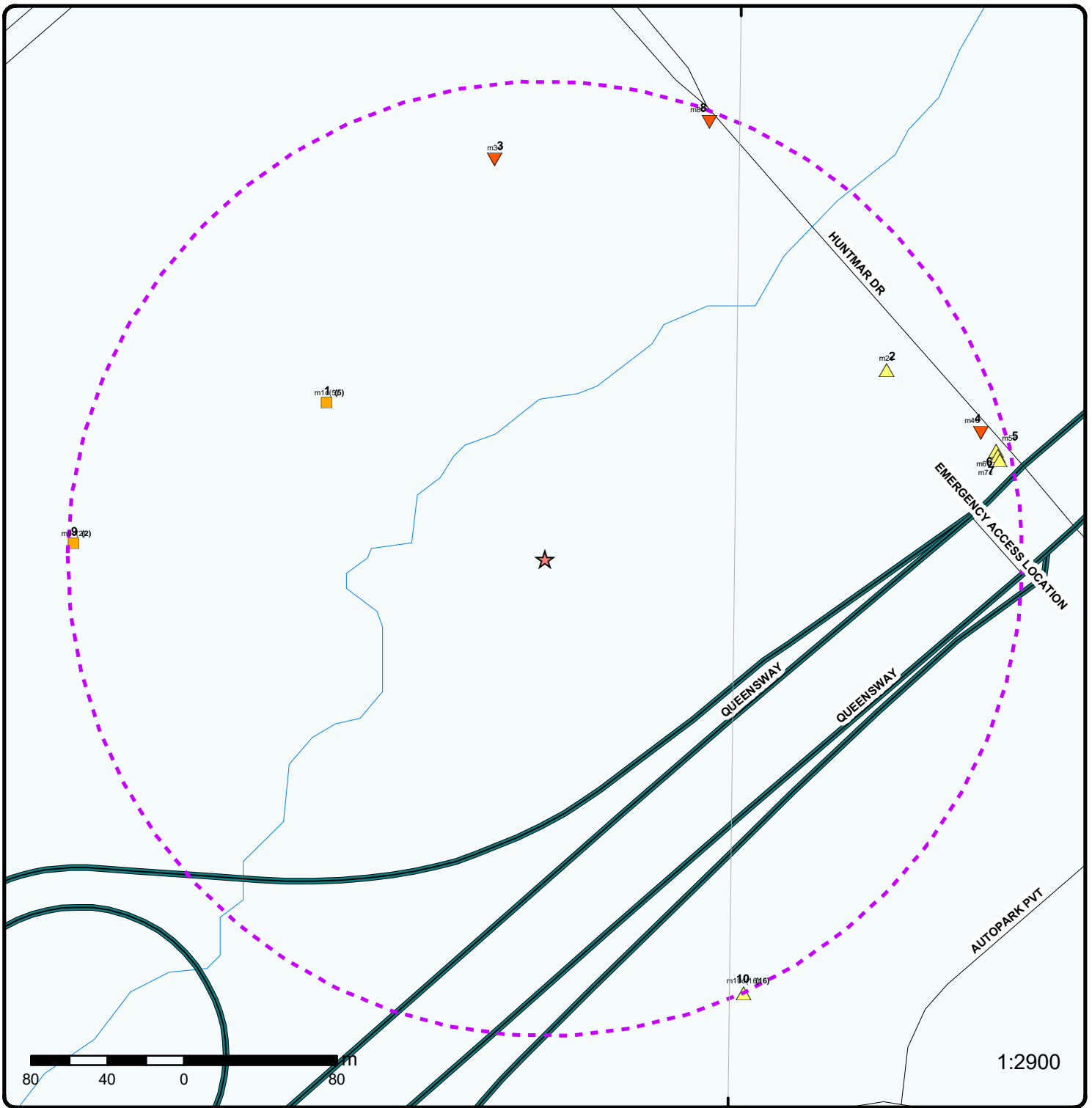
lot 3 con 1
ON

N

210.33

3

Well ID: 1503019



Map : 0.25 Kilometer Radius

Order Number: 20200319234

Address: Huntmar Drive, Ottawa, 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		



Aerial Year: 2019

Address: Huntmar Drive, Ottawa, ON

Source: ESRI World Imagery

Order Number: 20200319234



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 5	WNW/140.5	99.9 / 0.00	RioCan Management Inc. 333 Huntmar Drive, City of Ottawa, Ontario CITY OF OTTAWA ON	PTTW
<p>EBR Registry No: 011-9265 Ministry Ref No: 0731-986NLG Notice Type: Instrument Decision Notice Stage: Notice Date: August 16, 2013 Proposal Date: May 30, 2013 Year: 2013 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: RioCan Management Inc. Site Address: Location Other: Proponent Name: Proponent Address: 2300 Yonge Street , Suite 500, Toronto Ontario, Canada M4P 1E4 Comment Period: URL:</p> <p>Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:</p> <p>Site Location Details:</p> <p>333 Huntmar Drive, City of Ottawa, Ontario CITY OF OTTAWA</p>					
1	2 of 5	WNW/140.5	99.9 / 0.00	RioCan Management Inc. 333 Huntmar Dr Ottawa ON M4P 1E4	ECA
<p>Approval No: 3371-9A5GTU Approval Date: 2013-08-15 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: 333 Huntmar Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9009-999PHL-14.pdf</p> <p>MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:</p>					
1	3 of 5	WNW/140.5	99.9 / 0.00	West Ottawa Land Holdings Inc. and West Ottawa Land Holdings (2) Inc. 333 Huntmar Dr Part Lots 3 and 4, Concession 1 Ottawa ON K1V 8Y3	ECA
<p>Approval No: 6288-A2GGL2 Approval Date: 2015-09-28 Status: Approved Record Type: ECA</p> <p>MOE District: City: Longitude: Latitude:</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p>Link Source: IDS</p> <p>SWP Area Name: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Approval Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Address: 333 Huntmar Dr Part Lots 3 and 4, Concession 1</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2753-9YLJRZ-14.pdf</p>					
1	4 of 5	WNW/140.5	99.9 / 0.00	RioCan Management Inc. 333 Huntmar Dr Ottawa ON M4P 1E4	ECA
<p>Approval No: 4648-A2KQFP</p> <p>Approval Date: 2015-09-28</p> <p>Status: Revoked and/or Replaced</p> <p>Record Type: ECA</p> <p>Link Source: IDS</p> <p>SWP Area Name: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Approval Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Address: 333 Huntmar Dr</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2940-9YLLVJ-14.pdf</p>					
1	5 of 5	WNW/140.5	99.9 / 0.00	RioCan Management Inc. 333 Huntmar Dr Ottawa ON M4P 1E4	ECA
<p>Approval No: 8617-AHGRV5</p> <p>Approval Date: 2017-01-13</p> <p>Status: Approved</p> <p>Record Type: ECA</p> <p>Link Source: IDS</p> <p>SWP Area Name: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Approval Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Address: 333 Huntmar Dr</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0142-ABJN8A-14.pdf</p>					
2	1 of 1	ENE/204.1	100.1 / 0.22	ON	BORE
<p>Borehole ID: 609653</p> <p>OGF ID: 215511269</p> <p>Status:</p> <p>Type: Borehole</p> <p>Use:</p> <p>Completion Date: AUG-1970</p> <p>Static Water Level:</p> <p>Primary Water Use:</p> <p>Sec. Water Use:</p> <p>Total Depth m: -999</p> <p>Depth Ref: Ground Surface</p> <p>Depth Elev:</p> <p>Drill Method:</p> <p>Orig Ground Elev m: 100</p> <p>Elev Reliabil Note:</p> <p>DEM Ground Elev m: 98.8</p> <p>Concession:</p> <p>Inclin FLG: No</p> <p>SP Status: Initial Entry</p> <p>Surv Elev: No</p> <p>Piezometer: No</p> <p>Primary Name:</p> <p>Municipality:</p> <p>Lot:</p> <p>Township:</p> <p>Latitude DD: 45.298126</p> <p>Longitude DD: -75.932325</p> <p>UTM Zone: 18</p> <p>Easting: 426901</p> <p>Northing: 5016492</p> <p>Location Accuracy:</p> <p>Accuracy: Not Applicable</p>					

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

Borehole Geology Stratum

Geology Stratum ID:	218383735	Mat Consistency:	
Top Depth:	14.9	Material Moisture:	
Bottom Depth:		Material Texture:	
Material Color:		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 = 13000. BEDROCK. SEISMIC VELOCITY = 17000. 0001802203600000005 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218383733	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	1.8	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 = 2000.		

Geology Stratum ID:	218383734	Mat Consistency:	
Top Depth:	1.8	Material Moisture:	
Bottom Depth:	14.9	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 = 4600.		

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Ident:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:	L	Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 02161 NTS_Sheet:		
Confiden 1:	Gives some indication of sub-surface condition but material is unknown.		

Source List

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	1503019			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Livestock			Date Received:	12/16/1957
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	4832
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	HUNTLEY TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	003
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	10025062	Elevation:	99.170883
DP2BR:	61	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	426695.6
Code OB Desc:	Bedrock	North83:	5016602
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	9/5/1957	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	930995799
Layer:	3
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	60
Formation End Depth:	61
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	930995797
Layer:	1
Color:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		50			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930995798			
Layer:		2			
Color:					
General Color:					
Mat1:		14			
Most Common Material:		HARDPAN			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		50			
Formation End Depth:		60			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930995800			
Layer:		4			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		61			
Formation End Depth:		89			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10573632			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID: 930042906					
Layer: 2					
Material: 4					
Open Hole or Material: OPEN HOLE					
Depth From:					
Depth To: 89					
Casing Diameter: 4					
Casing Diameter UOM: inch					
Casing Depth UOM: ft					
<u>Construction Record - Casing</u>					
Casing ID: 930042905					
Layer: 1					
Material: 1					
Open Hole or Material: STEEL					
Depth From:					
Depth To: 62					
Casing Diameter: 4					
Casing Diameter UOM: inch					
Casing Depth UOM: ft					
<u>Results of Well Yield Testing</u>					
Pump Test ID: 991503019					
Pump Set At:					
Static Level: 15					
Final Level After Pumping: 27					
Recommended Pump Depth:					
Pumping Rate: 5					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM: ft					
Rate UOM: GPM					
Water State After Test Code: 1					
Water State After Test: CLEAR					
Pumping Test Method: 1					
Pumping Duration HR: 0					
Pumping Duration MIN: 30					
Flowing: N					
<u>Water Details</u>					
Water ID: 933455851					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 87					
Water Found Depth UOM: ft					

4

1 of 1

ENE/237.4

99.8 / -0.05

ON

BORE

Borehole ID: 847948
OGF ID: 215589605
Status: Decommissioned
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: 05-JUL-1971
Static Water Level: 1.8
Primary Water Use:
Sec. Water Use:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot: ROAD
Township: HUNTLEY
Latitude DD: 45.297834

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Total Depth m:	15.2			Longitude DD:	-75.93169
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426950
Drill Method:	Diamond Drill			Northing:	5016459
Orig Ground Elev m:	99.5			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	104				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	6559351			Mat Consistency:	Stiff
Top Depth:	.3			Material Moisture:	
Bottom Depth:	11.9			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Sand			Geologic Period:	
Material 4:	Silt - Sand			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	DESICCATED ZONE, MOTTLED GREY AND BROWN, STIFF TO VERY STIFF, SILTY CLAY, TRACE OF SAND (SENSITIVE), OCC. SILT AND SAND PARTINGS. GREY, FIRM TO STIFF, SILT, GREY, COMPACT **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Geology Stratum ID:	6559350			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	.3			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Topsoil			Geologic Formation:	
Material 2:	Clay			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAYEY TOPSOIL **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Geology Stratum ID:	6559352			Mat Consistency:	Loose
Top Depth:	11.9			Material Moisture:	
Bottom Depth:	15.2			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Till			Geologic Formation:	
Material 2:	Silt - Sand - Gravel			Geologic Group:	
Material 3:	Clay			Geologic Period:	
Material 4:				Depositional Gen:	glacial
Gsc Material Description:					
Stratum Description:	REWORKED ZONE, LOOSE, NET.MIX.SILT, SAND AND GRAVEL, TRACE OF CLAY (GLACIAL TILL), DENSE **Note: Many records provided by the department have a truncated [Stratum Description] field.				

5 1 of 1 E/242.8 100.0 / 0.08 ON BORE

Borehole ID:	848581			Inclin FLG:	No
OGF ID:	215590202			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	08-NOV-1994			Municipality:	
Static Water Level:				Lot:	ROAD
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.297754
Total Depth m:	9.9			Longitude DD:	-75.931587
Depth Ref:	Ground Surface			UTM Zone:	18

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth Elev: Drill Method: Not known Orig Ground Elev m: 100 Elev Reliabil Note: DEM Ground Elev m: 103 Concession: Location D: Survey D: Comments:				Easting: 426958 Northing: 5016450 Location Accuracy: Accuracy: Within 10 metres	
<u>Borehole Geology Stratum</u>					
Geology Stratum ID: 6561466 Top Depth: 0 Bottom Depth: 6.4 Material Color: Brown Material 1: Sand Material 2: Gravel Material 3: Fill Material 4: cobble Gsc Material Description: Stratum Description:				Mat Consistency: Compact Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
		COMPACT TO VERY DENSE, BROWN SAND, TRACE TO SOME GRAVEL: FILL, OCCASIONAL COBBLES **Note: Many records provided by the department have a truncated [Stratum Description] field.			
Geology Stratum ID: 6561467 Top Depth: 6.4 Bottom Depth: 8.4 Material Color: Brown Material 1: Sand Material 2: Silt Material 3: Fine Sand Material 4: Fill Gsc Material Description: Stratum Description:				Mat Consistency: Compact Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
		COMPACT, BROWN SAND, OCCASIONAL SILT POCKETS, GRADES TO FINE SAND: FILL, SILTY SAND SEAM **Note: Many records provided by the department have a truncated [Stratum Description] field.			
Geology Stratum ID: 6561465 Top Depth: 0 Bottom Depth: .4 Material Color: Material 1: Asphalt Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:				Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Asphalt Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
		150 MM ASPHALT **Note: Many records provided by the department have a truncated [Stratum Description] field.			
Geology Stratum ID: 6561468 Top Depth: 8.4 Bottom Depth: 9.9 Material Color: Grey Material 1: Clay Material 2: Silt Material 3: Material 4: Gsc Material Description: Stratum Description:				Mat Consistency: Stiff Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
		STIFF, GREY, SILTY CLAY **Note: Many records provided by the department have a truncated [Stratum Description] field.			
6	1 of 1	E/243.1	100.0 / 0.08	ON	BORE
Borehole ID: 847941 OGF ID: 215589598				Inclin FLG: No SP Status: Initial Entry	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Status:		Decommissioned		Surv Elev:	No
Type:		Borehole		Piezometer:	No
Use:		Geotechnical/Geological Investigation		Primary Name:	
Completion Date:		24-JUN-1971		Municipality:	
Static Water Level:		2.0		Lot:	ROAD
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.297727
Total Depth m:	22.9			Longitude DD:	-75.931574
Depth Ref:		Ground Surface		UTM Zone:	18
Depth Elev:				Easting:	426959
Drill Method:		Diamond Drill		Northing:	5016447
Orig Ground Elev m:	99.5			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	103				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	6559326		Mat Consistency:	Loose
Top Depth:	11.3		Material Moisture:	
Bottom Depth:	21.3		Material Texture:	
Material Color:	Grey		Non Geo Mat Type:	
Material 1:	Till		Geologic Formation:	
Material 2:	Silt - Sand - Gravel		Geologic Group:	
Material 3:	Silt		Geologic Period:	
Material 4:	Boulders		Depositional Gen:	glacial
Gsc Material Description:				
Stratum Description:	REWORKED ZONE, LOOSE, NET.MIX. OF SILT, SAND AND GRAVEL, TRACE OF SILT (GLACIAL TILL), GREY, COMPACT TO VERY DENSE, BOULDERY ZONE (BOULDERS UP TO 7in. IN SIZE) **Note: Many records provided by the department have a truncated [Stratum Description] field.			

Geology Stratum ID:	6559324		Mat Consistency:	
Top Depth:	0		Material Moisture:	
Bottom Depth:	.3		Material Texture:	
Material Color:			Non Geo Mat Type:	
Material 1:	Topsoil		Geologic Formation:	
Material 2:			Geologic Group:	
Material 3:			Geologic Period:	
Material 4:			Depositional Gen:	
Gsc Material Description:				
Stratum Description:	TOPSOIL **Note: Many records provided by the department have a truncated [Stratum Description] field.			

Geology Stratum ID:	6559325		Mat Consistency:	Stiff
Top Depth:	.3		Material Moisture:	
Bottom Depth:	11.3		Material Texture:	
Material Color:	Grey		Non Geo Mat Type:	
Material 1:	Clay		Geologic Formation:	
Material 2:	Silt		Geologic Group:	
Material 3:	Clay		Geologic Period:	
Material 4:	Sand		Depositional Gen:	
Gsc Material Description:				
Stratum Description:	DESICCATED ZONE, MOTTLED GREY AND BROWN, STIFF TO VERY STIFF, SILTY CLAY TO CLAY (SENSITIVE), TRACE OF SAND, GREY, FIRM TO STIFF.			

Geology Stratum ID:	6559327		Mat Consistency:	
Top Depth:	21.3		Material Moisture:	
Bottom Depth:	22.9		Material Texture:	
Material Color:			Non Geo Mat Type:	
Material 1:	Limestone		Geologic Formation:	
Material 2:	Bedrock		Geologic Group:	
Material 3:	Shale		Geologic Period:	
Material 4:			Depositional Gen:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Gsc Material Description:					
Stratum Description:		BEDROCK-LIMESTONE WITH SHALE INTERBEDS, SOUND **Note: Many records provided by the department have a truncated [Stratum Description] field.			

<u>7</u>	1 of 1	E/243.6	100.0 / 0.08	ON	BORE
Borehole ID:	848692			Inclin FLG:	No
OGF ID:	215590312			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	02-JUN-1992			Municipality:	
Static Water Level:				Lot:	ROAD
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.297709
Total Depth m:	3.7			Longitude DD:	-75.931561
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426960
Drill Method:	Power auger			Northing:	5016445
Orig Ground Elev m:	102			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	103				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	6561887			Mat Consistency:	Compact
Top Depth:	.1			Material Moisture:	
Bottom Depth:	2.6			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:	Gravel			Geologic Group:	
Material 3:	Silt			Geologic Period:	
Material 4:	cobble			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	COMPACT BROWN SAND AND GRAVEL TRACE SILT OCC COBBLES FILL **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	6561886			Mat Consistency:	Compact
Top Depth:	0			Material Moisture:	
Bottom Depth:	.1			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Topsoil			Geologic Formation:	
Material 2:	Roots			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BROWN TOPSOIL ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	6561888			Mat Consistency:	Compact
Top Depth:	2.6			Material Moisture:	
Bottom Depth:	3.7			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:	Gravel			Geologic Group:	
Material 3:	Silt			Geologic Period:	
Material 4:	cobble			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	COMPACT BROWN SAND AND GRAVEL TRACE SILT FREQUENT COBBLES AND BOULDERS FILL **Note:				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Many records provided by the department have a truncated [Stratum Description] field.

8	1 of 1	NNE/244.3	97.9 / -2.00	ON	BORE
Borehole ID:	847949			Inclin FLG:	No
OGF ID:	215589606			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	20-DEC-1971			Municipality:	
Static Water Level:	1.5			Lot:	ROAD
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.299286
Total Depth m:	12.8			Longitude DD:	-75.933525
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426808
Drill Method:	Diamond Drill			Northing:	5016622
Orig Ground Elev m:	97.7			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	98.7				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	6559353			Mat Consistency:	Dense
Top Depth:	0			Material Moisture:	
Bottom Depth:	1.5			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Fill			Geologic Formation:	
Material 2:	Clay			Geologic Group:	
Material 3:	Silt			Geologic Period:	
Material 4:	Boulders			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	FILL - SILTY CLAY WITH OCC. BOULDER. DENSE, BROWN **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Geology Stratum ID:	6559354			Mat Consistency:	Soft
Top Depth:	1.5			Material Moisture:	
Bottom Depth:	8.8			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	SILTY CLAY, SOFT TO STIFF, GREY **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Geology Stratum ID:	6559355			Mat Consistency:	Compact
Top Depth:	8.8			Material Moisture:	
Bottom Depth:	12.8			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Till			Geologic Formation:	
Material 2:	Silt - Sand - Gravel			Geologic Group:	
Material 3:	Clay			Geologic Period:	
Material 4:				Depositional Gen:	glacial
Gsc Material Description:					
Stratum Description:	HET.MIX.OF SILT, SAND AND GRAVEL, WITH SOME CLAY. GLACIAL TILL, COMPACT TO VERY DENSE, GREY **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 2	W/246.8	99.9 / 0.00	8555 CAMPEAU DRIVE, OTTAWA ON	PINC
Incident ID: Incident No: 1918874 Type: FS-Pipeline Incident Status Code: Pipeline Damage Reason Est Fuel Occurrence Tp: Fuel Type: Tank Status: RC Established Task No: 6279768 Spills Action Centre: Method Details: E-mail Fuel Category: Natural Gas Date of Occurrence: Occurrence Start Date: 2016/08/09 Operation Type: Pipeline Type: Regulator Type: Summary: 8555 CAMPEAU DRIVE, OTTAWA - PIPELINE HIT - 4" Reported By: Ryan Noble - ENBRIDGE Affiliation: Occurrence Desc: Damage Reason: Excavation practices not sufficient Notes:		Health Impact: Environment Impact: Property Damage: Yes Service Interrupt: Enforce Policy: Yes Public Relation: Pipeline System: Depth: Pipe Material: PSIG: Attribute Category: FS-Perform P-line Inc Invest Regulator Location:			
9	2 of 2	W/246.8	99.9 / 0.00	TIMMINS SQUARE LIMITED PARTNERSHIP 8555 CAMPEAU DR KANATA ON K2T 0K5	EASR
Approval No: R-009-2596290189 Status: REGISTERED Date: 2016-05-20 Record Type: EASR Link Source: MOFA Project Type: Water Taking - Construction Dewatering Full Address: Approval Type: EASR-Water Taking - Construction Dewatering Full PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2021887		SWP Area Name: Mississippi Valley MOE District: Ottawa Municipality: KANATA Latitude: 45.29888889 Longitude: -75.93527778 Geometry X: Geometry Y:			
10	1 of 16	SSE/249.9	100.9 / 1.00	Tony Graham Kanata Limited 600-2500 Palladium Dr Ottawa ON	CA
Certificate #: 1419-6ZBP57 Application Year: 2007 Issue Date: 4/4/2007 Approval Type: Industrial Sewage Works Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	2 of 16	SSE/249.9	100.9 / 1.00	Palladium Auto Park Ltd. 2500 Palladium Drive Ottawa ON	CA
Certificate #:		4120-5XPAC			
Application Year:		2003			
Issue Date:		7/31/2003			
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:					
10	3 of 16	SSE/249.9	100.9 / 1.00	Kanata Motors Corporation 2500 Palladium Dr Kanata Ottawa ON	CA
Certificate #:		4174-7UPJJF			
Application Year:		2009			
Issue Date:		8/7/2009			
Approval Type:		Air			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
10	4 of 16	SSE/249.9	100.9 / 1.00	Palladium Auto Park Ltd. 2500 Palladium Drive Ottawa ON	CA
Certificate #:		6496-5QVL2U			
Application Year:		2003			
Issue Date:		9/11/2003			
Approval Type:		Industrial Sewage Works			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
10	5 of 16	SSE/249.9	100.9 / 1.00	2500 PALLADIUM DRIVE KANATA ON	HINC
External File Num:		FS INC 0611-04178			
Fuel Occurrence Type:		Pipeline Strike			
Date of Occurrence:		11/10/2006			
Fuel Type Involved:		Natural Gas			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Status Desc:		Completed - Causal Analysis(End)			
Job Type Desc:		Incident/Near-Miss Occurrence (FS)			
Oper. Type Involved:		Commercial (e.g. restaurant, business unit, etc)			
Service Interruptions:		No			
Property Damage:		No			
Fuel Life Cycle Stage:		Utilization			
Root Cause:		Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training:No Management:No Human Factors:No			
Reported Details:					
Fuel Category:		Gaseous Fuel			
Occurrence Type:		Incident			
Affiliation:		Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
County Name:		Ottawa			
Approx. Quant. Rel:					
Nearby body of water:					
Enter Drainage Syst.:					
Approx. Quant. Unit:					
Environmental Impact:					

10	6 of 16	SSE/249.9	100.9 / 1.00	2500 PALLADIUM DRIVE RICHMOND ON	HINC
External File Num:		FS INC 0705-02213			
Fuel Occurrence Type:		Pipeline Strike			
Date of Occurrence:		4/19/2007			
Fuel Type Involved:		Natural Gas			
Status Desc:		Completed - Causal Analysis(End)			
Job Type Desc:		Incident/Near-Miss Occurrence (FS)			
Oper. Type Involved:		Construction Site (pipeline strike)			
Service Interruptions:		Yes			
Property Damage:		No			
Fuel Life Cycle Stage:		Transmission, Distribution and Transportation			
Root Cause:		Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training: Yes Management:No Human Factors:No			
Reported Details:					
Fuel Category:		Gaseous Fuel			
Occurrence Type:		Incident			
Affiliation:		Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
County Name:		Ottawa			
Approx. Quant. Rel:					
Nearby body of water:					
Enter Drainage Syst.:					
Approx. Quant. Unit:					
Environmental Impact:					

10	7 of 16	SSE/249.9	100.9 / 1.00	2500 Palladium Drive Unit 1200 Kanata ON	EHS
Order No:		20120626032		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Custom Report		Client Prov/State: ON	
Report Date:		04-JUL-12		Search Radius (km): .25	
Date Received:		26-JUN-12		X: -75.930614	
Previous Site Name:				Y: 45.292281	
Lot/Building Size:					
Additional Info Ordered:					

10	8 of 16	SSE/249.9	100.9 / 1.00	#200 - 2500 Palladium Drive Ottawa ON	SPL
Ref No:		0243-A8YJER		Discharger Report:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed: Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:	NA 2016/04/13 Leak/Break 15 MOTOR OIL Land No 2016/04/13 Equipment Failure Myers Chevrolet Kanata<UNOFFICIAL> Chevrolet Kanata 10 - 20 L of motor oil to grnd 20 L	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: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:	 Miscellaneous Industrial #200 - 2500 Palladium Drive Ottawa Land Spills		
10	9 of 16	SSE/249.9	100.9 / 1.00	Palladium Auto Park Ltd. 2500 Palladium Drive Ottawa ON K2A 1C5	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Address: Full Address: Full PDF Link:	6496-5QVL2U 2003-09-11 Approved ECA IDS Mississippi Valley ECA-INDUSTRIAL SEWAGE WORKS INDUSTRIAL SEWAGE WORKS 2500 Palladium Drive https://www.accessenvironment.ene.gov.on.ca/instruments/0978-5PWL7N-14.pdf	MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	Ottawa -75.9347 45.291000000000004 		
10	10 of 16	SSE/249.9	100.9 / 1.00	Zena Investment Corporation 2500 Palladium Dr Ottawa ON K2V 1E2	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Address: Full Address: Full PDF Link:	6046-96MLQ8 2013-04-30 Approved ECA IDS ECA-INDUSTRIAL SEWAGE WORKS INDUSTRIAL SEWAGE WORKS 2500 Palladium Dr https://www.accessenvironment.ene.gov.on.ca/instruments/8606-8Z4MYF-14.pdf	MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:			
10	11 of 16	SSE/249.9	100.9 / 1.00	Palladium Auto Park Ltd. 2500 Palladium Drive Ottawa ON K2A 1C5	ECA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p>Approval No: 6396-5PXPCK MOE District: Ottawa Approval Date: 2003-07-31 City: Status: Approved Longitude: -75.9347 Record Type: ECA Latitude: 45.291000000000004 Link Source: IDS Geometry X: SWP Area Name: Mississippi Valley Geometry Y: Approval Type: ECA-Municipal Drinking Water Systems Project Type: Municipal Drinking Water Systems Address: 2500 Palladium Drive Full Address: Full PDF Link:</p>					
10	12 of 16	SSE/249.9	100.9 / 1.00	Palladium Auto Park Ltd. 2500 Palladium Drive Ottawa ON K2A 1C5	ECA
<p>Approval No: 4120-5PXPAC MOE District: Ottawa Approval Date: 2003-07-31 City: Status: Approved Longitude: -75.9347 Record Type: ECA Latitude: 45.291000000000004 Link Source: IDS Geometry X: SWP Area Name: Mississippi Valley Geometry Y: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Address: 2500 Palladium Drive Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1450-5PWL3Q-14.pdf</p>					
10	13 of 16	SSE/249.9	100.9 / 1.00	Kanata Motors Corporation 2500 Palladium Dr Kanata Ottawa ON K2V 1E2	ECA
<p>Approval No: 4174-7UPJJF MOE District: Ottawa Approval Date: 2009-08-07 City: Status: Approved Longitude: -75.93187 Record Type: ECA Latitude: 45.29398 Link Source: IDS Geometry X: SWP Area Name: Mississippi Valley Geometry Y: Approval Type: ECA-AIR Project Type: AIR Address: 2500 Palladium Dr Kanata Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0866-7TQPXD-14.pdf</p>					
10	14 of 16	SSE/249.9	100.9 / 1.00	Tony Graham Kanata Limited 600-2500 Palladium Dr Ottawa ON K2G 1E3	ECA
<p>Approval No: 1419-6ZBP57 MOE District: Ottawa Approval Date: 2007-04-04 City: Status: Revoked and/or Replaced Longitude: -75.93187 Record Type: ECA Latitude: 45.29398 Link Source: IDS Geometry X: SWP Area Name: Mississippi Valley Geometry Y: Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Address: 600-2500 Palladium Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0790-6VYNF9-14.pdf</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	15 of 16	SSE/249.9	100.9 / 1.00	Tony Graham Motors Limited 2500 Palladium Dr Ottawa ON K2G 1E3	ECA
Approval No:	0685-ALTRRP			MOE District: Ottawa	
Approval Date:	2017-06-02			City:	
Status:	Approved			Longitude: -75.93187	
Record Type:	ECA			Latitude: 45.29398	
Link Source:	IDS			Geometry X:	
SWP Area Name:	Mississippi Valley			Geometry Y:	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS				
Project Type:	INDUSTRIAL SEWAGE WORKS				
Address:	2500 Palladium Dr				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5415-ACHQQT-14.pdf				

10	16 of 16	SSE/249.9	100.9 / 1.00	Zena Investment Corporation 2500 Palladium Dr Ottawa ON K2J 6H8	ECA
Approval No:	7040-AP7M89			MOE District:	
Approval Date:	2017-07-26			City:	
Status:	Approved			Longitude:	
Record Type:	ECA			Latitude:	
Link Source:	IDS			Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS				
Project Type:	INDUSTRIAL SEWAGE WORKS				
Address:	2500 Palladium Dr				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/3182-AJYJ4V-14.pdf				

Unplottable Summary

Total: **31** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Turpin Saturn SAAB Limited	Part of Front Half Lot 2, Concession 1, Huntley Township	Ottawa ON	
CA		Campeau Drive	Kanata ON	
CA	Vik One Holdings Ltd.	Part of Front Half Lot 2, Concession 1, Huntley Township	Ottawa ON	
CA	Frank Nighbor Place	Part of Lot 2, Concession 1	Kanata ON	
CA	Frank Nighbor Place	Part of Lot 2, Concession 1	Kanata ON	
CA	Frank Nighbour Place	Part of Lot 2, Concession 1	Kanata ON	
CA	GILPAUL INVESTMENTS LIMITED	CAMPEAU DR., BUSINESS DEPOT	KANATA CITY ON	
CA	BASUTA CORPORATION	PALLADIUM DR.,PT.LOT 1/C-2,SWM	KANATA CITY ON	
CA	Capital Two Investments Limited	Part of Front Half Lot 2, Concession 1, Huntley Township	Ottawa ON	
CA	GENSTAR DEVELOPMENT COMPANY- CAMPEAU DR.	CAMPEAU DR. EXTENSION PH. II	KANATA CITY ON	
CA	PALLADIUM CORPORATION	PT.LOT 2/CON.1,PALLADIUM DR.	KANATA CITY ON	
CA	PALLADIUM CORPORATION	PALLADIUM DR.,PT.LOT 2/CON.2	KANATA CITY ON	
CA	PALLADIUM CORPORATION	PT.LOT 2/CON.1,HUNTMAR RD. SWM	KANATA CITY ON	
CA	GENSTAR DEVELOPMENT COMPANY - CAMPEAU DR	CAMPEAU DR.EXTENSION PH. II	KANATA CITY ON	
CA	CAMPEAU CORPORATION	CAMPEAU DR.	KANATA CITY ON	
CA	TERRACE INVESTMENTS LTD.- PT.LOT 2/CONC.I	HUNTMAR RD./STM-WATER DET.POND	KANATA CITY ON	
CA	Turpin Pontiac Buick Limited	Part of Front Half Lot 2, Concession 1, Huntley Township	Ottawa ON	
CA	CAMPEAU CORPORATION EASEMENT	CAMPEAU DR. CLUSTER 2	KANATA CITY ON	

ECA	City of Ottawa	Campeau Dr	Ottawa ON	K2G 6J8
EHS		Hwy 417	Ottawa ON	
GEN	R.W Tomlinson	LRT Central Site Hwy 417 Widening	ottawa ON	K1G 3N4
GEN	R.W Tomlinson	LRT Central Site Hwy 417 Widening	ottawa ON	K1G 3N4
HINC		HUNTMAR RD.	KANATA ON	
PTTW	Ducks Unlimited Canada	Lots 3 - 5, Concession 1, geographical Township of Goulbourn Ottawa	ON	
SPL	City of Ottawa	Highway 417	Ottawa ON	
SPL	UNKNOWN	BLAIR STATION AND QUEENSWAY	OTTAWA CITY ON	
SPL	TRANSPORT TRUCK	QUEENSWAY MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON	
SPL		Hwy 417 -Median Ditch close to onramp 88 (hwy 33) to Vars	Ottawa ON	
SPL	CONSOLIDATED FREIGHTWAYS	ALONG THE 417 TRANSPORT TRUCK (CARGO)	OTTAWA CITY ON	
SPL		QUEENSWAY EASTBOUND AT METCALFE \	OTTAWA CITY ON	
SPL	Loblaws Company East<UNOFFICIAL>	Queensway, from Greenbank Exit to 1735 Iris Road (Pine Crest Shopping Centre - in front of IKEA)<UNOFFICIAL>	Ottawa ON	

Unplottable Report

Site: *Turpin Saturn SAAB Limited*
Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON

Database:
CA

Certificate #: 4053-6PEQTF
Application Year: 2006
Issue Date: 5/25/2006
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Campeau Drive Kanata ON*

Database:
CA

Certificate #: 1087-4SZRC5
Application Year: 01
Issue Date: 1/15/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: OTTAWA
Client Postal Code: K1G 2H5
Project Description: Construction of a watermain on Campeau Drive for the Village Green Subdivision
Contaminants:
Emission Control:

Site: *Vik One Holdings Ltd.*
Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON

Database:
CA

Certificate #: 0160-6PGP6M
Application Year: 2006
Issue Date: 5/25/2006
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Frank Nighbor Place*
Part of Lot 2, Concession 1 Kanata ON

Database:
CA

Certificate #: 0510-4RHLJZ
Application Year: 00

Issue Date: 11/30/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: 764703 Ontario Inc.
Client Address: 200 Catherine Street, Suite 600
Client City: Ottawa
Client Postal Code: K2P 2K9
Project Description: This is an application for a Municipal and Private Water Certificate of Approval to construct a watermain.
Contaminants:
Emission Control:

Site: *Frank Nighbor Place
Part of Lot 2, Concession 1 Kanata ON*

Database:
CA

Certificate #: 3188-4RHKSU
Application Year: 00
Issue Date: 11/30/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 764703 Ontario Inc.
Client Address: 200 Catherine Street, Suite 600
Client City: Ottawa
Client Postal Code: K2P 2K9
Project Description: This is an application for a Municipal and Private Sewage Certificate of Approval to construct a sanitary sewer.
Contaminants:
Emission Control:

Site: *Frank Nighbour Place
Part of Lot 2, Concession 1 Kanata ON*

Database:
CA

Certificate #: 1843-4RQKAX
Application Year: 00
Issue Date: 12/8/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 764703 Ontario Inc.
Client Address: 200 Catherine Street, Suite 600
Client City: Ottawa
Client Postal Code: K2P 2K9
Project Description: Storm sewer construction from the existing manhole at the cul-de-sac of Frank Nighbor to approximately 103m South of the proposed cul-de-sac.
Contaminants:
Emission Control:

Site: *GILPAUL INVESTMENTS LIMITED
CAMPEAU DR., BUSINESS DEPOT KANATA CITY ON*

Database:
CA

Certificate #: 3-1224-96-
Application Year: 96
Issue Date: 11/14/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **BASUTA CORPORATION**
PALLADIUM DR.,PT.LOT 1/C-2,SWM KANATA CITY ON

Database:
CA

Certificate #: 3-0791-96-
Application Year: 96
Issue Date: 7/26/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Capital Two Investments Limited**
Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON

Database:
CA

Certificate #: 3546-6VJSN7
Application Year: 2006
Issue Date: 11/21/2006
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **GENSTAR DEVELOPMENT COMPANY- CAMPEAU DR.**
CAMPEAU DR. EXTENSION PH. II KANATA CITY ON

Database:
CA

Certificate #: 3-1494-90-
Application Year: 90
Issue Date: 8/9/1990
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **PALLADIUM CORPORATION**
PT.LOT 2/CON.1,PALLADIUM DR. KANATA CITY ON

Database:
CA

Certificate #: 3-1307-94-
Application Year: 94
Issue Date: 10/19/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Project Description:
Contaminants:
Emission Control:

Site: PALLADIUM CORPORATION
PALLADIUM DR.,PT.LOT 2/CON.2 KANATA CITY ON

Database:
CA

Certificate #: 3-1262-94-
Application Year: 94
Issue Date: 10/13/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: PALLADIUM CORPORATION
PT.LOT 2/CON.1,HUNTMAR RD. SWM KANATA CITY ON

Database:
CA

Certificate #: 3-0330-94-
Application Year: 94
Issue Date: 4/29/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: GENSTAR DEVELOPMENT COMPANY - CAMPEAU DR
CAMPEAU DR.EXTENSION PH. II KANATA CITY ON

Database:
CA

Certificate #: 7-1213-90-
Application Year: 90
Issue Date: 8/9/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: CAMPEAU CORPORATION
CAMPEAU DR. KANATA CITY ON

Database:
CA

Certificate #: 7-0016-88-
Application Year: 88
Issue Date: 1/21/1988
Approval Type: Municipal water
Status: Approved

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

Site: **TERRACE INVESTMENTS LTD.-PT.LOT 2/CONC.I**
HUNTMAR RD./STM-WATER DET.POND KANATA CITY ON

Database:
CA

Certificate #: 3-0503-92-
Application Year: 92
Issue Date: 6/22/1992
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Turpin Pontiac Buick Limited**
Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON

Database:
CA

Certificate #: 9453-6PWQHH
Application Year: 2006
Issue Date: 6/23/2006
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **CAMPEAU CORPORATION EASEMENT**
CAMPEAU DR. CLUSTER 2 KANATA CITY ON

Database:
CA

Certificate #: 3-0332-89-
Application Year: 89
Issue Date: 3/10/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **City of Ottawa**
Campeau Dr Ottawa ON K2G 6J8

Database:
ECA

Approval No: 0311-BFFQWB
Approval Date: 2019-10-10
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Campeau Dr
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/4754-BFAS8F-14.pdf>

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

Site: Hwy 417 Ottawa ON

Database:
EHS

Order No: 20120509053
Status: C
Report Type: Custom Report
Report Date: 5/16/2012
Date Received: 5/9/2012
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.670099
Y: 1

Site: R.W Tomlinson
LRT Central Site Hwy 417 Widening ottawa ON K1G 3N4

Database:
GEN

Generator No: ON9834153
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 237310
SIC Description: HIGHWAY, STREET AND BRIDGE CONSTRUCTION

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: mark peralta
Phone No Admin: 6138221867 Ext.

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Site: R.W Tomlinson
LRT Central Site Hwy 417 Widening ottawa ON K1G 3N4

Database:
GEN

Generator No: ON9834153
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 237310
SIC Description: HIGHWAY, STREET AND BRIDGE CONSTRUCTION

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: mark peralta
Phone No Admin: 6138221867 Ext.

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Site: HUNTMAR RD. KANATA ON

Database:
HINC

External File Num: FS INC 0712-07659
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 12/10/2007
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Construction Site (pipeline strike)
Service Interruptions: No
Property Damage: Yes
Fuel Life Cycle Stage: Transmission, Distribution and Transportation
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training:Yes Management:Yes Human Factors:Yes

Reported Details:

Fuel Category: Gaseous Fuel
Occurrence Type: Incident
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name: Ottawa
Approx. Quant. Rel:
Nearby body of water:
Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

Site: Ducks Unlimited Canada
Lots 3 - 5, Concession 1, geographical Township of Goulbourn Ottawa ON

Database:
PTTW

EBR Registry No:	IA05E0735	Decision Posted:	
Ministry Ref No:	ER-0625-6C3MFK	Exception Posted:	
Notice Type:	Instrument Decision	Section:	
Notice Stage:		Act 1:	
Notice Date:	July 20, 2005	Act 2:	
Proposal Date:	May 06, 2005	Site Location Map:	
Year:	2005		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			
Posted By:			
Company Name:	Ducks Unlimited Canada		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	Kingston Division, 1-614 Norris Court, Kingston Ontario, Canada K7P 2R9		
Comment Period:			
URL:			

Site Location Details:

Lots 3 - 5, Concession 1, geographical Township of Goulbourn Ottawa

Site: City of Ottawa
Highway 417 Ottawa ON

Database:
SPL

Ref No:	3043-7QMTYH	Discharger Report:	
Site No:		Material Group:	
Incident Dt:		Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	Pipe Or Hose Leak	Sector Type:	Other
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	

Contaminant Name: ENGINE OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Other Impact(s)
Receiving Medium:
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/30/2009
Dt Document Closed:
Incident Reason: Unknown - Reason not determined
Site Name: EB Merge Lane Hwy 417 & Eagleson Road
Site County/District:
Site Geo Ref Meth:
Incident Summary: OC Transpo: 10L engine oil to grnd on Hwy 417
Contaminant Qty: 10 L

Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing: NA
Easting: NA
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Primary Assessment of Incident
Source Type:

Site: UNKNOWN
 BLAIR STATION AND QUEENSWAY OTTAWA CITY ON

Database:
 SPL

Ref No: 239018
Site No:
Incident Dt: 9/11/2002
Year:
Incident Cause: UNKNOWN
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: LAND, WATER
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/11/2002
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SOURCE UNK: UNK VOLUME OF ANTIFREEZE IN THE STORMSEWER, CLEANING
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: 20107
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: TRANSPORT TRUCK
 QUEENSWAY MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database:
 SPL

Ref No: 224201
Site No:
Incident Dt: 4/19/2002
Year:
Incident Cause: OTHER TRANSPORTATION ACCIDENT
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: CONFIRMED
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved: OPP-KANATA; MTO
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20107
Site Lot:
Site Conc:
Northing:
Easting:

Dt MOE Arvl on Scn:
MOE Reported Dt: 4/19/2002
Dt Document Closed:
Incident Reason: ERROR
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

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

LOBLAWS: 450L DIESEL FROMTRUCK TO ROAD ONLY; OPP; MTO.

Site: Hwy 417 -Median Ditch close to onramp 88 (hwy 33) to Vars Ottawa ON

Database:
SPL

Ref No: 0306-AHHD7Z
Site No: NA
Incident Dt: 1/10/2017
Year:
Incident Cause:
Incident Event: Leak/Break
Contaminant Code: 15
Contaminant Name: MOTOR OIL

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Other
Agency Involved:
Nearest Watercourse:
Site Address: Hwy 417 -Median Ditch close to onramp 88 (hwy 33) to Vars

Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env: Land

Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:

MOE Response: No
Dt MOE Arvl on Scn:
MOE Reported Dt: 1/11/2017
Dt Document Closed:
Incident Reason: Unknown / N/A
Site Name: TT accident <UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Small fuel delivery truck to ditch - cleaned
Contaminant Qty: 0 other - see incident description

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

Site: CONSOLIDATED FREIGHTWAYS
ALONG THE 417 TRANSPORT TRUCK (CARGO) OTTAWA CITY ON

Database:
SPL

Ref No: 35498
Site No:
Incident Dt: 5/29/1990
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/30/1990
Dt Document Closed:
Incident Reason: MATERIAL FAILURE
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: CONSOLIDATED FREIGHT-15 LGLUE TO HIGHWAY BETWEEN MONTREAL AND OTTAWA

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: CANUTEC,OPP
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Contaminant Qty:

Site: QUEENSWAY EASTBOUND AT METCALFE \ OTTAWA CITY ON **Database:** SPL

Ref No: 162583 **Discharger Report:**
Site No: **Material Group:**
Incident Dt: 12/2/1998 **Health/Env Conseq:**
Year: **Client Type:**
Incident Cause: **Sector Type:**
Incident Event: **Agency Involved:**
Contaminant Code: **Nearest Watercourse:**
Contaminant Name: **Site Address:**
Contaminant Limit 1: **Site District Office:**
Contam Limit Freq 1: **Site Postal Code:**
Contaminant UN No 1: **Site Region:**
Environment Impact: **Site Municipality:** 20101
Nature of Impact: **Site Lot:**
Receiving Medium: LAND / WATER **Site Conc:**
Receiving Env: **Northing:**
MOE Response: **Easting:**
Dt MOE Arvl on Scn: **Site Geo Ref Accu:**
MOE Reported Dt: 12/2/1998 **Site Map Datum:**
Dt Document Closed: **SAC Action Class:**
Incident Reason: **Source Type:**
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

Site: Loblaws Company East<UNOFFICIAL> **Database:** SPL
Queensway, from Greenbank Exit to 1735 Iris Road (Pine Crest Shopping Centre - in front of IKEA)<UNOFFICIAL>
Ottawa ON

Ref No: 6833-6H4GWP **Discharger Report:** 0
Site No: **Material Group:** Oil
Incident Dt: 10/12/2005 **Health/Env Conseq:**
Year: **Client Type:**
Incident Cause: Pipe Or Hose Leak **Sector Type:** Other Motor Vehicle
Incident Event: **Agency Involved:**
Contaminant Code: **Nearest Watercourse:**
Contaminant Name: DIESEL FUEL **Site Address:**
Contaminant Limit 1: **Site District Office:** Ottawa
Contam Limit Freq 1: **Site Postal Code:**
Contaminant UN No 1: **Site Region:**
Environment Impact: Not Anticipated **Site Municipality:** Ottawa
Nature of Impact: **Site Lot:**
Receiving Medium: Land **Site Conc:**
Receiving Env: **Northing:**
MOE Response: **Easting:**
Dt MOE Arvl on Scn: **Site Geo Ref Accu:**
MOE Reported Dt: 10/12/2005 **Site Map Datum:**
Dt Document Closed: **SAC Action Class:** Land Spills
Incident Reason: Unknown - Reason not determined **Source Type:**
Site Name: Queensway, from Greenbank Exit to 1735 Iris Road
Site County/District:
Site Geo Ref Meth:
Incident Summary: Loblaws: 10 to 15 L diesel to road/parking lot
Contaminant Qty:

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

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

Government Publication Date: Up to 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 - Nov 2019

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-Feb 29, 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-Feb 29, 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.

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 is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 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-Aug 31, 2019

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-Feb 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-Feb 29, 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

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Environmental Engineer

EDUCATION

Dalhousie University
B.Eng., Environmental Engineering (Co-op), 2007
Saint Mary's University
Dip.Eng., Environmental Engineering, 2004

MEMBERSHIPS & AWARDS

Professional Engineers of Ontario (P.Eng.)

EXPERIENCE

2020 – Present

Paterson Group Inc.
Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2007– 2017

Dillon Consulting Limited
Geoscience Practice
Environmental Engineer

2006

Dillon Consulting Limited
Site Contaminant Management Practice
Environmental Engineering Student

2006

Public Works and Government Services Canada
Sustainable Development Initiatives, Office of Greening Government Operations
Environmental Engineering Student

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – Residential and Commercial Sites – Ottawa (CSA Z768-01 and O.Reg. 269/11)
Soil and Groundwater Management Programs at over 90 Oil and Gas Sites – Various locations in New Brunswick and Nova Scotia
Environmental Site Assessments – Residential Sites, 5CDSB Gagetown, NB
Phase I Environmental Site Assessments – Commercial Sites, NB
LNAPL Mobility Assessments – Marine Terminal and 2 Bulk Plants in NB
Fisheries and Oceans Canada Contaminated Sites Program – NB and PE
CBSA Potable Water Monitoring Program – New Brunswick
Remediation – Argentia, Newfoundland

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