

Phase I Environmental Site Assessment

333 Huntmar Drive -

Vacant Land at Palladium Drive and Campeau Drive
Ottawa, Ontario

Prepared for RioCan Holdings (TJV) Inc.
c/o Chick-Fil-A Canada ULC

Report: PE5974-1
February 8, 2023



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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by RioCan Holdings (TJV) Inc. to conduct a Phase I Environmental Site Assessment (ESA) for the property addressed as 333 Huntmar Drive, located southeast of the intersection of Palladium Drive and Campeau Drive, in the City of Ottawa, Ontario (the Phase I Property). The purpose of this Phase I ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I ESA Property.

According to the historical research, the Phase I ESA Property has never been developed. It was previously part of the Palladium Drive right-of-way and was historically used for agricultural purposes. The surrounding lands have been developed for commercial use.

Following the historical research, a site visit was conducted. The Phase I ESA Property is vacant and was snow-covered at the time of the site visit. No concerns were identified with respect to the Phase I ESA Property. No off-site PCAs that would result in APECs on-site were identified during the site visit.

Based on our findings during this assessment, **it is our opinion that a Phase II Environmental Site Assessment is not required for the subject property.**

Recommendations

It is our understanding that the Phase I Property will be developed with a drive-through restaurant. Please note that excess soils generated during its construction must be managed according to O.Reg. 406/19: On-site and Excess Soil Management. Further information regarding this regulation can be provided upon request.

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1.0 INTRODUCTION

At the request of RioCan Holdings (TJV) Inc., Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for a portion of 333 Huntmar Drive in the City of Ottawa, Ontario, herein referred to as the Phase I Property. The purpose of this Phase I ESA was to research the past and current use of the Phase I ESA Property and properties within the Phase I Study Area to identify any potentially contaminating activities (PCAs) that would result in areas of potential environmental concern (APECs) on the Phase I Property.

Paterson was engaged to conduct this Phase I ESA by Matthew Vihant of RioCan REIT (2300 Yonge Street, Suite 500, Box 2386, Toronto, ON M4P 1E4; Tel.: 437-324-8421).

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

This Phase I ESA report has been prepared under the supervision of a Qualified Person, in general accordance with Ontario Regulation (O.Reg.) 153/04, as amended under the Environmental Protection Act, and CSA Z768-01 (reaffirmed 2022). The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I ESA are based on a review of readily available geological, historical, and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial, and federal agencies and was limited within the scope-of-work, time, and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address:	333 Huntmar Drive, Ottawa, Ontario
Legal Description:	Part 4, Huntley, Part 1 on Plan 4R-30499; Geographic Township of Huntley, City of Ottawa (see Appendix 1).
Location:	The site is located on the eastern side of Palladium Drive just south of the intersection with Campeau Drive in the Kanata area of the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.
PIN:	04508-0032
Latitude and Longitude:	45°17'47.33" N, 75°56'26.64" W
Site Description:	
Configuration:	Irregular
Area:	0.26 ha (approximately)
Zoning:	MC[2598] H(18) - Mixed-Use Centre Zone
Current Use:	The Phase I ESA Property is currently vacant land.
Services:	Although the Phase I ESA Property is not currently serviced, it is in a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

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

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- Investigate the existing conditions present at the Phase I ESA Property and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the Phase I ESA Property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements O.Reg. 153/04 as amended under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01 (reaffirmed 2022);
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I ESA Study Area Determination

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

First Developed Use Determination

Based on a review of available information, the Phase I Property has never been developed. It was previously part of the Palladium Drive right-of-way (the roadway was removed circa 2016) and was historically used for agricultural purposes.

Chain of Title

A chain of title was not requested for the Phase I Property as it was deemed that sufficient information could be gathered from other sources.

Previous Environmental Reports

No previous reports specific to the Phase I Property were available for review. However, several Phase I ESA reports prepared for the general area of the Phase I Property were reviewed as part of this assessment and relevant information has been included, as appropriate.

Plan of Survey

Plan 4R-30499, dated August 11, 2017, was reviewed and is available in Appendix 1. It is our understanding that RioCan Holdings (TJV) Inc. has engaged Stantec Geomatics Ltd. to complete a site topographic survey and updated R-Plan.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on January 18, 2023. No records were found in the NPRI database for properties within the Phase I Study Area. The ERIS report, discussed further below, did not identify any NPRI records for the Phase I ESA Property or the Phase I Study Area. A copy of the ERIS report is provided in Appendix 2.

PCB Inventory

A search of provincial PCB waste storage sites was conducted. No PCB waste storage sites were reported within the Phase I Study Area. In addition, no PCB waste storage sites were identified in the ERIS report, which is provided in Appendix 2.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study Area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on January 18, 2023. Feedmill Creek and wetlands were depicted along the southern boundary of the Phase I Study Area but are not considered regionally or provincially significant.

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

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to reports related to environmental conditions for the Phase I Property. The MECP's response indicated that they have no records pertaining to the Phase I Property. The response is provided in Appendix 2.

MECP Instruments

The MECP Access Environment website was accessed on January 20, 2023, to search for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments. No environmental approvals or registrations were listed for the Phase I Property. Three environmental compliance approvals (municipal and private sewage works) and 2 permits to take water associated with the local commercial/retail developments were identified in the Phase I Study Area.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records as a part of this assessment. The MECP's response indicated that they have no records pertaining to the Phase I Property. The response is provided in Appendix 2.

MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants, or inspections maintained by the MECP as a part of this assessment. The MECP's response indicated that they have no records pertaining to the Phase I Property. The response is provided in Appendix 2.

MECP Brownfields Environmental Site Registry (ESR)

A search of the MECP Brownfields Environmental Site Registry was conducted for the Phase I ESA Property and neighbouring properties within the Phase I Study Area. No Records of Site Condition (RSCs) were filed for the Phase I ESA Property or for properties within the Phase I Study Area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial

manufactured gas plants, and coal tar distillation plants in the Province of Ontario. There were no current or former waste disposal sites listed within 250 m of the Phase I ESA Property.

MECP Coal Gasification Plant Inventory

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

Environmental Risk Information Services (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I ESA Property and properties within the 250 m study area. According to the ERIS report, there are 4 records related to ECAs for municipal and private sewage works and one Permit to Take Water associated with the Phase I Property. These are likely associated with the larger 333 Huntmar Drive property (i.e., Tanger Outlets development) and are not directly related to the Phase I Property. These records are not a concern with respect to the environmental condition of the Phase I Property. Three geotechnical borehole logs and three well records (including two abandonment records) were identified for properties within the Phase I study area. A copy of the ERIS report is included in Appendix 2.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto, was contacted on January 18, 2023, to inquire about current and former underground storage tanks, spills, and incidents for the site and neighbouring properties. No TSSA records were identified for the Phase I ESA Property or the adjacent properties by the TSSA or in the ERIS report. A copy of the TSSA correspondence and ERIS report are provided in Appendix 2.

City of Ottawa Historical Land Use Inventory (HLUI)

A search request for the City of Ottawa's Historical Land Use Inventory (HLUI 2005) database was requested as part of this assessment. The response from the City indicated that there are no historical land uses of concern on the Phase I Property or within the Phase I Study Area. A copy of the HLUI Response is provided 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. Based on the review, the following observations have been made:

- | | |
|------|--|
| 1947 | The Phase I Property and surrounding areas are being used for agricultural purposes and/or are undeveloped. |
| 1959 | No significant changes are apparent on the Phase I Property or in the study area. |
| 1976 | No significant changes are apparent on the Phase I Property or in the study area. |
| 1991 | There are no apparent changes on the Phase I ESA Property. The TransCanada Highway is visible to the south. Some construction/initial development is visible to the northwest of the Phase I Property. No other changes are apparent. |
| 2002 | Huntmar Drive has been connected to Palladium Drive and the Phase I Property falls within the right-of-way for the road. No other significant development has occurred. |
| 2011 | No significant changes are apparent on the Phase I Property or in the study area. |
| 2021 | Palladium Drive has been realigned and the Phase I Property is vacant and grassed. Significant commercial development has occurred within the study area, including the construction of Tangers Outlets immediately east, office space, a hotel, restaurants, and other retail businesses. |

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

Physiographic Maps

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication, the Phase I ESA Property is situated within the Ottawa Clay Plain physiographic region.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the Phase I Property slopes down in a north-easterly direction toward the Carp River. Locally, the topography slopes down to the east toward Feedmill Creek. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the Phase I Property is reported to consist of interbedded limestone and shale of the Verulam Formation, while the surficial geology reportedly consists of offshore marine sediments including marine deposits, clay, and silt, with a drift thickness ranging from 5 to 15 m.

Water Well Records

A well record search was conducted on January 20, 2023, for all drilled wells within 250 m of the Phase I Property. No well records were identified on the Phase I Property. The search returned 4 well records: one for a domestic supply well and a well abandonment record that actually appear to be outside the Phase I Study Area; one well abandonment record; and one record from 2021 containing no details. As noted previously, the ERIS report identified 3 well records, including 2 abandonment records, one of which is associated with a domestic well installed in November 2002.

The general stratigraphy in the area of the Phase I Property, based on the identified well records, consisted of a layer of topsoil overlying sandy, silty clay. Limestone bedrock was encountered between 1 and 12 metres below ground surface. Some sandstone was also noted on one of the logs. A copy of the well records has been included in Appendix 2.

Water Bodies

Feedmill Creek and its surrounding wetlands were identified south of the Phase I Property, near the boundary of the Phase I Study Area.

5.0 INTERVIEWS

Mr. Stuart Craig, Vice-President, Development, at RioCan REIT was interviewed via email on January 27, 2023. He indicated that the Phase I Property was acquired from the Ministry of Transportation, as-is, and has no knowledge of any actual environmental concerns associated with the Phase I Property or the surrounding properties.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on January 27, 2023, by personnel from Paterson's Environmental Department. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit from publicly accessible areas.

6.2 Specific Observations at the Phase I Property

Buildings and Structures

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

Site Features

The Phase I ESA Property is a vacant, grassed area adjacent to the parking lot associated with the outlet mall. The site is at a higher elevation than the adjacent parking lot and slopes down to the east and south; regional topography generally slopes gently down in a south-easterly direction.

The Phase I Property was snow-covered at the time of the site visit and was being used as a snow storage area. No evidence of current or former railway or spur lines was observed on the Phase I ESA Property at the time of the site visit. No staining or distressed vegetation was observed on-site at this time.

Subsurface Services and Utilities

The Phase I ESA Property is situated in a municipally serviced area. All utilities are underground.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the subject site is as follows:

- North: Private driveway and vacant land, followed by Campeau Drive and commercial land use beyond;
- South: Commercial land, followed by Feedmill Creek and Highway 417;
- East: Commercial (outlet mall); and
- West: Palladium Drive, followed by commercial (retail).

Land use within the Phase I Study Area (250 m radius) is primarily commercial though some areas are zoned for industrial use. No APECs were identified on the Phase I ESA Property. No off-site PCAs were identified at the time of the site visit. Surrounding land use is shown on Drawing PE5974-2 – Surrounding Land Use Plan.

Several monitoring wells were observed on the vacant land north of the Phase I Property. Based on a development application available from the City of Ottawa's website, these monitoring wells are associated with geotechnical testing conducted on that site in 2020 on behalf of Suncor Energy Products Partnership.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The Phase I ESA Property has never been developed. It was previously part of the Palladium Drive right-of-way and was historically used for agricultural purposes.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No PCAs or resulting APECs were identified during this assessment. Adjacent land use is shown on Drawing PE5974-2 – Surrounding Land Use Plan.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

According to the Geological Survey of Canada website, the bedrock in the area of the Phase I ESA Property is reported to consist of interbedded limestone and shale of the Verulam Formation, while the surficial geology reportedly consists of

offshore marine sediments including marine deposits, clay, and silt, with a drift thickness ranging from 5 to 15 m. This is generally consistent with what was noted in the identified well records for domestic wells in the area.

Fill Placement

Engineered fill is expected on the Phase I Property in relation to the construction and former location of Palladium Drive. No other evidence of fill placement has been identified.

Areas of Natural Significance

No areas of natural significance were identified in the Phase I Study Area.

Water Bodies

Feedmill Creek and its associated wetlands were identified south of the Phase I Property, near the boundary of the Phase I Study Area.

Drinking Water Wells

No well records were identified on the Phase I Property. There are no domestic supply wells present in the Phase I Study Area; the Phase I Study Area is provided with municipal drinking water.

Existing Buildings and Structures

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

Subsurface Structures and Utilities

No subsurface structures or utilities were identified on the Phase I ESA Property.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of primarily commercial use and undeveloped land.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No PCAs or APECs were identified during this Phase I ESA.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are no PCAs that have resulted in APECs on the Phase I ESA Property.

A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

8.1 Assessment

Paterson Group was retained by RioCan Holdings (TJV) Inc. to conduct a Phase I Environmental Site Assessment (ESA) for a portion of the property located at 333 Huntmar Drive in the City of Ottawa, Ontario (the Phase I Property). The purpose of this Phase I ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I ESA Property.

According to the historical research, the Phase I ESA Property has never been developed. It was previously part of the Palladium Drive right-of-way and was historically used for agricultural purposes. The surrounding lands have been developed for commercial use.

Following the historical research, a site visit was conducted. The Phase I ESA Property is vacant and was snow-covered at the time of the site visit. No concerns were identified with respect to the Phase I ESA Property. No off-site PCAs that would result in APECs on-site were identified during the site visit.

Based on our findings of the assessment, **it is our opinion that a Phase II Environmental Site Assessment is not required for the subject property.**

8.2 Recommendations

It is our understanding that the Phase I Property will be developed with a drive-through restaurant. Please note that excess soils generated during its construction must be managed according to O.Reg. 406/19: On-site and Excess Soil Management. Further information regarding this regulation can be provided upon request.

9.0 STATEMENT OF LIMITATIONS

This Phase I Environmental Site Assessment report has been prepared under the supervision of a Qualified Person, in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01 (reaffirmed 2022). The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I ESA are based on a review of readily available geological, historical, and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial, and federal agencies and was limited within the scope-of-work, time, and budget of the project herein.

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

This report was prepared for the sole use of RioCan Holdings (TJV) Inc. Permission and notification from RioCan Holdings (TJV) Inc. and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Kelly Martinell, P.Eng.



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



Report Distribution:

- RioCan Holdings (TJV) Inc.
- Paterson Group

10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.

National Archives.

Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).

Natural Resources Canada – The Atlas of Canada.

Environment Canada, National Pollutant Release Inventory.

PCB Waste Storage Site Inventory.

Provincial Records

MECP Freedom of Information and Privacy Office.

MECP Municipal Coal Gasification Plant Site Inventory, 1991.

MECP document titled “Waste Disposal Site Inventory in Ontario”.

MECP Brownfields Environmental Site Registry.

Office of Technical Standards and Safety Authority, Fuels Safety Branch.

MNR Areas of Natural Significance.

MECP Water Well Record Inventory.

Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.

Intra Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.

geoOttawa: City of Ottawa electronic mapping website.

City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.

Google Maps/Street View.

Private Information Sources

ERIS Report

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE5974-1 – SITE PLAN

DRAWING PE5974-2 – SURROUNDING LAND USE PLAN

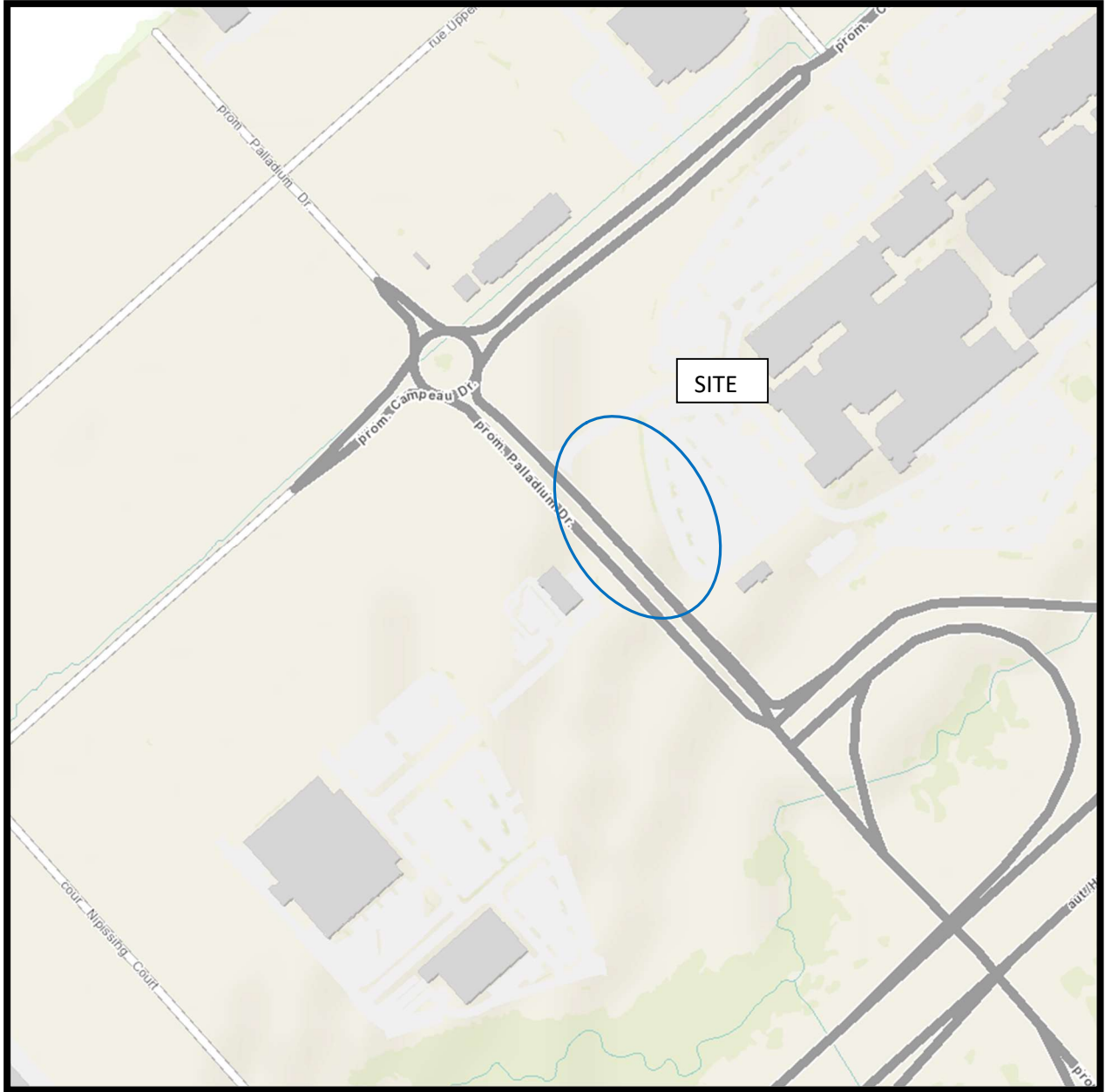


FIGURE 1
KEY PLAN

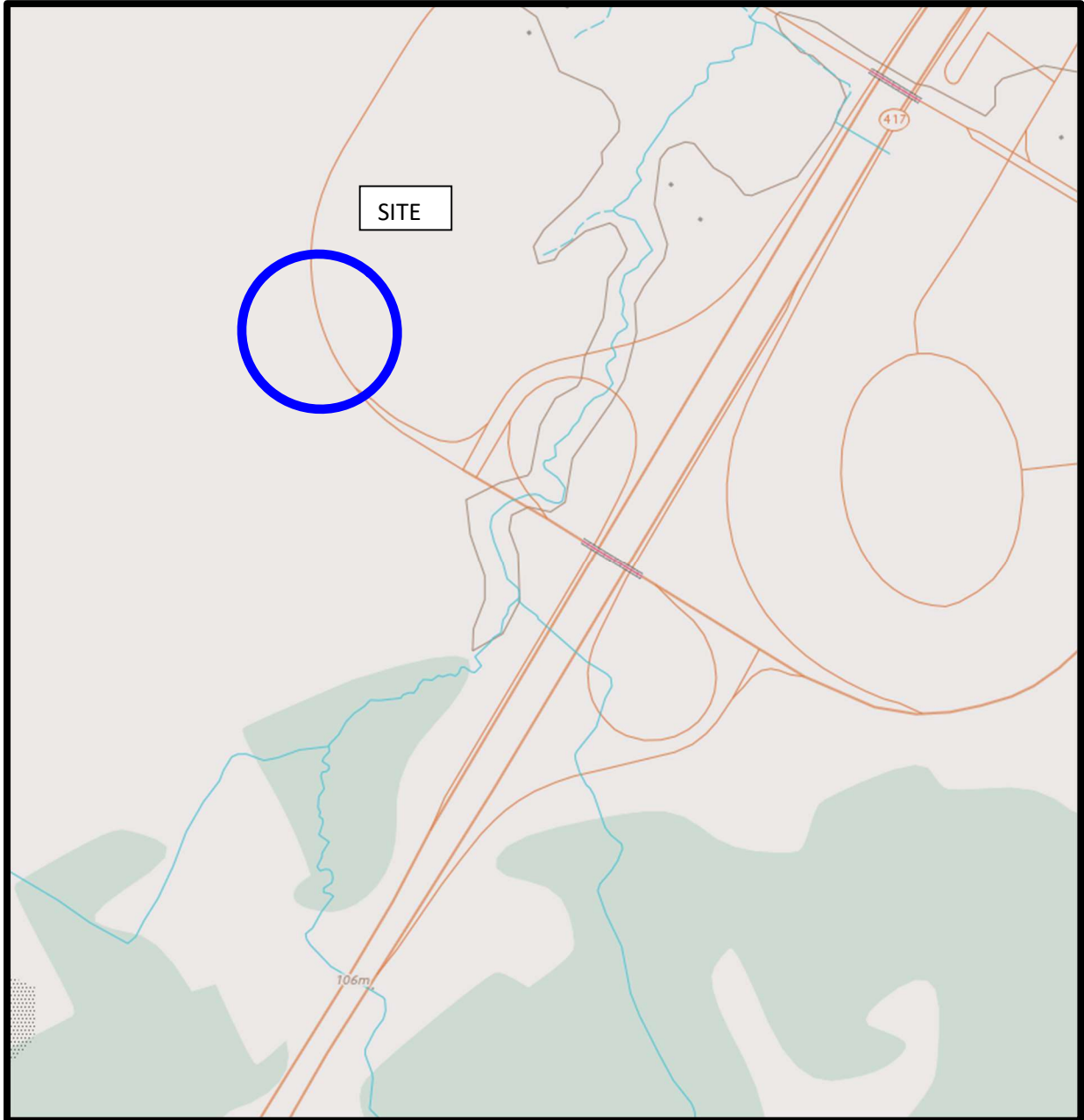
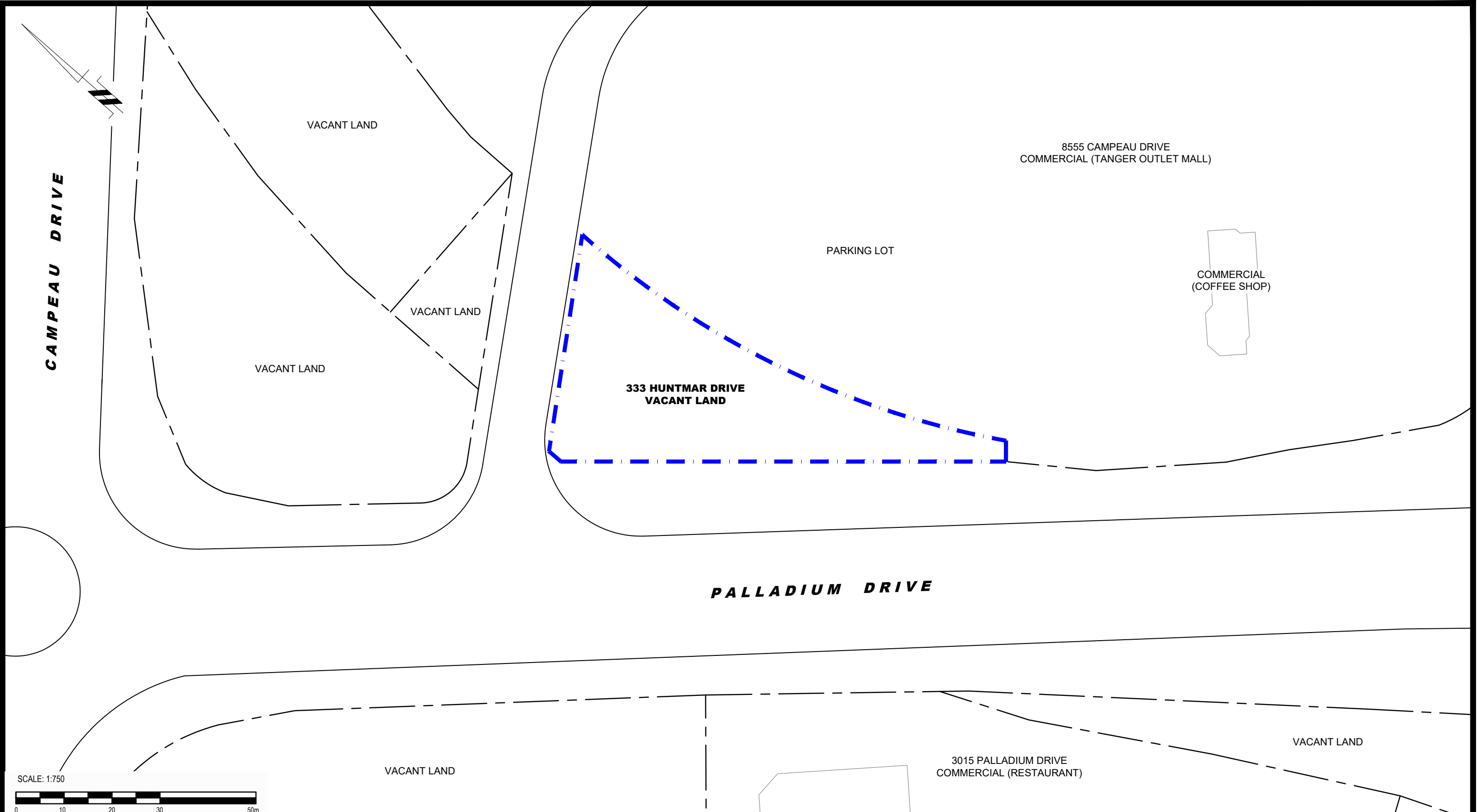


FIGURE 2
TOPOGRAPHIC MAP



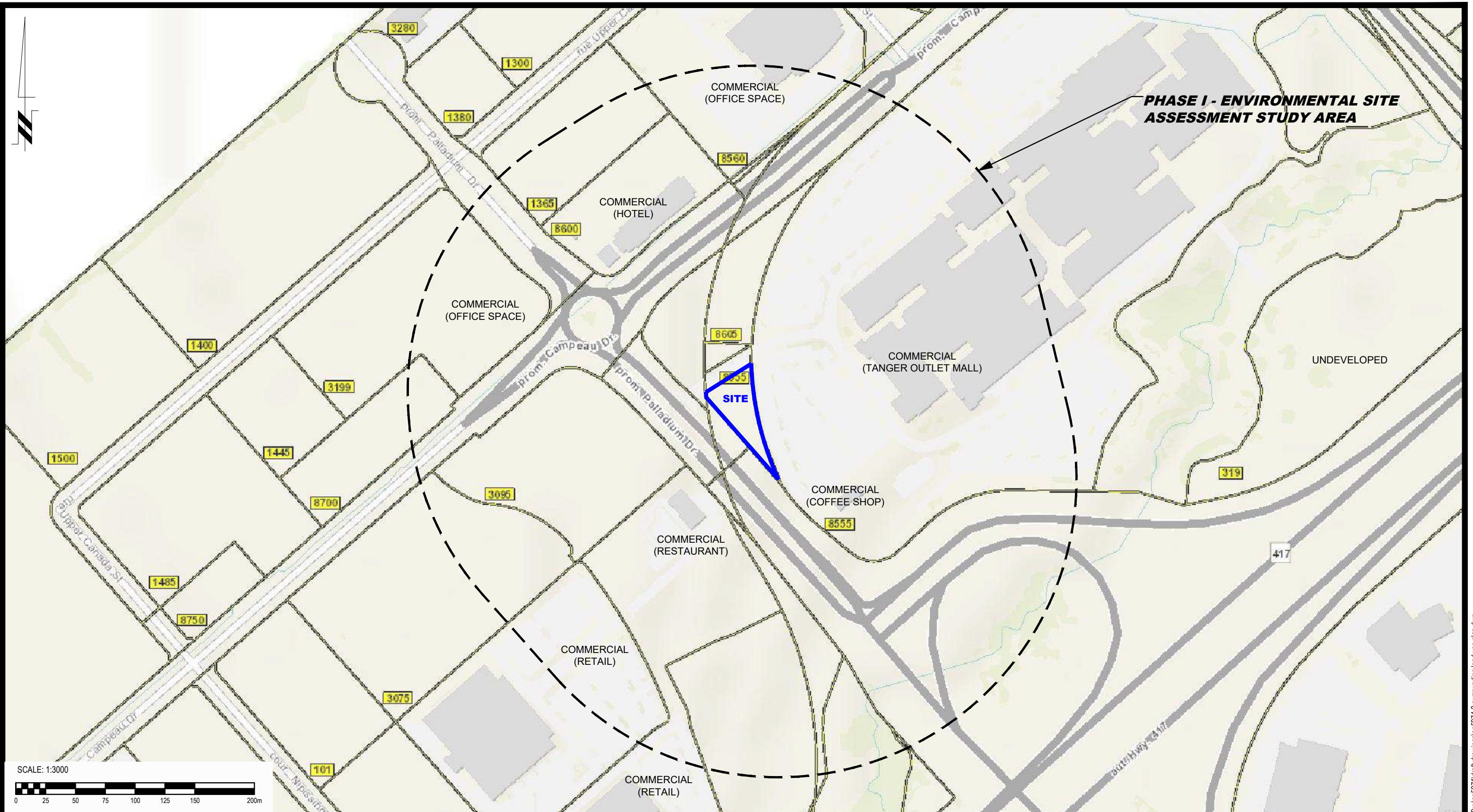
9 AURIGA DRIVE
OTTAWA, ON
K2E 7T9
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

RIOCAN REIT
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
333 HUNTMAR DRIVE
OTTAWA, ONTARIO

SITE PLAN

Scale:	1:750	Date:	02/2023
Drawn by:	NK	Report No.:	PE5974-1
Checked by:	KAM	Dwg. No.:	PE5974-1
Approved by:	MSD	Revision No.:	



PATERSON GROUP
 9 AURIGA DRIVE
 OTTAWA, ON
 K2E 7T9
 TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

RIOCAN REIT

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
333 HUNTMAR DRIVE

OTTAWA, ONTARIO

SURROUNDING LAND USE PLAN

Scale:	1:3000	Date:	02/2023
Drawn by:	NK	Report No.:	PE5974-1
Checked by:	KAM	Dwg. No.:	PE5974-2
Approved by:	MSD	Revision No.:	

APPENDIX 1

SURVEY PLAN

AERIAL PHOTOGRAPHS

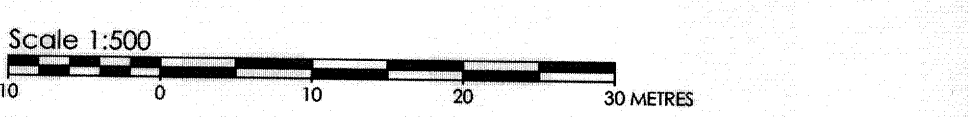
SITE PHOTOGRAPHS

I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.
 DATE: Aug 10/17
 RECEIVED AND DEPOSITED
 DATE: August 11, 2017
 REPRESENTATIVE FOR THE LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON NO. 4

SCHEDULE			
PART	LOT/BLOCK	CONCESSION/PLAN	PIN
1			
2	ALL OF 6	4M - 1566	ALL OF 04508 - 0143
3			
4			
5	PART OF 3	1	PART OF 04508 - 0032
6			
7			
8			PART OF 04508 - 0108

PARTS 1, 2, AND 3 COMPRISE ALL OF PIN 04508 - 0143
 PARTS 4, 5, AND 6 COMPRISE PART OF PIN 04508 - 0032
 PARTS 7 AND 8 COMPRISE PART OF PIN 04508 - 0108
 PARTS 1, 2, AND 3 ARE SUBJECT TO EASEMENT FOR DIST. NO. OC1776587

PLAN OF SURVEY of
BLOCK 6 REGISTERED PLAN 4M - 1566
PART OF LOT 3 CONCESSION 1
 GEOGRAPHIC TOWNSHIP OF HUNTLEY
 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

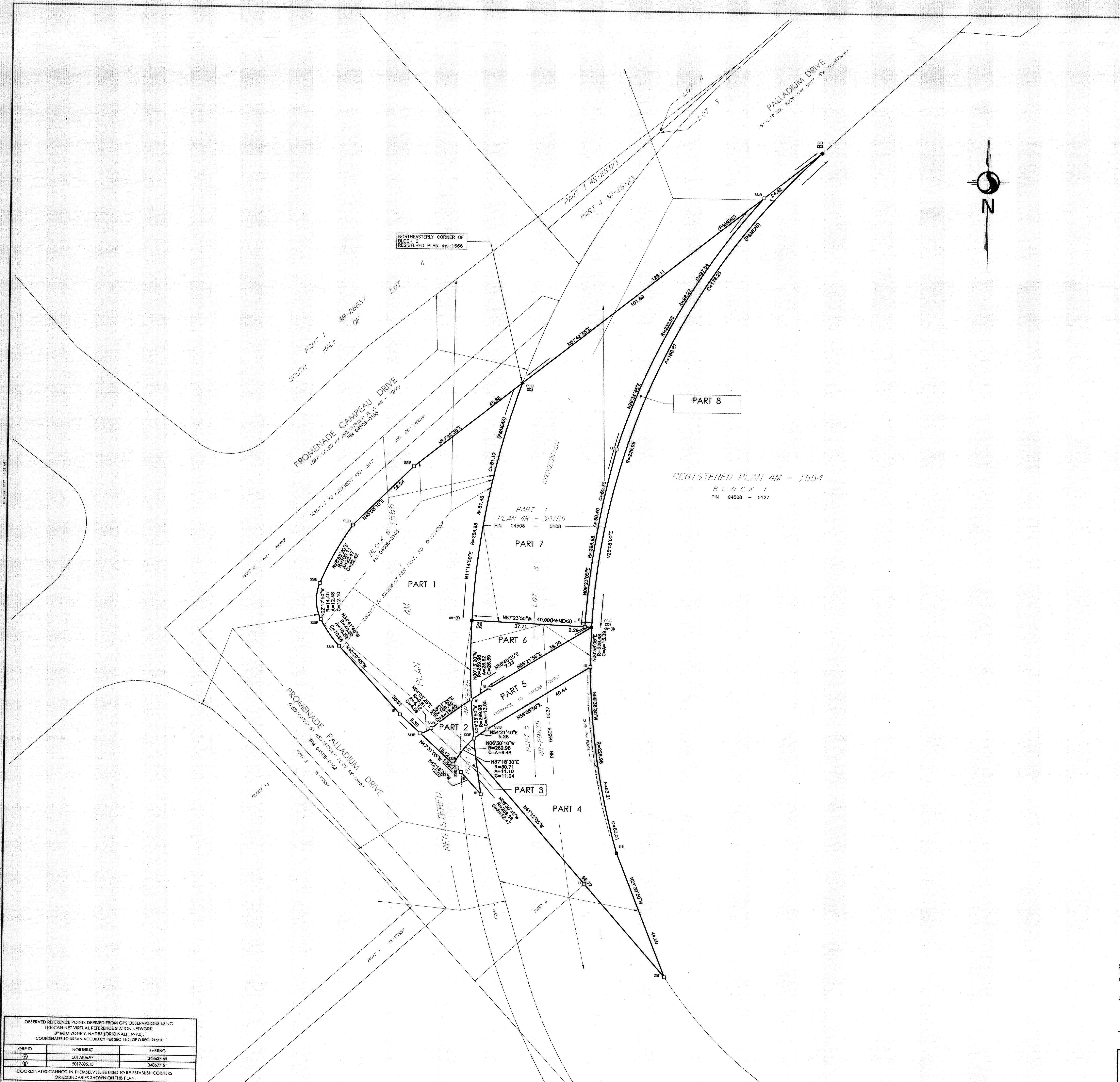
LEGEND

SYMBOL	DENOTES	FOUND MONUMENTS
■	FOUND MONUMENTS	SET MONUMENTS
□	SET MONUMENTS	IRON BAR
IB	IRON BAR	ROUND IRON BAR
ISB	ROUND IRON BAR	STANDARD IRON BAR
SIB	STANDARD IRON BAR	SHORT STANDARD IRON BAR
SSIB	SHORT STANDARD IRON BAR	CUT CROSS
CC	CUT CROSS	CONCRETE PIN
CP	CONCRETE PIN	WITNESS
WIT	WITNESS	PROPERTY IDENTIFICATION NUMBER
PIN	PROPERTY IDENTIFICATION NUMBER	MEASURES
MEAS	MEASURES	PROPORTIONED
PROP	PROPORTIONED	ORIGIN UNKNOWN
OU	ORIGIN UNKNOWN	STANTEC GEOMATICS LTD.
SG	STANTEC GEOMATICS LTD.	OBSERVED REFERENCE POINT
ORP	OBSERVED REFERENCE POINT	

GRID SCALE CONVERSION
 DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99994.

BEARING NOTE
 BEARINGS ARE GRID, DERIVED FROM THE CAN-NET VRS NETWORK GPS OBSERVATIONS ON NCC HORIZONTAL CONTROL MONUMENTS 1973035 AND 19680191, CENTRAL MERIDIAN, 76° 30' WEST LONGITUDE MTM ZONE 9, NAD83 (ORIGINAL).

19773035 N:5004040.42 E:324888.04
 19680191 N:5033544.26 E:388064.94



OBSERVED REFERENCE POINTS DERIVED FROM GPS OBSERVATIONS USING THE CAN-NET VIRTUAL REFERENCE STATION NETWORK: 3° MTM ZONE 9, NAD83 (ORIGINAL) (1997.0). COORDINATES TO URBAN ACCURACY PER SEC. 1403 OF O. REG. 214/10

ORP ID	NORTHING	EASTING
①	501765.97	348537.65
②	501765.15	348537.61

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 31st DAY OF JULY, 2017.

DATE: Aug 10/17
 B. Webster
 BRIAN J. WEBSTER
 ONTARIO LAND SURVEYOR

Stantec Geomatics Ltd.
 CANADA LAND SURVEYORS
 ONTARIO LAND SURVEYORS
 1331 CLYDE AVENUE, SUITE 400
 OTTAWA, ONTARIO K2C 3G4
 TEL: 613.722.4400 FAX: 613.722.2799
 STANTEC.COM

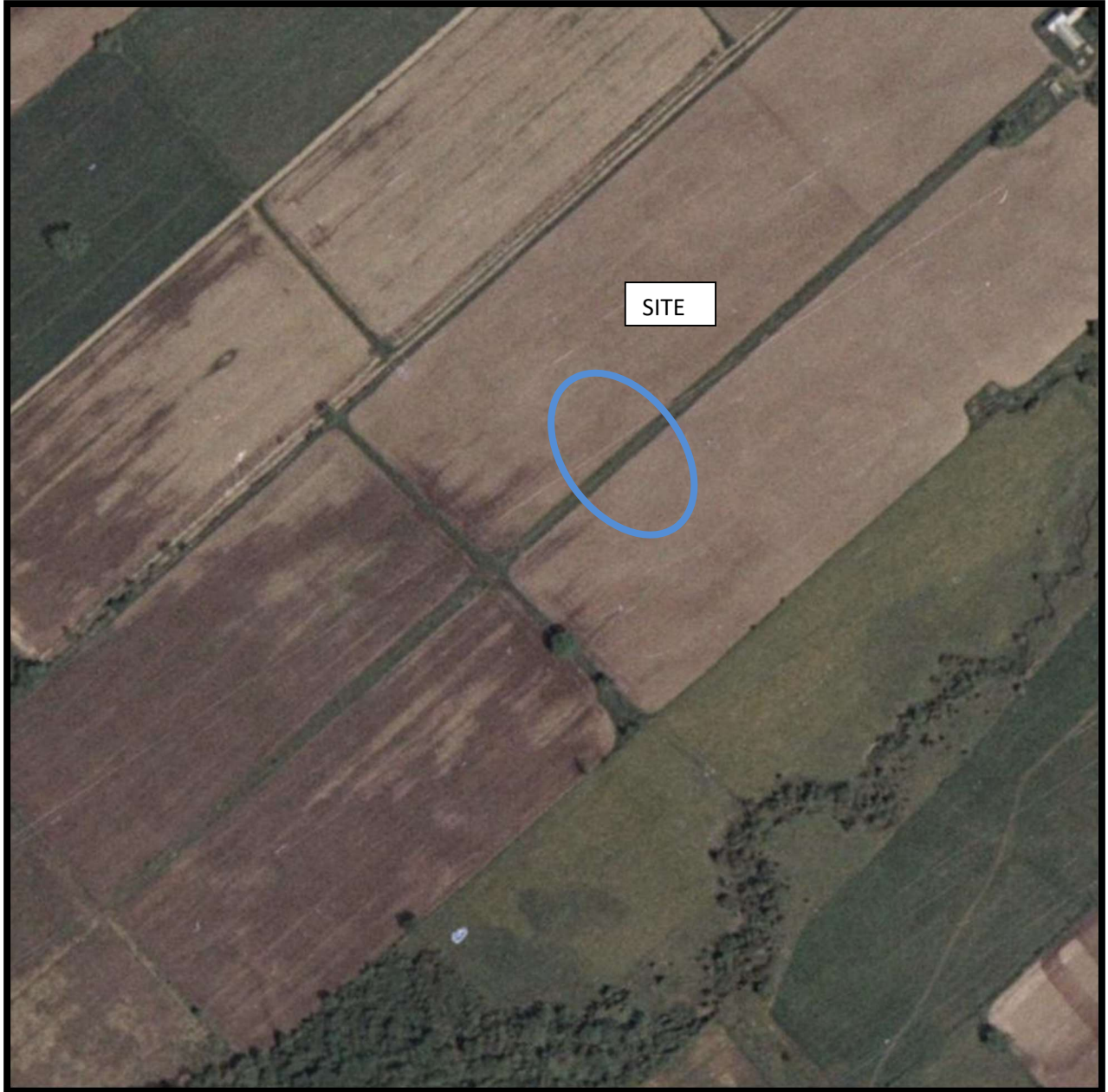
DRAWN: JP CHECKED: BW PM: BW FIELD: ES PROJECT NO.: 161613001 - 714



AERIAL PHOTOGRAPH
1947



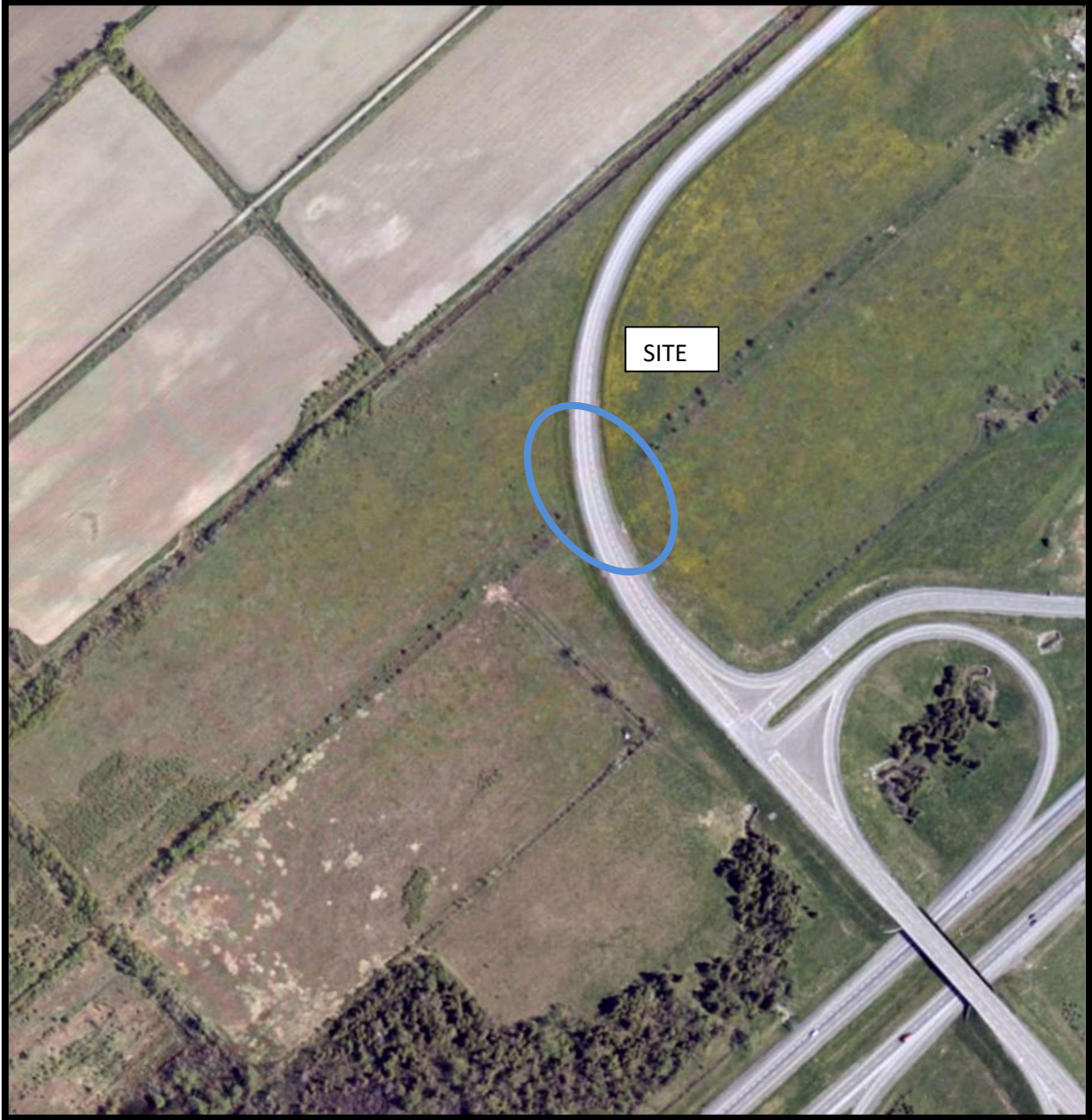
AERIAL PHOTOGRAPH
1959



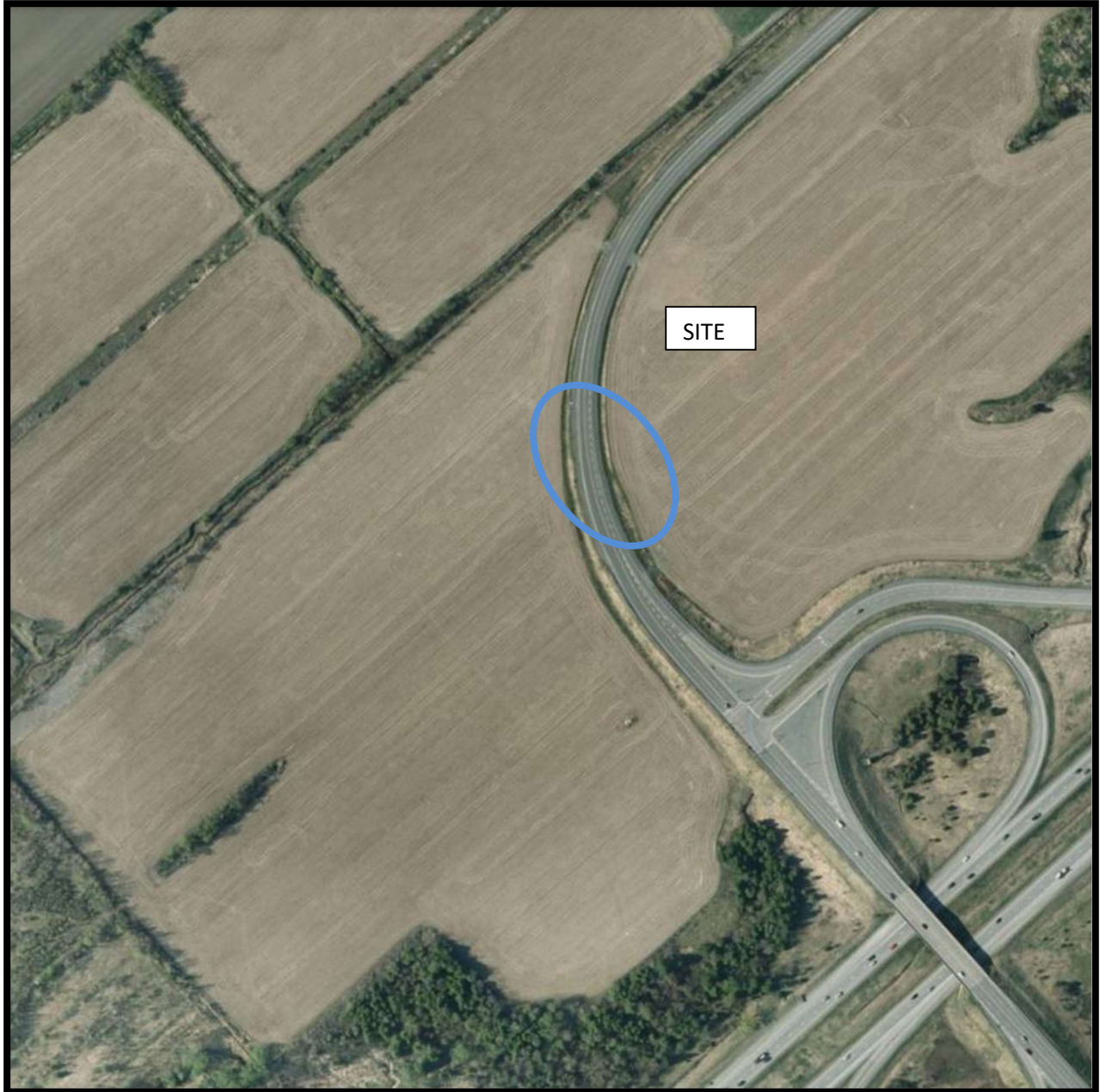
AERIAL PHOTOGRAPH
1976



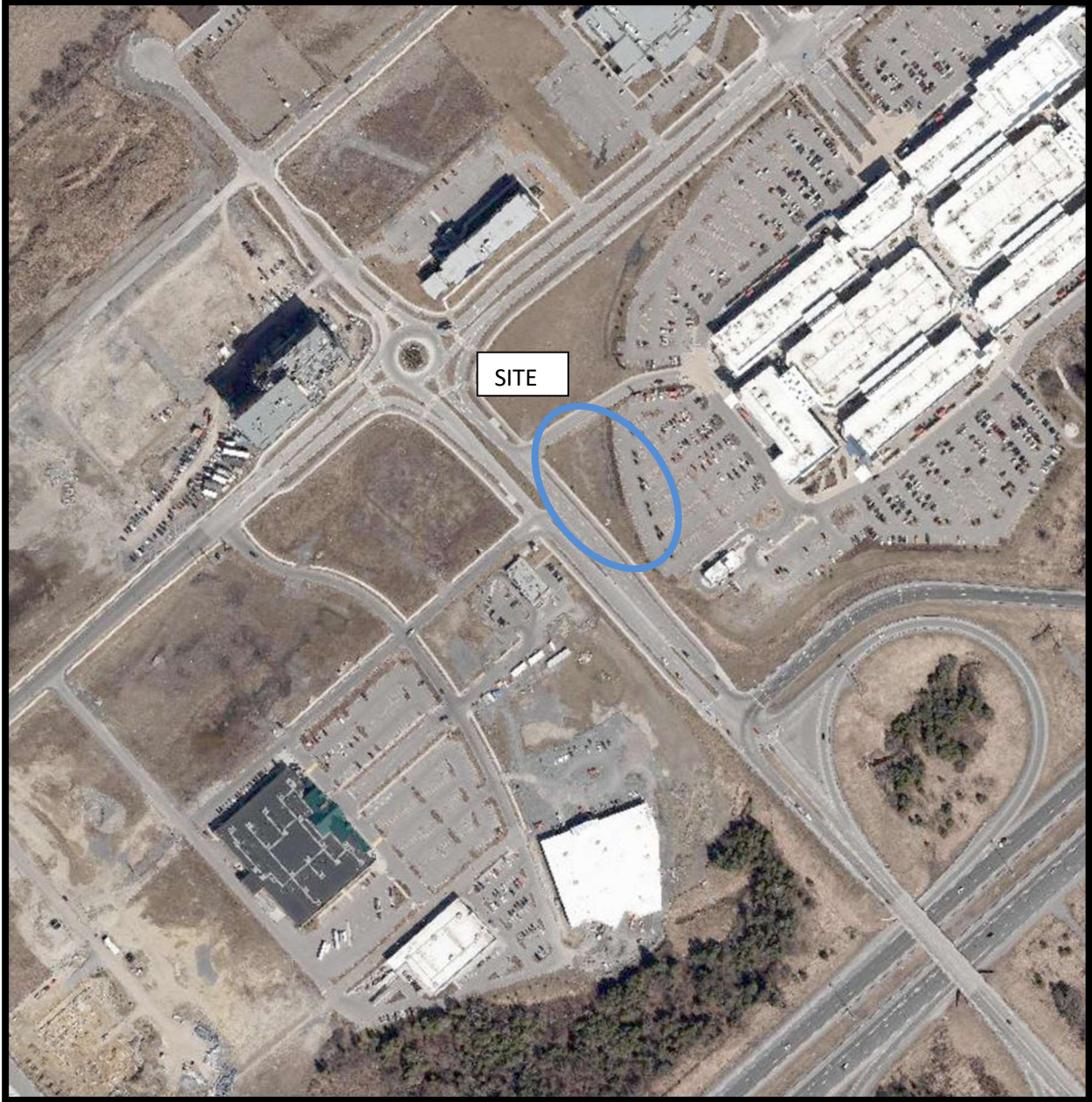
AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2021

Site Photographs

PE5974

333 Huntmar Drive, Ottawa ON

January 27, 2023



Photo 1: Phase I Property, looking south across outlet mall driveway.



Photo 2: Phase I Property, looking east; outlet mall in background.

Site Photographs

PE5974

333 Huntmar Drive, Ottawa ON

January 27, 2023



Photo 3: Phase I Property, looking west; Palladium Drive and commercial properties beyond.



Photo 4: Vacant land north of the Phase I Property; Campeau Dr and commercial properties beyond.

APPENDIX 2

MECP FREEDOM OF INFORMATION

MECP WELL RECORDS

TSSA RESPONSE

HLUI RESPONSE

ERIS REPORT

**Ministry of the Environment,
Conservation and Parks**

Access and Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075

**Ministère de l'Environnement, de la
Protection de la nature et des Parcs**

Bureau de l'accès à l'information et
de la protection de la vie privée

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075



January 31, 2023

Kelly Martinelli
Patterson Group INC
9 Auriga Drive
Ottawa, Alberta K2E 7T9
KMartinell@patersongroup.ca

Dear Kelly Martinelli:

RE: MECP FOI A-2023-00337, Your Reference PE5974 – Decision Letter

This letter is in response to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to Lot 3, Concession 1, Ottawa.

After a thorough search through the files of the ministry's Ottawa District Office, Environmental Investigations and Enforcement Branch (EIEB), and Safe Drinking Water Branch (SDW) no records were located responsive to your request. **This file is now closed.**

You may request a review of my decision within 30 days from the date of this letter by contacting the Information and Privacy Commissioner/Ontario at <http://www.ipc.on.ca>. Please note there may be a fee associated with submitting the appeal.

If you have any questions, please contact Tolani Abraham at Tolani.Abraham2@ontario.ca.

Yours truly,

ORIGINAL SIGNED BY

Ryan Gunn
Manager (A), Access and Privacy Office

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

11

1529619

Municipality 15005 Con. CON 02

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
----	----

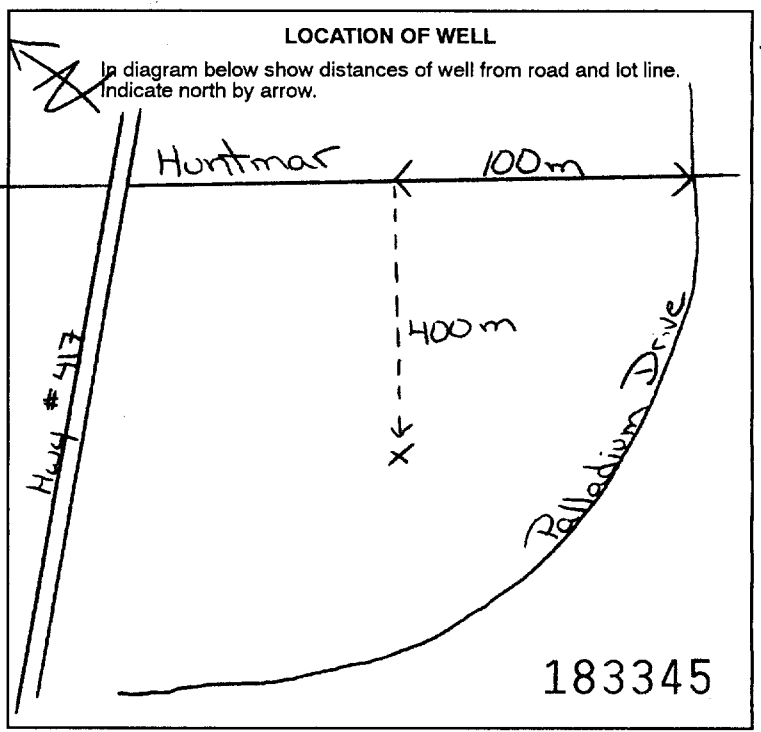
Water found at - feet	Kind of water
10-13	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
15-18	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty 3 <input type="checkbox"/>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

SCREEN	Sizes of opening (Slot No.)	Diameter inches	Length feet

PLUGGING & SEALING RECORD			
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17	Grouted Cement (8)	

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



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
Signature of Technician/Contractor	Well Technician's Licence No. T0097
	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		

Map: Well records

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

Full dataset is available in the Open Data catalogue (<https://data.ontario.ca/dataset/well-records>) .

[Go Back to Map](#)

Well ID

Well ID Number: 7397398

Well Audit Number: C47857

Well Tag Number: A290193

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

Well Location

Address of Well Location	
Township	HUNTLEY TOWNSHIP
Lot	
Concession	

County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 426286.00 Northing: 5016023.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

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

Method of Construction & Well Use

Method of Construction	Well Use	

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To	

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To	

Well Contractor and Well Technician Information

Results of Well Yield Testing

After test of well yield, water was		
If pumping discontinued, give reason		
Pump intake set at		
Pumping Rate		
Duration of Pumping		
Final water level		
If flowing give rate		
Recommended pump depth		
Recommended pump rate		
Well Production		
Disinfected?		

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level

SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	



Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C47857

Date Well Completed: August 20, 2021

Date Well Record Received by MOE: September 10, 2021

Related

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well->

Kelly Martinell

From: Public Information Services <publicinformationservices@tssa.org>
Sent: January 18, 2023 12:23 PM
To: Kelly Martinell
Subject: RE: PE5974 Search Request

Please refrain from sending documents to head office. The Public Information (PI) team works remotely, mailing in applications will lengthen the overall processing time.

NO RECORD FOUND IN CURRENT DATABASE

Hello,

Thank you for your request for confirmation of public information. TSSA has performed a preliminary search of TSSA's current database.

- We confirm that there are no records in our current database of any fuel storage tanks at the subject address(es).

This is not a confirmation that there are no records in the archives. For a further search in our archives, please submit an application for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

Please follow the steps below to access the new application(s) and Service Prepayment Portal:

1. Click Release of Public Information - TSSA and click "need a copy of a document";
2. Select the appropriate application, download it and complete it in full; and
3. Proceed to page 3 of the application and click the link TSSA Service Prepayment Portal under payment options (the link will take you the secure site to pay for the release via credit card).

Accessing the Service Prepayment Portal:

1. Select new or existing customer (*if you are an existing customer, you will need your account # & postal code to access your account);
2. Select the program area: AD (Amusement Devices), BPV (Boilers and Pressure Vessels), ED (Elevating Devices), FS (Fuels Services), OE (Operating Engineers) or SKI (Ski Lifts) and click continue;
3. Enter the application form number (obtained from bottom left corner of application form) and click continue;
 - a. When selecting the application form number from the drop-down menu, please make sure you select the application that begins with "PI" (i.e. PI-FS, PI-BPV etc.);
4. Complete the primary contact information section;
5. Complete the fees section;
6. Upload your completed application; and
7. Upload supporting documents (if required) and click continue.

Once all steps have been successfully completed, you will receive your receipt via email.
Questions? Please contact TSSA's Public Information Release team at publicinformationservices@tssa.org.
Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind Regards,
Kim



Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org



From: Kelly Martinell <KMartinell@patersongroup.ca>
Sent: January 18, 2023 12:05 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: PE5974 Search Request

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

Hello,
Would you please conduct a search of your records pertaining to underground/aboveground storage tanks, historical spills, or other incidents/infractions for the following addresses in Ottawa, Ontario:

8555, 8600, 8605, 8700 Campeau Dr
333 Huntmar Dr
3015, 3045, 3095, 3199 Palladium Dr

Thanks in advance,
Kelly



KELLY MARTINELL, P.ENG.
ENVIRONMENTAL ENGINEER
TEL: (613) 226-7381 ext. 215
DIRECT: (613) 702-8696
9 AURIGA DRIVE
OTTAWA ON K2E 7T9
patersongroup.ca

TEMPORARY SHORING DESIGN SERVICES ARE NOW AVAILABLE, PLEASE CONTACT US TO SEE HOW WE CAN HELP!

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

February 7, 2023

Kelly Martinell
Paterson Group

Sent via email [KMartinell@patersongroup.ca]

Dear Kelly Martinell,

Re: Information Request
333 Huntmar Drive **Ottawa, Ontario** (“**Subject Property**”)

Internal Department Circulation:

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- **Ottawa Public Health - Environmental Health:** all public inspection results are publicly available on the Ottawa Public Health website:
<https://www.ottawapublichealth.ca/en/public-health-services/public-health-inspections.aspx>

Documents Provided:

HLUI Summary Report and HLUI Map

The HLUI Summary Report Excel spreadsheet identifies HLUI area, point and line features within 250 metres of the Subject Property, as shown on the provided HLUI Map PDF. Within 500 metres of the Subject Property, landfills and Environmental Risk Management Area (ERMA) are also identified if applicable.

For more information on how to interpret the HLUI data identified in the attached excel sheet (‘ADDRESS – HLUI Summary report.xlsx’), please refer to the [Overview and User Guide.](#)”

Additional information may be obtained by contacting:

Ontario’s Environmental Registry

The Environmental Registry found at <https://ero.ontario.ca/> contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one

can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Ottawa Public Health

Ottawa Public Health inspects many different types of establishments. To view inspection results, please visit the Ottawa Public Health website: [Public Health Inspections - Ottawa Public Health](#)

Please note that Ottawa Public Health is not the lead agency on land use contamination in the City of Ottawa – contact the Ministry of Environment Conservation and Parks (MECP) for further information.

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an “as is” basis with no representation or warranty by the City with respect to the information’s accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You

may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact HLUI@ottawa.ca.

Sincerely,

Samuel Farkas

Student Planner | Étudiante en Urbanism
Development Review | Examen des projets d'aménagement
City of Ottawa | Ville d'Ottawa
613-580-2424 Ext. 25791

Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB / SF

Enclosures: (2)

1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-23-0009

HISTORIC LAND USE INVENTORY (HLUI) - REPORT REFERENCE MAP



HLUI SUMMARY REPORT
 AREA FEATURES

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	YEAR	ST_NUM2017	ST_NAME2017	ST_SUFFIX2017
7019	MYERS KANATA	Construction	2006-2012	2500	PALLADIUM	DR
7020	TURPIN SATURN SAAB	Construction	2006-2012	2500	PALLADIUM	DR
7021	ASSURED @ MYERS VOLKSWAGEN	Automobile Body-Repairing & Pai	2017	2500	PALLADIUM	DR
7022	CAPITAL DODGE CHRYSLER JEEP	Automobile Dealers-New Cars	2017	2500	PALLADIUM	DR
7023	KANATA HONDA	Automobile Dealers-New Cars	2017	2500	PALLADIUM	DR
7024	KANATA MAZDA	Automobile Dealers-New Cars	2017	2500	PALLADIUM	DR
7025	MYERS KANATA CHEV BUICK GMC	Automobile Dealers-New Cars	2017	2500	PALLADIUM	DR
7026	MYERS KANATA HYUNDAI	Automobile Dealers-New Cars	2017	2499	PALLADIUM	DR
7027	MYERS VOLKSWAGEN AUTOMTV GROUP	Automobile Dealers-New Cars	2017	2500	PALLADIUM	DR
7028	TONY GRAHAM KANATA TOYOTA	Automobile Dealers-New Cars	2017	2500	PALLADIUM	DR



DATABASE REPORT

Project Property: *Phase I ESA - 333 Huntmar Dr
333 Huntmar Dr.
Ottawa ON*

Project No: *PO No. 56622/File No. PE5974*

Report Type: *Standard Report*

Order No: *23011700510*

Requested by: *Paterson Group Inc.*

Date Completed: *January 23, 2023*

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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Executive Summary

Property Information:

Project Property: *Phase I ESA - 333 Huntmar Dr
333 Huntmar Dr. Ottawa ON*

Project No: *PO No. 56622/File No. PE5974*

Coordinates:

Latitude: *45.2965127*
Longitude: *-75.9407315*
UTM Northing: *5,016,320.47*
UTM Easting: *426,239.41*
UTM Zone: *18T*

Elevation: *334 FT
101.88 M*

Order Information:

Order No: *23011700510*
Date Requested: *January 17, 2023*
Requested by: *Paterson Group Inc.*
Report Type: *Standard Report*

Historical/Products:

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	3	3
CA	<i>Certificates of Approval</i>	Y	0	0	0
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	4	0	4
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	3	3
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	1	0	1
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	3	3
Total:			5	9	14

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>
1	PTTW	RioCan Management Inc.	333 Huntmar Drive, City of Ottawa, Ontario CITY OF OTTAWA ON	-/0.0	0.00	13
1	ECA	RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	-/0.0	0.00	13
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	-/0.0	0.00	13
1	ECA	RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	-/0.0	0.00	14
1	ECA	RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	-/0.0	0.00	14

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>
2	EHS		3065 Palladium Drive Ottawa ON K2S 1B9	S/13.9	0.00	14
3	EHS		Palladium Drive and Campeau Drive Ottawa ON	NNW/82.9	0.00	15
3	EHS		Palladium Drive and Campeau Drive Ottawa ON	NNW/82.9	0.00	15
4	BORE		ON	N/85.6	0.00	15
5	WWIS		lot 3 con 1 ON Well ID: 1533405	SSE/164.7	-1.86	16
5	WWIS		lot 3 con 1 ON Well ID: 1533406	SSE/164.7	-1.86	17
6	BORE		ON	SE/168.0	-2.00	21
7	BORE		ON	ESE/212.0	-2.00	21
8	WWIS		lot 2 con 2 ON Well ID: 1529619	ENE/240.7	-1.31	22

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 3 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	N	85.58	<u>4</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	SE	167.97	<u>6</u>
	ON	ESE	211.98	<u>7</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Dec 31, 2022 has found that there are 4 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	-	0.00	<u>1</u>
RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	-	0.00	<u>1</u>
RioCan Management Inc.	333 Huntmar Dr Ottawa ON M4P 1E4	-	0.00	<u>1</u>
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	-	0.00	<u>1</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2022 has found that there are 3 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>
	3065 Palladium Drive Ottawa ON K2S 1B9	S	13.87	<u>2</u>
	Palladium Drive and Campeau Drive Ottawa ON	NNW	82.92	<u>3</u>
	Palladium Drive and Campeau Drive Ottawa ON	NNW	82.92	<u>3</u>

PTTW - Permit to Take Water

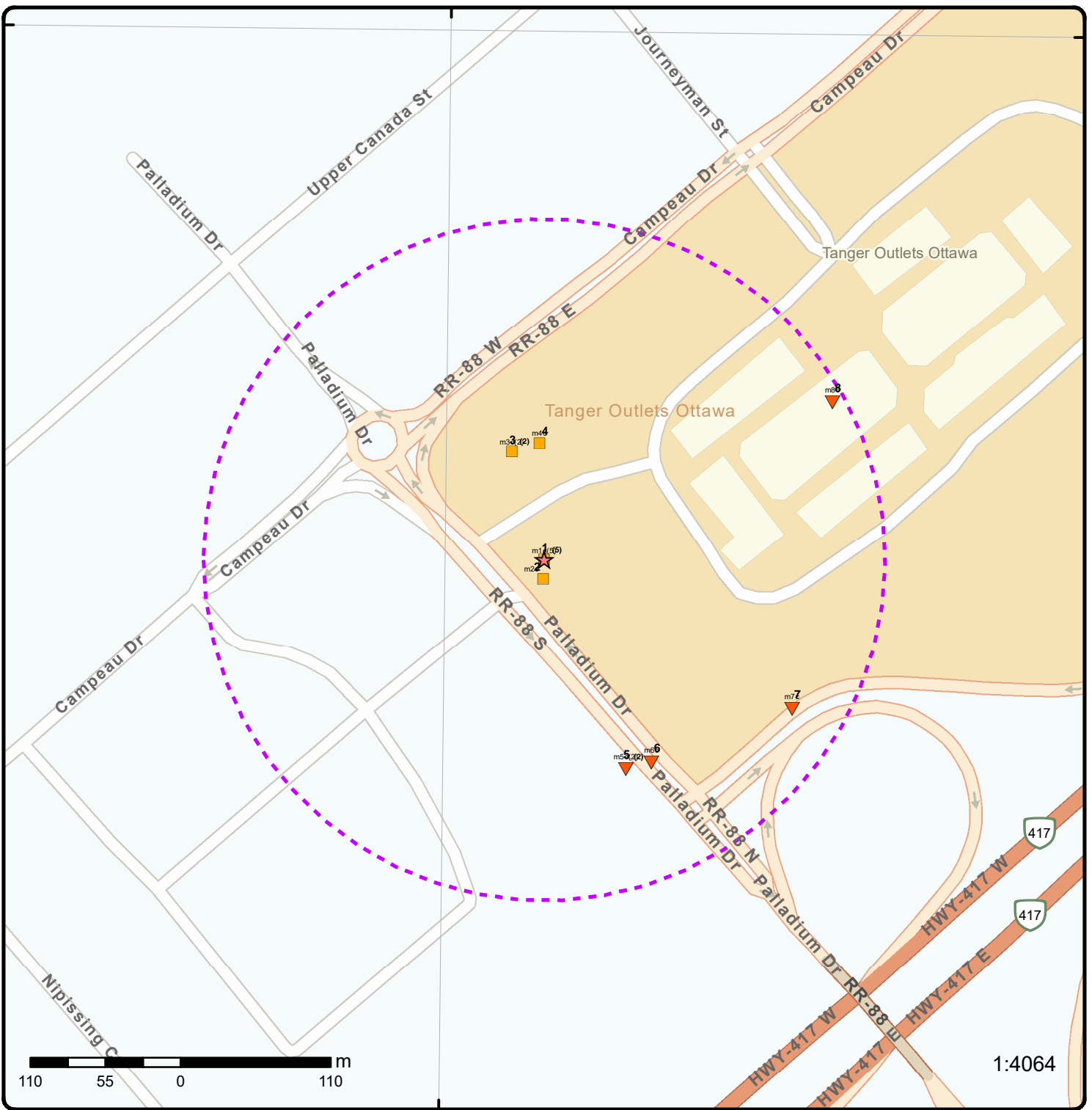
A search of the PTTW database, dated 1994 - Dec 31, 2022 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

<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	-	0.00	<u>1</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30 2022 has found that there are 3 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>
	lot 3 con 1 ON <i>Well ID:</i> 1533405	SSE	164.70	<u>5</u>
	lot 3 con 1 ON <i>Well ID:</i> 1533406	SSE	164.70	<u>5</u>
	lot 2 con 2 ON <i>Well ID:</i> 1529619	ENE	240.73	<u>8</u>



Map: 0.25 Kilometer Radius

Order Number: 23011700510

Address: 333 Huntmar Dr., Ottawa, ON



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

75°57'W

45°18'N

45°18'N



250 125 0 250 m

1:10000

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

Aerial Year: 2022

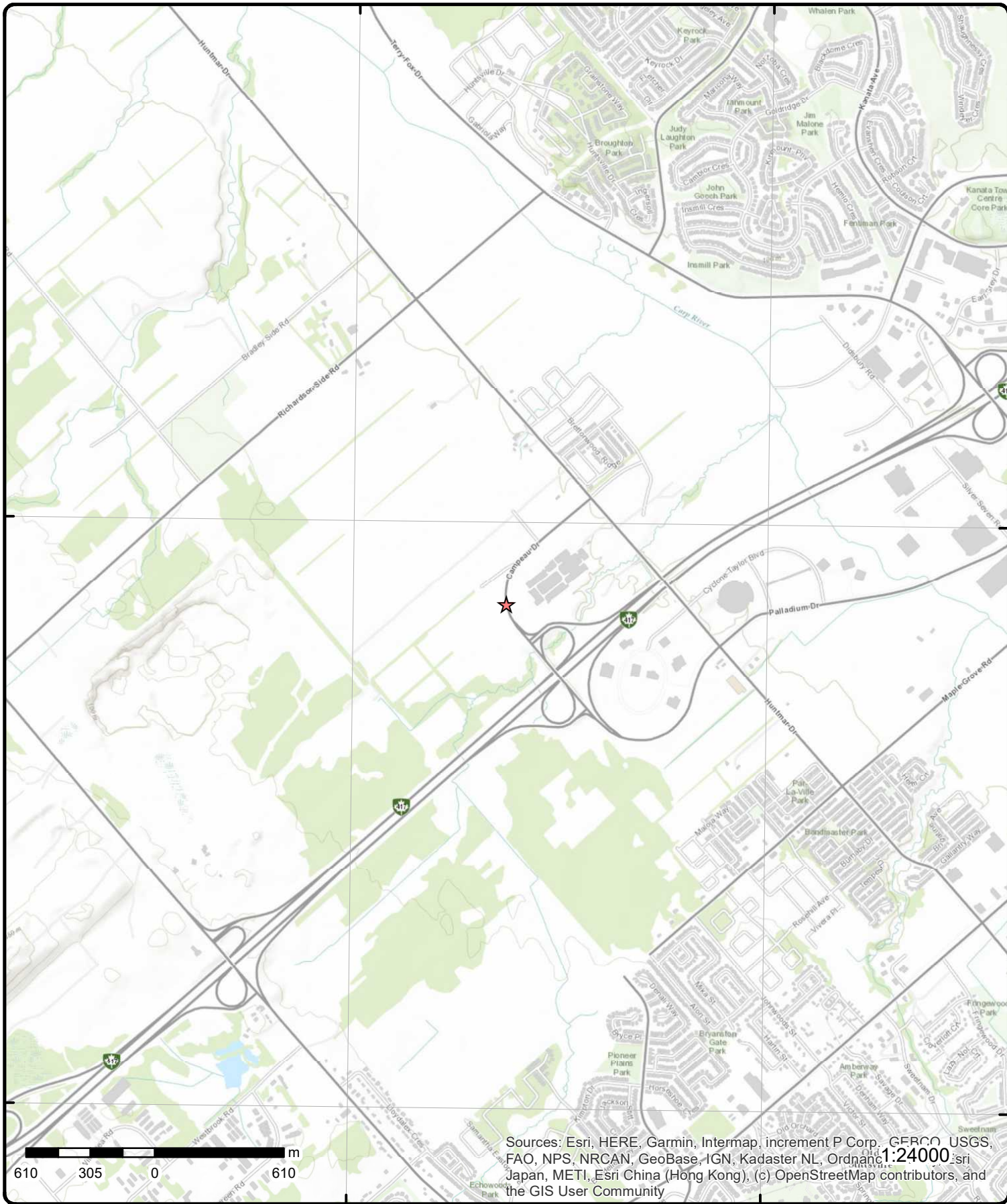
Order Number: 23011700510

Address: 333 Huntmar Dr., Ottawa, ON



Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: 333 Huntmar Dr., ON

Source: ESRI World Topographic Map

Order Number: 23011700510



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p>1</p> <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>Site Location Details: 333 Huntmar Drive, City of Ottawa, Ontario CITY OF OTTAWA</p>	1 of 5	-/0.0	101.9/ 0.00	<p>RioCan Management Inc. 333 Huntmar Drive, City of Ottawa, Ontario CITY OF OTTAWA ON</p> <p>Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:</p>	PTTW
<p>1</p> <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 Business Name: RioCan Management Inc. Address: 333 Huntmar Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9009-999PHL-14.pdf PDF Site Location:</p>	2 of 5	-/0.0	101.9/ 0.00	<p>RioCan Management Inc. 333 Huntmar Dr Ottawa ON M4P 1E4</p> <p>MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:</p>	ECA
<p>1</p> <p>Approval No: 6288-A2GGL2</p>	3 of 5	-/0.0	101.9/ 0.00	<p>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</p> <p>MOE District:</p>	ECA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Date: 2015-09-28 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: West Ottawa Land Holdings Inc. and West Ottawa Land Holdings (2) Inc. Address: 333 Huntmar Dr Part Lots 3 and 4, Concession 1 Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2753-9YLJRZ-14.pdf PDF Site Location:					
<u>1</u>	4 of 5	-/0.0	101.9 / 0.00	RioCan Management Inc. 333 Huntmar Dr Ottawa ON M4P 1E4	ECA
Approval No: 4648-A2KQFP Approval Date: 2015-09-28 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 Business Name: RioCan Management Inc. Address: 333 Huntmar Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2940-9YLLVJ-14.pdf PDF Site Location:					
<u>1</u>	5 of 5	-/0.0	101.9 / 0.00	RioCan Management Inc. 333 Huntmar Dr Ottawa ON M4P 1E4	ECA
Approval No: 8617-AHGRV5 Approval Date: 2017-01-13 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: RioCan Management Inc. Address: 333 Huntmar Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0142-ABJN8A-14.pdf PDF Site Location:					
<u>2</u>	1 of 1	S/13.9	101.9 / 0.00	3065 Palladium Drive Ottawa ON K2S 1B9	EHS
Order No: 20160829196 Status: C Report Type: Standard Report Report Date: 30-AUG-16 Date Received: 29-AUG-16 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos Nearest Intersection: Municipality: Client Prov/State: CA Search Radius (km): .25 X: -75.940739 Y: 45.296388					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>3</u>	1 of 2	NNW/82.9	101.9 / 0.00	Palladium Drive and Campeau Drive Ottawa ON	EHS
Order No:	21083100322	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State:	ON		
Report Date:	03-SEP-21	Search Radius (km):	.25		
Date Received:	31-AUG-21	X:	-75.9410479		
Previous Site Name:		Y:	45.2972249		
Lot/Building Size:					
Additional Info Ordered:					
<u>3</u>	2 of 2	NNW/82.9	101.9 / 0.00	Palladium Drive and Campeau Drive Ottawa ON	EHS
Order No:	21083100322	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State:	ON		
Report Date:	03-SEP-21	Search Radius (km):	.25		
Date Received:	31-AUG-21	X:	-75.9410479		
Previous Site Name:		Y:	45.2972249		
Lot/Building Size:					
Additional Info Ordered:					
<u>4</u>	1 of 1	N/85.6	101.9 / 0.00	ON	BORE
Borehole ID:	848690	Inclin FLG:	No		
OGF ID:	215590310	SP Status:	Initial Entry		
Status:	Decommissioned	Surv Elev:	No		
Type:	Borehole	Piezometer:	No		
Use:	Geotechnical/Geological Investigation	Primary Name:			
Completion Date:	06-MAY-1992	Municipality:			
Static Water Level:		Lot:	LOT 3		
Primary Water Use:		Township:	HUNTLEY		
Sec. Water Use:		Latitude DD:	45.297282		
Total Depth m:	1.6	Longitude DD:	-75.940788		
Depth Ref:	Ground Surface	UTM Zone:	18		
Depth Elev:		Easting:	426236		
Drill Method:	Power auger	Northing:	5016406		
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:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	6561882	Mat Consistency:	Firm		
Top Depth:	.3	Material Moisture:			
Bottom Depth:	1.6	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:		Depositional Gen:			
Gsc Material Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Stratum Description:		FIRM TO STIFF GREY SILTY CLAY TRACE SAND **Note: Many records provided by the department have a truncated [Stratum Description] field.			
Geology Stratum ID:	6561881			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	.3			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Sand			Geologic Period:	
Material 4:	Organic			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	275mm DARK BROWN ORGANIC SANDY SILTY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				

<u>5</u>	1 of 2	SSE/164.7	100.0 / -1.86	lot 3 con 1 ON	WWIS
Well ID:	1533405			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Not Used			Data Entry Status:	
Use 2nd:				Data Src:	1
Final Well Status:	Abandoned-Other			Date Received:	17-Dec-2002 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	250501			Contractor:	1558
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	003
Depth to Bedrock:				Concession:	01
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	HUNTLEY TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1533405.pdf				

Additional Detail(s) (Map)

Well Completed Date:	2002/11/05
Year Completed:	2002
Depth (m):	
Latitude:	45.2951377358955
Longitude:	-75.9399462378063
Path:	153\1533405.pdf

Bore Hole Information

Bore Hole ID:	10530152	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	426299.20
Code OB Desc:		North83:	5016167.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	05-Nov-2002 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	lot
Loc Method Desc:	Lot centroid		
Elevrc Desc:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Method of Construction & Well Use

Method Construction ID: 961533405
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11078722
Casing No: 1
Comment:
Alt Name:

Links

Bore Hole ID:	10530152	Tag No:	
Depth M:		Contractor:	1558
Year Completed:	2002	Path:	153\1533405.pdf
Well Completed Dt:	2002/11/05	Latitude:	45.2951377358955
Audit No:	250501	Longitude:	-75.9399462378063

5	2 of 2	SSE/164.7	100.0 / -1.86	lot 3 con 1 ON	WWIS
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Well ID:	1533406	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:		Data Src:	1
Final Well Status:	Water Supply	Date Received:	17-Dec-2002 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	250488	Contractor:	1558
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliabilty:		Lot:	003
Depth to Bedrock:		Concession:	01
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	HUNTLEY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1533406.pdf

Additional Detail(s) (Map)

Well Completed Date: 2002/11/01
Year Completed: 2002
Depth (m): 44.196
Latitude: 45.2951377358955
Longitude: -75.9399462378063

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Path:		153\1533406.pdf			

Bore Hole Information

Bore Hole ID:	10530153	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	426299.20
Code OB Desc:		North83:	5016167.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	01-Nov-2002 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	lot
Loc Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID:	932881036
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

**Overburden and Bedrock
Materials Interval**

Formation ID:	932881037
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	73
Mat2 Desc:	HARD
Mat3:	
Mat3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	60.0
Formation End Depth UOM:	ft

**Overburden and Bedrock
Materials Interval**

Formation ID:	932881038
Layer:	3
Color:	2
General Color:	GREY

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		60.0			
Formation End Depth:		145.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933230467			
Layer:		1			
Plug From:		0.0			
Plug To:		21.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961533406			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11078723			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930096890			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:					
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930096891			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:					
Casing Diameter:		5.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test ID:		991533406			
Pump Set At:					
Static Level:		10.0			
Final Level After Pumping:		60.0			
Recommended Pump Depth:		75.0			
Pumping Rate:		20.0			
Flowing Rate:					
Recommended Pump Rate:		5.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934664298			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		100.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934395018			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		75.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934912423			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		140.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934120164			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		60.0			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID:		934022869			
Layer:		1			
Kind Code:		5			
Kind:		Not stated			
Water Found Depth:		137.0			
Water Found Depth UOM:		ft			
 <u>Links</u>					
Bore Hole ID:	10530153			Tag No:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth M:	44.196			Contractor:	1558
Year Completed:	2002			Path:	153\1533406.pdf
Well Completed Dt:	2002/11/01			Latitude:	45.2951377358955
Audit No:	250488			Longitude:	-75.9399462378063

<u>6</u>	1 of 1	SE/168.0	99.9 / -2.00	ON	BORE
Borehole ID:	848684			Inclin FLG:	No
OGF ID:	215590304			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	06-MAY-1992			Municipality:	
Static Water Level:				Lot:	LOT 3
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.295185
Total Depth m:	1.5			Longitude DD:	-75.939707
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426318
Drill Method:	Power auger			Northing:	5016172
Orig Ground Elev m:	103			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:	6561865			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	.1			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Sand			Geologic Period:	
Material 4:	Organic			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	150mm DARK BROWN ORGANIC SANDY SILTY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	6561866			Mat Consistency:	Stiff
Top Depth:	.1			Material Moisture:	
Bottom Depth:	1.5			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Sand			Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	STIFF BROWNISH GREY SILTY CLAY TRACE SAND **Note: Many records provided by the department have a truncated [Stratum Description] field.				

<u>7</u>	1 of 1	ESE/212.0	99.9 / -2.00	ON	BORE
Borehole ID:	848685			Inclin FLG:	No
OGF ID:	215590305			SP Status:	Initial Entry
Status:	Decommissioned			Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Completion Date:	06-MAY-1992			Municipality:	
Static Water Level:				Lot:	LOT 3
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.295547
Total Depth m:	1.6			Longitude DD:	-75.9384
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426421
Drill Method:	Power auger			Northing:	5016211
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:	6561868			Mat Consistency:	Firm
Top Depth:	.2			Material Moisture:	
Bottom Depth:	1.6			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Sand			Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	FIRM BROWN SILTY CLAY TRACE SAND **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Geology Stratum ID:	6561867			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	.2			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Sand			Geologic Period:	
Material 4:	Organic			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	150mm DARK BROWN ORGANIC SANDY SILY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				

<u>8</u>	1 of 1	ENE/240.7	100.6 / -1.31	lot 2 con 2 ON	WWIS
Well ID:	1529619			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Not Used			Data Entry Status:	
Use 2nd:				Data Src:	1
Final Well Status:	Abandoned-Supply			Date Received:	17-Oct-1997 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	183345			Contractor:	1558
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliability:				Lot:	002
Depth to Bedrock:				Concession:	02
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	HUNTLEY TOWNSHIP				

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

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1529619.pdf

Additional Detail(s) (Map)

Well Completed Date: 1997/09/25
Year Completed: 1997
Depth (m): 60.96
Latitude: 45.2975746762497
Longitude: -75.9380555316731
Path: 152\1529619.pdf

Bore Hole Information

Bore Hole ID:	10051154	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	426450.60
Code OB Desc:		North83:	5016436.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	25-Sep-1997 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	gis
Loc Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931073328
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 78
Mat2 Desc: MEDIUM-GRAINED
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 41.0
Formation End Depth: 150.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931073326
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 86
Mat2 Desc: STICKY
Mat3:
Mat3 Desc:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Top Depth:		10.0			
Formation End Depth:		38.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931073329			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		78			
Mat2 Desc:		MEDIUM-GRAINED			
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		150.0			
Formation End Depth:		200.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931073325			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		79			
Mat2 Desc:		PACKED			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		10.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931073327			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Mat2 Desc:		SANDY			
Mat3:		68			
Mat3 Desc:		DRY			
Formation Top Depth:		38.0			
Formation End Depth:		41.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933114644			
Layer:		1			
Plug From:		43.0			
Plug To:		0.0			

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

Method of Construction & Well Use

Method Construction ID: 961529619
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10599724
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930089291
Layer: 1
Material: 2
Open Hole or Material: GALVANIZED
Depth From:
Depth To: 44.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930089292
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 200.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Links

Bore Hole ID: 10051154	Tag No: 1558
Depth M: 60.96	Contractor: 152\1529619.pdf
Year Completed: 1997	Path: 45.2975746762497
Well Completed Dt: 1997/09/25	Latitude: -75.9380555316731
Audit No: 183345	Longitude:

Unplottable Summary

Total: 3 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	OTTAWA CITY	CAMPEAU INDUSTRIAL SUBD. ST.	OTTAWA CITY ON	
ECA	City of Ottawa	Campeau Dr	Ottawa ON	K2G 6J8
EHS		North & South of Palladium Dr	West Carleton Twp / Kanata ON	

Unplottable Report

Site: OTTAWA CITY
CAMPEAU INDUSTRIAL SUBD. ST. OTTAWA CITY ON

Database:
CA

Certificate #: 3-0719-86-
Application Year: 86
Issue Date: 6/6/1986
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
Business Name: City of Ottawa
Address: Campeau Dr
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/4754-BFAS8F-14.pdf>
PDF Site Location:

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

Site: North & South of Palladium Dr West Carleton Twp / Kanata ON

Database:
EHS

Order No: 20010614002
Status: C
Report Type: Custom Report
Report Date: 6/18/01
Date Received: 6/14/01
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 4.75
X: -75.926941
Y: 45.295955

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 Northern Development, Mines, Natural Resources and Forestry (ONDMNRF) maintains this database of 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 Oct 2022

Abandoned Mine Information System:

Provincial

[AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Mar 2022

Anderson's Waste Disposal Sites:

Private

[ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

[AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

[AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-May 31, 2022

Borehole:

Provincial

[BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2020

Commercial Fuel Oil Tanks:

Provincial CFOT

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

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

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-May 31, 2022

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Sep 2022

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Nov 2022

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Dec 31, 2022

Drill Hole Database:Provincial [DRL](#)

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Oct 2022**Delisted Fuel Tanks:**Provincial [DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Feb 28, 2022**Environmental Activity and Sector Registry:**Provincial [EASR](#)

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

Government Publication Date: Oct 2011- Dec 31, 2022**Environmental Registry:**Provincial [EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Dec 31, 2022**Environmental Compliance Approval:**Provincial [ECA](#)

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

Government Publication Date: Oct 2011- Dec 31, 2022**Environmental Effects Monitoring:**Federal [EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007***ERIS Historical Searches:**Private [EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Jul 31, 2022**Environmental Issues Inventory System:**Federal [EIIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report:

Provincial **EPAR**

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2021

List of Expired Fuels Safety Facilities:

Provincial **EXP**

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

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

Government Publication Date: Feb 28, 2022

Federal Convictions:

Federal **FCON**

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

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

Government Publication Date: Jun 2000-Sep 2022

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

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

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

Government Publication Date: Feb 28, 2022

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial

[HINC](#)

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

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

Government Publication Date: Feb 28, 2022

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 21, 2022

Canadian Mine Locations:

Private

[MINE](#)

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2022

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2021

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal [NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

[NPCB](#)

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

[NPRI](#)

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

[OGWE](#)

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

Government Publication Date: 1988-Nov 30, 2022

Ontario Oil and Gas Wells:

Provincial

[OOGW](#)

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Aug 2021

Inventory of PCB Storage Sites:

Provincial

[OPCB](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders:

Provincial

[ORD](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Dec 31, 2022

Canadian Pulp and Paper:

Private

[PAP](#)

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

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

Parks Canada Fuel Storage Tanks:

Federal

[PCFT](#)

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

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

Government Publication Date: Oct 2011- Dec 31, 2022

Pipeline Incidents:

Provincial PINC

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

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks:

Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Dec 31, 2022

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition:

Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Dec 2022

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-May 31, 2022

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Sep 2020; Dec 2020-Mar 2021

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2020

Anderson's Storage Tanks:

Private [TANK](#)

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Apr 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

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

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

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

Government Publication Date: Oct 2011- Dec 31, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: Jun 30 2022

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

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
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



PATERSON GROUP

solution oriented engineering



Mark S. D'Arcy, P.Eng., QP_{ESA} Senior Environmental/Geotechnical Engineer

After receiving his Bachelors of Applied Science from Queen's University in 1991 in Geological Engineering, Mark joined Paterson Group Inc. During the first 10 years of Mark's career, he was heavily involved in all aspects of field work, including drilling boreholes, excavating test pits, conducting phase I site inspections, environmental sampling and analysis and inspection of environmental remediations. During Mark's field experience, he gained invaluable field and office experience, which would prepare Mark to become the Environmental Division Manager. Mark's field experience ranges from Phase I Environmental Site Assessments (ESAs) to on-site soil and groundwater remediations, as well as, environmental/geotechnical borehole investigations. Mark's field experience has provided extensive knowledge of subsurface conditions, contractor relations and project management. These skills would provide Mark with the ability to understand a variety of situations, which has lead Paterson to an extremely successful Environmental Department. Mark became the Environmental Manager in 2006, which consisted of two engineers and two field technicians. Mark has been an integral part in growing the Environmental Division, which now consists of nine engineers and three field technicians. Mark is the Senior Project Manager for a wide variety of environmental projects within the Eastern Ontario area including Phase I ESAs, Phase II ESAs, remediations for filing Records of Site Condition in the Ontario Ministry of the Environment and Climate Change (MOECC) Environmental Site Registry, Brownfield Applications and Landfill Monitoring Programs. As the Senior Project Manager, Mark is responsible for directing project personnel, final report review and overall project success. Mark has proven leadership and ability to manage small to large scale projects within the allotted time and budget.

EDUCATION

B.A.Sc. 1991, Geological Engineering
Queen's University
Kingston, ON

LICENCE / PROFESSIONAL AFFILIATIONS

Professional Engineers of Ontario

Ottawa Geotechnical Group

ESA Qualified Person with MECPP

Consulting Engineers of Ontario

YEARS OF EXPERIENCE

With Paterson: 31

OFFICE LOCATION

9 Auriga Drive, Ottawa, Ontario, K2E 7T9

SELECT LIST OF PROJECTS

- 222 Beechwood Avenue, Ottawa, Ontario (Senior Project Manager for Phase I ESA, Phase II ESA, Environmental Remediation)
- 409 MacKay Street, Ottawa, Ontario (Senior Project Manager for Phase I ESA, Phase II ESA, Phase III ESA, Environmental Remediation)
- Art's Court Redevelopment, Ottawa, Ontario (Senior Project Manager for Phase I ESA, Phase II ESA, Phase III ESA, Environmental Remediation)
- Visitor Welcome Centre, Phase II and Phase III, Parliament Hill, Ottawa, Ontario (Senior Project Manager for Environmental Remediation)
- Mattawa Landfill, Mattawa, Ontario (Senior Project Manager, Annual Water Quality Monitoring report)
- Multi-Phase Redevelopment of the Ottawa Train Yards, Ottawa, Ontario (Senior Project Manager)
- Rideau Centre Expansion, Ottawa, Ontario (Senior Project Manager for Phase I ESA, Phase II ESA, Phase III ESA, Environmental Remediation)
- 26 Stanley Avenue, Ottawa, Ontario, Phase I ESA, Phase II ESA(Senior Project Manager)
- Riverview Development – Kingston, Ontario, Phase I ESA, Phase II ESA, and filing of an RSC in the MOECC Environmental Site Registry (Senior Project Manager)
- Monitoring Landfills for River Valley, Kipling and Lavagine (Senior Project Manager)
- Energy Services Acquisition Program–Modernization Project- Ottawa; Environmental Services (Senior Project Manager)

PROFESSIONAL EXPERIENCE

May 2001 to present, **Manager of Environmental Division, Paterson Group, Ottawa, Ontario**

- Manage all aspects of the environmental division (management of personnel, budgeting, invoicing, scheduling, business development, reporting, marketing, and fieldwork).
- Review day to day operations within the environmental division.
- Design, perform, and lead Phase I, II and Phase III ESAs, Remediation's, Brownfield Applications and Record of Site conditions, fieldwork surveys, excavation, monitoring, laboratory analysis, and interpretation.
- Write, present, and publish reports with methodology and laboratory analysis results, along with recommendations for environmental findings.
- Responsible for ensuring projects meet Ministry of Environment and Climate Change Standards and Guidelines.
- Building and fostering relationships with clients, stakeholders, and Ministry officials.
- Supervise and continuous training of staff in environmental methods (environmental sampling techniques, technical expertise and guidance).
- Applied due diligence in ensuring the health and safety of staff and the public in field locations.

1991 to 2001, **Geotechnical and Environmental Engineer, Paterson Group, Ottawa, Ontario**

- Provide on-site geotechnical and environmental expertise to various clients.
- Oversee geotechnical and environmental investigations for drilling and test pitting on numerous proposed utility installations, residential and commercial developments.
- Problem solving to help advance or maintain project schedules.
- Complete environmental reports with recommendations to meet environmental standards set by MOE and CCME standards.
- Conduct site inspections, bearing medium evaluations, bearing surface inspections, concrete testing and field density testing.
- Liaising with contractors, consultants and government officials.
- Provide cost estimates for geotechnical and environmental field programs and construction costs.
- Review RFI's, submittals, monthly progress reports and other various construction related work.