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Phase One Environmental Site Assessment

2775 & 2785 Palladium Drive; and
Block 244 Plan 4M 1687
Ottawa, Ontario

Prepared for:

Palladium Resort Development Limited Partnership
2962 Carp Road
Ottawa, Ontario
K0A 1L0

EXECUTIVE SUMMARY

Palladium Resort Development Limited Partnership has retained LRL Engineering (LRL) to complete a Phase One Environmental Site Assessment Update (ESA) on the property comprised of the three (3) individual parcels of land identified as 2775 & 2785 Palladium Drive; and Block 244 Plan 4M1687 in Ottawa, Ontario (herein referred to as the "Site"). The Site is set within commercial and residential area of the City of Ottawa and is presently un-developed. The properties are legally described as Blocks 243, Block 251 and Block 244, Plan 4M1687, City of Ottawa according to Service Ontario. Cudaff Road bisects the three (3) parcels of land and makes up the western extent of 2775 and 2785 Palladium Drive, Ottawa, Ontario. The Phase One ESA was requested as part of due diligence in support of a proposed Site Plan Application submission with the City of Ottawa. It is understood that a commercial recreational development is anticipated for the Site, which is to include an aquatic park with accommodations and parking infrastructure.

This assessment was conducted to identify potential environmental concerns or liabilities related to the past and present operations conducted on the property and the adjacent lands. A historical review of the Site was conducted, as well as contact with relevant regulatory agencies, a walk-through Site inspection of the property and interviews with those knowledgeable of the Site. It is our understanding that this Phase One Environmental Site Assessment is requested for the above-referenced property in support of an anticipated land leasing and development. The Phase One ESA identifies the existing environmental conditions and potential environmental liabilities associated with the subject property, focusing on the possible presence of contamination on the property. It includes a review of available information (historical data and aerial photographs) and a visual Site inspection to assess potential contamination of past or present activities conducted on the property itself and on adjacent properties.

Potential contamination represents the uncontrolled release of foreign substances within the natural environment. Such an event can result in air, soil and groundwater contamination that may represent environmental liabilities towards the Site and perhaps towards adjacent properties. The ESA evaluates in a consistent manner, within the time constraints imposed for this report, whether such events have occurred at this Site. This level of work is a method of risk reduction and does not eliminate risk for the client.

As mentioned, the Site is comprised of three (3) individual parcels of land, each with the following configuration:

- Block 244 Plan 4M1687 has an irregular rectangular shape being between approximately 120 and 130 m wide (east – west), and between approximately 150 and 155 m in length (north – south) with the southwestern corner of the parcel being slightly encroached into the lot, for a total surface area of approximately 19,925 m² (1.99 ha);
- 2775 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,600 m² (1.66 ha); and
- 2785 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,588 m² (1.66 ha).



Although the Site is not presently developed with infrastructure or services, the neighbouring lands are serviced by municipal sanitary and water distribution supply with associated monuments present along the perimeter of the Site. A review of topographic maps from Natural Resource Canada indicates that topography of the area generally slopes to the northeast. The Site is relatively flat with an elevation of approximately 106 m amsl. According to the Natural Resources Canada interactive mapping system, The Atlas of Canada – Toporama, an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site. The inferred groundwater flow direction is west towards the unnamed water course.

Geological maps were reviewed to obtain information on regional geology and surficial soils. Surficial soil deposit mapping indicates that the subsurface overburden material on the Site consists of Offshore Marine Deposits: clay, silty clay, and silt, commonly calcareous and fossiliferous, locally overlain by thin sand. Bedrock mapping indicates that the overburden is underlain by the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part. According to available MECP water well records, bedrock is found to be between approximate 4.2 and 18.5 m below grade.

The Site is current undeveloped and based on available aerial imagery available through the City of Ottawa's interactive mapping system, geoOttawa, the Site has not been developed since at least 1976. According to the available Counties Maps of 1880 Database, the property was Agricultural or other in 1880. Based on available information collected to date, the Site and the adjacent historical land use are described as follows:

North:	Forested land followed by the Highway 417.
South:	Residential development.
East:	Commercial – Automotive sales and service facilities followed office space and a professional sports stadium.
West	Residential and stormwater management pond.

Land Titles contain legal title information concerning property ownership, transfer details, and any encumbrances such as mortgages or easements. Each time a new transaction occurs, property records are updated as soon as the instrument is registered. According to the available historical chain of title reviewed, many transactions have occurred for the subject Site since it was Crown land between 1840 and 1860. The current owner (as per the records retrieved for this ESA) of 2775 Palladium Drive, 1000210777 Ontario Inc., became owner in 2022 with the land was transferred from Palladium Auto Park No. 2 Limited. The current owner of 2785 Palladium Drive, 100021077 Ontario Inc., became owner in 2022 with the land was transferred from 2325483 Ontario Ltd. The current owner of Block 244 Plan 4M1687, 2325483 Ontario Ltd., became owner in 2022 with the land was transferred from D.D. Kanata Limited.

Aerial photographs reviewed revealed that in the Site has been undeveloped since at least 1945 and the Site and neighbouring lands appear to be used for agricultural fields, with areas of larger vegetation (i.e. trees) sporadically across the subject area. No significant changes to the observations made to the subject Site were encountered until 1991 when dense larger vegetation was observed, suggesting that the agricultural land use has terminated. Palladium Drive is observed to have been constructed in the 2010's "(2011) constructed to the east of the Site, with the ramp proceeding to the Highway 417 present. The Autopark Private is constructed to the east

of the Site with commercial developments surrounding it. Development to the south is observed. Earth moving activities are visible on the Site, with notable mounds of soil in 2019

A potentially contaminating activity is a use or activity set out in Table 2 of Schedule D of the O. Reg. 153/04. The activities on the Site and lands within 300 m generally consist of agricultural, industrial and residential. Based on the results of the Phase One Environmental Site Assessment the following areas of potential environmental concern were identified:

PEC	Location	Comments	Contaminants of Potential Concern	Media Potentially Impacted
APEC 1	On-Site - throughout	According to available historical information and aerial photographs, it has been revealed that the Phase One property encountered significant earth moving activities in 2019 and 2021. Fill material was observed across the ground surface of the Site at the time of the May 8th, 2026, Site visit.	VOC PHC PAH Metals Inorganics	Soil and Groundwater
APEC 2	On-Site – throughout	Based on available aerial imagery, the Site has included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	Metals OC Pesticides	Soil and Groundwater
APEC 3	On-Site – Throughout	Based on available aerial imagery, the surrounding lands within 300 m of the Site have included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	Metals OC Pesticides	Soil and Groundwater
APEC 4	Eastern extent of the Site, namely the eastern extent of 2775 and 2785 Palladium Drive	The City directories retrieved revealed that an automobile body-repairing and painting facility has operated from between 2009/2010 through at least 2025.	VOC PHC Metals	Soil and Groundwater

Notes: PEC – Potential Environmental Concern
PHC – Petroleum Hydrocarbons
VOC – Volatile Organic Compound
PAH – Polycyclic Aromatics

1 - Area of Potential Environmental Concern (APEC) means the area on, in, or under a Phase One Property where one or more contaminants are potentially present, as determined through the Phase One ESA, including through:

- (a) Identification of past or present uses on, in, or under the Phase One Property and
- (b) Identification of potentially contaminating activity.

2 - Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a Phase One Study Area

3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011,

4 - When submitting a record of site condition for filing, a copy of this table must be attached.

The Conceptual Site Model shows one (1) PCA on the property. Although additional potential contaminating activities were identified within 300 m radius from the Site. Some of which due to their down- or trans-gradient direction from the Site with respect to the inferred northeastern groundwater flow direction, or the type materials or activities, they do not present a potential risk for environmental concern to the Site.

- **APEC 1** was generated due to the presence of **PCA 30: Importation of Fill Material of Unknown Quality** which is associated with significant earth moving activities identified in the 2019 and 2021 aerial photographs of the Site. Fill material was observed across the ground surface of the Site at the time of the May 8th, 2026, Site visit.
- **APEC 2** was generated due to the presence of **PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications**, which is associated with the agricultural operations occurring on the Site since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.
- **APEC 3** was generated due to the presence of **PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications**, associated with adjacent land operations as agricultural lands based on available aerial photographs retrieved. Such operations may have included the application of pesticides across the neighbouring lands.
- **APEC 4** was generated due to the presence of **PCA 10: Commercial Autobody Shop**, located at 2500 Palladium Drive, approximately 60 m east (up-gradient) of the Site, the city directories retrieved revealed that an automobile body-repairing and painting facility has operated from between 2009/2010 through at least 2025.

A Phase Two ESA is recommended to access the PCAs and APECs encountered on the property.



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Appendix A	Fire Insurance Plans
Appendix B	Chain of Title Search
Appendix C	City Directory
Appendix D	Ecolog Eris Report
Appendix E	TSSA Correspondence
Appendix F	Various Mapping
Appendix G	Aerial Photographs
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1 INTRODUCTION

Palladium Resort Development Limited Partnership has retained LRL Engineering (LRL) to complete a Phase One Environmental Site Assessment Update (ESA) on the property comprised of the three (3) individual parcels of land identified as 2775 & 2785 Palladium Drive; and Block 244 Plan 4M1687 in Ottawa, Ontario (herein referred to as the “Site”). The Site is set within a commercial and residential area of the City of Ottawa and is presently un-developed. The properties are legally described as Blocks 243, Block 251 and Block 244, Plan 4M1687, City of Ottawa according to Service Ontario. Culdaff Road bisects the three (3) parcels of land and makes up the western extent of 2775 and 2785 Pallidum Drive, Ottawa, Ontario. The Site’s location is shown in **Figure 1**. The Phase One ESA was requested as part of due diligence in support of a proposed Site Plan Application submission with the City of Ottawa. It is understood that a commercial recreational development is anticipated for the Site, which is to include an aquatic park with accommodations and parking infrastructure. The Site is current undeveloped, and based on available aerial imagery available through the City of Ottawa’s interactive mapping system, geoOttawa, the Site has been free of significant developed since at least 1946, with only agricultural or earth moving operations since this time.

This assessment was conducted to identify potential environmental concerns or liabilities related to the past and present operations conducted on the property and the adjacent lands. A historical review of the Site was conducted, as well as contact with relevant regulatory agencies, a walk-through Site inspection of the property and interviews with those knowledgeable of the Site. It is our understanding that this Phase One Environmental Site Assessment is requested for the above-referenced property in support of an anticipated land leasing and development.

The Phase One ESA identifies the existing environmental conditions and potential environmental liabilities associated with the subject property, focusing on the possible presence of contamination on the property. It includes a review of available information (historical data and aerial photographs) and a visual Site inspection to assess potential contamination of past or present activities conducted on the property itself and on adjacent properties.

Potential contamination represents the uncontrolled release of foreign substances within the natural environment. Such an event can result in air, soil and groundwater contamination that may represent environmental liabilities towards the Site and perhaps towards adjacent properties. The ESA evaluates in a consistent manner, within the time constraints imposed for this report, whether such events have occurred at this Site. This level of work is a method of risk reduction and does not eliminate risk for the client.

For the purpose of this report, Palladium Drive will be inferred as running in a north – south configuration. As mentioned, the Site is comprised of three (3) individual parcels of land, each with the following configuration:

- Block 244 Plan 4M1687 has an irregular rectangular shape being between approximately 120 and 130 m wide (east – west), and between approximately 150 and 155 m in length (north – south) with the southwestern corner of the parcel being slightly encroached into the lot, for a total surface area of approximately 19,925 m² (1.99 ha);
- 2775 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,600 m² (1.66 ha); and
- 2785 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,588 m² (1.66 ha).

Although the Site is not presently developed with infrastructure or services, the neighbouring lands are serviced by municipal sanitary and water distribution supply. A review of topographic maps from Natural Resource Canada indicates that topography of the area generally slopes to the northeast. The Site is relatively flat with an elevation of approximately 106 m amsl. According to the Natural Resources Canada interactive mapping system, *The Atlas of Canada – Toporama*, an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site. The inferred groundwater flow direction is west towards the unnamed water course.

Geological maps were reviewed to obtain information on regional geology and surficial soils. Surficial soil deposit mapping indicates that the subsurface overburden material on the Site consists of Offshore Marine Deposits: clay, silty clay, and silt, commonly calcareous and fossiliferous, locally overlain by thin sand¹. Bedrock mapping indicates that the overburden is underlain by the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part². According to available MECP water well records, bedrock is found to be between approximate 4.2 and 18.5 m below grade.

1.1 Phase One Property Information

The Phase One Property Information is summarized below in the following **Table 1** and **Table 2**.

The location of the Phase One Property is presented in **Figure 1**.

A Legal Survey was not available in support of this Phase One Environmental Site Assessment.

Table 1: Phase One Property Information – Authorized and Regulation

Parameters	Information
Work Authorization	The formal authorization to proceed with the Phase One ESA was received by LRL on April 27 th , 2026.
Purpose of Phase One ESA	A Phase One ESA is required for the above-referenced property in support of an anticipated commercial development application. This assessment was conducted to identify potential environmental concerns or liabilities related to the past and present operations conducted on the property and adjacent lands. The Phase One ESA identifies the existing environmental conditions and potential environmental liabilities associated with the subject property, focusing on the possible presence of contamination on the property. It includes a review of available information (historical data and aerial photographs) and a visual Site inspection to assess potential evidence of past or present activities conducted on the property itself and on adjacent properties that could be potentially contaminating activities (PCA). Potential contamination represents the uncontrolled release of foreign substances within the natural environment. Such an event can result in air, soil and groundwater contamination that may represent environmental liabilities toward the Site and perhaps toward adjacent properties. The ESA evaluates in a consistent manner, within the time

¹ St-Onge, D. A., Surficial geology, lower Ottawa Valley, Ontario-Quebec, Geological Survey of Canada, Map 2140A, scale 1:125 000, 2009.

² Harrison, J. E. Generalized Bedrock Geology, Ottawa – Hull, Ontario and Quebec, Geological Survey of Canada, Map 1508A, Scale 1:125 000, 1976.

	constraints imposed for this report, whether such events have occurred at this Site. This level of work is a method of risk reduction and does not eliminate risk for the client.
Record of Site Condition	It is understood that the property will be developed with a recreational facility (water park with accommodations and parking). The Site uses are anticipated to be permitted pending the review and approval of the associated zoning amendment. A Record of Site Condition (RSC) is not anticipated to be required based on the details provided at the time this report was prepared.
Regulation/Guideline used for Phase One ESA	• Canadian Standards Association (CSA) Phase One Environmental Site Assessment, Z768 01 (R2022); and • Ontario Regulation (O. Reg.) 153/04, as amended
Sampling and Testing	As part of a Phase One ESA, in-situ sampling, measuring, testing or analyzing the conditions and characteristics of soil, groundwater, or building materials (if applicable) across the subject Phase One ESA Site is not included. These activities would be completed as part of a Phase Two ESA or a designated substance and hazardous material survey if required. It should be noted that the Site is presently un-developed therefore a designated substance survey is unlikely.
Reliance of Report	This report is intended for the sole use of Palladium Resort Development Limited Partnership and their authorized agents. LRL Engineering will not be responsible for any use of the information contained within this report by any third party.

Table 2: Phase One Property Information

Parameters	Information
Location/Address	The two (2) parcels of land located to the east of Cudaff Road: 2775 and 2785 Palladium Drive, Ottawa, Ontario; and No formal civic address is available for the parcel to the west of Cudaff Road: Block 244 Plan 4M1687, Ottawa, Ontario. The location of the Site is presented in the included Figure 1.
Property Identification Number (PIN)	PIN#:04487-3336 (LT) PIN#:04487-3344 (LT) PIN#:04487-3337(LT)
Legal Description	The properties are legally described as Blocks 243, Block 251 and Block 244, Plan 4M1687, City of Ottawa according to Service Ontario. A Legal Survey was not provided as part of this Phase One Environmental Site Assessment.
Zoning	The Site is currently zone as Business Park Industrial (IP), which permitted uses include recreational facilities or recreational parks, and hotels, much like that proposed for the Site.



Dimensions	The property is comprised of three (3) individual parcels, each having the following dimensions: - Block 244, Plan 4M1687 has an irregular rectangular shape being between approximately 120 and 130 m wide (east – west), and between approximately 150 and 155 m in length (north – south) with the southwestern corner of the parcel being slightly encroached into the lot, for a total surface area of approximately 19,925 m² (1.99 ha); 2775 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,600 m² (1.66 ha); and 2785 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,588 m² (1.66 ha). The general Site configuration is shown on the Site Plan in Figure 2. For the purposes of this report, Palladium Drive will be inferred as running in a north – south direction.
Frontage / Access to Phase One ESA Property	Culdaff Road to the west of 2775 and 2785 Palladium Drive; and Culdaff Road to the east of Block 244, Plan 4M1687.
Occupancy	Not Applicable. Undeveloped – Vacant.
Current Land Use	Undeveloped
Proposed Land Use	Commercial – Recreational Facility with Accommodations and Parking
Phase One ESA Property Owner	2775 Palladium Drive: 1000210754 Ontario Inc. since June 2022. 2785 Palladium Drive: 1000210777 Ontario Inc. since June 2022. Block 244, Plan 4M1687: 2325483 Ontario Ltd.
Phase One ESA Property Contact	Palladium Resort Development Limited Partnership

LRL Engineering was retained by the potential developer of the of the property, to complete the Phase One ESA.



2 SCOPE OF INVESTIGATION

The Phase One ESA scope of the investigation is generally summarized in the following **Table 3**:

Table 3: Phase One ESA Scope of Investigation

Parameter	Information
Regulation/Guideline used as part of the Phase One ESA	The Phase One ESA was carried out in accordance with the following regulations and guidelines: - Parts I through VI of Schedule D of O. Reg. 153/04, as amended, made under the Environmental Protection Act (R.S.O. 1990, Chapter E.19). - Canadian Standards Association (CSA) Phase I Environmental Site Assessment, Z768 01 (R2022).
Records Review	The Phase One ESA study area included a minimum radius from the Site boundaries of 300 m. The records which were reviewed and interpreted as part of the assessment, for the Phase One ESA property, and the Phase One ESA study area, included: Chain of Title Search; Fire Insurance Plans; Aerial Photographs including historical and current imagery; Topographical, Physiography, and Geological Maps; Previous Investigation reports for the Phase One ESA property, including Phase One ESAs, Phase Two ESA, or Geotechnical Reports; Well Head Protection Areas, Areas of Natural and Scientific Interest (ANSI) as maintained by the Ontario Ministry of Natural Resources; Water Well Information Systems; Permits to Take Water; Waste Disposal sites; Waste Generators & Receiver Information (Ontario Regulation 347); Private & Retail Fuel Storage Tanks (TSSA); Coal Gasification Plants and Coal Tar and Related Tar Industries, Certificates of Approval; Environmental Compliance Reports; Orders; Spills; Notices; Offences or Inspection Reports by the Ontario Ministry of the Environment, Conservation and Parks (MECP); Inventory of PCB Storage Sites; RSC on adjoining property; Certificates of Property Use; National Pollution Release Inventory (NPRI); National PCB Inventory; and all other available illustrated atlases, land registry records and government records. A Freedom of Information (FOI) request was made to the MECP, for a record search in relation to reportable spills, orders, and convictions associated with the Phase One Property. An Historical Land Use Inventory (HLUI) was also requested to the City of Ottawa to gain information on incidents or activities which may be considered a potential contaminating activity to the Site. EcoLog Environmental Risk Information Service (ERIS) was obtained to complete searches in all available environmental databases, including but not limited to the following: - National Pollutant Release Inventory (NPRI); PCB information; - Environmental Approvals, permits and certificates; - Inventory of coal gas plants; Records concerning environmental incidents; - Waste management records, including Ontario Regulation 347 Waste Generators; - Fuel storage tanks information, including Technical Standards and Safety Authority (TSSA) database;

	• Landfill information; and • Records of Site Condition
Interview	Interview current and previous owners and/or tenants as well as local and provincial authorities who have knowledge of the Phase One ESA property.
Site Reconnaissance	The Site reconnaissance consisted of a walk-through of the Phase One Property, including a visual inspection of the current land use for the purpose of validating the current and past land uses of Phase One Property, which will be identified by historical searches. The observations of the Phase One ESA property and those of the Phase One Study Area were used to further identify the potential presence of staining or distressed vegetation, which may be an indication of a possible environmental concern.
Records and Observations Evaluation	The information gathered from the records review, interview, and Site reconnaissance were reviewed and evaluated for any Potentially Contaminating Activities (PCAs) and any Areas of Potential Environmental Concerns (APECs).
Reporting	Preparation of a Phase One ESA Report, which includes and summarizes the findings of the assessment, records evaluation, and provides recommendations for further investigation (if necessary).

This report will present the results of the ESA carried out between April 30th, 2026, and June 3rd, 2026.

3 RECORDS REVIEW

3.1 General

The historical records review of readily available past, and present, land use of the Phase One Property and the surrounding area included:

- Chain of Title Search;
- Fire Insurance Plans;
- Topographical, Physiographical, Geological Maps; and
- Aerial Photographs (current, and historical, and generally representative of each decade where available).

3.1.1 Phase One Study Area Determination

As per Ontario Regulation 153/04 (as amended), a 300 m radius from the Phase One Property boundaries is used to establish the presence of Potentially Contaminating Activities (PCAs) with respect to historical or current land use and activities. These PCAs may cause a potential effect to the environment quality of the soil and groundwater, on or under the Phase One Property. In support of this Phase One Environmental Site Assessment Update, any property which is fully or partially within the 300 m zone has been included in this assessment.



3.1.2 First Developed Use Determination

First developed use is defined by O. Reg. 153/04 Section 22 (1) as the first property use after 1875 that resulted in a building or structure or the first potentially contaminating activity, whichever is earlier. According to the Canadian County Atlas – 1880 Map of Ontario, the Site has been used for agriculture or other since at least 1880. Based on available aerial imagery, the property has continued to be used since at least 1976 for agricultural or other.

3.1.3 Fire Insurance Plans

Fire Insurance Plans (FIP) mapped streets and buildings of urban Canada in great detail and illustrated building construction, occupancy and potential fire hazards. They also provide detailed information regarding storage tanks, transformers, boilers, and electrical rooms. The original plans were produced between 1875 and 1923 and continued to be produced and updated until production ceased in 1974.

No Fire Insurance Plans were available for the Site or surrounding Areas. A copy of the correspondence is included in **Appendix A**.

3.1.4 Property Underwriters' Report

Property Underwriters Site Plans and Reports provide detailed information on a site-specific basis and include descriptions of building construction, heating sources, production processes, and the presence of chemicals or materials which may be stored on Site. They also indicate the presence of environmental hazards such as electrical rooms, transformers, boilers, and storage tanks.

No Property Underwriters' Reports were available for the Site.

3.2 Chain of Title

Land Titles contain legal title information concerning property ownership, transfer details, and any encumbrances such as mortgages or easements. Each time a new transaction occurs, property records are updated as soon as the instrument is registered. Schedule D of O. Reg. 153/04, as amended, specifies that the Chain of Title search should include all titles to date, dating back to Crown land.

The search of the Service Ontario Land Registry Office was completed by ERIS on April 2nd, 2026. A copy of the Chain of Title is included in **Appendix B**, and a summary of the pertinent information retrieved is summarized below in **Table 4**.



Table 4: Chain of Title

Property	Date	Party From	Party To
2775 Palladium Drive Block 243, Plan 4M1687, Palladium Drive, Ottawa	July 10, 1840	Crown	James ROE
	April 15, 1867	James ROE	William ROE
	April 8, 1890	William ROE	Henry Allen
	October 28, 1942	County of Carleton (Henry Allen defaulted in taxes)	John Hartins
	October 28, 1942	John Hartins	William ROE
	June 5, 1964	William ROE	Mary Lennox Blackburn
	December 29, 1989	Mary Lennox Blackburn	Terrace Investments Limited
	December 29, 1991	Terrace Investments Limited	958740 Ontario Inc.
	September 26, 2003	958740 Ontario Inc.	Palladium Auto Park Limited
	February 16, 2005	Palladium Auto Park Limited	Palladium Auto Park No. 2 Limited
	October 26, 2021	Palladium Auto Park No. 2 Limited	2325483 Ontario Ltd.
	November 23, 2021	2325483 Ontario Ltd.	Palladium Auto Park No. 2 Limited
	June 9, 2022	Palladium Auto Park No. 2 Limited	1000210754 Ontario Inc.
Property	Date	Party From	Party To
2785 Palladium Drive Block 251, Plan 4M1687, Palladium Drive, Ottawa	July 10, 1840	Crown	James ROE
	April 15, 1867	James ROE	William ROE
	April 8, 1890	William ROE	Henry Allen
	October 28, 1942	County of Carleton (Henry Allen defaulted in taxes)	John Hartins
	October 28, 1942	John Hartins	William ROE
	June 5, 1964	William ROE	Mary Lennox Blackburn
	December 29, 1989	Mary Lennox Blackburn	Terrace Investments Limited
	December 29, 1991	Terrace Investments Limited	958740 Ontario Inc.
	September 26, 2003	958740 Ontario Inc.	Palladium Auto Park Limited
	February 16, 2005	Palladium Auto Park Limited	Palladium Auto Park No. 2 Limited
	October 26, 2021	Palladium Auto Park No. 2 Limited	2325483 Ontario Ltd.
	November 23, 2021	2325483 Ontario Ltd.	Palladium Auto Park No. 2 Limited
	June 9, 2022	Palladium Auto Park No. 2 Limited	1000210777 Ontario Inc.
Property	Date	Party From	Party To
Block 244, Plan 4M1687	July 9, 1860	Crown	Joseph Ralph
	June 19, 1896	Thomas Gracey, exor. Or Joseph Ralph	Arner Gracey
	January 14, 1905	Arner Gracey	James Boyd
	June 11, 1915	James Boyd	Alexander B. Boyd
	June 11, 1915	Alexander B. Boyd	James Boyd
	November 4, 1960	James Boyd – estate (Will)	Byron A. Boyd
	June 11, 1974	Byron A. Boyd – estate	Uri Goldberg, Benzion Gottlieb & Arnon Miller
	February 21, 2006	Uri Goldberg et al	D.D. Kanata Limited
	June 21, 2012	D.D. Kanata Limited	2325483 Ontario Ltd.

3.3 Previous Reports

3.3.1 Limited Phase II Environmental Site Assessment, Proposed Indoor Aquatic and Recreation Facility, 2775, 2785 Palladium Drive, Ottawa, Ontario, prepared by LRL Engineering, July 31, 2025;

LRL complete a Limited Phase II Environmental Site Assessment (ESA) at the property located at 2775, 2785 Palladium Drive, in Ottawa, Ontario. It was understood that the Limited Phase II ESA was requested in support of due diligence with respect proposed development planning consideration.

The site under investigation included 2775 and 2785 Palladium Drive in Ottawa, Ontario. At the time of this assessment, the Site was generally undeveloped and covered with overgrown vegetation. It was understood at the time of the assessment that the proposed use would be commercial (indoor aquatic and recreation facility).

Based on available aerial imagery available through the City of Ottawa's interactive mapping system, geoOttawa, reviewed as part of the assessment, it was found that the property of concern had not been developed since at least 1976. No significant changes to the subject site were observed in the subsequent aerial imagery until 2019, when earth moving activities are evident on the site. These activities continue in the 2021 aerial imagery. It is unclear whether the earth moving activities involved removal soil from the property, or the introduction of soil. Large piles of material are evident in the images across the subject site, however their origin is unknown.

The report indicated that a Phase One Environmental Site Assessment was completed for the southern portion of the Site (2775 Palladium Drive) in February 2024 by Pinchin Ltd. The assessment was completed to identify any potential areas of environmental concern associated with the Site. LRL reviewed a copy of the report to obtain further information regarding potential environmental risks and concerns relating to the Site. Based on LRLs review of the report prepared by others, although this previously prepared report does not indicate any potential contaminating activities which may be of concern to the Site, through LRLs search of available historical aerial imagery, and other mapping tools, the following potential contaminating activity was identified on the Site (2275 and 2285 Palladium Drive):

- O. Reg. 153/04 PCA 30: Importation of Fill Material of Unknown Quality.

To address the potential contaminating activity identified, 12 boreholes were advanced across the Site from between March 31st and April 10th, 2025, in conjunction with a geotechnical investigation. The boreholes were advanced to depths between 2.4 and 6.6 m bgs using a CME 75 track-mounted drill rig equipped with 203 mm diameter hollow stem augers. Practical auger refusal over bedrock was encountered in each of eight (8) of the boreholes advanced. Boreholes BH-2, BH-7, BH-10 and BH-11, which were terminated at a depth of 3.6 m below grade, as per the mandate for this assessment.

During the borehole advancement, representative soil samples from each soil stratum encountered or split sampler were collected. No olfactory or visual (i.e. staining or free phase) evidence of petroleum hydrocarbon impacts were observed in any of the soil samples collected. CSV concentrations of select soil samples collected were all non-detect (<0.1 ppm). Evidence of suspected fill material was encountered at various borehole locations across the site, however no evidence of buried waste was uncovered.

VOC, PHC F1 and PHC F2 parameters analysed were not detected in soil samples submitted for laboratory analysis. PHC F3 and PHC F4 parameters were detected in each of the samples submitted, with the exception of BH14-SS, with concentrations reported below the respective site

condition standards, and potential excess soil off-Site receptor standards. A total of five (5) samples were submitted for PAH analysis. These parameters were reported below the laboratory detection limits in each of the samples analysed. Organochlorine (OC) Pesticides were not detected in any of the soil samples submitted for laboratory analysis.

The samples submitted for metals and inorganics analysis revealed that various parameters were detected, however no exceedances to the applicable provincial standards and potential excess soil off-Site receptor standards were encountered.

The quality of the groundwater on the site was not confirmed as part of this Limited Phase II ESA.

Based on the observations during drilling activities complemented with sample screening and laboratory analysis, although select parameters were detected, concentrations reported were found to meet the applicable O. Reg. 153/04, as amended Table 3 Site Condition Standards, as well as the O. Reg. 406/19 standard for off-Site disposal.

3.3.2 Geotechnical Investigation, Proposed Indoor Aquatic and Recreation Facility, 2775, 2785 Palladium Drive, Ottawa, Ontario, prepared by LRL Engineering, May 2025;

LRL completed a geotechnical investigation for a proposed indoor aquatic and recreation facility, to be located at 2775, 2785 Palladium Drive, Ottawa, Ontario. The purpose of the investigation was to identify the subsurface conditions across the site by the completion of a borehole drilling program. Based on the visual and factual information obtained, this report will provide guidelines on the geotechnical engineering aspects of the design of the project, including construction considerations.

At the time of generating this report, it was understood that development would consist of construction of an indoor aquatic and recreation facility, an entrance and support building (2-storey), two (2) hotel buildings (6-storey) and on-grade parking. Specific details about founding elevations and information pertaining to basement levels, if any; were not available at the time the report was prepared.

The investigation included the advancement of 23 boreholes across the subject property from between March 31st and April 10th, 2025, in conjunction with the limited Phase II Environmental Site Assessment mentioned in Section 3.3.1. The boreholes were advanced to depths ranging between 2.45 and 10.67 m below (existing) ground surface (bgs). NQ-size bedrock coring was carried out in five (5) of the boreholes after practical auger refusal. Upon completion, the boreholes were backfilled using the overburden cuttings. Piezometers were installed in five (5) of the boreholes to measure the static groundwater elevation. These consisted of ¾" PVC pipe with slotted bottoms, backfilled with silica sand, and sealed with bentonite.

The overburden materials were described to include Fill material from depth of between 0.76 and 2.21 m below grade in select locations. Other boreholes and underlying native overburden conditions reported included sand and silt; sandy silt; silty sand; silty clay; clayey silt; and silty. Refusal over inferred bedrock of large boulders was encountered in select locations at depths of between 2.45 and 9.15 m below grade.

Static groundwater levels encountered in the piezometers installed ranged between 1.80 and 4.60 m on May 15th, 2025. It should be noted that select monitoring wells extent into the bedrock, whereas others were terminated in the overburden. Additionally, the reports notes that groundwater levels could fluctuate with seasonal weather conditions, (i.e.: rainfall, droughts, spring thawing) and due to construction activities at or near the vicinity of the site.



3.4 City Directories

City directories have been produced for most urban and some rural areas since the late 1800s. These directories are often archived in research and municipal libraries. The directories are generally not comprehensive and may contain gaps in time periods. Where available, city directories were reviewed in a minimum five-year increment to determine historical property use of the subject and adjoining properties. The City Directories search was completed by ERIS and included a search of the Mights; Polks; Vernons; and Digital Business Directory.

A copy of the City Directory is included in **Appendix C**, and a summary of the findings is included below in **Table 5**:

Table 5: City Directories

Location	Details
Years Searched:	1991 - 2025
Historical Property Uses:	
Subject Site:	Palladium Drive, and Culdaff Road, which front the eastern extents of the individual parcels which make up the Site, are generally not listed from between 1991 and 2023. In 2006/07, Palladium Drive was listed, however the available address range excluded the Site. Culdaff Road was listed in 2025, however the available addresses did not include the Site. Therefore, the Subject Site was not listed in the available search period, from between 1991 and 2025.
Adjacent Lands:	
Palladium Drive:	Palladium Drive was not listed from between 1991 through 2006/2007. 2500 Palladium Drive: COMMERCIAL (2009/10 through 2025) including various new car dealers, used car dealers, passenger cars rental facilities, truck , trailer, & rv rental & leasing, automobile body-repairing & painting, industrial machinery merchant wholesale. In 2023 and 2025, Ray Adnan was listed but is identified as a non-classified establishment. 3015 Palladium Drive: COMMERCIAL (2023 - 2025) including a food-carry out, and restaurant facility; 3055 Palladium Drive: COMMERCIAL (2021 – 2025); oil field equipment-repairing, automobile repairing & service, hydraulic equipment & supplies, automobile parts & supplies -retail-new; 3065 Palladium Drive: COMMERCIAL (2021 - 2025); sporting goods retail, sunglasses & sun goggles outfitters; 3199 Palladium Drive: COMMERCIAL (2025): Computer Consultants; and 3280 Palladium Drive: COMMERCIAL (2021 - 2025) Dentists.

Unity Place: Unity Place was not listed from between 1991 and 2023.

114 Unity Place: RESIDENTIAL (2025);

116 Unity Place: RESIDENTIAL (2025); and

126 Unity Place: RESIDENTIAL (2025).

Culdaff Road: Culdaff Road is not listed from between 1991 and 2023.

520 Culdaff Road: RESIDENTIAL (2025); and

530 Culdaff Road: RESIDENTIAL (2025).

Derreen Avenue: Derreen Avenue is not listed from between 1991 and 2023.

731 Derreen Avenue: RESIDENTIAL (2025); and

811 Derreen Avenue: RESIDENTIAL (2025).

Bermondsey Drive: Bermondsey Drive is not listed from between 1991 and 2023.

42 Bermondsey Drive: RESIDENTIAL (2025); and

50 Bermondsey Drive: RESIDENTIAL (2025).

Relevant information regarding potentially contaminating activity and areas of potential environmental concern

Generally, no potentially contaminating activities were identified from the City Directory listings; as the majority of the records are residential or commercial retail or restaurants which do not present a potential risk for environmental concern. Three (3) listed neighbouring property activities however are considered potential contaminating activities, which include the following:

- 2500 Palladium Drive, which is listed as including an automobile body-repairing and painting facility from between 2009/2010 and 2025 is considered a Potential Contaminating Activity (PCA 10: Commercial Autobody Shop), according to O. Reg. 153/04, as amended. 2500 Palladium Drive is located approximately 60 m east, up-gradient, of the Site, and presents a potential risk for environmental concern to the Site.
- 3055 Palladium Drive, which is listed as oil field equipment-repairing, automobile repairing & service, hydraulic equipment & supplies, automobile parts & supplies -retail from between 2021 and 2025 is considered a Potential Contaminated Activity (PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems), according to O. Reg. 153/04, as amended. 3055 Palladium Drive is located beyond the Phase One Study Area included in this assessment (approximately 500 m north, down-gradient Site). Due to the down-gradient location and distance beyond the respective Phase One Study Area, these activities do not present a potential risk for environmental concern to the Site.
- 3280 Palladium Drive is listed as a dentist from between 2021 and 2025. Dentist are known to use and store small amounts of metals for dental procedures which can be considered a potential risk for environmental concern. However, due to the distance and location from the Site, approximately 1.2 km north (down-gradient) from the Site, these activities do not present a potential risk for environmental concern.

No additional areas of potential concern were identified.

3.5 Environmental Source Information

As part of the Phase One ESA, a search was completed for available federal, provincial, and private databases. The search covered the Phase One ESA Site, as well as the Phase One Study Area. The information was obtained through the following search providers:

- EcoLog ERIS search provider;
- MECP Water Well Registry;
- MECP Freedom of Information (FOI) Request; and
- Technical Standards and Safety Authority (TSSA).

A summary of the records retrieved pertaining to the Phase One ESA Study Area, interpreted from the ERIS reports received, is summarized below in **Table 6**. A copy of the report provided is included in **Appendix D**.

Table 6: Summary of ERIS Search Records

Database Searched	Records Retrieved		Description of data, analysis and findings relevant to the Phase One ESA
	Phase One Property	Phase One Study Area	
National Pollutant Release Inventory - Historic (NPRI)	0	0	No records were found within a 300 m radius of the Site.
Certificate of Approval (C of A)	0	0	No records were found within a 300 m radius of the Site.
Pesticide Register (PES)	0	0	No records were found within a 300 m radius of the Site.
Permit to Take Water (PTTW)	0	1	One (1) record of a PTTW was retrieved within a 300 m radius from the Site. The record was not listed for the Site, but rather 2325483 Ontario Ltd. for the property identified as 195 Huntmar Drive, approximately 300 m southeast of the Site.
Environmental Activity and Sector Registry (EASR)	0	0	No records were found within a 300 m radius of the Site.
Ontario Regulation 347 Waste Generators Summary (GEN)	0	0	No records were found within a 300 m radius of the Site.
Record of Site Condition (RSC)	0	0	No records were found within a 300 m radius of the Site.



Database Searched	Records Retrieved		Description of data, analysis and findings relevant to the Phase One ESA
	Phase One Property	Phase One Study Area	
Retail Fuel Storage Tanks (RST)	0	0	No records were found within a 300 m radius from the Site.
Environmental Registry (EBR)	0	0	No records were found within a 300 m radius from the Site.
ERIS Historical Searches (EHS)	0	5	Five (5) records were found within a 300 m radius from the Site. None were found for the subject Site. Due to the type of record, no additional details are included in this report.
Water Well Information System (WWIS)	0	4	Four (4) records were found within a 300 m radius from the Site. None were found on the Site. The location and general construction details for the records retrieved are summarized as follows: - Well No. 1519823 is a domestic supply and livestock supply well installed in 1985 at Lot 2, Concession 1 in Ottawa. According to search provider, this record is located immediately north of the eastern extent of the Site. Domestic supply wells do not present a potential risk for environmental concern; - Well No. 1534471 is a domestic supply well installed in 2004 at Lot 2, Concession 1 in Ottawa. According to search provider, this record is located immediately north of the eastern extent of the Site. Domestic supply wells do not present a potential risk for environmental concern; - Well No. 7476826 is identified approximately 60 m of south of the Site. No details with respect to the type of well (domestic or observation) is provided. The well was installed in March 2024; and - Well No. 7476825 is identified approximately 90 m of south of the Site. No details with respect to the type of well (domestic or observation) is



Database Searched	Records Retrieved		Description of data, analysis and findings relevant to the Phase One ESA
	Phase One Property	Phase One Study Area	
			provided. The well was installed in March 2024.
Environmental Condition Reports	--	--	Not included in Phase One ESA ERIS searches.
Areas of Natural Significance	--	--	Not included in Phase One ESA ERIS searches.
Fuel Oil Spills and Leaks (INC)	0	0	No records were found within a 300 m radius from the Site.
Fuel Storage Tanks (FST)	0	0	No records were found within a 300 m radius from the Site.
Fuel Storage Tank – Historic (FSTH)	0	0	No records were found within a 300 m radius from the Site.
Environmental Compliance Approval (ECA)	0	5	Five (5) records were found within a 300 m radius of the Site. The records are summarized below: • Turpin Saturn SAAB Limited, identified at Part of Front Half Lot 2, Concession 1, Huntley Township, Ottawa, has an approved ECA for industrial sewage works, dated May 2006. According to search provider, this record is located immediately north of the eastern extent of the Site. This record does not present a potential risk for environmental concern due to the type of ECA issued; • Vik One Holding Ltd., identified at Part of Front Half Lot 2, Concession 1, Huntley Township, Ottawa, has an approved ECA for industrial sewage works, dated May 2006. According to search provider, this record is located immediately north of the eastern extent of the Site. This record does not present a potential risk for environmental concern due to the type of ECA issued; • Turpin Pontiac Buick Limited, identified at Part of Front Half Lot 2, Concession 1, Huntley Township, Ottawa, has an

Database Searched	Records Retrieved		Description of data, analysis and findings relevant to the Phase One ESA
	Phase One Property	Phase One Study Area	
			approved ECA for industrial sewage works, dated May 2006. According to search provider, this record is located immediately north of the eastern extent of the Site. This record does not present a potential risk for environmental concern due to the type of ECA issued; - Capital Two Investments Limited, identified at Part of Front Half Lot 2, Concession 1, Huntley Township, Ottawa, has an approved ECA for industrial sewage works, dated November 2006. According to search provider, this record is located immediately north of the eastern extent of the Site. This record does not present a potential risk for environmental concern due to the type of ECA issued; and 2325483 Ontario Ltd., located at 195 Huntmar Drive, 2499 Palladium Drive in Ottawa, is listed as being approved an ECA for municipal and private sewage works in September 2020. The reported location by the search provider for this record is approximately 250 m south of the Site. This record does not present a potential risk for environmental concern due to the type of ECA issued. Due to the types of approvals issued, the records retrieved do not present a potential risk for environmental concern.
National PCB Inventory (NPCB)	0	0	No records were found within a 300 m radius of the Site.
Private and Retail Fuel Storage Tanks (PRT)	0	0	No records were found within a 300 m radius from the Site.
Scott's Manufacturing Directory (SCT)	0	0	No records were found within a 300 m radius of the Site.
Ontario Spills (SPL)	0	2	Two (2) records of spills were retrieved within a 300 m radius of the Site. The records are summarized as follows:

Database Searched	Records Retrieved		Description of data, analysis and findings relevant to the Phase One ESA
	Phase One Property	Phase One Study Area	
			- An incident was reported at the intersection of Derreen Avenue and Culdaff Road in December 2022. This is approximately 125 m south of the Site (up-gradient). The incident was recorded as a 2" natural gas strike. Due to the type of material released, the incident is not considered a concern to the Site or neighbouring lands; and - Thomas Cavanagh Construction Limited reported approximately <20 L of pigmented curing compound released in May 2023. The location of the incident is reported by the search provider as being approximately 250 m south of the Site, up-gradient, to the west of the Robert Grant Avenue and Ballinora Lane intersection. Due to the small quantity released, the distance from the Site, and overall product composition, the incident presents a low risk for environmental concern to the Site.

3.5.1 City of Ottawa

3.5.1.1 Historical Land Use Inventory

A Historical Land Use Inventory request with the City of Ottawa has not been completed at this time. Such a request will require the current landowner to authorize LRL to gain information related to the property. At the time this report was prepared, the contact details of the owner of the property were not available. Additionally, each of the lots are un-developed, therefore interviews to gain this information was not practical.

3.5.1.2 1988 Intera Report – Mapping and Assessment of Former Industrial Sites, City of Ottawa

Prior to the 2001 amalgamation, the City did not have a consolidated database of environmental concerns for City properties and typically referred all inquiries to the *1988 Mapping and Assessment of Former Industrial Sites, City of Ottawa*, prepared by Intera Technologies Ltd. (1988 Intera Report). This report describes an inventory and assessment study of former industrial sites in the former (prior to the 2001 amalgamation) City of Ottawa from 1850 to 1984 that likely produced or handle hazardous wastes and materials. LRL reviewed a physical copy of the 1988 Intera Report.

The subject site is not included in the 1988 Intera Report, as the City of Ottawa limits did not include the area of Palladium Drive.

3.5.1.3 City of Ottawa Old Landfill Management Strategy Document, 2004

A report entitled *Old Landfill Management Strategy Phase 1 – Identification of Sites City of Ottawa, Ontario*, was prepared by Golder Associates for the City of Ottawa in 2004. This report identified old landfill site for potential environmental consideration within the boundary of the amalgamated City of Ottawa.

LRL reviewed this report as part of the Phase One ESA for the Site and found no landfills present within 300 m of the Site.

3.5.2 Ontario Ministry of Environment Conservation, and Parks Freedom of Information Act

The Ontario Ministry of the Environment, Conservation, and Parks (MECP) was contacted under the Freedom of Information Act (FOI) to obtain available information for the Site regarding:

- Certificates of Approvals or any permits relating to air emissions (including noise), water taking and discharging, waste disposal sites, septic systems, pesticides storage or other similar instruments.
- Incidents, orders, offences, spills, discharges of contaminants or inspections;
- Waste management records, including current and historical waste storage locations and waste generator and waste receiver information; and
- Reports submitted to the MECP related to the environmental conditions of the property.

Under the Freedom of Information Act, a freedom of Information Request was made to the MECP. The MECP has acknowledged our request. A formal response of the searches is anticipate.

3.5.3 Inventory of Coal Tar Industrial Sites in Ontario

The MECP has created an inventory of all known and historical coal gasification plants. It identifies industrial sites that produced and continue to produce or use coal tar or other related tars. The program was discontinued in 1988. A search of the databased revealed no records within a 300 m radius from the Site.

3.5.4 Technical Standards and Safety Authority

Fuel storage at commercial and industrial facilities is regulated by the Technical Standards and Safety Authority (TSSA). Records of aboveground storage tanks are maintained for bulk storage facilities only. Underground storage tanks are required to be registered with the TSSA. There are no requirements to register private underground and aboveground fuel oil storage tanks for heating or waste oil. Records of registered and licensed tanks have been maintained since 1990.

TSSA was contacted on June 5th, 2026, regarding available information concerning the presence of petroleum storage tanks, fuel spill records, accidents or fuel-related incidents which may be registered on the Site or surrounding properties. The Public Information Agent has indicated that no records were found for the adjacent developed properties.

A copy of the correspondence is included in **Appendix E**.

3.5.5 Ministry of Environment, Conservation, and Parks Water Well Records

The MECP well records database provides information of locations and characteristics of water wells throughout Canada in accordance with Ontario Regulation 903. Information of the stratigraphy, depth of bedrock and approximate depth of water table is also provided. A search of the water well record database was completed on June 2nd, 2026.



Records of four (4) wells were identified within a 300 m radius of the Site, of which two (2) were installed in May 2024, with no available details (ID No. A398391 and A398392). One (1) record retrieved (ID No. 1534471) was plotted approximately 150 m north of the Site along Palladium Drive, however, after further review, this well is in fact located at 145 Gourel Lane, approximately 6 km north of Site. The final record retrieved (ID No. 1519823) was also plotted approximately 150 m north of the Site, however, the well was constructed at 11 Gifford Street, more than 17 km east of the Site.

3.5.6 Waste Disposal Site Inventory

The MECP's Waste Management branch maintains an inventory of known open (active or inactive) and closed disposal site in Ontario. A search of the database revealed no records within a 1 km radius from the Site.

The Carp Road Landfill site is located approximately 1.7 km west/northwest of the Site. Due to its distance from the Site, it does not present a potential risk for environmental concern.

3.6 Physical Setting Sources

The Site has an approximate elevation of 106 m amsl and is generally flat. The topography of the Site and general area is presented in the topographic map included in **Appendix F**.

3.6.1 Aerial Photographs

Aerial photographs were obtained from GeoOttawa, and from the National Aerial Photograph Library. Review of the photographs was completed to develop a general history of the development of the Site and surrounding properties. Aerial photographs may be at a scale that limits a detailed review of the Site and surrounding properties.

Copies of select aerial photographs are included in **Appendix G**, and a summary is included in **Table 9**.



Table 9: Summary of Aerial Photographs

Year	Phase One Property (Site)	Phase One Study Area (Surrounding Area)
1945	The Site appears to be use for agricultural fields with larger vegetation across the general central portion.	The neighbouring lands appear to be used for agricultural fields , with areas of larger vegetation (i.e. trees) sporadically across the subject area.
1955	No significant changes to the observations made in 1945 of the subject Site were encountered.	No significant changes to the observations made in 1945 of the Phase One Study Area were encountered.
1965	No significant changes to the observations made in 1955 of the subject Site were encountered.	No significant changes to the observations made in 1955 of the Phase One Study Area were encountered.
1976	No significant changes to the observations made in 1965 of the subject Site were encountered.	No significant changes to the observations made in 1955 of the Phase One Study Area were encountered. Low density residential development is observed to the far south of the Site along Maple Grove Road. Huntmar Drive is also developed to the east of the Site.
1985	No significant changes to the observations made in 1965 of the subject Site were encountered.	Generally, no significant changes to the observations made in 19565 of the Phase One Study Area were encountered. Highway 417 is constructed to the north, configured in a general east – west direction.
1991	No significant changes to the observations made in 1985 of the subject Site were encountered.	No significant changes to the observations made in 1985 of the Phase One Study Area were encountered.
2002	No significant changes to the observations made in 1991 of the subject Site were encountered. The Site does however to appear to have dense larger vegetation, suggesting that the agricultural land use has terminated.	No significant changes to the observations made in 1985 of the Phase One Study Area were encountered.
2011	No significant changes to the observations made in 2002 of the subject Site were encountered.	Palladium Drive is constructed to the east of the Site, with the ramp proceeding to the Highway 417 present. The Autopark Private is constructed to the east of the Site with commercial developments surrounding it. Development to the south is observed.
2019	Earth moving activities are visible on the Site, with notable mounds of soil.	Earth moving operations surround the Site on the neighbouring lands to the south, east and west. Various roads appear to be constructed to the south of the Site, including the now Unity Place, and Crossway Terrace. A large pile of granular is visible to the west of the Site.
2021	Earth moving activities are visible on the Site, with notable mounds of soil and surface water ponding. It is unclear if the mounds of soil have originated from the Site or has been imported to the property.	No significant changes to the observations made in 2019 of the Phase One Study Area were encountered.

Notes

BOLD Signifies Potential Environmental Concern Identified

3.6.2 Topography, Hydrology & Geology

An Ontario Base Map was retrieved by ERIS for the Phase One Subject Area and surrounding properties. A copy of the map is included in **Appendix F**.

Geological maps were reviewed to obtain information on regional geology, surficial soils and bedrock. These maps included the following:

- Ontario Geological Survey, Bedrock Geology of Ontario, 1:250 000 Scale, MRD126-REV1, 2011; and
- Ontario Geological Survey, Surficial Geology of Southern Ontario, MRD128-REV, 2010.

A summary of Topographical, Physiographical, Hydrogeological and Geological Conditions are summarized on **Table 10**.

Table 10: Summary of Topographical, Physiographical, Hydrogeological and Geological Conditions

Parameter	Source	Description
Topography	Ontario Base Map (included in Appendix F)	The Site and general area are considered to have a generally flat topography. The Site has an approximate elevation of 106 m amsl.
Physiography	Physiography of Southern Ontario (included in Appendix F)	The Site and surrounding lands are identified as the Ottawa Valley Clay Plains.
Hydrology	Toporama – The Atlas of Canada	According to the Natural Resources Canada interactive mapping system, <i>The Atlas of Canada – Toporama</i> , an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site. The inferred groundwater flow direction is west to northwest towards the unnamed water course.
Geology	Geological Survey of Canada mapping, as referenced above at the beginning of this Section.	Geological maps were reviewed to obtain information on regional geology and surficial soils. Surficial soil deposit mapping indicates that the subsurface overburden material on the Site consists of Offshore Marine Deposits: clay, silty clay, and silt, commonly calcareous and fossiliferous, locally overlain by thin sand. Bedrock mapping indicates that the overburden is underlain by the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part. According to available MECP water well records, bedrock is found to be between approximate 4.2 and 18.5 m below grade.

3.6.3 Fill Material

Based on our review of available historical information and aerial photographs, it has been revealed that the Phase One property encountered significant earth moving activities in 2019 and 2021. This presents a high risk for potential introduction of fill material from an alternative source. Evidence of mounded soils is visible in the 2019 and 2021 aerial imagery retrieved from the City of Ottawa interactive map (geoOttawa) as discussed above in Section 3.6.1.



3.6.4 Water Bodies and Areas of Natural Significance

O. Reg. 153/04 identifies an Areas of Natural Significance through the following databases and criteria:

- The Site is not part of a provincial park or conservation area;
- The Site is not within any Areas of Natural and Scientific Interest (ANSI) identified by the Ministry of Natural Resources (MNR) as having provincial significance;
- The Site does not include any area identified as Provincial Significance Wetland (PSW) by MNR
- The Site does not include any area designated as environmentally significant in municipal official plans;
- The Site does not include any area designated as an escarpment natural area by Niagara Escarpment Plan;
- The Site does not include any area which is a habitat of endangered species;
- The Site does not include any Oak Ridges Moraine Conservation area; and,
- The Site does not include any area designated as a wilderness area.

Based on the above criteria, the Phase One ESA property is not considered to be within an Area of Natural Significance, further confirmed in the ANSI report and corresponding map included in **Appendix F**.

3.7 Site Operating Records

The Site is undeveloped, therefore Site operating records have not available.

4 INTERVIEWS

No interview was completed as part of this assessment to do the limited availability of persons with sufficient knowledge or experience with the property at the time this report was prepared.

5 SITE RECONNAISSANCE

The Site Reconnaissance was completed by LRL Engineering on May 8th, 2026. The Site was free of obstructions and the weather conditions at the time of the Site Reconnaissance were favourable.

A summary of the Site reconnaissance is included in the following **Table 12**.



Table 12: Summary of the Site Reconnaissance

Parameter	Information
Date	May 8 th , 2026
Time	11:30 AM to 12:15 PM
Weather Conditions	Sunny and the temperature was approximately 12 degrees C
Site Activity	The Site is generally undeveloped with evidence of granular fill material across the majority of the property, and City infrastructure (storm sewer units) along the perimeter of the Site.
Person conducting Site visit	Olivia Wanamaker, Environmental Technician
Limitations to Site visit	None.
Site Reconnaissance Details	The following observations were made of the Phase One ESA Property: - The neighbouring properties to the southwest of the Site is developed with residential development, whereas the property to the southeast is undeveloped. - A stormwater management pond is located to the west of the Site, associated with the neighbouring development. A granular walking path traverses in a general east – west direction along the northern extent of the Site. - East of Culdaff Road (2775 and 2785 Palladium Drive): - The Site was observed to be undeveloped with overgrown grasses and shrubs. A rock debris pile was encountered at the northwestern portion of these lots. - City of Ottawa sewer monument borders the Site to the east of Culdaff Road, with a water service connection and natural gas. - Plastic piezometer stand pipes were observed at various locations across the property, inferred to be associated with a recent Geotechnical Investigation. - West of Culdaff Road: - The Site was observed to be undeveloped with overgrown grasses and shrubs. A rock debris pile was encountered at the approximate central portion of the Site. - City of Ottawa sewer monument borders the Site to the west of Culdaff Road, with a water service connection and natural gas.
Utilities	Sewer monuments borders the Site in the vicinity of Culdaff Road, with a water service connection and natural gas.
Site Visit Photographs	Photographs from the Site visit is included in Appendix H .



5.1 Specific Observations of the Phase One ESA property

The specific observations encountered at the Phase One ESA property by LRL on May 8th, 2026, are summarized in the following **Table 13**.

Table 13: Specific Observations of the Phase One ESA property

Parameters	Information
Property Dimensions	The Site is comprised of three (3) individual parcels of land, each with the following configuration: - Block 244 Plan 4M1687 has an irregular rectangular shape being between approximately 120 and 130 m wide (east – west), and between approximately 150 and 155 m in length (north – south) with the southwestern corner of the parcel being slightly encroached into the lot, for a total surface area of approximately 19,925 m² (1.99 ha); 2775 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,600 m² (1.66 ha); and 2785 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,588 m² (1.66 ha).
Current Occupants/ Tenants	Undeveloped
Structures/ Improvements	Generally not observed, however City of Ottawa sanitary infrastructure was observed along the southwestern extent of 2785 Palladium Drive, as well as at the southeastern portion of the lot described as Block 244 Plan 4M1687.
Sewage Works	Not observed.
Landscaped & Vegetated Areas	Overgrown grasses and young woody vegetation.
Pavement, Roads & Driveways:	Not observed.
Topography	Generally flat.
Surface Drainage	Not observed.
Drainage Improvements	Not observed. A stormwater management pond is located on the adjacent land to the west.
Receives Drainage from Adjacent Lands:	Unlikely.
Watercourses, Ditches or Standing Water:	Not observed on the Site. A stormwater management pond is located on the adjacent land to the west.
Aboveground storage tanks (ASTs)	None observed.



Underground storage tanks (USTs)	None observed.
Fill Ports, Vent Pipes	Not observed.
Storage Containers	Not observed.
Hazardous Materials	Not observed.
Unidentified Substances	Not observed.
Odours	Not observed.
Air Emissions	Not observed.
Wells	Five (5) small diameter PVC piezometers were observed across 2775 and 2785 Palladium Drive, which were installed as part of a previously geotechnical investigation completed on the properties in 2025.
Sewage Disposal	Not observed. City of Ottawa infrastructure is available with cement monuments related to these services at the extents of the Site.
Pits and Lagoons, Wastewater or Solid Waste	Not observed.
Stained Material and Stressed Vegetation	Not observed.
Fill or previous fill activities	The majority of the Site surface was observed to be comprised of inferred fill material, comprised of sand with gravel and granular crushed stone and rock.
Earth Moving Activities	At the time of the Site visit, no earth moving activities were observed.
Railway Lines	Not observed.
Other	Not observed.
Potential Contaminating Activities (PCA)	PCA 30: Importation of Fill Material of Unknown Quality The majority of the Site surface was observed to be comprised of inferred fill material, comprised of sand with gravel and granular crushed stone and rock. As the source of this material is unknown, the presence of this material does present an Area of Potential Environmental Concern (APEC) to the Site.



5.2 Adjacent Land Use

The current land uses of the adjoining properties were observed from the property limits and publicly accessible locations to assess potential impacts to the Site that may arise from off-Site operations. Based on available information collected to date, the Site and the adjacent historical land use are described as follows:

North:	Forested land followed by the Highway 417.
South:	Residential
East:	Commercial – Automotive sales and service facilities followed office space and a professional sports stadium.
West	Residential and stormwater management pond.

5.3 Special Attention Items

Eleven chemical contaminants have been identified under the Occupational Health and Safety Act (OHSA) and regulations have been set in place to prohibit, regulate restrict, limit or control workers exposure to these substances. Other hazardous materials not included in the OHSA but under the Environmental Protection Act were also observed. The observations presented herein do not constitute a designated substance/hazardous material survey but are rather for information purposes only.

5.3.1 Designated Substances

Asbestos Containing Material (ACM) Since the late 1970's the manufacture and use of asbestos containing building materials started to decrease. It is commonly presumed that buildings constructed prior to 1980 are more likely to contain both friable and non-friable forms of asbestos. General buildings constructed up to the mid 1980's are more likely to contain non-friable asbestos (flooring, joint compound). Not Applicable.
Lead Lead may be present in a variety of building materials including paint and water distributions pipes, however, lead based paints (LBP) are considered the most significant hazard. According to published information by Health Canada concerning LBP, buildings constructed before 1980 may contain lead-based interior and exterior paints. Not Applicable.
Mercury Minor amounts of mercury are commonly found in a variety of building material including mercury vapour lamps, fluorescent light tubing and thermostats and other electrically control switches. Not Applicable.
Others No other designated substances were identified (i.e. arsenic, ethylene oxide, vinyl chloride, benzene, coke oven emissions, acrylonitrile or isocyanates).



5.3.2 Other Hazardous Building Materials/Items

Microbial Contamination and Mould: Not Applicable.
Ozone-Depleting Substances (ODS): ODS such as chlorofluorocarbons (CFC) and hydrochlorofluorocarbon (HCFC) are typically found in refrigeration equipment, air conditioners, aerosols, cleaning solvents and fire extinguishers. Federal regulations required the elimination of production and import of CFC and a freeze on the production and import of HCFC by January 1, 1996. The regulations govern only the production and import therefore these materials are still used as long as a supply is in place. Not Applicable.
Polychlorinated Biphenyls (PCB): The Federal Chlorobiphenyls Regulation, SOR/91-152 prohibits PCBs from being used in products, equipment, machinery, electrical transformers and capacitors which were manufactured or imported into the country after July 1, 1980. However, older equipment in use after this date may still contain PCBs if the equipment fluid has not been replaced. PCB-containing equipment can also include fluorescent, mercury, transformers and sodium vapour light ballasts. Not Applicable.
Urea Formaldehyde Foam Insulation (UFFI): UFFI was widely used as an insulating material until December 1980 when a ban was enacted under the Hazardous Products Act. UFFI was commonly injected through walls by drilling injections holes in roof structures, ceilings and overhangs. Not Applicable.
Radon: Radon gas is a product of the decay series of uranium that is commonly found in geological units that contain black shale, sandstone or granite. Radon can percolate up through the soil where it may accumulate in basement of buildings with cracks or joints in the foundation. Because the existence of radon is dependent upon geological factors, it is more a regional concern than site specific. Due to the location of the Site, any radon levels would be considered medium risk.
Electric and Magnetic Fields: Electromagnetic fields are generally associated with high frequency power lines. No high voltage power lines were noted within 300 m of the Site.
Noise and Vibration: Noise and vibration are typical of an urban environment (i.e. traffic).
Methane: Methane gas is a colourless and odourless gas commonly formed by the decomposition of organic material. The Site is not close to any active or closed waste disposal sites, marshes, swamps or peat deposits, therefore methane is not a concern.



6 REVIEW AND EVALUATION OF INFORMATION

6.1 Enhanced Investigation Property

As defined in O. Reg. 153/04, as amended, an Enhanced Investigation Property “*means a property that is being used or has been used, in whole or in part, in a manner described in clause 32 (1) (b) to which subsection 32 (2) does not apply*”. Those property include the following:

- Industrial use which involves assembling, fabricating, manufacturing, processing, producing, storing, warehousing, or distributing goods or raw materials;
- a garage;
- bulk liquid dispensing facility; or
- dry-cleaning operation.

Based on the records retrieved and reviewed as part of this assessment, the Phase One ESA Property was, at one point, not used for the above-mentioned uses, therefore the Site is not considered an enhance investigation property.

6.2 Phase One ESA – Investigation Details

LRL completed a Site reconnaissance of the subject property on May 8th, 2026, as outlined above in Section 5. The Site reconnaissance included a detailed walkthrough of the Phase One ESA Property, to allow for a review of its current condition, as well as to evaluate the likely impacts from past uses and neighbouring properties. Some limitations were encountered during the Site reconnaissance, including the dense wooded area located at the centre of the Site that was not accessible for investigation. The Site reconnaissance included the following:

- A thorough walkthrough of the Phase One Property, with a focus on:
 - The presence of structures or other features of construction;
 - The surface cover type and areas of fill, or debris;
 - Areas of staining, stressed vegetation or anomalous condition;
 - Presence of unidentifiable substances; and
 - The presence, or former evidence, of underground/ buried features or structures, including storage tanks and utility corridors;
- A perimeter walk-around, noting the condition and general characteristics of the Phase One Property limits;
- Visually observations of the neighbouring lands from the Phase One Property extents, to locate and document the following:
 - Potentially contaminating activities;
 - Water bodies; and
 - Possible storage tanks and areas of natural significance.



6.3 Phase One ESA Site Reconnaissance Findings

Based on the findings of the Site Reconnaissance, the following PCAs have been identified, which are summarized in the subsequent **Table 14**.

Table 14: Site Reconnaissance Findings Corresponding to Areas of Potential Environmental Concern.

O. Reg 153/04 Schedule D PCA	Location of PCA	Description and Source Information	Contribution to an APEC
PCA 30: Importation of Fill Material of Unknown Quality	On-Site: Throughout	Evidence of likely imported granular material was observed across the general entirety of the Site.	The identified PCA contributes to an APEC1, which encompasses the entirety of the Site.

7 REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses

Below is a summary of the current and past uses of 2775 Palladium Drive; 2785 Palladium Drive; and Block 244 Plan 4M1687, Ottawa, Ontario. **Table 15** represents the current and past uses.

According to the available 1880 County Map of Ontario, the Site and surrounding lands were inferred to be agricultural since at least the late 1800's.



Table 15: Current and Past Uses

Year	Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
2775 Palladium Drive, Ottawa, Ontario				
1840	Crown	Unknown	Unknown	Chain of Title
1840 – 1867	James ROE	Unknown	Unknown	Chain of Title
1867 – 1880	William ROE	Unknown	Unknown	Chain of Title
1880	William ROE	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, County Map of 1880
1880 - 1890	William ROE	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1890 – 1942	Henry Allen	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1942	John Hartins	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1942 – 1964	William ROE	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
1964 – 1989	Mary Lennox Blackburn	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
1989 - 1991	Terrace Investments Limited	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
1991 – 2003	958740 Ontario Inc.	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
2003 – 2005	Palladium Auto Park Limited	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs
2005 – 2019	2325483 Ontario Ltd.	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs
2019 - 2021	2325483 Ontario Ltd.	Other	Earth moving activities for development of Phase One study area	Chain of Title, Aerial Photographs
2021 – 2022	Palladium Auto Park No. 2 Limited	Other	Earth moving activities for development of Phase One study area	Chain of Title, Aerial Photographs
2022 – Present	1000210777 Ontario Inc.	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs, Site Reconnaissance.

Year	Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
2785 Palladium Drive, Ottawa, Ontario				
1840	Crown	Unknown	Unknown	Chain of Title
1840 – 1867	James ROE	Unknown	Unknown	Chain of Title
1867 – 1880	William ROE	Unknown	Unknown	Chain of Title
1880	William ROE	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, County Map of 1880
1880 - 1890	William ROE	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1890 – 1942	Henry Allen	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1942	John Hartins	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1942 – 1964	William ROE	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
1964 – 1989	Mary Lennox Blackburn	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
1989 - 1991	Terrace Investments Limited	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
1991 – 2003	958740 Ontario Inc.	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
2003 – 2005	Palladium Auto Park Limited	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs
2005 – 2019	Palladium Auto Park No. 2 Limited	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs
2019 - 2021	Palladium Auto Park No. 2 Limited	Other	Earth moving activities for development of Phase One study area	Chain of Title, Aerial Photographs
2021 – 2022	2325483 Ontario Ltd.	Other	Earth moving activities for development of Phase One study area	Chain of Title, Aerial Photographs
2022 – Present	1000210777 Ontario Inc.	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs, Site Reconnaissance.



Year	Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
Block 244 Plan 4M1687, Ottawa, Ontario				
1860	Crown	Unknown	Unknown	Chain of Title
1860 – 1896	Joseph Ralph	Unknown	Unknown	Chain of Title
1896 – 1905	Arner Gracey	Unknown	Unknown	Chain of Title
1880	Arner Gracey	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, County Map of 1880
1880 - 1905	Arner Gracey	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1905 – 1915	James Boyd	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1915 – 1960	Alexander Boyd	Agricultural or Other	Inferred Agricultural Lands	Chain of Title
1960 – 1974	Byron Boyd	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
1974 – 2005	Uri Goldberg, Benzion Gottlieb and Arnon Miller	Agricultural or Other	Inferred Agricultural Lands	Chain of Title, Aerial Photographs
2005 – 2006	Uri Goldberg, Benzion Gottlieb and Arnon Miller	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs
2006 – 2012	D.D. Kanata Limited	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs
2012 – 2019	2325483 Ontario Ltd.	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs
2019 - 2022	2325483 Ontario Ltd.	Other	Earth moving activities for development of Phase One study area	Chain of Title, Aerial Photographs
2022 – Present	2325483 Ontario Ltd.	Other	Undeveloped, Overgrown Vegetation	Chain of Title, Aerial Photographs, Site Reconnaissance.



7.2 Potential Contaminating Activity (PCA) & Areas of Potential Environmental Concern (APEC)

A potentially contaminating activity is a use or activity set out in Table 2 of Schedule D of the O. Reg. 153/04. These activities are summarized in the Table included in **Appendix I**.

The Site is currently undeveloped with overgrown vegetation across the property. The Site is set within a commercial and residential area of the City of Ottawa. Based on the records retrieved, the Site appears to have been historically used for agricultural since at least 1880 until approximately 2005, when the Sites became overgrown with vegetation. From between approximately 2019 through to 2022, earth moving activities occurred across the Site, which were inferred to be related to the development of the surround area for residential purposes. From 2022 to present time, the Site remains unoccupied and covered with overgrown vegetation.

The activities on adjacent lands within 300 m from at least 1880 through to the mid 2000's (approximately 2007) was found to include agricultural or other, or forest lands. Commercial and residential development of the lands to the south, east and west commenced in the mid 2000's with Palladium Drive being constructed in the mid to late 1990's.

Based on the results of the Phase One Environmental Site Assessment, the following areas of potential environmental concern were identified and are presented in **Figure 3**:



O. Reg 153/04 Schedule D PCA	Location of PCA	Description and Source Information	Contribution to an APEC
PCA 30: Importation of Fill Material of Unknown Quality	On-Site – throughout	Based on our review of available historical information and aerial photographs, it has been revealed that the Phase One property encountered significant earth moving activities in 2019 and 2021. This presents a high risk for potential introduction of fill material from an alternative source. Evidence of mounded soils is visible in the 2019 and 2021 aerial imagery retrieved from the City of Ottawa interactive map (geoOttawa). Fill material was observed across the ground surface of the Site at the time of the May 8 th , 2026, Site visit.	The PCA is on Site, therefore it presents a possible risk for environmental concern.
PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site – throughout	Based on available aerial imagery, the Site has included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	The PCA is on Site, therefore it presents a possible risk for environmental concern.
PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Adjacent lands in each direction	Based on available aerial imagery, the surrounding lands within 300 m of the Site have included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	The PCA is adjacent to the property, therefore it presents a possible risk for potential environmental concern to the Site.
PCA 10: Commercial Autobody Shop	2500 Palladium Drive, approximately 60 m east (up-gradient) of the Site.	The City directories retrieved revealed that an automobile body-repairing and painting facility has operated from between 2009/2010 through at least 2025.	The PCA is located up-gradient of the Site with respect to the inferred groundwater flow direction. Due to its up-gradient position from the Site, this record presents a potential environmental concern to the Site.



7.3 Areas of Potential Environmental Concern

Based on the PCAs noted in Section 6.2 above, the following APECs on the subject Site were identified and are presented in **Figure 4**:

Table 16: Areas of Potential Environmental Concern (APEC)

PEC	Location	Comments	Contaminants of Potential Concern	Media Potentially Impacted
APEC 1	On-Site - throughout	According to available historical information and aerial photographs, it has been revealed that the Phase One property encountered significant earth moving activities in 2019 and 2021. Fill material was observed across the ground surface of the Site at the time of the May 8th, 2026, Site visit.	VOC PHC PAH Metals Inorganics	Soil and Groundwater
APEC 2	On-Site – throughout	Based on available aerial imagery, the Site has included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	Metals OC Pesticides	Soil and Groundwater
APEC 3	On-Site – Throughout	Based on available aerial imagery, the surrounding lands within 300 m of the Site have included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	Metals OC Pesticides	Soil and Groundwater
APEC 4	Eastern extent of the Site, namely the eastern extent of 2775 and 2785 Palladium Drive	The City directories retrieved revealed that an automobile body-repairing and painting facility has operated from between 2009/2010 through at least 2025.	VOC PHC Metals	Soil and Groundwater

Notes: PEC – Potential Environmental Concern
PHC – Petroleum Hydrocarbons
VOC – Volatile Organic Compound
PAH – Polycyclic Aromatics
OC Pesticides - Organochlorine Pesticides

1 - Area of Potential Environmental Concern (APEC) means the area on, in, or under a Phase One Property where one or more contaminants are potentially present, as determined through the Phase One ESA, including through:

- (a) Identification of past or present uses on, in, or under the Phase One Property and
- (b) Identification of potentially contaminating activity.

2 - Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a Phase One Study Area

3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011,

4 - When submitting a record of site condition for filing, a copy of this table must be attached.

7.4 PCA Exclusion Rationale

As part of this Phase One ESA, additional PCAs were encountered in the vicinity of the Site through the records retrieved. However, select PCAs encountered have been excluded as actual PCAs to the Phase One ESA Property. Exclusion of a PCA is often related to the location of the PCA in relation to the Phase One Property, the direction of groundwater flow, and the results from previous environmental reports pertaining to the Phase One Property (if any). The records excluded are summarized above in previous sections, in addition to the general rationale for their respective exclusion.

Table 17: Potential Contaminating Activity (PCA) Exclusion Rationale

O. Reg 153/04 Schedule D PCA	Location of PCA	Description and Source Information	Rationale
PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	3055 Palladium Drive, approximately 500 m north (down-gradient) of the Site.	3055 Palladium Drive, which is listed as oil field equipment-repairing, automobile repairing & service, hydraulic equipment & supplies, automobile parts & supplies -retail from between 2021 and 2025. 3055 Palladium Drive is located beyond the Phase One Study Area therefore these activities do not present a potential risk for environmental concern to the Site.	Due to the location of the reported activities from the Site, it does not present a potential risk for environmental concern to the Site.
PCA Other: Dentist Office	3280 Palladium Drive, approximately 1.2 km north (down-gradient) of the Site.	3280 Palladium Drive is listed as a dentist from between 2021 and 2025. Dentist are known to use and store small amounts of metals for dental procedures which can be considered a potential risk for environmental concern.	Due to the distance and location from the Site, these activities do not present a potential risk for environmental concern.
PCA Other: Environmental Compliance Approval	Turpin Saturn SAAB Limited, identified at Part of Front Half Lot 2, Concession 1, Huntley Township, Ottawa. According to search provider, this record is located immediately north of the eastern extent of the Site.	Reported to have an approved ECA for industrial sewage works, dated May 2006.	Due to the type of activities which the approval was issued for, the record retrieved does not present a potential risk for environmental concern.

O. Reg 153/04 Schedule D PCA	Location of PCA	Description and Source Information	Rationale
PCA Other: Environmental Activity and Sector Registry	Vik One Holding Ltd., identified at Part of Front Half Lot 2, Concession 1, Huntley Township, Ottawa. According to search provider, this record is located immediately north of the eastern extent of the Site.	Reported to have an approved ECA for industrial sewage works, dated May 2006.	Due to the type of activities which the approval was issued for, the record retrieved does not present a potential risk for environmental concern.
PCA Other: Environmental Compliance Approval	Turpin Pontiac Buick Limited, identified at Part of Front Half Lot 2, Concession 1, Huntley Township, Ottawa. According to search provider, this record is located immediately north of the eastern extent of the Site.	Reported to have an approved ECA for industrial sewage works, dated May 2006.	Due to the type of activities which the approval was issued for, the record retrieved does not present a potential risk for environmental concern.
PCA Other: Environmental Compliance Approval	Capital Two Investments Limited, identified at Part of Front Half Lot 2, Concession 1, Huntley Township, Ottawa. According to search provider, this record is located immediately north of the eastern extent of the Site.	Reported to have an approved ECA for industrial sewage works, dated November 2006.	Due to the type of activities which the approval was issued for, the record retrieved does not present a potential risk for environmental concern.
PCA Other: Environmental Compliance Approval	2325483 Ontario Ltd., located at 195 Huntmar Drive, 2499 Palladium Drive in Ottawa. The reported location by the search provider for this record is approximately 250 m south (up- gradient) of the Site.	Reported to have an approved BLCOKECA for municipal and private sewage works in September 2020.	Due to the type of activities which the approval was issued for, the record retrieved does not present a potential risk for environmental concern.
PCA Other: Spill	Approximately 125 m south of the Site at the intersection of Derreen Avenue and Culdaff Road (up-gradient).	An incident was reported in December 2022. The incident was recorded as a 2" natural gas strike.	Due to the type of material released, the incident is not considered a concern to the Site or neighbouring lands.
PCA Other: Spill	The location of the incident is reported by the search provider as being approximately 250 m south of the Site, up- gradient, to the west of the Robert Grant Avenue and Ballinora Lane intersection.	Thomas Cavanagh Construction Limited reported approximately <20 L of pigmented curing compound released in May 2023.	Due to the small quantity released, the distance from the Site, and overall product composition, the incident presents a low risk for environmental concern to the Site.

7.5 Uncertainties or Absence of Information

All information apart of the Phase One ESA was received and reported.

7.6 Phase One Conceptual Site Model

7.6.1 Conceptual Site Model Drawing

The location of the Site is shown in the attached **Figure 1** and the current layout of the Site is shown in the attached **Figure 2**. PCAs and APECs are shown in the included **Figure 3**, and **Figure 4**, respectively.

7.6.2 Description and Assessment

The PCAs identified on the Phase One Property, as well as those identified within the Phase One Study Area, were recognized through the records review, interview, and Site reconnaissance. They are further summarized below in **Table 18** as follows:



Table 18: Summary of Conceptual Site Model – PCAs

APEC No.	O. Reg 153/04 Schedule D PCA	Direction from Phase One Property	Approximate Distance from Phase One Property (m)	Source Information	Remarks	APEC	Rationale
APEC 1	PCA 30: Importation of Fill Material of Unknown Quality	n/a	On-Site - throughout	Aerial Photographs, Site Visit.	According to available historical information and aerial photographs, it has been revealed that the Phase One property encountered significant earth moving activities in 2019 and 2021. Fill material was observed across the ground surface of the Site at the time of the May 8th, 2026, Site visit.	On-Site – throughout	Potential impact on soil and groundwater
APEC 2	PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	n/a	On-Site – throughout	Aerial Photographs.	Based on available aerial imagery, the Site has included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	On-Site – throughout	Potential impact on soil and groundwater
APEC 3	PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Adjacent lands in each direction	Adjacent lands in each direction	Aerial Photographs.	Based on available aerial imagery, the surrounding lands within 300 m of the Site have included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	On-Site – throughout	Potential impact on soil and groundwater
APEC 4	PCA 10: Commercial Autobody Shop	East	2500 Palladium Drive, approximately 60 m east (up-gradient) of the Site.	City Directories	The City directories retrieved revealed that an automobile body-repairing and painting facility has operated from between 2009/2010 through at least 2025.	Eastern extent of the Site, namely the eastern extent of 2775 and 2785 Palladium Drive	Potential impact on soil and groundwater



7.6.3 Contaminants of Potential Concern

The contaminants of potential concern related to the identified PCAs are as follows:

- Petroleum Hydrocarbons (PHCs);
- Volatile Organic Compounds (VOCs);
- Heavy Metals, Organics and Inorganics;
- Polycyclic Aromatics (PAH); and
- OC Pesticides.

7.6.4 Potential for Underground Utilities to Influence the Transportation and Distribution of Contaminates

As described above, the Site is undeveloped. However, it is possible that former buried utilities may have been present during the period which the Site was developed. Buried utility lines can contribute to potential pathways for contamination distribution. It is not anticipated for the Phase One ESA Site.

7.6.5 Available Regional or Site-Specific Geological or Hydrogeological Information

Generalized surficial soil deposit mapping indicates that the subsurface overburden material on the Site consists of Offshore Marine Deposits: clay, silty clay, and silt, commonly calcareous and fossiliferous, locally overlain by thin sand. Bedrock mapping indicates that the overburden is underlain by the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part. According to available MECP water well records, bedrock is found to be between approximate 4.2 and 18.5 m below grade.

According to the Natural Resources Canada interactive mapping system, The Atlas of Canada – Toporama, an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site. The inferred groundwater flow direction is west towards the unnamed water course.



8 CONCLUSIONS

The Conceptual Site Model shows one (1) PCA on the property. Although additional potential contaminating activities were identified within 300 m radius from the Site. Some of which due to their down- or trans-gradient direction from the Site with respect to the inferred northeastern groundwater flow direction, or the type materials or activities, they do not present a potential risk for environmental concern to the Site. The PCA's identified result in four (4) APECs, as follows:

- **APEC 1** was generated due to the presence of **PCA 30: Importation of Fill Material of Unknown Quality** which is associated with significant earth moving activities identified in the 2019 and 2021 aerial photographs of the Site. Fill material was observed across the ground surface of the Site at the time of the May 8th, 2026, Site visit.
- **APEC 2** was generated due to the presence of **PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications**, which is associated with the agricultural operations occurring on the Site since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.
- **APEC 3** was generated due to the presence of **PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications**, associated with adjacent land operations as agricultural lands based on available aerial photographs retrieved. Such operations may have included the application of pesticides across the neighbouring lands.
- **APEC 4** was generated due to the presence of **PCA 10: Commercial Autobody Shop**, located at 2500 Palladium Drive, approximately 60 m east (up-gradient) of the Site, the city directories retrieved revealed that an automobile body-repairing and painting facility has operated from between 2009/2010 through at least 2025.

The general extent of all the APECs are shown in **Figure 4**.

At the time of the Site re-development, the limits of the excavation shall be verified to confirm the presence of potential impacted subsurface conditions. Soils or overburden being removed from the Site should be analysed prior to off-Site disposal, for parameters of concern, to confirm the appropriate handling and disposal procedures.

9 RECOMMENDATIONS

A Phase Two ESA is recommended to access the PCA's and APECs encountered on the property.



10 LIMITATIONS AND USE OF REPORT

The results of this Phase One ESA should not be considered a warranty that the subject property is free from all contaminants from former and current practices other than those noted in this report, nor that all compliance issues have been addressed.

The findings contained in this report are based on data and information collected during the Phase One ESA of the subject property conducted by LRL Engineering. The conclusions and recommendations are based solely on-site conditions encountered at the time of our inspection on May 8th, 2026, supplemented by historical information and data obtained as described in this report. No assurance is made regarding changes in conditions subsequent to the time of this investigation. If additional information is discovered or obtained, LRL Engineering should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required.

In evaluating the subject property, LRL Engineering has relied in good faith on information provided by individuals, as noted in this report. We assume that the information provided is factual and accurate. We accept no responsibility for any deficiencies, misstatements or inaccuracies contained in this report as a result of omissions, misinterpretation or fraudulent acts of the persons contacted.

This report is intended for the sole use of Palladium Resort Development Limited Partnership and their authorized agents. LRL Engineering will not be responsible for any use of the information contained within this report by any third party.

In addition, LRL Engineering will not be responsible for the real or perceived decrease in the property value, its saleability or ability to gain financing, through the reporting of information.

Yours truly,
LRL Engineering



A handwritten signature in black ink, appearing to read "Jessica Arthurs".

Jessica Arthurs
Director of Environmental Services

A handwritten signature in black ink, appearing to read "Gianni Lametti".

John (Gianni) Lametti, P. Eng. QP_{ESA}
Senior Environmental Engineer



11 REFERENCES

Canadian Standards Association, Z768-01 Phase I Environmental Site Assessment, November 2001 (R2022).

Geotechnical Investigation, Proposed Indoor Aquatic and Recreation Facility, 2775, 2785 Palladium Drive, Ottawa, Ontario, prepared by LRL Engineering, May 2025.

Limited Phase II Environmental Site Assessment, Proposed Indoor Aquatic and Recreation Facility, 2775, 2785 Palladium Drive, Ottawa, Ontario, prepared by LRL Engineering, July 31, 2025.

Mapping and Assessment of Former Industrial Sites, City of Ottawa, prepared for City of Ottawa, Intera Technologies Ltd., July 1988.

Ministry of Environment, Conservations and Parks, Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Environmental Protection Act, as amended.

Ministry of Environment and Energy, Coal Tar Site Investigations 1986 – 1995, January 1997.

Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa, Ontario, prepared for the City of Ottawa, prepared by Golder Associates Ltd., December 2003, Finalized October 2004.

Ontario Geological Survey, Bedrock Geology of Ontario, 1:250 000 Scale, MRD126-REV1, 2011.

Ontario Geological Survey, Surficial Geology of Southern Ontario, MRD128-REV, 2010.

Ontario Well Records Map accessed through: <https://www.ontario.ca/environment-and-energy/map-well-records>

Ontario Regulation 153/04, amended to O. Reg. 269/11 made under the Environmental Protection Act, *Record of Site Conditions – Part X.1 of the Environmental Protection Act*, Jul 1, 2011.

Ontario Ministry of the Environment, Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011.

The Canadian County Atlas Digital Project accessed through: [In Search of Your Canadian Past: The Canadian County Atlas Digital Project \(mcgill.ca\)](https://www.mcgill.ca/canadian-county-atlas-digital-project)

The Government of Canada, Natural Resources Canada, The Atlas of Canada – Tooporama through : <https://atlas.gc.ca/toporama/en/index.html>

Waste Management Branch, Ontario Ministry of the Environment, Waste Disposal Site Inventory, June 19, 1991.



FIGURES



LRL

ENGINEERING | INGÉNIERIE

5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lrl.ca | (613) 842-3434

PROJECT

PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
2775 & 2785 PALLADIUM DRIVE,
AND BLOCK 244 PLAN 4M1687
OTTAWA, ONTARIO

DRAWING TITLE

SITE LOCATION
SOURCE: GEOOTTAWA

CLIENT

PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP

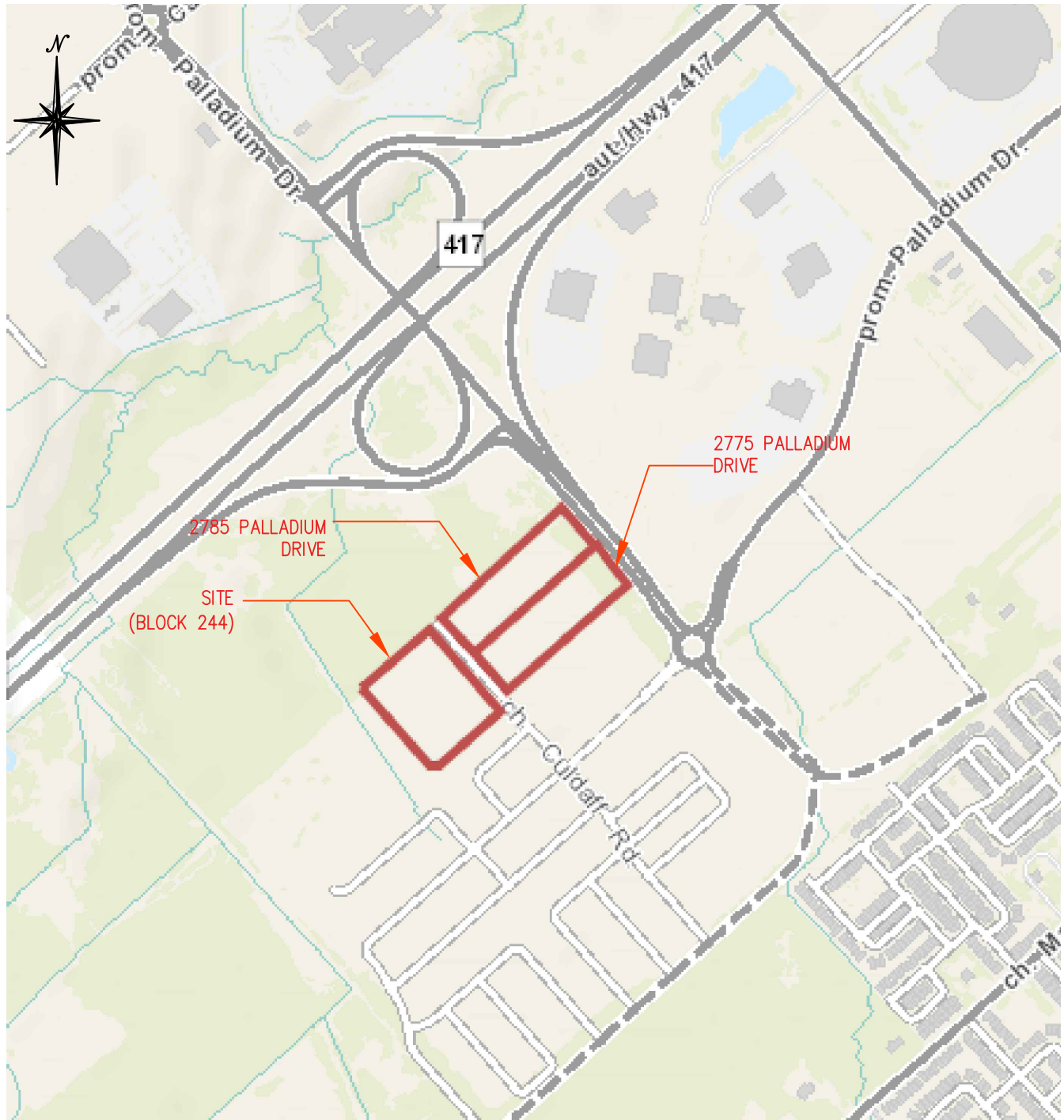
DATE

JUNE 2026

PROJECT

240720

FIGURE 1





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www.lrl.ca | (613) 842-3434

PROJECT

PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
2775 & 2785 PALLADIUM DRIVE,
AND BLOCK 244 PLAN 4M1687
OTTAWA, ONTARIO

DRAWING TITLE

SITE PLAN
SOURCE: GEOOTTAWA - 2022 AERIAL IMAGE

CLIENT

PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP

DATE

JUNE 2026

PROJECT

240720

FIGURE 2



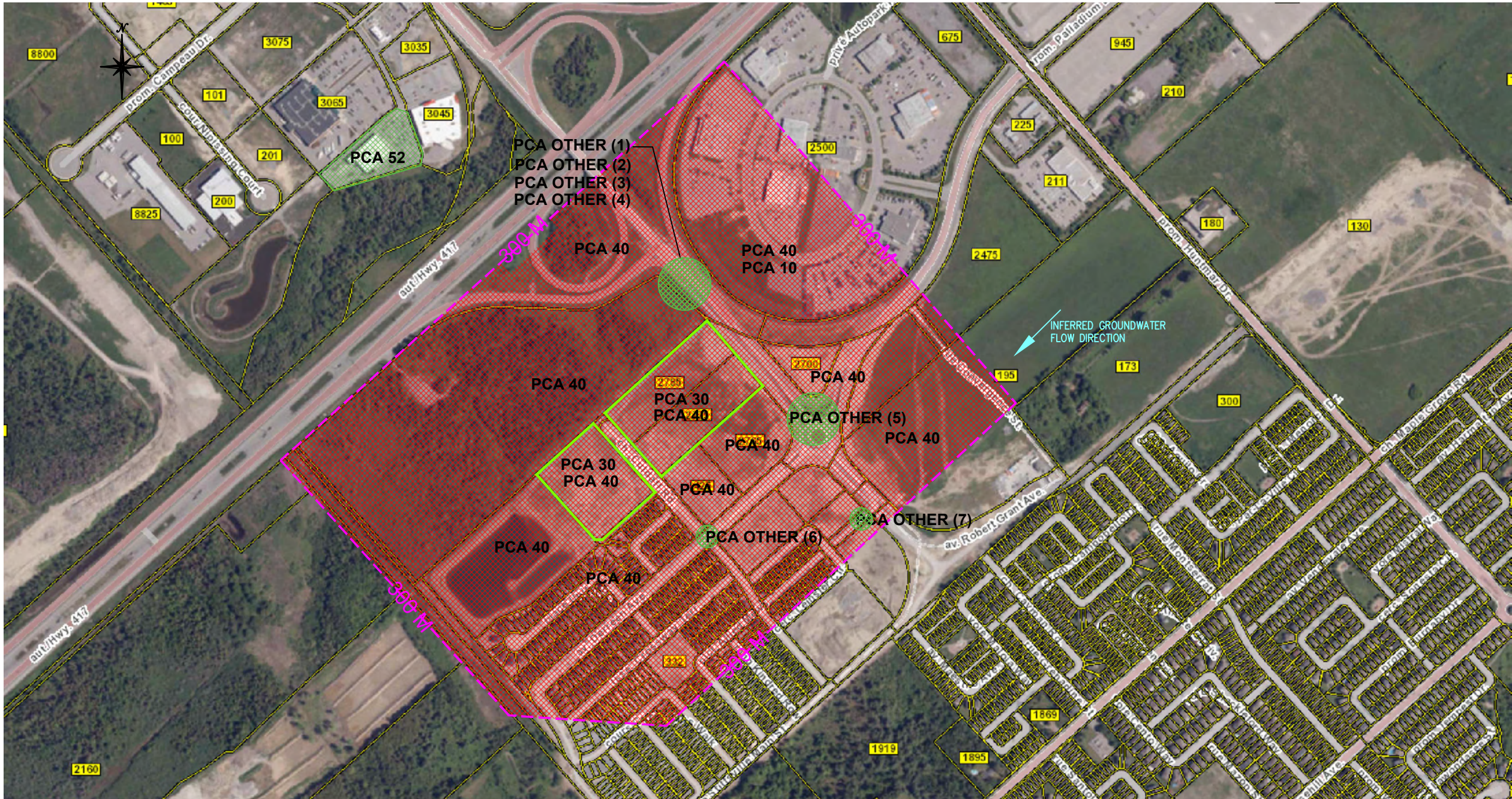
LEGEND



Subject Site Property Line



SCALE: 1:6000



LEGEND

-  PCA - Presents a Risk for Environmental Concern to the Site (Contributes to APEC)
-  PCA - Does Not Presents a Risk for Environmental Concern to the Site (Does not Contributes to APEC)

PCA 10: Commercial Autobody Shop
PCA 30: Importation of Fill Material of Unknown Quality
PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
PCA52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems
PCA OTHER (1): Dentist Office

PCA OTHER (2): Environmental Compliance Approval - Industrial Sewage Works
PCA OTHER (3): Environmental Activity and Sector Registry - Industrial Sewage Works
PCA OTHER (4): Environmental Compliance Approval - Industrial Sewage Works
PCA OTHER (5): Environmental Compliance Approval - Industrial Sewage Works
PCA OTHER (6): Environmental Compliance Approval - Municipal and Private Sewage Works
PCA OTHER (7): Spill
PCA OTHER (8): Spill



SCALE: 1:7500

01	ISSUED FOR REVIEW	JA	09/06/26
No.	REVISIONS	BY	DATE



LRL

ENGINEERING | INGÉNIERIE
5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lrl.ca | (613) 842-3434

CLIENT
PALLADIUM RESORT DEVELOPMENT
LIMITED PARTNERSHIP

DESIGNED BY: JA DRAWN BY: JA APPROVED BY: JL

PROJECT
PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
2775, 2785 PALLADIUM DRIVE &
BLOCK 244 PLAN 4M1687
OTTAWA, ONTARIO

DRAWING TITLE
POTENTIAL CONTAMINATING ACTIVITIES
(PCA) WITHIN 300 M OF THE SITE

PROJECT NO.
240720
DATE
JUNE 2026

FIGURE 3



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ENGINEERING | INGÉNIERIE

5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lrl.ca | (613) 842-3434

PROJECT

PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
2775 & 2785 PALLADIUM DRIVE,
AND BLOCK 244 PLAN 4M1687
OTTAWA, ONTARIO

DRAWING TITLE

BOREHOLE LOCATION
SOURCE: GOOGLE AERIAL VIEW

CLIENT

PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP

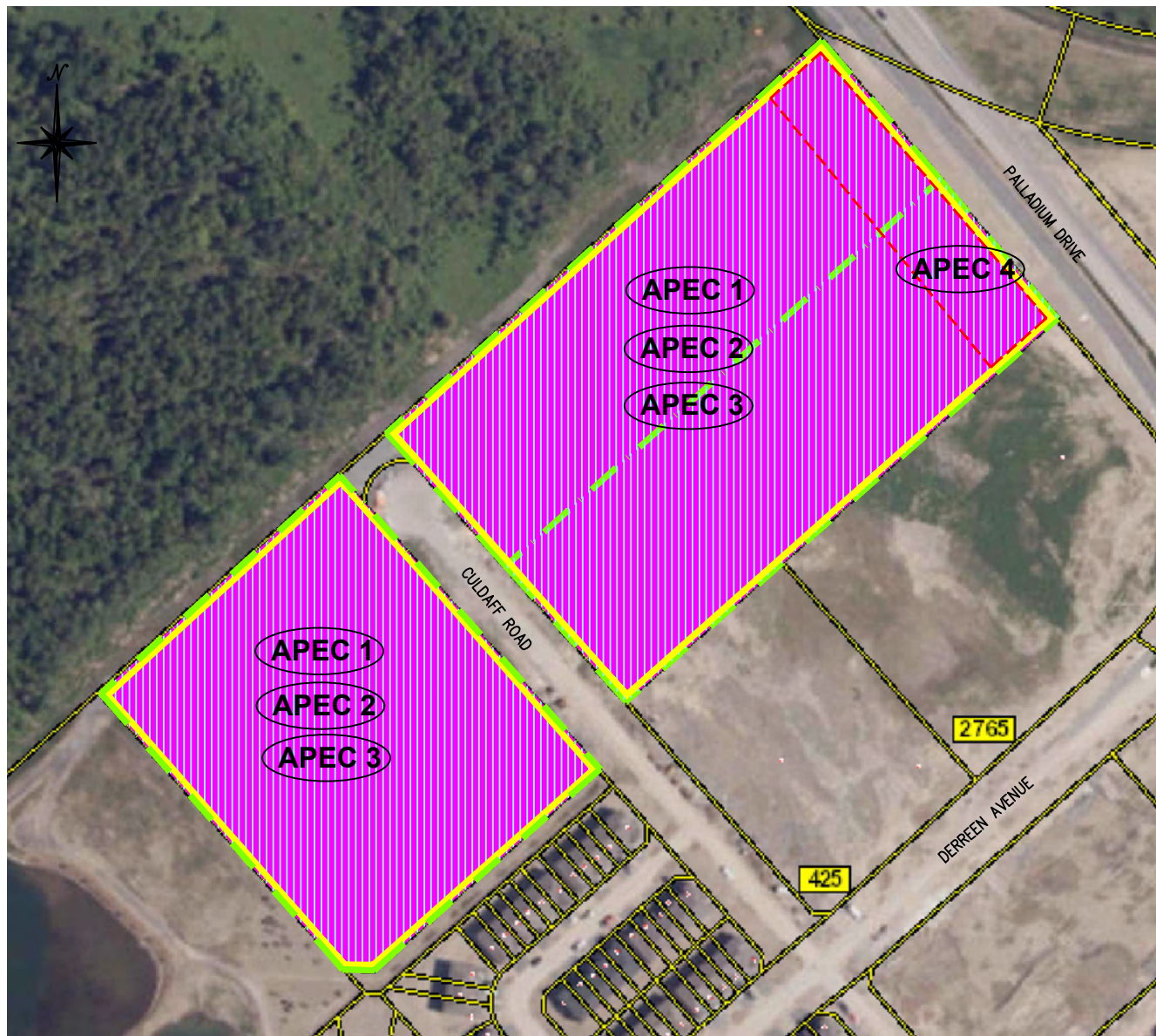
DATE

NOVEMBER 2024

PROJECT

240720

FIGURE4



LEGEND



APEC 1: PCA 30: Importation of Fill
Material of Unknown Quality



APEC 2: PCA 40: Pesticides (including
Herbicides, Fungicides and Anti-Fouling
Agents) Manufacturing, Processing, Bulk
Storage and Large-Scale Applications.



APEC 3: PCA 40: Pesticides (including
Herbicides, Fungicides and Anti-Fouling
Agents) Manufacturing, Processing, Bulk
Storage and Large-Scale Applications.



APEC 4: PCA 10: Commercial Autobody
Shop.



Subject Site Property Line



SCALE: 1:6000

APPENDIX A

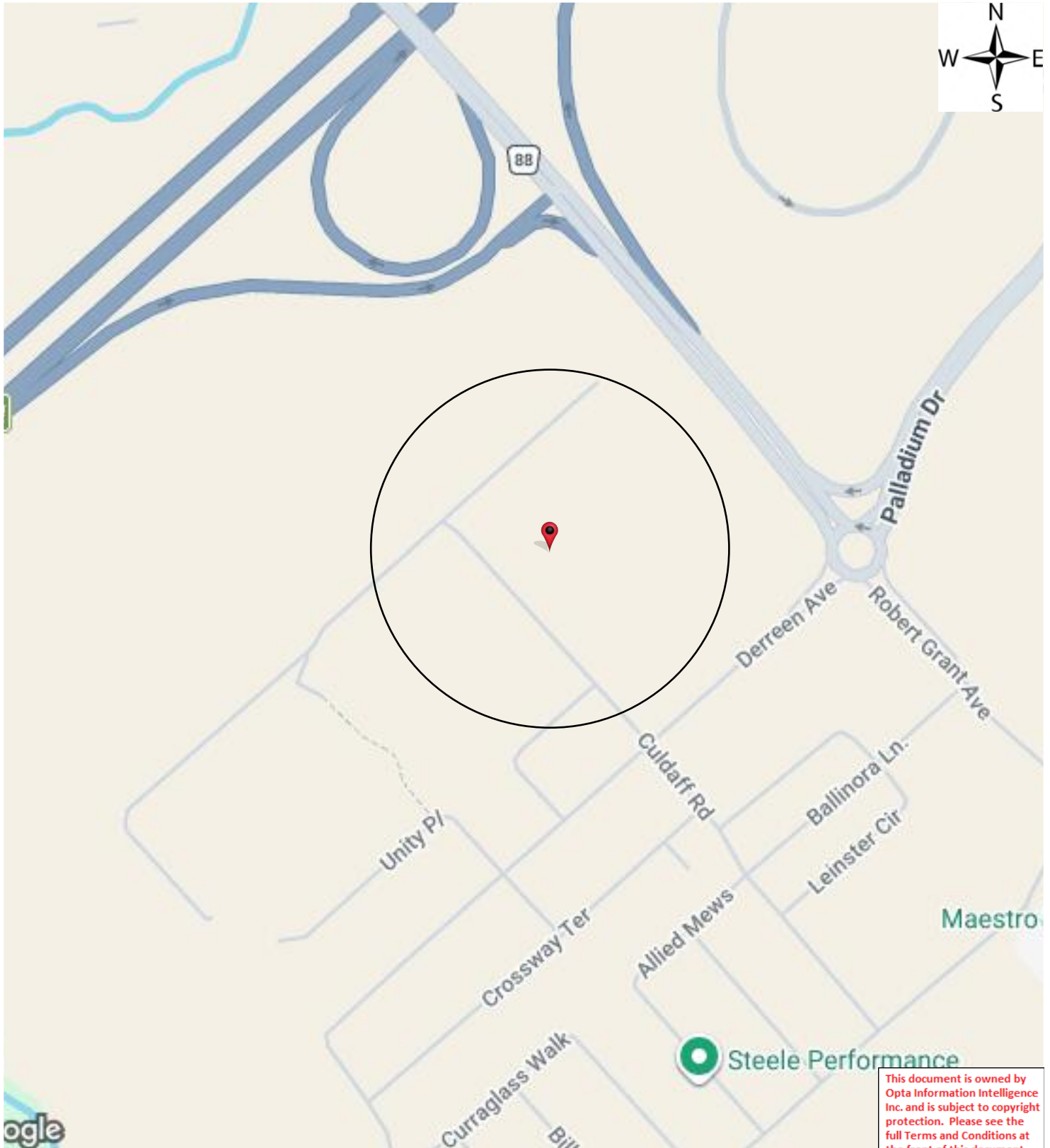
Fire Insurance Plans



Enviroscan Report

Site address:	Palladium Drive, Ottawa, ON
Project #:	26042801310
P.O. #:	175279
Requested by:	Eleanor Goolab
Date Completed:	5/5/2026 12:36:41 PM

Search Area: Palladium Drive, Ottawa, ON



Historical Environmental Services Enviroscan Terms and Conditions

Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Verisk's records relating to the described property (hereinafter referred to as the "Property"). Verisk makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Verisk's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Verisk does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Verisk disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Verisk Reports or from any tortious acts or omissions of Verisk's agents, employees or representatives.

Entire Agreement

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

Governing Document

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

Law

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

No Records Found

Office

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

1.877.244.9437

optaintel.ca



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CONFIDENTIAL

APPENDIX B

Chain of Title Search

CHAIN OF TITLE REPORT

Project #: 26042801310
 Address: Palladium Drive, Ottawa
 Legal: Block 243, Plan 4M1687
 Description: _____

Searched at: Ottawa
 LRO #: 4

Page 1

PIN #: 04487-3336(LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent	10 07 1840	Crown	James ROE
RO27092	Deed	15 04 1867	James Roe	William ROE
HU2140	Deed	08 04 1890	William Roe	Henry ALLEN
HU9646	Tax Deed	28 10 1942	County of Carleton (Henry Allen defaulted in taxes)	John HARTINS
HU9647	Deed	28 10 1942	John Hartins	William ROE
HU12030	Deed	05 06 1964	William Roe	Mary Lennox BLACKBURN
N518265	Deed	29 12 1989	Mary Lennox Blackburn	Terrace Investments Limited
N603134	Deed	27 12 1991	Terrace Investments Limited	958740 Ontario Inc.
OC251006	Name Change	26 09 2003	958740 Ontario Inc.	Palladium Auto Park Limited

Cont'd on page 2

CHAIN OF TITLE REPORT

Project #: 26042801310
Address: Palladium Drive, Ottawa
Legal Block 243, Plan 4M1687
Description:

Searched at: Ottawa
LRO #: 4

Page 2

PIN #: 04487-3336(LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
OC433643	Deed	16 02 2005	Palladium Auto Park Limited	Palladium Auto Park No. 2 Limited
OC2415186	Deed	26 10 2021	Palladium Auto Park No. 2 Limited	2325483 Ontario Ltd.
OC2426545	Deed	23 11 2021	2325483 Ontario Ltd.	Palladium Auto Park No. 2 Limited
OC2500342	Deed (Present Owner)	09 06 2022	Palladium Auto Park No. 2 Limited	1000210754 Ontario Inc.

PROPERTY DESCRIPTION:

BLOCK 243, PLAN 4M1687; CITY OF OTTAWA

PROPERTY REMARKS:

FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2018/01/02. CORRECTION: DOCUMENT OC2415188 ADDED TO 04487-3336 ON 2021/11/09 AT 14:43 BY WILKINSON, TAMMY.

ESTATE/QUALIFIER:

FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY:

SUBDIVISION FROM 04487-3093

PIN CREATION DATE:

2021/11/09

OWNERS' NAMES

1000210754 ONTARIO INC.

CAPACITY SHARE

ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT	INCLUDES ALL	DOCUMENT TYPES AND	DELETED INSTRUMENTS	SINCE 2021/11/09 **		
**SUBJECT TO	SUBSECTION	44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *				
**	PROVINCIAL SUCCESSION DUTIES AND	EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE **				
**	TO THE CROWN	UP TO THE DATE OF REGISTRATION WITH AN	ABSOLUTE TITLE. **			
HU12337	1966/05/04	BYLAW				C
OC2072313	2019/01/21	CHARGE		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	MATTAMY (MONARCH) LIMITED	
OC2379751	2021/07/29	CHARGE		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	BANK OF MONTREAL	
OC2379752	2021/07/29	NO ASSGN RENT GEN		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	BANK OF MONTREAL	
REMARKS: OC2379751						
OC2379753	2021/07/29	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	BANK OF MONTREAL	
REMARKS: OC2072313 TO OC2379751						
OC2403771	2021/09/24	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2403773	2021/09/24	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
REMARKS: OC2379751 TO OC2403771						
OC2403774	2021/09/24	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
REMARKS: OC2072313 TO OC2403771						
OC2411475	2021/10/14	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

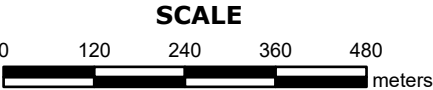
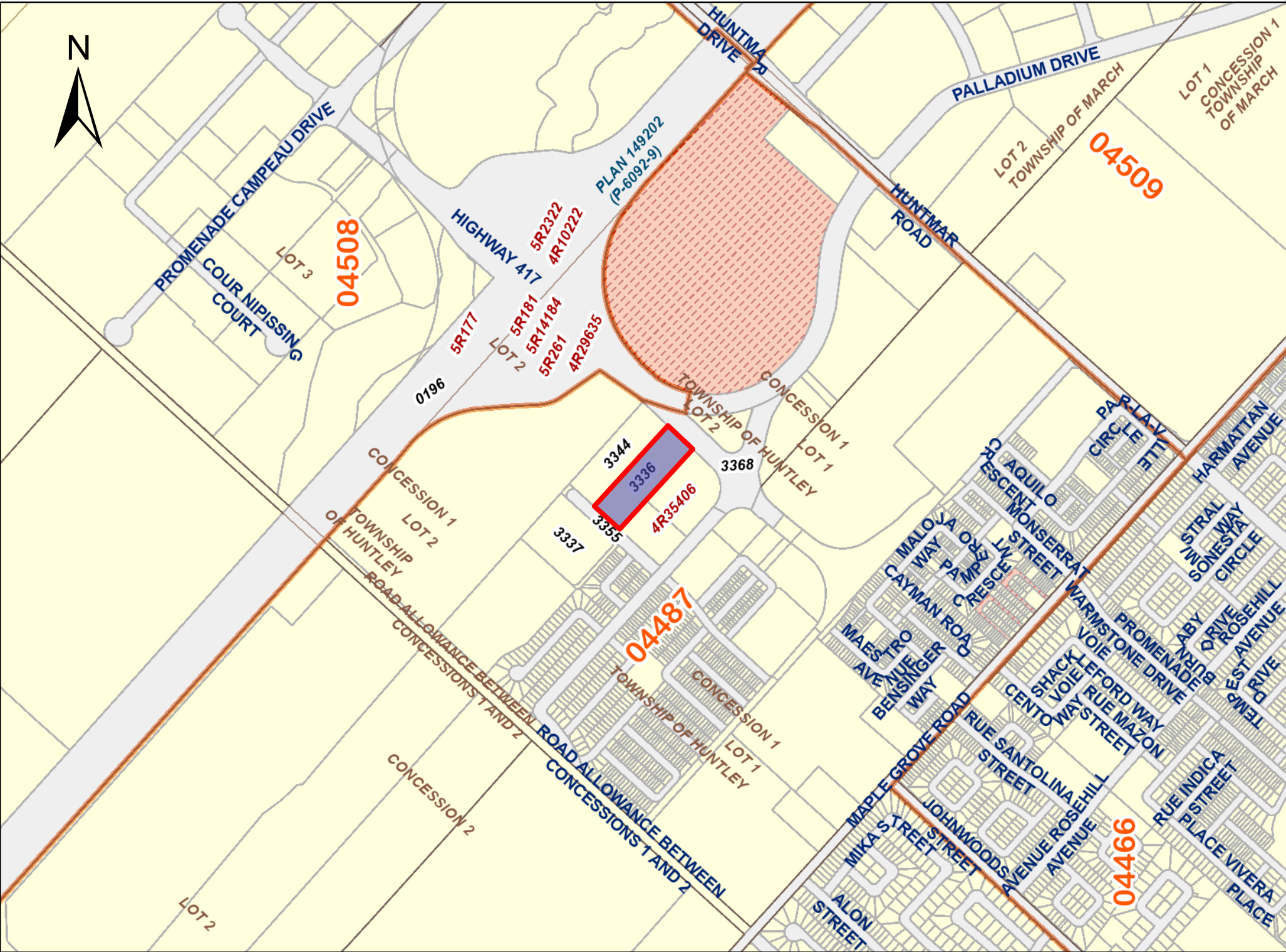
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OC2411476	2021/10/14	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD. PALLADIUM AUTO PARK NO. 2 LTD.	C
OC2411477	2021/10/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
OC2411478	2021/10/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
OC2411480	2021/10/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
OC2411481	2021/10/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
4M1687	2021/10/26	PLAN SUBDIVISION				C
OC2415188	2021/10/26	APL INH ORDER-LAND		*** DELETED AGAINST THIS PROPERTY *** CITY OF OTTAWA		
OC2415189	2021/10/26	NO SUB AGREEMENT		CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2415190	2021/10/26	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2415191	2021/10/26	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
OC2415192	2021/10/26	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
OC2415193	2021/10/26	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
OC2415194	2021/10/26	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2425880	2021/11/22	APL DEL INH ORDER		*** COMPLETELY DELETED *** CITY OF OTTAWA		
	REMARKS: OC2415188.					
OC2426545	2021/11/23	TRANSFER		*** COMPLETELY DELETED *** 2325483 ONTARIO LTD.	PALLADIUM AUTO PARK NO. 2 LTD.	
OC2457143	2022/02/16	NOTICE		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	BANK OF MONTREAL	
	REMARKS: OC2379751					
OC2466789	2022/03/14	DISCH OF CHARGE		*** COMPLETELY DELETED *** MATTAMY (MONARCH) LIMITED		
	REMARKS: OC2072313.					
OC2467378	2022/03/15	DISCH OF CHARGE		*** COMPLETELY DELETED *** BANK OF MONTREAL		
	REMARKS: OC2379751.					
OC2500342	2022/06/09	TRANSFER	\$3,997,500	PALLADIUM AUTO PARK NO. 2 LTD.	1000210754 ONTARIO INC.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.



PROPERTY INDEX MAP
OTTAWA-CARLETON(No. 04)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED

LICENSE TERMS

SOME OF THE INFORMATION IS PROVIDED BY THE
ONTARIO ROAD NETWORK UNDER OPEN
GOVERNMENT LICENSE AND SUBJECT TO LICENSE
TERMS.



CHAIN OF TITLE REPORT

Project #: 26042801310
Address: Palladium Drive, Ottawa
Legal Description: Block 251, Plan 4M1687

Searched at: Ottawa
LRO #: 4

Page 1

PIN #: 04487-3344(LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent	10 07 1840	Crown	James ROE
RO27092	Deed	15 04 1867	James Roe	William ROE
HU2140	Deed	08 04 1890	William Roe	Henry ALLEN
HU9646	Tax Deed	28 10 1942	County of Carleton (Henry Allen defaulted in taxes)	John HARTINS
HU9647	Deed	28 10 1942	John Hartins	William ROE
HU12030	Deed	05 06 1964	William Roe	Mary Lennox BLACKBURN
N518265	Deed	29 12 1989	Mary Lennox Blackburn	Terrace Investments Limited
N603134	Deed	27 12 1991	Terrace Investments Limited	958740 Ontario Inc.
OC251006	Name Change	26 09 2003	958740 Ontario Inc.	Palladium Auto Park Limited

Cont'd on page 2

CHAIN OF TITLE REPORT

Project #: 26042801310
Address: Palladium Drive, Ottawa
Legal Description: Block 251, Plan 4M1687

Searched at: Ottawa
LRO #: 4

Page 2

PIN #: 04487-3344(LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
OC433643	Deed	16 02 2005	Palladium Auto Park Limited	Palladium Auto Park No. 2 Limited
OC2415186	Deed	26 10 2021	Palladium Auto Park No. 2 Limited	2325483 Ontario Ltd.
OC2422278	Easement	12 11 2021	2325483 Ontario Ltd.	City of Ottawa
OC2424260	Easement	16 11 2021	2325483 Ontario Ltd.	Hydro One Networks Inc.
OC2426545	Deed	23 11 2021	2325483 Ontario Ltd.	Palladium Auto Park No. 2 Limited
OC2500341	Deed (Present Owner)	09 06 2022	Palladium Auto Park No. 2 Limited	1000210777 Ontario Inc.

PROPERTY DESCRIPTION:

BLOCK 251, PLAN 4M1687; SUBJECT TO AN EASEMENT IN GROSS OVER PART 2, 4R34119 AS IN OC2422278; SUBJECT TO AN EASEMENT IN GROSS OVER PART 1, 4R34110 AS IN OC2424260; CITY OF OTTAWA

PROPERTY REMARKS:

FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2018/01/02. CORRECTION: DOCUMENT OC2415188 ADDED TO 04487-3344 ON 2021/11/09 AT 14:43 BY WILKINSON, TAMMY.

ESTATE/QUALIFIER:

FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY:

SUBDIVISION FROM 04487-3093

PIN CREATION DATE:

2021/11/09

OWNERS' NAMES

1000210777 ONTARIO INC.

CAPACITY SHARE

ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2021/11/09 ** **SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND * ** PROVINCIAL SUCCESSION DUTIES AND EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE ** ** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
HU12337	1966/05/04	BYLAW				C
OC2072313	2019/01/21	CHARGE		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	MATTAMY (MONARCH) LIMITED	
OC2379751	2021/07/29	CHARGE		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	BANK OF MONTREAL	
OC2379752	2021/07/29	NO ASSGN RENT GEN		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	BANK OF MONTREAL	
REMARKS: OC2379751						
OC2379753	2021/07/29	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	BANK OF MONTREAL	
REMARKS: OC2072313 TO OC2379751						
OC2403771	2021/09/24	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2403773	2021/09/24	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
REMARKS: OC2379751 TO OC2403771						
OC2403774	2021/09/24	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
REMARKS: OC2072313 TO OC2403771						
OC2411475	2021/10/14	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2411476	2021/10/14	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD. PALLADIUM AUTO PARK NO. 2 LTD.	C
OC2411477	2021/10/14	POSTPONEMENT REMARKS: OC2379751 TO OC2411475		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
OC2411478	2021/10/14	POSTPONEMENT REMARKS: OC2072313 TO OC2411475		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
OC2411480	2021/10/14	POSTPONEMENT REMARKS: OC2379751 TO OC2411476		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
OC2411481	2021/10/14	POSTPONEMENT REMARKS: OC2072313 TO OC2411476		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
4M1687	2021/10/26	PLAN SUBDIVISION	\$1			C
OC2415188	2021/10/26	APL INH ORDER-LAND		*** DELETED AGAINST THIS PROPERTY *** CITY OF OTTAWA		
OC2415189	2021/10/26	NO SUB AGREEMENT		CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2415190	2021/10/26	NOTICE		CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2415191	2021/10/26	POSTPONEMENT REMARKS: OC2379751 TO OC2415189		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
OC2415192	2021/10/26	POSTPONEMENT REMARKS: OC2072313 TO OC2415189		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
OC2415193	2021/10/26	POSTPONEMENT REMARKS: OC2379751 TO OC2415190		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
OC2415194	2021/10/26	POSTPONEMENT REMARKS: OC2072313 TO OC2415190		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	

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LAND
REGISTRY
OFFICE #4

04487-3344 (LT)

PAGE 3 OF 4
PREPARED FOR bertucci
ON 2026/05/24 AT 18:52:17

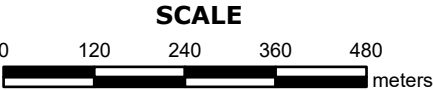
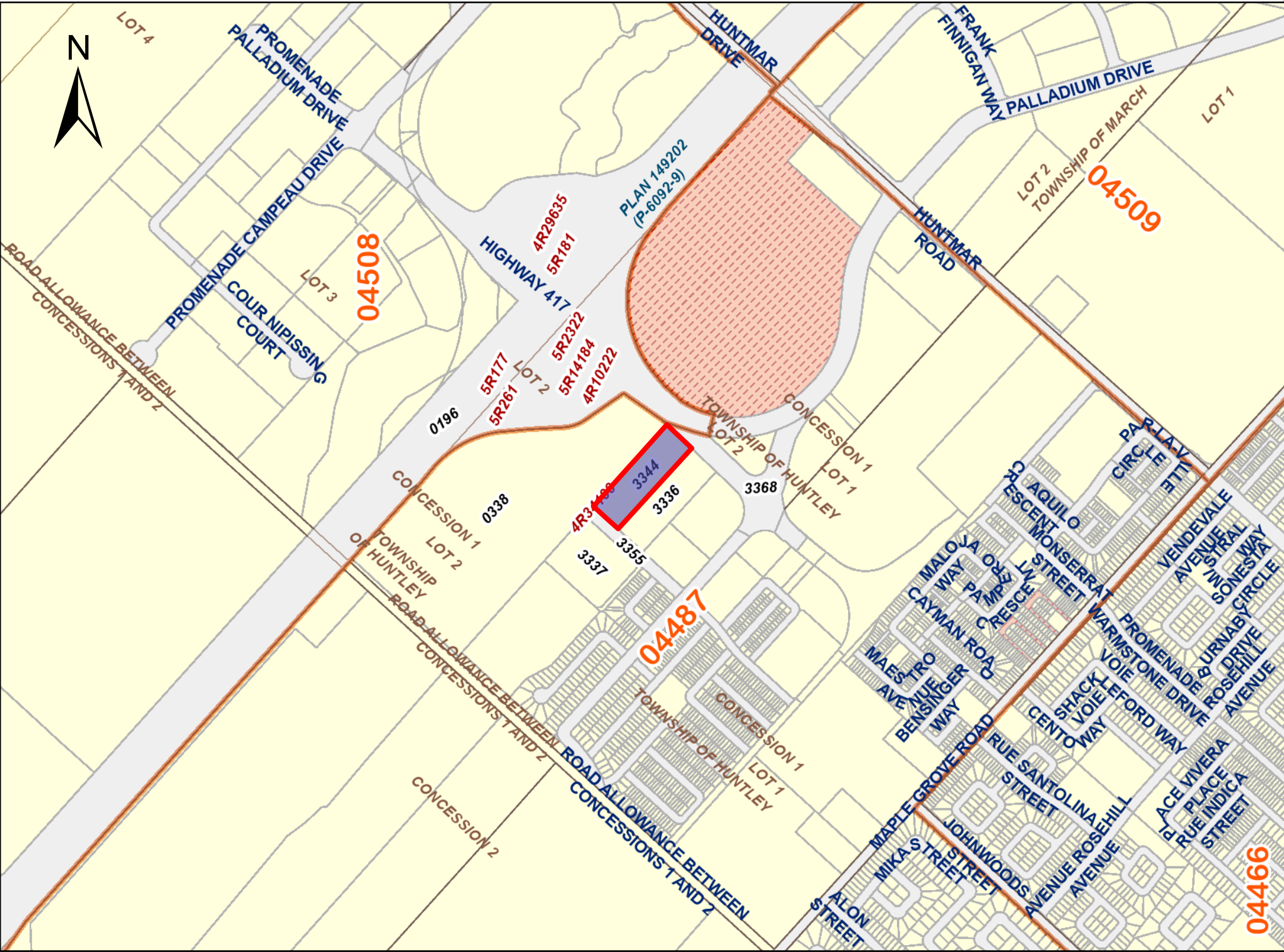
* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
4R34109	2021/10/28	PLAN REFERENCE				C
4R34110	2021/10/28	PLAN REFERENCE				C
4R34119	2021/11/01	PLAN REFERENCE				C
OC2422278	2021/11/12	TRANSFER EASEMENT	\$2	2325483 ONTARIO LTD.	CITY OF OTTAWA	C
OC2422280	2021/11/12	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
REMARKS: OC2379751, OC2379752 TO OC2422278 PART 2, 4R34119 DELETED 2022/05/16 NKEFALAS						
OC2422281	2021/11/12	POSTPONEMENT		*** COMPLETELY DELETED *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
REMARKS: OC2072313 TO OC2422278 PART 2, 4R34119 DELETED 2022/05/16 NKEFALAS						
OC2424260	2021/11/16	TRANSFER EASEMENT	\$2	2325483 ONTARIO LTD.	HYDRO ONE NETWORKS INC.	C
OC2424286	2021/11/16	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	HYDRO ONE NETWORKS INC.	
REMARKS: OC2379751 TO OC2424260 DELETED 2022/05/16 NKEFALAS						
OC2424294	2021/11/16	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	HYDRO ONE NETWORKS INC.	
REMARKS: OC2072313 TO OC2424260 DELETED 2022/05/16 NKEFALAS						
OC2425880	2021/11/22	APL DEL INH ORDER		*** COMPLETELY DELETED *** CITY OF OTTAWA		
REMARKS: OC2415188.						
OC2426545	2021/11/23	TRANSFER		*** COMPLETELY DELETED *** 2325483 ONTARIO LTD.	PALLADIUM AUTO PARK NO. 2 LTD.	
OC2457143	2022/02/16	NOTICE		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	BANK OF MONTREAL	
REMARKS: OC2379751						
OC2466789	2022/03/14	DISCH OF CHARGE		*** COMPLETELY DELETED *** MATTAMY (MONARCH) LIMITED		
REMARKS: OC2072313.						
OC2467378	2022/03/15	DISCH OF CHARGE		*** COMPLETELY DELETED *** BANK OF MONTREAL		
REMARKS: OC2379751.						

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REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2500341	2022/06/09	TRANSFER	\$3,772,000	PALLADIUM AUTO PARK NO. 2 LTD.	1000210777 ONTARIO INC.	C

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PROPERTY INDEX MAP
OTTAWA-CARLETON(No. 04)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED

LICENSE TERMS

SOME OF THE INFORMATION IS PROVIDED BY THE
ONTARIO ROAD NETWORK UNDER OPEN
GOVERNMENT LICENSE AND SUBJECT TO LICENSE
TERMS.



CHAIN OF TITLE REPORT

Project #: 26042801310
 Address: Palladium Drive, Ottawa
 Legal Description: Block 244, Plan 4M 1687

Searched at: Ottawa
 LRO #: 4

Page 1

PIN #: 04487-3337(LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (100 acres)	09 07 1860	Crown	Joseph RALPH
HU4226	Deed	19 06 1896	Thomas Gracey, exor. Of Joseph Ralph	Arner GRACEY
HU5675	Deed	14 01 1905	Arner Gracey	James BOYD
HU7129	Deed	11 06 1915	James Boyd	Alexander B. BOYD
HU7130	Deed	11 06 1915	Alexander B. Boyd	James BOYD
GR13681	Will	04 11 1960	James Boyd - estate	Byron A. BOYD
CT193844	Deed	11 06 1974	Byron A. Boyd - estate	Uri GOLDBERG, Benzion GOTTLIEB & Arnon MILLER
OC565229	Deed	21 02 2006	Uri Goldberg et al	D.D. Kanata Limited
OC1375377	Deed (Present Owner)	21 06 2012	D.D. Kanata Limited	2325483 Ontario Ltd.

Cont'd on page 2

CHAIN OF TITLE REPORT

Project #: 26042801310
Address: Palladium Drive, Ottawa
Legal Block 244, Plan 4M 1687
Description:

Searched at: Ottawa
LRO #: 4

Page 2

PIN #: 04487-3337(LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
OC2422278	Easement	12 11 2021	2325483 Ontario Ltd.	City of Ottawa
OC2424260	Easement	16 11 2021	2325483 Ontario Ltd.	Hydro One Networks Inc.

LAND
REGISTRY
OFFICE #4

04487-3337 (LT)

PAGE 1 OF 3
PREPARED FOR bertucci
ON 2026/05/24 AT 18:51:48

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION:	BLOCK 244, PLAN 4M1687; SUBJECT TO AN EASEMENT IN GROSS OVER PART 1, 4R34119 AS IN OC2422278; SUBJECT TO AN EASEMENT IN GROSS OVER PART 5, 4R34110 AS IN OC2424260; CITY OF OTTAWA		
PROPERTY REMARKS:	FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2018/01/02. CORRECTION: DOCUMENT OC2415188 ADDED TO 04487-3337 ON 2021/11/09 AT 14:43 BY WILKINSON, TAMMY.		
ESTATE/QUALIFIER:	RECENTLY:	PIN CREATION DATE:	
FEE SIMPLE	SUBDIVISION FROM 04487-3093	2021/11/09	
LT ABSOLUTE PLUS			
OWNERS' NAMES	CAPACITY	SHARE	
2325483 ONTARIO LTD.	ROWN		

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2021/11/09 **						
**SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *						
** PROVINCIAL SUCCESSION DUTIES AND EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE **						
** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
HU12337	1966/05/04	BYLAW				C
OC2072313	2019/01/21	CHARGE		*** DELETED AGAINST THIS PROPERTY *** 2325483 ONTARIO LTD.	MATTAMY (MONARCH) LIMITED	
OC2379751	2021/07/29	CHARGE	\$100,500,000	2325483 ONTARIO LTD.	BANK OF MONTREAL	C
OC2379752	2021/07/29	NO ASSGN RENT GEN		2325483 ONTARIO LTD.	BANK OF MONTREAL	C
REMARKS: OC2379751						
OC2379753	2021/07/29	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	BANK OF MONTREAL	
REMARKS: OC2072313 TO OC2379751						
OC2403771	2021/09/24	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2403773	2021/09/24	POSTPONEMENT		BANK OF MONTREAL	CITY OF OTTAWA	C
REMARKS: OC2379751 TO OC2403771						
OC2403774	2021/09/24	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
REMARKS: OC2072313 TO OC2403771						
OC2411475	2021/10/14	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2411476	2021/10/14	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD. PALLADIUM AUTO PARK NO. 2 LTD.	C

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LAND
REGISTRY
OFFICE #4

04487-3337 (LT)

PAGE 2 OF 3
PREPARED FOR bertucci
ON 2026/05/24 AT 18:51:48

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2411477 <i>REMARKS: OC2379751 TO OC2411475</i>	2021/10/14	POSTPONEMENT		BANK OF MONTREAL	CITY OF OTTAWA	C
OC2411478 <i>REMARKS: OC2072313 TO OC2411475</i>	2021/10/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
OC2411480 <i>REMARKS: OC2379751 TO OC2411476</i>	2021/10/14	POSTPONEMENT		BANK OF MONTREAL	CITY OF OTTAWA	C
OC2411481 <i>REMARKS: OC2072313 TO OC2411476</i>	2021/10/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
4M1687	2021/10/26	PLAN SUBDIVISION				C
OC2415188	2021/10/26	APL INH ORDER-LAND		*** DELETED AGAINST THIS PROPERTY *** CITY OF OTTAWA		
OC2415189	2021/10/26	NO SUB AGREEMENT		CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2415190	2021/10/26	NOTICE	\$1	CITY OF OTTAWA	2325483 ONTARIO LTD.	C
OC2415191 <i>REMARKS: OC2379751 TO OC2415189</i>	2021/10/26	POSTPONEMENT		BANK OF MONTREAL	CITY OF OTTAWA	C
OC2415192 <i>REMARKS: OC2072313 TO OC2415189</i>	2021/10/26	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
OC2415193 <i>REMARKS: OC2379751 TO OC2415190</i>	2021/10/26	POSTPONEMENT		BANK OF MONTREAL	CITY OF OTTAWA	C
OC2415194 <i>REMARKS: OC2072313 TO OC2415190</i>	2021/10/26	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
4R34109	2021/10/28	PLAN REFERENCE				C
4R34110	2021/10/28	PLAN REFERENCE				C
4R34119	2021/11/01	PLAN REFERENCE				C

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LAND
REGISTRY
OFFICE #4

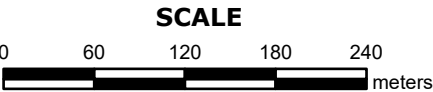
04487-3337 (LT)

PAGE 3 OF 3
PREPARED FOR bertucci
ON 2026/05/24 AT 18:51:48

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2422278	2021/11/12	TRANSFER EASEMENT	\$2	2325483 ONTARIO LTD.	CITY OF OTTAWA	C
OC2422280	2021/11/12	POSTPONEMENT		BANK OF MONTREAL	CITY OF OTTAWA	C
REMARKS: OC2379751, OC2379752 TO OC2422278 PART 1, 4R34119						
OC2422281	2021/11/12	POSTPONEMENT		*** COMPLETELY DELETED *** MATTAMY (MONARCH) LIMITED	CITY OF OTTAWA	
REMARKS: OC2072313 TO OC2422278 PART 1, 4R34119						
OC2424260	2021/11/16	TRANSFER EASEMENT	\$2	2325483 ONTARIO LTD.	HYDRO ONE NETWORKS INC.	C
OC2424286	2021/11/16	POSTPONEMENT		BANK OF MONTREAL	HYDRO ONE NETWORKS INC.	C
REMARKS: OC2379751 TO OC2424260						
OC2424294	2021/11/16	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** MATTAMY (MONARCH) LIMITED	HYDRO ONE NETWORKS INC.	
REMARKS: OC2072313 TO OC2424260						
OC2425880	2021/11/22	APL DEL INH ORDER		*** COMPLETELY DELETED *** CITY OF OTTAWA		
REMARKS: OC2415188.						
OC2457143	2022/02/16	NOTICE	\$10	2325483 ONTARIO LTD.	BANK OF MONTREAL	C
REMARKS: OC2379751						
OC2550100	2022/10/31	DISCH OF CHARGE		*** COMPLETELY DELETED *** MATTAMY (MONARCH) LIMITED		
REMARKS: OC2072313.						

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PROPERTY INDEX MAP
OTTAWA-CARLETON(No. 04)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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PROPERTY INFORMATION AS THIS MAP MAY
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REGISTRATION SYSTEM AND HAS BEEN PREPARED
FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED

LICENSE TERMS

SOME OF THE INFORMATION IS PROVIDED BY THE
ONTARIO ROAD NETWORK UNDER OPEN
GOVERNMENT LICENSE AND SUBJECT TO LICENSE
TERMS.



APPENDIX C

City Directory



CITY DIRECTORY

Project Property: *Palladium Drive, Ottawa
Palladium Drive
Stittsville, ON*

Project No: *240720*

Requested By: *LRL Associates Ltd.*

Order No: *26042801310*

Date Completed: *May 01, 2026*

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

May 01, 2026
RE: CITY DIRECTORY RESEARCH
Palladium Drive
Stittsville, ON

Thank you for contacting ERIS regarding our City Directory Search services. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. When searching a range of addresses, all civic addresses within that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on highly developed areas, while newly developed areas may be covered in the more recent years, older directories tend to cover only "central" parts of the city. To complete the search, we have either utilized the Toronto Reference Library, Library & Archives Canada and multiple digitized directories. While these do not claim to be a complete collection of all reverse listing city directories produced, ERIS has made every effort to provide accurate and complete information. ERIS shall not be held liable for missing, incomplete, or inaccurate information. If you believe there are additional addresses or streets that require searching, please contact us.

Search Criteria:

ALL of Bermondsey Way
ALL of Culdaff Rd
ALL of Derreen Ave
2500-END of Palladium Dr
ALL of Unity Pl

Search Notes:

This area is also covered by Kanata. Coverage for Kanata and Stittsville only goes back to 1991.

Search Results Summary

Data from 2012 to 2017 does not include residential information

Date	Source	Comment
2025	DIGITAL BUSINESS DIRECTORY	
2023	DIGITAL BUSINESS DIRECTORY	
2021	DIGITAL BUSINESS DIRECTORY	
2017	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2009-10	VERNONS	
2006-07	VERNONS	
2000	POLKS	
1997	POLKS	
1994	POLKS	
1991	MIGHTS	

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

42PAIVA L F...RESIDENTIAL

50STOCK K...RESIDENTIAL

520LAFRENIERE C...RESIDENTIAL

530RICKETT ELIJAH...RESIDENTIAL

731STETSKO C...RESIDENTIAL

811TRAN A...RESIDENTIAL

2500ASSURED @ MYERS VOLKSWAGEN...AUTOMOBILE BODY-REPAIRING & PAINTING

2500CAPITAL DODGE...NEW CAR DEALERS

2500CAPITAL DODGE CHRYSLER JEEP...NEW CAR DEALERS

2500CARSTAR MYERS KANATA...AUTOMOBILE BODY-REPAIRING & PAINTING

2500DISCOUNT CAR TRUCK RENTAL...AUTOMOBILE RENTING & LEASING

2500KANATA HONDA...NEW CAR DEALERS

2500KANATA MAZDA...NEW CAR DEALERS

2500KANATA TOYOTA...NEW CAR DEALERS

2500MYERS KANATA CHEV BUICK GMC...NEW CAR DEALERS

2500MYERS KANATA HYUNDAI...NEW CAR DEALERS

2500MYERS KANATA NISSAN...NEW CAR DEALERS

2500MYERS KANATA VOLKSWAGEN...NEW CAR DEALERS

2500PAYLESS CAR RENTAL...AUTOMOBILE RENTING & LEASING

2500RAY ADNAN...NONCLASSIFIED ESTABLISHMENTS

3015MC DONALD'S...RESTAURANTS

3055PRINCESS AUTO LTD...NEW AUTO PARTS

3065CABELA'S...SPORTING GOODS-RETAIL

3065SUNGLASS OUTFITTERS...SUNGLASSES & SUN GOGGLES

3199KINAXIS INC...COMPUTER CONSULTANTS

3280RAZAVI MOHAMMAD DDS...DENTISTS

114

TREMBAY D...RESIDENTIAL

116

CHRISTOFF L...RESIDENTIAL

126

NASRALLAH J...RESIDENTIAL

NO LISTING FOUND

NO LISTING FOUND

NO LISTING FOUND

2500	ASSURED @ MYERS VOLKSWAGEN...AUTOMOBILE REPAIRING & SERVICE
2500	ASSURED @ MYERS VOLKSWAGEN...AUTOMOBILE BODY-REPAIRING & PAINTING
2500	CAPITAL DODGE...AUTOMOBILE DEALERS-NEW CARS
2500	CAPITAL DODGE...TRUCK-DEALERS
2500	CAPITAL DODGE CHRYSLER JEEP...AUTOMOBILE REPAIRING & SERVICE
2500	CAPITAL DODGE CHRYSLER JEEP...AUTOMOBILE DEALERS-NEW CARS
2500	DISCOUNT CAR TRUCK RENTAL...TRUCK RENTING & LEASING
2500	DISCOUNT CAR TRUCK RENTAL...AUTOMOBILE RENTING & LEASING
2500	ENTERPRISE RENT-A-CAR...AUTOMOBILE RENTING & LEASING
2500	ENTERPRISE RENT-A-CAR...AUTOMOBILE LEASING
2500	KANATA HONDA...AUTOMOBILE PARTS & SUPPLIES-RETAIL-NEW
2500	KANATA HONDA...AUTOMOBILE DEALERS-NEW CARS
2500	KANATA MAZDA...AUTOMOBILE DEALERS-NEW CARS
2500	KANATA MAZDA...AUTOMOBILE PARTS & SUPPLIES-RETAIL-NEW
2500	KANATA TOYOTA...AUTOMOBILE DEALERS-NEW CARS
2500	KANATA TOYOTA...AUTOMOBILE PARTS & SUPPLIES-RETAIL-NEW
2500	MYERS KANATA CHEV BUICK GMC...TRUCK-DEALERS
2500	MYERS KANATA CHEV BUICK GMC...AUTOMOBILE DEALERS-NEW CARS
2500	MYERS KANATA HYUNDAI...MOTOR VEHICLE DEALERS-USED ONLY
2500	MYERS KANATA HYUNDAI...AUTOMOBILE DEALERS-NEW CARS
2500	MYERS KANATA NISSAN...AUTOMOBILE DEALERS-NEW CARS
2500	MYERS KANATA NISSAN...TRUCK-DEALERS
2500	MYERS KANATA VOLKSWAGEN...AUTOMOBILE DEALERS-NEW CARS
2500	MYERS KANATA VOLKSWAGEN...MOTOR VEHICLE DEALERS-USED ONLY
2500	PAYLESS CAR RENTAL...AUTOMOBILE RENTING & LEASING
2500	RAY ADNAN...NONCLASSIFIED ESTABLISHMENTS
3015	MC DONALD'S...FOODS-CARRY OUT
3015	MC DONALD'S...RESTAURANTS
3055	PRINCESS AUTO LTD...HYDRAULIC EQUIPMENT & SUPPLIES (WHOL)
3055	PRINCESS AUTO LTD...AUTOMOBILE PARTS & SUPPLIES-RETAIL-NEW
3065	CABELA'S...SPORTING GOODS-RETAIL
3065	SUNGLASS OUTFITTERS...SUNGLASSES & SUN GOGGLES
3280	PALLADIUM ORTHODONTICS...DENTISTS
3280	RAZAVI MOHAMMAD DDS...DENTISTS

NO LISTING FOUND

NO LISTING FOUND

NO LISTING FOUND

NO LISTING FOUND

2500 **ASSURED @ MYERS VOLKSWAGEN...**AUTOMOBILE REPAIRING & SERVICE
 2500 **CAPITAL DODGE CHRYSLER JEEP...**AUTOMOBILE DEALERS-NEW CARS
 2500 **CAPITAL DODGE CHRYSLER JEEP...**AUTOMOBILE REPAIRING & SERVICE
 2500 **DISCOUNT CAR TRUCK RENTAL...**TRUCK-DEALERS-USED
 2500 **DISCOUNT CAR TRUCK RENTAL...**AUTOMOBILE RENTING
 2500 **ENTERPRISE RENT-A-CAR...**AUTOMOBILE RENTING
 2500 **KANATA HONDA...**AUTOMOBILE DEALERS-USED CARS
 2500 **KANATA HONDA...**AUTOMOBILE DEALERS-NEW CARS
 2500 **KANATA MAZDA...**AUTOMOBILE DEALERS-USED CARS
 2500 **KANATA MAZDA...**AUTOMOBILE DEALERS-NEW CARS
 2500 **MYERS KANATA CHEV BUICK GMC...**AUTOMOBILE DEALERS-NEW CARS
 2500 **MYERS KANATA CHEV BUICK GMC...**AUTOMOBILE DEALERS-USED CARS
 2500 **MYERS KANATA HYUNDAI...**AUTOMOBILE DEALERS-NEW CARS
 2500 **MYERS KANATA HYUNDAI...**AUTOMOBILE DEALERS-USED CARS
 2500 **MYERS VOLKSWAGEN AUTOMTV GROUP...**AUTOMOBILE DEALERS-NEW CARS
 2500 **MYERS VOLKSWAGEN AUTOMTV GROUP...**AUTOMOBILE DEALERS-USED CARS
 2500 **PAYLESS CAR RENTAL...**AUTOMOBILE RENTING
 2500 **RAY ADNAN...**NONCLASSIFIED ESTABLISHMENTS
 2500 **TONY GRAHAM KANATA TOYOTA...**AUTOMOBILE DEALERS-USED CARS
 2500 **TONY GRAHAM KANATA TOYOTA...**AUTOMOBILE DEALERS-NEW CARS
 3015 **MC DONALD'S...**FOODS-CARRY OUT
 3055 **PRINCESS AUTO LTD...**OIL FIELD EQUIPMENT-REPAIRING
 3055 **PRINCESS AUTO LTD...**AUTOMOBILE REPAIRING & SERVICE
 3065 **CABELA'S...**SPORTING GOODS-RETAIL
 3065 **SUNGLASS OUTFITTERS...**SUNGLASSES & SUN GOGGLES
 3280 **PALLADIUM ORTHODONTICS...**DENTISTS
 3280 **RAZAVI MOHAMMAD DDS...**DENTISTS

NO LISTING FOUND

NO LISTING FOUND

NO LISTING FOUND

NO LISTING FOUND

2500	ASSURED @ MYERS VOLKSWAGEN...AUTOMOBILE BODY-REPAIRING & PAINTING
2500	CAPITAL DODGE CHRYSLER JEEP...USED CAR DEALERS
2500	CAPITAL DODGE CHRYSLER JEEP...NEW CAR DEALERS
2500	DISCOUNT CAR TRUCK RENTALS...PASSENGER CARS RENTAL
2500	DISCOUNT CAR TRUCK RENTALS...TRUCK, TRAILER, & RV RENTAL & LEASING
2500	ENTERPRISE RENT-A-CAR...PASSENGER CARS RENTAL
2500	KANATA HONDA...NEW CAR DEALERS
2500	KANATA HONDA...INDUSTRIAL MACHINERY MERCHANT WHOLS
2500	KANATA MAZDA...USED CAR DEALERS
2500	KANATA MAZDA...NEW CAR DEALERS
2500	KANATA TOYOTA...USED CAR DEALERS
2500	KANATA TOYOTA...NEW CAR DEALERS
2500	MYERS KANATA HYUNDAI...USED CAR DEALERS
2500	MYERS KANATA HYUNDAI...NEW CAR DEALERS
2500	MYERS KANATA INC...USED CAR DEALERS
2500	MYERS KANATA INC...NEW CAR DEALERS
2500	MYERS VOLKSWAGEN AUTOMTV GROUP...NEW CAR DEALERS

NO LISTING FOUND

NO LISTING FOUND

NO LISTING FOUND

NO LISTING FOUND

2500CAPITAL DODGE CHRYSLER JEEP...NEW CAR DEALERS

2500DILAWRI'S KANATA MAZDA...NEW CAR DEALERS

2500DISCOUNT CAR & TRUCK RENTALS...PASSENGER CARS RENTAL

2500KANATA TOYOTA...NEW CAR DEALERS

2500TURPIN PONTIAC BUICK GMC...NEW CAR DEALERS

2500TURPIN SATURN SAAB...NEW CAR DEALERS

NO LISTING FOUND

STREET NOT LISTED

STREET NOT LISTED

STREET NOT LISTED

1000 Units	
2) -- Ottawa 67's Hockey Club	▲230-2950
2) -- Freeman Decorating Ltd	▲232-1660
1) -- Ottawa Senators	▲254-8570
2) -- Ottawa Travellers Athletic Club	▲565-9350
1) -- Ottawa Senators	▲592-4794
4) -- ePrint it	▲599-0170
X -- Palladium Catering Services	▲599-0230
X -- Ottawa YMCA	▲599-0280
3) -- Physiotherapy & Sports Injury Centres	▲599-0299
X -- Inside Edge Sports Consultants Inc	▲599-4646
8) -- Palladium Insurance Brokers Ltd	▲599-5740
6) -- Snelling & Layton Insurance Brokers Ltd	▲599-5740
X -- Palladium Catering Services	▲599-9286
2500 Units	
6) -- Robert Construction Ltd	▲254-5566

640	PALLADIUM DR (KANATA)	
2500	1) -- Capital Dodge Chrysler Jeep Ltd	▲271-7114
	2) -- Kanata Toyota	▲271-8200
	2) -- Turpin Saturn Saab	▲591-0889
	2) -- Turpin Pontiac Buck GMC	▲591-1106
	1) -- Kanata Mazda	▲836-0086
	1) -- Mazda By Kanata Mazda	▲836-0086

STREET NOT LISTED

STREET NOT LISTED

STREET NOT LISTED

STREET NOT LISTED

RANGE NOT LISTED

STREET NOT LISTED

STREET NOT LISTED

STREET NOT LISTED

STREET NOT LISTED

RANGE NOT LISTED

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STREET NOT LISTED

APPENDIX D

Ecolog ERIS Report



DATABASE REPORT

Project Property:	<i>Palladium Drive, Ottawa Palladium Drive Stittsville ON</i>
Project No:	<i>240720</i>
Report Type:	<i>RSC Report - Quote</i>
Order No:	<i>26042801310</i>
Requested by:	<i>LRL Associates Ltd.</i>
Date Completed:	<i>April 30, 2026</i>

Environmental Risk Information Services

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Executive Summary

Property Information:

Project Property: *Palladium Drive, Ottawa
Palladium Drive Stittsville ON*

Project No: *240720*

Order Information:

Order No: *26042801310*
Date Requested: *April 28, 2026*
Requested by: *LRL Associates Ltd.*
Report Type: *RSC Report - Quote*

Historical/Products:

Aerial Photographs *Aerials - National Collection*
City Directory Search *Smart CD Search*
ERIS Xplorer *[ERIS Xplorer](#)*
Insurance Products *Fire Insurance Maps/Inspection Reports/Site Plans*
Land Title Search *Historical Land Title Search*
Topographic Map *RSC Maps*

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.30km</i>	<i>Total</i>
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	6	6
CA	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	5	5
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	5	5
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EOR	Environmental Offenders Registry	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
ESNR	Excess Soil Registry	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HBAR	Historical Business Activity Risk	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NOC	Notice of Contamination List	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPR2	National Pollutant Release Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory - Historic	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PFAS	Ontario PFAS Spills	Y	0	0	0
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PPHA	Potential PFAS Handlers from EASR	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	1	1
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directories	Y	0	0	0
SPL	Ontario Spills	Y	0	2	2
SRDS	Wastewater Discharger Registration Database	Y	0	0	0

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.30km</i>	<i>Total</i>
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WMS	Waste Management Site	Y	0	0	0
WWIS	Water Well Information System	Y	0	4	4
Total:			0	23	23

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>1</u>	ECA	Turpin Saturn SAAB Limited	Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2A 1C5	NE/11.4	-0.92	<u>16</u>
<u>1</u>	ECA	Vik One Holdings Ltd.	Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2B 6R1	NE/11.4	-0.92	<u>16</u>
<u>1</u>	ECA	Turpin Pontiac Buick Limited	Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2A 1C5	NE/11.4	-0.92	<u>16</u>
<u>1</u>	ECA	Capital Two Investments Limited	Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2E 7V1	NE/11.4	-0.92	<u>17</u>
<u>2</u>	WWIS		lot 2 con 1 ON Well ID: 1519823	NNE/15.5	-0.92	<u>17</u>
<u>3</u>	WWIS		lot 2 con 1 ON Well ID: 1534471	NNE/17.6	-0.92	<u>20</u>
<u>4</u>	EHS		2765 Palladium Drive Ottawa ON K2S 0V5	E/27.0	0.00	<u>24</u>
<u>5</u>	EHS		425 Culdaff Rd Ottawa ON K2S 0V5	ESE/45.5	0.00	<u>24</u>
<u>6</u>	EHS		57404 Palladium Drive Ottawa Ontario Ottawa ON	NNW/50.6	-1.00	<u>24</u>
<u>7</u>	WWIS		ON Well ID: 7476826	SE/59.9	0.00	<u>25</u>
<u>8</u>	BORE		ON	ENE/79.5	-1.00	<u>25</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	WWIS		ON Well ID: 7476825	SE/85.9	0.00	26
10	EHS		2500 Palladium Drive Kanata ON K2V 1E2	NE/112.7	-1.00	27
11	SPL		Derreen Avenue and Culdaff Road, Ottawa, ON OTTAWA ON	SE/124.8	1.00	27
12	EHS		Derreen Ave & Culdaff Rd Ottawa ON K2S	SE/125.1	1.00	28
13	BORE		ON	N/161.5	-3.03	28
14	BORE		ON	NW/184.6	-2.00	29
15	BORE		ON	NNW/187.4	-2.00	30
16	ECA	2325483 Ontario Ltd.	195 Huntmar Dr 2499 Palladium Drive, Stittsville Ottawa ON K0A 1B0	ESE/248.1	1.00	31
16	PTTW	2325483 Ontario Ltd.	195 Huntmar Drive Ottawa, ON K2S 1B9 Canada ON	ESE/248.1	1.00	31
17	SPL	THOMAS CAVANAGH CONSTRUCTION LIMITED	OTTAWA ON	ESE/252.5	1.00	31
18	BORE		ON	N/291.1	-3.00	32
19	BORE		ON	NW/298.7	-3.00	33

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 6 BORE site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	79.5	<u>8</u>
	ON	161.5	<u>13</u>
	ON	184.6	<u>14</u>
	ON	187.4	<u>15</u>
	ON	291.1	<u>18</u>
	ON	298.7	<u>19</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011 - Feb 28, 2026 has found that there are 5 ECA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Capital Two Investments Limited	Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2E 7V1	11.4	<u>1</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Turpin Pontiac Buick Limited	Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2A 1C5	11.4	<u>1</u>
Turpin Saturn SAAB Limited	Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2A 1C5	11.4	<u>1</u>
Vik One Holdings Ltd.	Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2B 6R1	11.4	<u>1</u>
2325483 Ontario Ltd.	195 Huntmar Dr 2499 Palladium Drive, Stittsville Ottawa ON K0A 1B0	248.1	<u>16</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Feb 28, 2026 has found that there are 5 EHS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	2765 Palladium Drive Ottawa ON K2S 0V5	27.0	<u>4</u>
	425 Culdaff Rd Ottawa ON K2S 0V5	45.5	<u>5</u>
	57404 Palladium Drive Ottawa Ontario Ottawa ON	50.6	<u>6</u>
	2500 Palladium Drive Kanata ON K2V 1E2	112.7	<u>10</u>
	Derreen Ave & Culdaff Rd Ottawa ON K2S	125.1	<u>12</u>

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994 - Mar 31, 2026 has found that there are 1 PTTW site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
2325483 Ontario Ltd.	195 Huntmar Drive Ottawa, ON K2S 1B9 Canada ON	248.1	<u>16</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988- Feb 2026 has found that there are 2 SPL site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Derreen Avenue and Culdaff Road, Ottawa, ON OTTAWA ON	124.8	<u>11</u>
THOMAS CAVANAGH CONSTRUCTION LIMITED	OTTAWA ON	252.5	<u>17</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Jul 31, 2025 has found that there are 4 WWIS site(s) within approximately 0.30 kilometers of the project property.

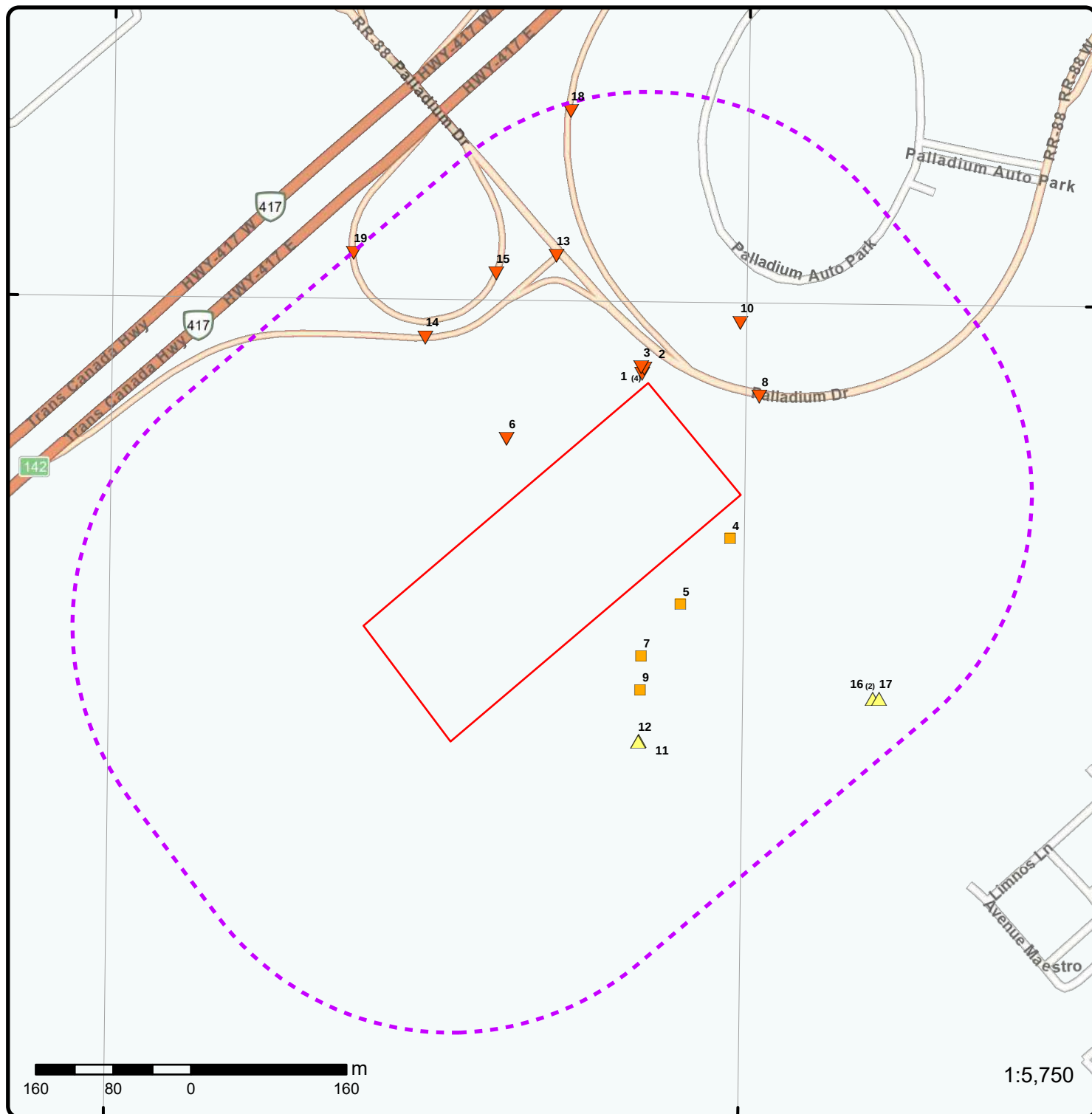
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 2 con 1 ON <i>Well ID: 1519823</i>	15.5	<u>2</u>
	lot 2 con 1 ON <i>Well ID: 1534471</i>	17.6	<u>3</u>
	ON <i>Well ID: 7476826</i>	59.9	<u>7</u>
	ON <i>Well ID: 7476825</i>	85.9	<u>9</u>

75°56'30"W

75°56'W

45°17'30"N

45°17'30"N



Map: 0.3 Kilometer Radius

Order Number: 26042801310

Address: Palladium Drive, Stittsville, ON



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

75°56'30"W

75°55'30"W

75°55'30"W

45°17'30"N

45°17'N

45°17'30"N

45°17'N

240 120 0 240 m

1:10,000

Vantor

Aerial Year: 2025

Order Number: 26042801310

Address: Palladium Drive, Stittsville, ON



Source: ESRI World Imagery

© ERIS Information Limited Partnership

75°57'30"W 75°57'W 75°56'30"W 75°56'W 75°55'30"W 75°55'W 75°54'30"W

45°18'30"N

45°18'N

45°17'30"N

45°17'N

45°16'30"N

45°16'N

45°18'30"N

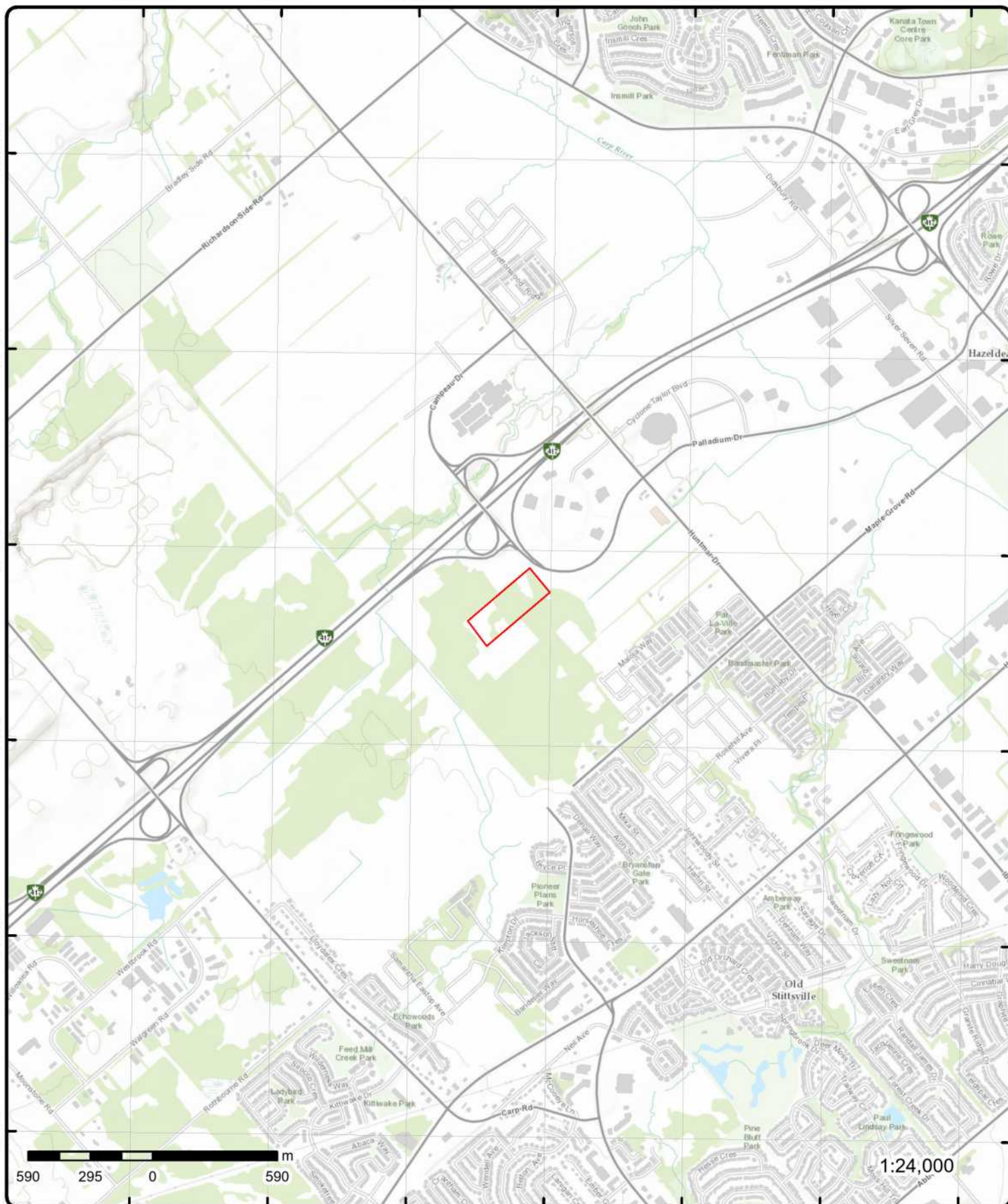
45°18'N

45°17'30"N

45°17'N

45°16'30"N

45°16'N



Topographic Map

Address: Palladium Drive, ON

Source: ESRI World Topographic Map

Order Number: 26042801310



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 4	NE/11.4	103.0 / -0.92	Turpin Saturn SAAB Limited Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2A 1C5	ECA
Approval No: 4053-6PEQTF Approval Date: 2006-05-25 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Mississippi Valley Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Business Name: Turpin Saturn SAAB Limited Address: Part of Front Half Lot 2, Concession 1, Huntley Township Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2194-6NAQ85-14.pdf PDF Site Location: MOE District: Ottawa City: Longitude: -75.9347 Latitude: 45.291 Geometry X: Geometry Y:					
1	2 of 4	NE/11.4	103.0 / -0.92	Vik One Holdings Ltd. Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2B 6R1	ECA
Approval No: 0160-6PGP6M Approval Date: 2006-05-25 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Mississippi Valley Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Business Name: Vik One Holdings Ltd. Address: Part of Front Half Lot 2, Concession 1, Huntley Township Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2090-6PAQ4N-14.pdf PDF Site Location: MOE District: Ottawa City: Longitude: -75.9347 Latitude: 45.291 Geometry X: Geometry Y:					
1	3 of 4	NE/11.4	103.0 / -0.92	Turpin Pontiac Buick Limited Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2A 1C5	ECA
Approval No: 9453-6PWQHH Approval Date: 2006-06-23 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Mississippi Valley Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Business Name: Turpin Pontiac Buick Limited Address: Part of Front Half Lot 2, Concession 1, Huntley Township MOE District: Ottawa City: Longitude: -75.9347 Latitude: 45.291 Geometry X: Geometry Y:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7813-6MURFA-14.pdf PDF Site Location:					
<u>1</u>	4 of 4	NE/11.4	103.0 / -0.92	Capital Two Investments Limited Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON K2E 7V1	ECA
Approval No: 3546-6VJSN7 Approval Date: 2006-11-21 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Mississippi Valley Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Business Name: Capital Two Investments Limited Address: Part of Front Half Lot 2, Concession 1, Huntley Township Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9326-6SKP7W-14.pdf PDF Site Location:					
<u>2</u>	1 of 1	NNE/15.5	103.0 / -0.92	lot 2 con 1 ON	WWIS
Well ID: 1519823 Construction Date: Use 1st: Domestic Use 2nd: Livestock Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: HUNTLEY TOWNSHIP Site Info: PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1519823.pdf					
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: 03/28/1985 Year Completed: 1985 Depth (m): 32.004 Latitude: 45.2910493580821 Longitude: -75.9346705229664 Point X: -75.93467036155681 Point Y: 45.291049351451484 Path: 151\1519823.pdf					
<u>Bore Hole Information</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10041676			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	426707.60
Code OB Desc:				North83:	5015708.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	03/28/1985			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	lot
Location Method Desc:	Lot centroid				
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931042857				
Layer:	1				
Color:	6				
General Color:	BROWN				
Material 1:	01				
Material 1 Desc:	FILL				
Material 2:	13				
Material 2 Desc:	BOULDERS				
Material 3:	77				
Material 3 Desc:	LOOSE				
Formation Top Depth:	0.0				
Formation End Depth:	14.0				
Formation End Depth UOM:	ft				
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931042858				
Layer:	2				
Color:	2				
General Color:	GREY				
Material 1:	15				
Material 1 Desc:	LIMESTONE				
Material 2:	78				
Material 2 Desc:	MEDIUM-GRAINED				
Material 3:	73				
Material 3 Desc:	HARD				
Formation Top Depth:	14.0				
Formation End Depth:	105.0				
Formation End Depth UOM:	ft				
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	961519823				
Method Construction Code:	5				
Method Construction:	Air Percussion				
Other Method Construction:					
 <u>Pipe Information</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		10590246			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930072768			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		105.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930072767			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		22.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991519823			
Pump Set At:					
Static Level:		8.0			
Final Level After Pumping:		50.0			
Recommended Pump Depth:		60.0			
Pumping Rate:		50.0			
Flowing Rate:					
Recommended Pump Rate:		50.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934384438			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		27.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934654979			
Test Type:		Draw Down			
Test Duration:		45			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		39.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934109708			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		13.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934895180			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933476905			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		63.0			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933476906			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		102.0			
Water Found Depth UOM:		ft			
3	1 of 1	NNE/17.6	103.0 / -0.92	lot 2 con 1 ON	WWIS
Well ID:	1534471			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:	02/06/2004
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	261147			Contractor:	6574
Tag:				Form Version:	2
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	002
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\1534471.pdf				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		11/02/2002			
Year Completed:		2002			
Depth (m):		60.3504			
Latitude:		45.2910580035362			
Longitude:		-75.9347140239456			
Point X:		-75.9347138624593			
Point Y:		45.29105799743077			
Path:		153\1534471.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	11097498			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	426704.20
Code OB Desc:				North83:	5015709.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	11/02/2002			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	lot
Location Method Desc:		Lot centroid			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932942441			
Layer:		3			
Color:		2			
General Color:		GREY			
Material 1:		21			
Material 1 Desc:		GRANITE			
Material 2:		73			
Material 2 Desc:		HARD			
Material 3:					
Material 3 Desc:					
Formation Top Depth:		38.0			
Formation End Depth:		180.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932942439			
Layer:		1			
Color:		2			
General Color:		GREY			
Material 1:		05			
Material 1 Desc:		CLAY			
Material 2:		79			
Material 2 Desc:		PACKED			
Material 3:					
Material 3 Desc:					
Formation Top Depth:		0.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		21.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932942440			
Layer:		2			
Color:		2			
General Color:		GREY			
Material 1:		05			
Material 1 Desc:		CLAY			
Material 2:		28			
Material 2 Desc:		SAND			
Material 3:		74			
Material 3 Desc:		LAYERED			
Formation Top Depth:		21.0			
Formation End Depth:		38.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932942442			
Layer:		4			
Color:		1			
General Color:		WHITE			
Material 1:		21			
Material 1 Desc:		GRANITE			
Material 2:		74			
Material 2 Desc:		LAYERED			
Material 3:					
Material 3 Desc:					
Formation Top Depth:		180.0			
Formation End Depth:		198.0			
Formation End Depth UOM:		ft			
 <u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933245252			
Layer:		1			
Plug From:		0.0			
Plug To:		30.0			
Plug Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		961534471			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		11101213			
Casing No:		1			
Comment:					
Alt Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		930832331			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		40.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930832332			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		198.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		991534471			
Pump Set At:					
Static Level:		1.0			
Final Level After Pumping:		150.0			
Recommended Pump Depth:		100.0			
Pumping Rate:		100.0			
Flowing Rate:					
Recommended Pump Rate:		20.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		4			
Pumping Duration MIN:					
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934398334			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		150.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934114720			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		150.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		934658294			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		150.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934915741			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		150.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		934042725			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		192.0			
Water Found Depth UOM:		ft			
<u>4</u>	1 of 1	E/27.0	103.9 / 0.00	2765 Palladium Drive Ottawa ON K2S 0V5	EHS
Order No:		25042301665		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Standard Report		Client Prov/State: ON	
Report Date:		28-APR-25		Search Radius (km): .25	
Date Received:		23-APR-25		X: -75.9335205	
Previous Site Name:				Y: 45.289484	
Lot/Building Size:					
Additional Info Ordered:		Fire Insur. Maps and/or Site Plans; Topographic Maps			
<u>5</u>	1 of 1	ESE/45.5	103.9 / 0.00	425 Culdaff Rd Ottawa ON K2S 0V5	EHS
Order No:		24013100092		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Custom Report		Client Prov/State: ON	
Report Date:		05-FEB-24		Search Radius (km): .25	
Date Received:		31-JAN-24		X: -75.93416211	
Previous Site Name:				Y: 45.28886965	
Lot/Building Size:					
Additional Info Ordered:		Topographic Maps			
<u>6</u>	1 of 1	NNW/50.6	102.9 / -1.00	57404 Palladium Drive Ottawa Ontario	EHS
Order No:		22041901034		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Custom Report		Client Prov/State: ON	
Report Date:		22-APR-22		Search Radius (km): .25	
Date Received:		19-APR-22		X: -75.9364697	
Previous Site Name:				Y: 45.2903803	
Lot/Building Size:					
Additional Info Ordered:		Fire Insur. Maps and/or Site Plans; Topographic Maps			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	1 of 1	SE/59.9	103.9 / 0.00	ON	WWIS
Well ID: 7476826 Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material: Audit No: Z402835 Tag: A398392 Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: HUNTLEY TOWNSHIP Site Info: Flowing (Y/N): Flow Rate: Data Entry Status: Yes Data Src: Date Received: 05/06/2024 Selected Flag: TRUE Abandonment Rec: Contractor: 7328 Form Version: 7 Owner: County: OTTAWA-CARLETON Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
Additional Detail(s) (Map)					
Bore Hole ID: 1010313737 Depth (m): Year Completed: 2024 Well Completed Dt: 03/26/2024 Audit No: Z402835 Path: Tag No: A398392 Contractor: 7328 Latitude: 45.2883849028389 Longitude: -75.9346726661275 Point Y: 45.28838489620923 Point X: -75.93467250516319					
Bore Hole Information					
Bore Hole ID: 1010313737 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 03/26/2024 Remarks: Location Method Desc: on Water Well Record Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: Elevation: Elevrc: Zone: 18 East83: 426704.00 North83: 5015412.00 Org CS: UTM83 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr					
8	1 of 1	ENE/79.5	102.9 / -1.00	ON	BORE
Borehole ID: 848689 OGF ID: 215590309 Status: Decommissioned Type: Borehole Use: Geotechnical/Geological Investigation Completion Date: 06-MAY-1992 Static Water Level: Inclin FLG: No SP Status: Initial Entry Surv Elev: No Piezometer: No Primary Name: Municipality: Lot: LOT 2					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Primary Water Use: Sec. Water Use: Total Depth m: 1.5 Depth Ref: Ground Surface Depth Elev: Drill Method: Power auger Orig Ground Elev m: 103 Elev Reliabil Note: DEM Ground Elev m: 103 Concession: Location D: Survey D: Comments:				Township: HUNTLEY Latitude DD: 45.290801 Longitude DD: -75.933157 UTM Zone: 18 Easting: 426826 Northing: 5015679 Location Accuracy: Accuracy: Within 10 metres	
<u>Borehole Geology Stratum</u>					
Geology Stratum ID: 6561880 Top Depth: .3 Bottom Depth: 1.5 Material Color: Brown-Grey Material 1: Clay Material 2: Silt Material 3: Sand Material 4: Organic Gsc Material Description: Stratum Description:				Mat Consistency: Firm Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
		FIRM BROWNISH GREY SILTY CLAY TRACE SAND TRACE ORGANICS **Note: Many records provided by the department have a truncated [Stratum Description] field.			
Geology Stratum ID: 6561879 Top Depth: 0 Bottom Depth: .3 Material Color: Brown Material 1: Clay Material 2: Silt Material 3: Sand Material 4: Organic Gsc Material Description: Stratum Description:				Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
		300mm DARK BROWN ORGANIC SANDY SILTY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.			
<u>9</u>	1 of 1	SE/85.9	103.9 / 0.00	ON	WWIS
Well ID: 7476825 Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material: Audit No: Z402834 Tag: A398391 Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: HUNTLEY TOWNSHIP Site Info:				Flowing (Y/N): Flow Rate: Data Entry Status: Yes Data Src: Date Received: 05/06/2024 Selected Flag: TRUE Abandonment Rec: Contractor: 7328 Form Version: 7 Owner: County: OTTAWA-CARLETON Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Additional Detail(s) (Map)</u>					
Bore Hole ID:	1010313734			Tag No:	A398391
Depth (m):				Contractor:	7328
Year Completed:	2024			Latitude:	45.2880697889976
Well Completed Dt:	03/25/2024			Longitude:	-75.9346802424423
Audit No:	Z402834			Point Y:	45.28806978231299
Path:				Point X:	-75.93468008068031
<u>Bore Hole Information</u>					
Bore Hole ID:	1010313734			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	426703.00
Code OB Desc:				North83:	5015377.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	03/25/2024			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	www
Location Method Desc:	on Water Well Record				
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
10	1 of 1	NE/112.7	102.9 / -1.00	2500 Palladium Drive Kanata ON K2V 1E2	EHS
Order No:	25061700539			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	07-JUL-25			Search Radius (km):	.25
Date Received:	17-JUN-25			X:	-75.93341804
Previous Site Name:				Y:	45.29148076
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos				
11	1 of 1	SE/124.8	104.9 / 1.00	Derreen Avenue and Culdaff Road, Ottawa, ON OTTAWA ON	SPL
Ref No:	1-2FBQ8M			Municipality No:	
Year:				Nature of Damage:	
Incident Dt:	12/20/2022 11:39:57 AM			Discharger Report:	
Dt MOE Arvl on Scn:				Material Group:	
MOE Reported Dt:	12/20/2022 11:39:57 AM			Impact to Health:	
Dt Document Closed:				Agency Involved:	
Site No:					
MOE Response:	Desktop Response				
Site County/District:					
Site Geo Ref Meth:					
Site District Office:	Ottawa District Office				
Nearest Watercourse:					
Site Name:					
Site Address:	Derreen Avenue and Culdaff Road, Ottawa, ON				
Site Region:					
Site Municipality:	OTTAWA				
Site Lot:					
Site Conc:					
Site Geo Ref Accu:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Site Map Datum: Northings: Easting: Entity Operating Name: Client Name: Client Type: Source Type: Pipeline/Components Incident Cause: Incident Preceding Spill: Line Strike Incident Reason: Human error (Specify) Incident Summary: TSSA FSB: 2" plastic IP natural gas line strike to atm. Environment Impact: Health Env Consequence: Nature of Impact: Contaminant Qty: 0 other - see notes Contaminant Qty 1: Contaminant Unit: Contaminant Code: Contaminant Name: NATURAL GAS Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Receiving Medium: Air Activity Preceding Spill: Property 2nd Watershed: 02K Central Ottawa River Property Tertiary Watershed: 02KF Mississippi River - Central Ottawa River Sector Type: NATURAL GAS DISTRIBUTION SAC Action Class: Call Report Locatn Geodata: {"integration_ids":["PR00004264303"],"wks":["POINT (-75.9346911000 45.2875991000)","creation_date":"2022-12-20"} Time Reported: System Facility Address: Source Sector Type: Conservtn Auth Name: Primary Watershed: Quaternary Watershed: Offsite Impacts: Waterbody Impacted:					
12	1 of 1	SE/125.1	104.9 / 1.00	Derreen Ave & Culdaff Rd Ottawa ON K2S	EHS
Order No: 23031500257 Status: C Report Type: Standard Report Report Date: 20-MAR-23 Date Received: 15-MAR-23 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.9346985 Y: 45.2875914					
13	1 of 1	N/161.5	100.8 / -3.03	ON	BORE
Borehole ID: 848681 OGF ID: 215590301 Status: Decommissioned Type: Borehole Use: Geotechnical/Geological Investigation Completion Date: 06-MAY-1992 Static Water Level: Primary Water Use: Inclin FLG: No SP Status: Initial Entry Surv Elev: No Piezometer: No Primary Name: Municipality: Lot: LOT 2 Township: HUNTLEY					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Sec. Water Use:					
Total Depth m:	1.5			Latitude DD:	45.292084
Depth Ref:	Ground Surface			Longitude DD:	-75.935843
Depth Elev:				UTM Zone:	18
Drill Method:	Power auger			Easting:	426617
Orig Ground Elev m:	103			Northing:	5015824
Elev Reliabil Note:				Location Accuracy:	
DEM Ground Elev m:	103			Accuracy:	Within 10 metres
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	6561857			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:	250mm DARK BROWN ORGANIC SANDY SILTY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	6561858			Mat Consistency:	Firm
Top Depth:	.2			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:	FIRM BROWNISH GREY SILTY CLAY TRACE SAND **Note: Many records provided by the department have a truncated [Stratum Description] field.				
14	1 of 1	NW/184.6	101.9 / -2.00	ON	BORE
Borehole ID:	848679			Inclin FLG:	No
OGF ID:	215590299			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 2
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.291314
Total Depth m:	1.6			Longitude DD:	-75.937552
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426482
Drill Method:	Power auger			Northing:	5015740
Orig Ground Elev m:	104			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	104				
Concession:					
Location D:					
Survey D:					
Comments:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	6561854			Mat Consistency:	Loose
Top Depth:	.3			Material Moisture:	
Bottom Depth:	1.6			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Clay			Geologic Period:	
Material 4:	Gravel			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	LOOSE LIGHT BROWN SILTY SAND TRACE TO SOME CLAY TRACE GRAVEL BOULDER ENCOUNTERED AT 600mm **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	6561853			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:	250mm DARK BROWN ORGANIC SANDY SILTY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				
15	1 of 1	NNW/187.4	101.9 / -2.00	ON	BORE
Borehole ID:	848680			Inclin FLG:	No
OGF ID:	215590300			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 2
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.291915
Total Depth m:	1.6			Longitude DD:	-75.936631
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426555
Drill Method:	Power auger			Northing:	5015806
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:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	6561855			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 SILTY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Geology Stratum ID: 6561856 Top Depth: .2 Bottom Depth: 1.6 Material Color: Grey-Brown Material 1: Clay Material 2: Silt Material 3: Sand Material 4: Gsc Material Description: Stratum Description: FIRM GREYISH BROWN SILTY CLAY TRACE SAND **Note: Many records provided by the department have a truncated [Stratum Description] field.					
16	1 of 2	ESE/248.1	104.9 / 1.00	Mat Consistency: Firm Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen: 2325483 Ontario Ltd. 195 Huntmar Dr 2499 Palladium Drive, Stittsville Ottawa ON K0A 1B0	ECA
Approval No: 6945-BSTQC8 Approval Date: 2020-09-21 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: 2325483 Ontario Ltd. Address: 195 Huntmar Dr 2499 Palladium Drive, Stittsville Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0119-BS9RAR-14.pdf PDF Site Location:					
16	2 of 2	ESE/248.1	104.9 / 1.00	2325483 Ontario Ltd. 195 Huntmar Drive Ottawa, ON K2S 1B9 Canada ON	PTTW
EBR Registry No: 019-0577 Ministry Ref No: 6662-BFYSKQ Notice Type: Instrument Section: Section 34 Notice Stage: Decision Act 1: Ontario Water Resources Act, R.S.O. 1990 Act 2: Ontario Water Resources Act Site Location Map: 45.294619,-75.927687 Instrument Type: Permit to take water Off Instrument Name: Permit to Take Water (OWRA s. 34) Posted By: Ministry of the Environment, Conservation and Parks Company Name: Site Address: 195 Huntmar Drive Ottawa, ON K2S 1B9 Canada Location Other: Proponent Name: 2325483 Ontario Ltd. Proponent Address: 9094 Cavanagh Road Ashton, ON K0A 1B0 Canada Comment Period: September 18, 2019 - November 2, 2019 (45 days) Closed URL: https://ero.ontario.ca/notice/019-0577 Summary: Site Location Details: Lot 3, Concession 1 Township of Huntley					
17	1 of 1	ESE/252.5	104.9 / 1.00	THOMAS CAVANAGH CONSTRUCTION LIMITED	SPL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
OTTAWA ON					
Ref No:	1-3GX2E5			Municipality No:	
Year:				Nature of Damage:	
Incident Dt:				Discharger Report:	
Dt MOE Arvl on Scn:				Material Group:	
MOE Reported Dt:	5/19/2023 12:35:27 PM			Impact to Health:	
Dt Document Closed:	5/19/2023 3:38:33 PM			Agency Involved:	
Site No:					
MOE Response:	Desktop Response				
Site County/District:					
Site Geo Ref Meth:					
Site District Office:	Ottawa District Office				
Nearest Watercourse:					
Site Name:					
Site Address:					
Site Region:					
Site Municipality:	OTTAWA				
Site Lot:					
Site Conc:					
Site Geo Ref Accu:					
Site Map Datum:					
Northing:					
Easting:					
Entity Operating Name:					
Client Name:	THOMAS CAVANAGH CONSTRUCTION LIMITED				
Client Type:	Private Business				
Source Type:	Container/Drum/Tote				
Incident Cause:					
Incident Preceding Spill:	Other (specify)				
Incident Reason:	Unknown				
Incident Summary:	Thomas Cavanagh Construction: <20L of pigment curing compound - cleaned				
Environment Impact:					
Health Env Consequence:					
Nature of Impact:					
Contaminant Qty:	0 other - see notes				
Contaminant Qty 1:					
Contaminant Unit:					
Contaminant Code:					
Contaminant Name:	PIGMENT (N.O.S.)				
Contaminant Limit 1:					
Contam Limit Freq 1:					
Contaminant UN No 1:					
Receiving Medium:	Land				
Activity Preceding Spill:	Construction or repair				
Property 2nd Watershed:	02K Central Ottawa River				
Property Tertiary Watershed:	02KF Mississippi River - Central Ottawa River				
Sector Type:	RESIDENTIAL BUILDING CONSTRUCTION				
SAC Action Class:					
Call Report Locatn Geodata:	{"integration_ids":["PR00004264303"],"wkts":["POINT (-75.9315400000 45.2880100000)","creation_date":"2023-05-19"}				
Time Reported:					
System Facility Address:					
Source Sector Type:					
Conservtn Auth Name:					
Primary Watershed:					
Quaternary Watershed:					
Offsite Impacts:					
Waterbody Impacted:					
18	1 of 1	N/291.1	100.9 / -3.00	ON	BORE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Borehole ID:	848682			Inclin FLG:	No
OGF ID:	215590302			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 2
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.293427
Total Depth m:	1.6			Longitude DD:	-75.935674
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426632
Drill Method:	Power auger			Northing:	5015973
Orig Ground Elev m:	102			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	102				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	6561860			Mat Consistency:	Firm
Top Depth:	.2			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:					
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:	6561859			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 SILTY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				

19	1 of 1	NW/298.7	100.9 / -3.00	ON	BORE
Borehole ID:	848678			Inclin FLG:	No
OGF ID:	215590298			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 2
Primary Water Use:				Township:	HUNTLEY
Sec. Water Use:				Latitude DD:	45.292089
Total Depth m:	1.6			Longitude DD:	-75.938508
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426408
Drill Method:	Power auger			Northing:	5015827
Orig Ground Elev m:	103			Location Accuracy:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elev Reliabil Note:				Accuracy:	Within 10 metres
DEM Ground Elev m:	102				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	6561852			Mat Consistency:	Compact
Top Depth:	1			Material Moisture:	
Bottom Depth:	1.6			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Till			Geologic Formation:	
Material 2:	Sand			Geologic Group:	
Material 3:	Silt			Geologic Period:	
Material 4:	Gravel			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	COMPACT BROWN SILTY SAND AND GRAVEL OCC COBBLES TILL **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	6561850			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:	250mm DARK BROWN, ORGANIC SANDY SILTY CLAY ROOTMAT **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	6561851			Mat Consistency:	Loose
Top Depth:	.3			Material Moisture:	
Bottom Depth:	1			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:	Clay			Geologic Period:	
Material 4:	Organic			Depositional Gen:	
Gsc Material Description:					
Stratum Description:	LOOSE TO COMPACT LIGHT BROWN SILTY SAND SOME CLAY TRACE ORGANICS **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Unplottable Summary

Total: **16** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 2 Con 2	West Carleton ON	
CA	Turpin Pontiac Buick Limited	Part of Front Half Lot 2, Concession 1, Huntley Township	Ottawa ON	
CA	Turpin Saturn SAAB Limited	Part of Front Half Lot 2, Concession 1, Huntley Township	Ottawa ON	
CA	Capital Two Investments Limited	Part of Front Half Lot 2, Concession 1, Huntley Township	Ottawa ON	
CA	Vik One Holdings Ltd.	Part of Front Half Lot 2, Concession 1, Huntley Township	Ottawa ON	
CA	BASUTA CORPORATION	PALLADIUM DR.,PT.LOT 1/C-2,SWM	KANATA CITY ON	
CA	PALLADIUM CORPORATION	PT.LOT 2/CON.1,PALLADIUM DR.	KANATA CITY ON	
CA	PALLADIUM CORPORATION	PALLADIUM DR.,PT.LOT 2/CON.2	KANATA CITY ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
CA	Frank Nighbor Place	Part of Lot 2, Concession 1	Kanata ON	
CA	Frank Nighbour Place	Part of Lot 2, Concession 1	Kanata ON	
CA	Frank Nighbor Place	Part of Lot 2, Concession 1	Kanata ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
GEN	Palladium Medical Clinic	08 Palladium drive	KANATA ON	K2V 1A1
WWIS		lot 1 con 1	ON	

Unplottable Report

Site: *Lot 2 Con 2 West Carleton ON* **Database:** [AAGR](#)

Type: Pit
Region/County: Ottawa-Carleton
Township: West Carleton
Concession: 2
Lot: 2
Size (ha): 12.5
Landuse:
Comments: site used as parking lot, lots of fill brought on site, landowner may sell for development

Site: *Turpin Pontiac Buick Limited
Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON* **Database:** [CA](#)

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

Site: *Turpin Saturn SAAB Limited
Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON* **Database:** [CA](#)

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

Site: *Capital Two Investments Limited
Part of Front Half Lot 2, Concession 1, Huntley Township Ottawa ON* **Database:** [CA](#)

Certificate #: 3546-6VJSN7
Application Year: 2006
Issue Date: 11/21/2006
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:

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

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

Database:
CA

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

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

Database:
CA

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

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

Database:
CA

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

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

Database:
CA

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

Site: *Part of Lot 1, Concession 1 Kanata ON*

Database:
[CA](#)

Certificate #: 6046-4FFRDH
Application Year: 01
Issue Date: 4/9/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Nortel Networks Optical Components Corporation
Client Address: 500 Palladium Drive
Client City: Kanata
Client Postal Code: K2V 1C2
Project Description: Administrative Name Change
Contaminants:
Emission Control:

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

Database:
[CA](#)

Certificate #: 0510-4RHLJZ
Application Year: 00
Issue Date: 11/30/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: 764703 Ontario Inc.
Client Address: 200 Catherine Street, Suite 600
Client City: Ottawa
Client Postal Code: K2P 2K9
Project Description: This is an application for a Municipal and Private Water Certificate of Approval to construct a watermain.
Contaminants:
Emission Control:

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

Database:
[CA](#)

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

Emission Control:

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

Database:
CA

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

Site: Part of Lot 1, Concession 1 Kanata ON

Database:
CA

Certificate #: 6046-4FFRDH
Application Year: 00
Issue Date: 1/17/00
Approval Type: Municipal & Private sewage
Status: Amended
Application Type: New Certificate of Approval
Client Name: Nortel Networks Corporation
Client Address: 2 Constellation Crescent
Client City: Nepean
Client Postal Code: K2G 5J9
Project Description: Stormwater Management Facility - Nortel Palladium One
Contaminants:
Emission Control:

Site: Part of Lot 1, Concession 1 Kanata ON

Database:
CA

Certificate #: 6046-4FFRDH
Application Year: 01
Issue Date: 2/1/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Nortel Networks Corporation
Client Address: 2 Constellation Crescent
Client City: Nepean
Client Postal Code: K2G 5J9
Project Description: This proposal is for modifications to the existing storm sewer and stormwater management system to accommodate an additional 1.0 hectares parking lot. Runoff from this new area will be attenuated by underground storage. No increase in the site release rate is proposed. Modifications to the wet pond outlet structure are proposed to increase the permanent pond volume.
Contaminants:
Emission Control:

Site: Palladium Medical Clinic
08 Palladium drive KANATA ON K2V 1A1

Database:
GEN

Generator No.: ON001052686
Years Reported: 25,24,23

Alternate Locations

Generator No: ON001052686
Generator Nm: PALLADIUM MEDICAL CLINIC
Site Addr: 08 PALLADIUM DRIVE
City: KANATA
Reported Year(s): 25,24,23

2025 Generator Info

Waste Reported

Waste Class: 312 - PATHOLOGICAL WASTES
Reported Years: 24,23

2025 Waste Info

Waste Code:	312	Waste Char Cd:	P
Waste Description:	Pathological Wastes	Waste Char Desc:	Pathological

2024 Generator Info

NAICS Code: 621110
NAICS Description: Offices of Physicians
Contamin'd Fac: No
MHSW Facility: No

2024 Manifest Summary

Waste Code:	312	Waste Char Code:	P
Waste Description:	Pathological Wastes	Waste Char Desc:	Pathological
Qty Received (kg):	12.1	Waste Count:	3

2023 Generator Info

NAICS Code: 621110
NAICS Description: Offices of Physicians
Contamin'd Fac: No
MHSW Facility: No

2023 Manifest Summary

Waste Code:	312	Waste Char Code:	P
Waste Description:	Pathological Wastes	Waste Char Desc:	Pathological
Qty Received (kg):	30.83	Waste Count:	3
Waste Code:	312	Waste Char Code:	P
Waste Description:	Pathological Wastes	Waste Char Desc:	Pathological
Qty Received (kg):	14.66	Waste Count:	1

Site:

lot 1 con 1 ON

Database:
[WWIS](#)

Well ID:	1520987	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:		Data Src:	1
Final Well Status:	Test Hole	Date Received:	11/27/1986
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	NA	Contractor:	3644

Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: STITTSVILLE VILLAGE
Site Info:

Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 001
Concession: 01
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042828
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 08/13/1986
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931046487
Layer: 2
Color: 7
General Color: RED
Material 1: 26
Material 1 Desc: ROCK
Material 2: 71
Material 2 Desc: FRACTURED
Material 3:
Material 3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 22.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931046486
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931046488
Layer: 3
Color: 7
General Color: RED
Material 1: 21
Material 1 Desc: GRANITE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 22.0
Formation End Depth: 145.0
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961520987
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591398
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074752
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 31.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930074753
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 145.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991520987
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:

Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 6
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933478412
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 50.0
Water Found Depth UOM: ft

Water Details

Water ID: 933478413
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 140.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Oct 2025

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-May 2025

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-Apr 30, 2025

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 2024

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: Oct 2023

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-Apr 30, 2025

Compressed Natural Gas Stations:Private [CNG](#)

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

Government Publication Date: Dec 2012 - Feb 2026

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-Aug 2025

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 - Mar 31, 2026

Drill Hole Database:

Provincial

[DRL](#)

The Ontario Drill Hole Database (ODHD) is offered by the Province of Ontario's Ministry of Mines. The dataset contains information for over 164,000 percussion, overburden, sonic and diamond-drill holes. The presence of assay results with cutoff values for gold, silver, copper, zinc, lead, nickel and platinum group elements is noted. Drill hole data are compiled from assessment files that have been submitted to the ministry in accordance with the Ontario Mining Act (OMA). Source assessment file numbers are captured for cross reference with the Ontario Assessment File Database (OAFD). 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. 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 - Jul 2025

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: Oct 2023

Environmental Activity and Sector Registry:

Provincial

[EASR](#)

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

Government Publication Date: Oct 2011 - Feb 28, 2026

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 - Mar 31, 2026

Environmental Compliance Approval:

Provincial

[ECA](#)

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

Government Publication Date: Oct 2011 - Feb 28, 2026

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-Feb 28, 2026

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 ERIIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Apr 30, 2022

Environmental Offenders Registry:

Federal

EOR

The Environmental Offenders Registry, enforced by Environment and Climate Change Canada and Parks Canada, tracks corporations convicted under specific federal environmental laws. The registry includes corporate convictions resulting from court proceedings. Court prosecutions are one of several enforcement measures used when violations or potential violations are detected. Other measures like tickets, warning letters, or compliance orders may also be employed to restore compliance. Although not affected by the Environmental Enforcement Act, convictions obtained by Environment and Climate Change Canada under the Species at Risk Act and the Pollution Prevention Provisions of the Fisheries Act are also included.

Government Publication Date: Feb 28, 2026

Environmental Penalty Annual Report:

Provincial

EPAR

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2025

Excess Soil Registry:

Provincial

ESNR

The Excess Soil Registry is made available by the Resource Productivity and Recovery Authority (RPRA). Excess soil is soil dug up mainly during construction and excavation activities that must be removed from the development site because it cannot or will not be reused. The Minister of the Environment, Conservation and Parks directed the RPRA to establish and maintain the Excess Soil Registry, enabling regulated parties to comply with registration and filing notice requirements, the ministry to access data, and the public to view information from those filings. From January 1, 2023, construction and development project leaders, as well as operators and owners of soil Reuse Sites, and Residential Development Soil Depot sites, must file notices detailing how excess soil is reused and disposed of in compliance with Ontario's Excess Soil Regulation.

Government Publication Date: Oct 31, 2025

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: Oct 2023

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-Feb 2026

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

Fisheries & Oceans Canada (DFO) maintains an inventory of aboveground & underground fuel storage tanks located on DFO property or controlled by the DFO. The DFO provided 2019 data. Environment and Climate Change Canada (ECCC) provided the 2024 data on owned and regulated storage tank systems, as required from the Canadian Environmental Protection Act (CEPA) and its associated regulations. The ECCC might have information pertaining to non-regulated tanks or ones which are not owned and operated by DFO.

Government Publication Date: 1964-Mar 2025

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: 31 Mar, 2025

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: Oct 2023

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. As of January 1, 2023, businesses and institutions subject to the amended Reg. 347: General - Waste Management are required to report their activities and pay fees through Resource Productivity & Recovery Authority (RPRA) online Hazardous Waste Program Registry (HWPR) rather than the Hazardous Waste Information Network (HWIN) system previously operated by the Ministry of the Environment, Conservation and Parks (MECP). 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-Sep 30, 2025

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-Jan 2026

Historical Business Activity Risk:

Federal

HBAR

Proprietary list of sites identified as potentially having engaged in business activity that poses a higher-than-normal risk of contamination. Records originate from historical city directories, and are included in this list based on broad business categories Potentially Hazardous Chemical Users and Fuel and Automotive, including but not limited to Dry Cleaners and Fuel Stations, Garages, etc. Inclusion in this list does not indicate that there is or ever has been contamination; rather, sites are included in this list due to their potential for having engaged in a business activity presenting an elevated risk of contamination. The list was compiled from various city directories including BC Directories, Hendersons, Mights, Sun Directories, Vernons, and Wrights; spanning roughly 1920s through 1990 depending on information available by city.

This list is currently limited to sites as reported in the following provinces: Alberta, British Columbia, Saskatchewan, Manitoba, New Brunswick, Nova Scotia, Ontario, and Quebec.

Government Publication Date: 1920s - 1990

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: Oct 2023

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 31, 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-Jan 2026

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 Conservation and Parks (MECP) 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. MECP publicly releases the Environmental Compliance Report (ECR) on the Ontario Data Catalogue. In Ontario, all facilities with regulated wastewater discharges or air emissions under the Ontario Water Resources Act and the Environmental Protection Act must monitor and report any cases where approved operating limits have been exceeded.

Government Publication Date: Dec 31, 2024

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-Nov 2023

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-Feb 28, 2026

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*

Notice of Contamination List:

Federal

NOC

This dataset contains Notice of Contamination (NOC) submissions reported to the Canada Energy Regulator (CER), including the most recent annual update information where applicable. Regulated companies are required to submit an NOC when contamination is identified or encountered during any phase of a facility's lifecycle and confirmed through analytical sampling, or when contamination resulting from an incident cannot be remediated within 12 weeks of being reported to the CER. Blank values in the Annual Update Year and annual update fields indicate that the site has achieved remediation closure, has been identified as third-party contamination, or was reported recently and does not yet require an annual update.

Government Publication Date: Nov, 2025

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

NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Feb 2024

National Pollutant Release Inventory - Historic:

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. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

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

Government Publication Date: 1988-Feb 28, 2025

Ontario Oil and Gas Wells:

Provincial

OOGW

In 1998, the Ministry of Natural Resources (MNR) handed over to the Ontario Oil, Gas and Salt Resources (OGSR) 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 ERS database includes well owner/operator, location, permit issue date, and well cap date, license number, 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 provided for each well record.

Government Publication Date: 1800-May 2025

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 - Mar 31, 2026

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 - Feb 28, 2026

Ontario PFAS Spills:

Provincial

PFAS

This specific list of spills includes those incidents where one or more of the listed contaminants are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA), is originally sourced from the Ministry of the Environment, Conservation and Parks spills related data. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988- Feb 2026

NPRI Reporters - PFAS Substances:

Federal

PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Feb 2024**Potential PFAS Handlers from NPRI:**

Federal

PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Feb 2024**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 is 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**Potential PFAS Handlers from EASR:**

Provincial

PPHA

The Ontario Environmental Activity and Sector Registry (EASR), described in Ontario Regulation 245/11, allows businesses with less complex operations - and hence not requiring an Environmental Compliance Approval - to register their activities with the Ontario Ministry of the Environment, Conservation and Parks (MECP). This list of potential PFAS handlers includes those EASR facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used.

Government Publication Date: Feb 28, 2026**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 - Mar 31, 2026**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, 1992-2021**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). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004 - 31 Mar, 2026

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-Apr 30, 2025

Scott's Manufacturing Directories:

Private

SCT

Scott's Directories is a data bank containing information on various 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, applicable NAICS Codes, and product categories are included in this database.

Government Publication Date: 1992-Mar 2011; Feb 2025

Ontario Spills:

Provincial

SPL

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

Government Publication Date: 1988- Feb 2026

Wastewater Discharger Registration Database:

Provincial

SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of 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.

Government Publication Date: 1990-Dec 31, 2024

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 2024

Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

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

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 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 - Feb 28, 2026

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Waste Management Site:

Provincial

[WMS](#)

This data contains Waste Disposal Site types collected by the Ministry of Natural Resource (MNR). The new data class brings over data from the Waste Management Information System (WMIS), which is an MS Access based database used by MNR to track Waste Management Sites. This was married with the spatial data from Waste Disposal Sites where possible. Different Waste Disposal Site types collected by the Ministry of Natural Resources include: compost disposal, hazardous waste disposal, household waste disposal, industrial waste disposal, septic drying bed, septic field, sewage disposal, tile bed, and transfer station. The data is currently under development, meaning the data is currently in the process of being created by the MNR.

Government Publication Date: April 30, 2025

Water Well Information System:

Provincial

[WWIS](#)

This database consists of information submitted by well contractors detailing 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. The database is provided by the Ontario Ministry of Environment, Conservation and Parks.

Government Publication Date: Jul 31, 2025

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 E

TSSA Correspondance

Jessica Arthurs

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: June 5, 2026 3:28 PM
To: Jessica Arthurs
Subject: RE: 240720 - TSSA Records Request

Hello ,

NO RECORDS FOUND IN CURRENT DATABASE:

- We confirm that there are NO **fuels records** in our database 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 go to the [TSSA Client Portal](#) to complete an Application for Release of Public Information.

Please refer to [Training \(tssa.org\)](#) for instructions on how to use the portal. Please refer to [How to Submit a Public Information Request \(tssa.org\)](#) for instructions.

The associated fee must be paid via credit card (Visa or MasterCard).

Once all steps have been successfully completed you will receive your payment receipt via email.

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released. The requestor assumes all risk in using or relying on the information provided.

If you have any questions or concerns, please do not hesitate to contact our Public Information Release team at publicinformationsservices@tssa.org.

Kind regards,



Slavka Zahrebelny | Public Information & Records Agent

Public Information
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1 416-734-3585 | Fax: +1 416-734-6242 | E-Mail: szahrebelny@tssa.org
www.tssa.org



Winner of 2025 5-Star Safety Cultures Award

From: Jessica Arthurs <jarthurs@lrl.ca>
Sent: June 5, 2026 3:15 PM

To: Public Information Services <publicinformationservices@tssa.org>

Subject: 240720 - TSSA Records Request

 External Email >

[⚠ CAUTION]: THIS EMAIL ORIGINATED OUTSIDE THE ORGANISATION.
DO NOT CLICK LINKS OR OPEN ATTACHMENTS UNLESS YOU KNOW THE SENDER AND ARE EXPECTING THIS EMAIL. PLEASE
REPORT WITH THE PHISH REPORT BUTTON IF SUSPICIONS.

Good afternoon,

Does the TSSA have any records for the following properties located in the City of Ottawa?

- 2775 Palladium Drive
- 2785 Palladium Drive
- 2765 Palladium Drive
- 2700 Palladium Drive
- 2500 Palladium Drive
- 425 Culdaff Road

Thank you

Jessica Arthurs

Director of Environmental Services



LRL ENGINEERING | INGÉNIERIE

Head Office – 5430 Canotek Rd., Ottawa, ON

T +1 613-842-3434 **C** +1 613-978-0658 **E** jarthurs@lrl.ca

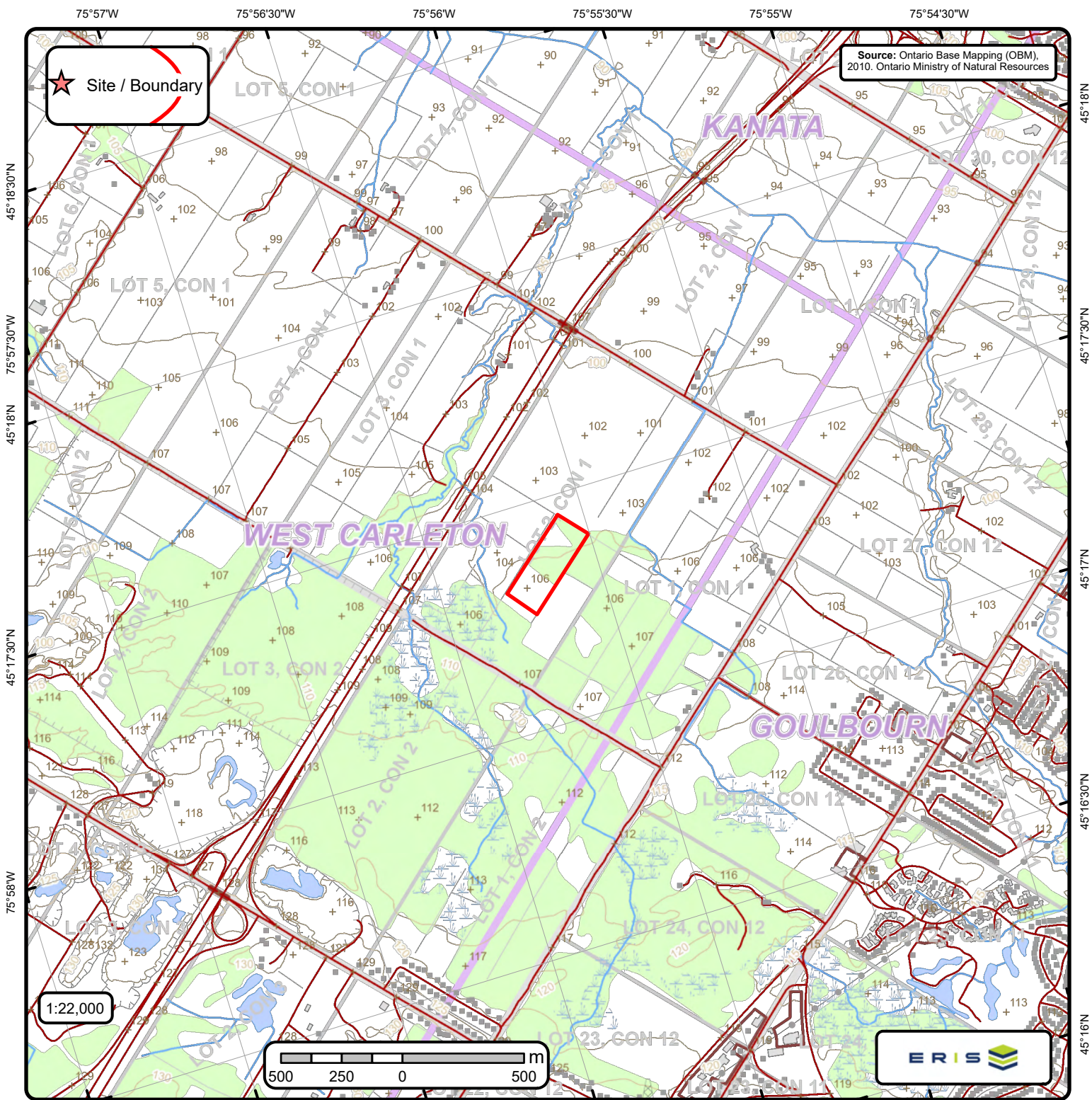
Ottawa | Pembroke | Moncton

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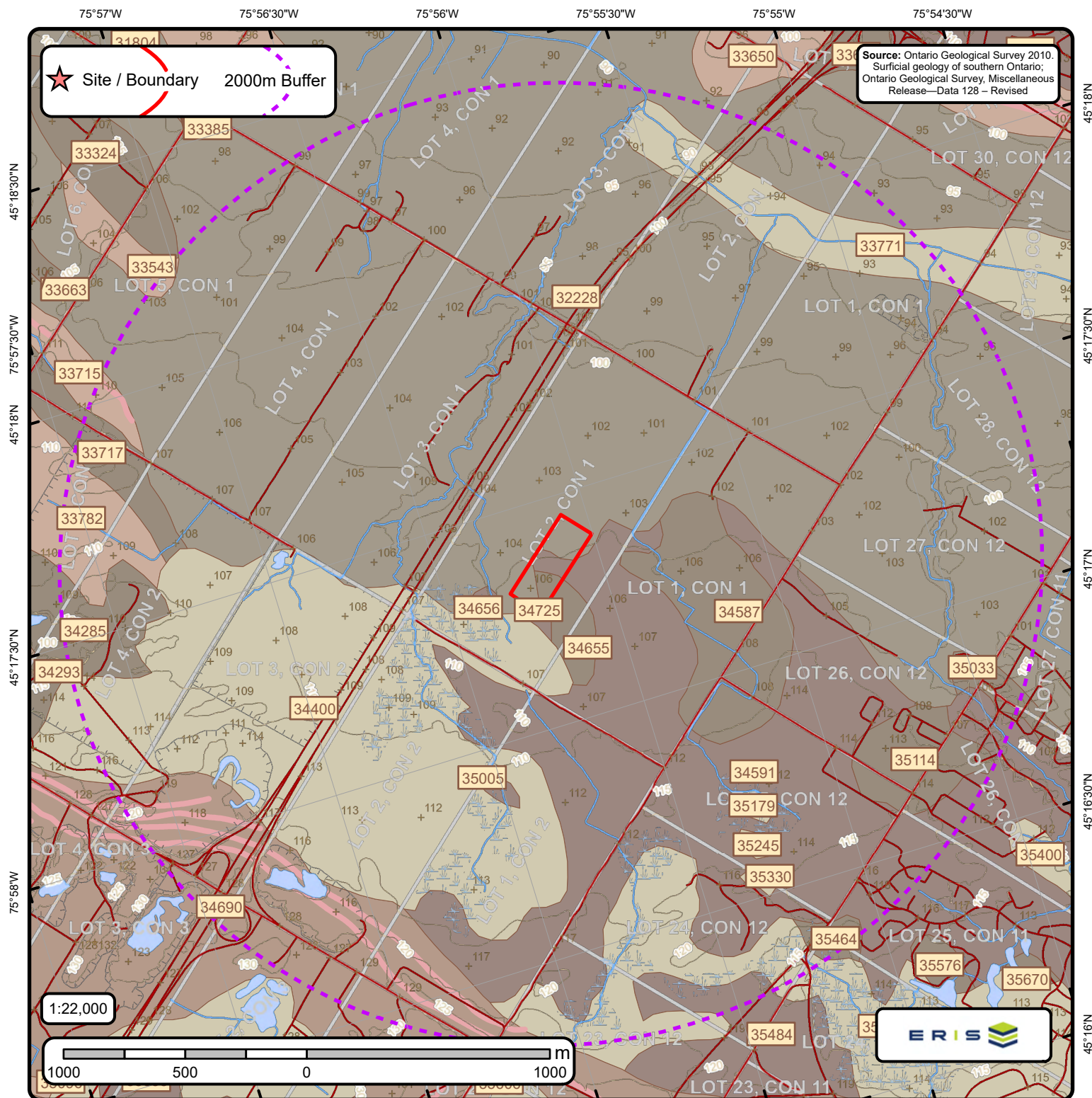
APPENDIX F

Various Mapping

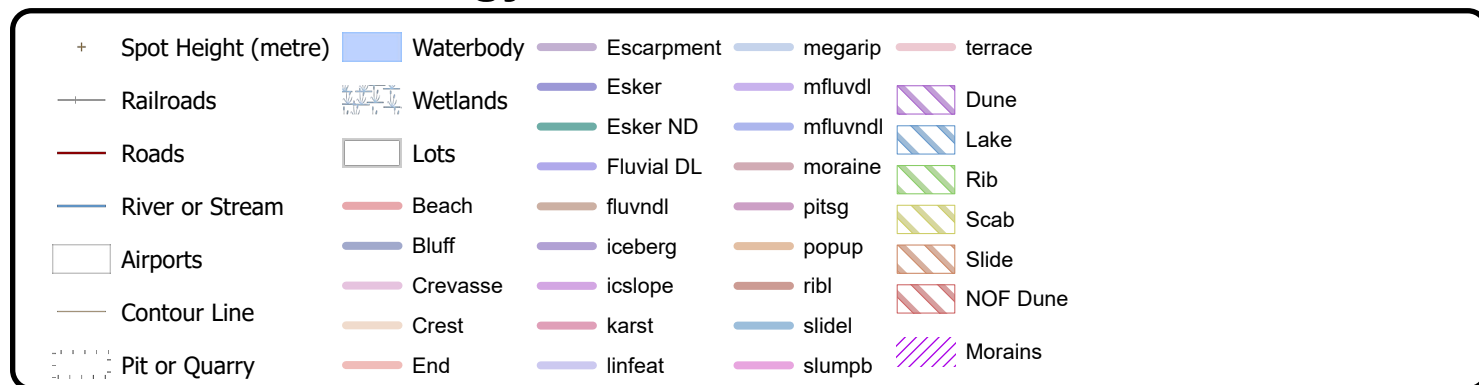


Ontario Base Mapping (OBM) Data
 Order No. 26042801310

+	Spot Height (metre)	—	Transportation Structure	—	Contour Line	■	Conservation Authority
■	Building Point	—	Utility Line	—	Pit or Quarry	■	Wooded Area
⚙	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Land Ownership	■	Nature Reserve
- - -	Trail	■	Building to Scale	■	Municipality		



The Surficial Geology of Southern Ontario Order No. 26042801310



Surface Geology Report

Surface Geology units found within 2000 m of
Palladium Drive

Page 1
Order No.
26042801310



ID: 32228 | Unit Name: Offshore marine deposits |

Deposit Type Code: 3 | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform a

ID: 33324 | Unit Name: Till |

Deposit Type Code: 1b | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (approx. 198 m (650 ft) a.s.l.) it is

ID: 33543 | Unit Name: Nearshore sediments |

Deposit Type Code: 5b | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Fine-to medium-grained sand, calcareous and commonly fossiliferous; nearshore sand generally occurs as a sheet or as bars or spits associated with glaciofluvial materials.

ID: 33715 | Unit Name: Nearshore sediments |

Deposit Type Code: 5a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** bouldery | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** littoral/foreshore | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel, sand and boulders; beaches commonly fossiliferous; nature of sediment controlled by underlying material (gravel, sand and boulders where developed from till and glaciofluvial deposits; slabs and shingles where developed from sedimentary bedrock).

ID: 33717 | Unit Name: Till |

Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

Surface Geology Report

Surface Geology units found within 2000 m of
Palladium Drive

Page 2
Order No.
26042801310



ID: 33771 | Unit Name: Organic deposits |

Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

ID: 33782 | Unit Name: Nearshore sediments |

Deposit Type Code: 5b | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Fine-to medium-grained sand, calcareous and commonly fossiliferous; nearshore sand generally occurs as a sheet or as bars or spits associated with glaciofluvial materials.

ID: 34285 | Unit Name: Till |

Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 34400 | Unit Name: Organic deposits |

Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

ID: 34587 | Unit Name: Till |

Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

Surface Geology Report

Surface Geology units found within 2000 m of
Palladium Drive

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ID: 34591 | Unit Name: Bedrock |

Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 34655 | Unit Name: Till |

Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium |
Material Description: Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 34656 | Unit Name: Bedrock |

Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 34690 | Unit Name: Glaciofluvial deposits |

Deposit Type Code: 2 | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: sand, gravel | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciofluvial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel and sand, poorly to well sorted and bedded, mainly coarse-to medium-grained with numerous cobbles, boulders and lenses of till

ID: 34725 | Unit Name: Bedrock |

Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

Surface Geology Report

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ID: 35005 | Unit Name: Bedrock |

Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 35033 | Unit Name: Till |

Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 35114 | Unit Name: Till |

Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 35179 | Unit Name: Organic deposits |

Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

ID: 35227 | Unit Name: Organic deposits |

Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

Surface Geology Report

Surface Geology units found within 2000 m of
Palladium Drive

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ID: 35245 | Unit Name: Organic deposits |

Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

ID: 35330 | Unit Name: Organic deposits |

Deposit Type Code: 7 | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** organic deposits | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** wetland | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

ID: 35464 | Unit Name: Till |

Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 35484 | Unit Name: Bedrock |

Deposit Type Code: Pa | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ERISurfaceGeologyMetadata

Ontario Geological Survey 2010. Surficial geology of southern Ontario;
Ontario Geological Survey, Miscellaneous Release - Data 128 - Revised.

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ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier - This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

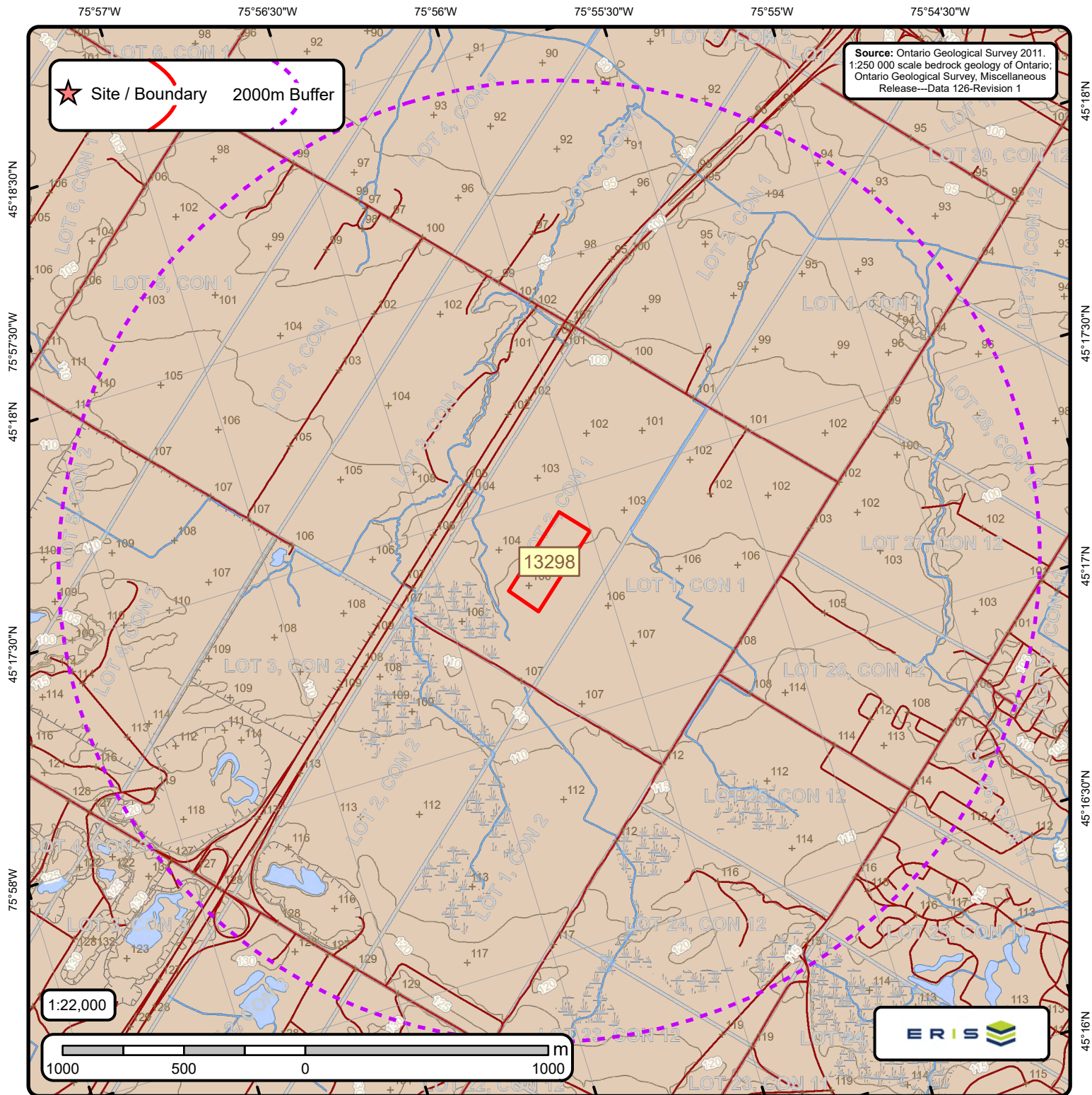
Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.



Bedrock Geology of Ontario

Order No. 26042801310

— Railroads	— FOLD, ANTIFORM, INTERPRETED, UNKNOWN GENERATION	— Matachewan mafic dike
— Roads	— FOLD, SYNCLINE, INTERPRETED, UNKNOWN GENERATION	— Mine Centre mafic dike
— River or Stream	— FOLD, SYNCLINE, OBSERVED, UNKNOWN GENERATION	— Molson mafic dike
— Airports	— FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION	— North Channel mafic dike
— Contour Line	— Abitibi mafic dike	— Pickle Crow mafic dike (Molson swarm) normal
— Pit or Quarry	— Biscotasing mafic dike	— Pickle Crow mafic dike (Molson swarm) reverse
— Waterbody	— Empey Lake mafic dike	— Rideau mafic dike
— Wetlands	— Felsic to intermediate intrusive rocks	— Sudbury mafic dike
— Lots	— Fort Frances mafic dike	— Ultramafic, gabbroic and granophyric intrusions
▲ Kimberlite	— Frontenac mafic dike	— Unsubdivided mafic dike
— FOLD, ANTICLINE, INTERPRETED, UNKNOWN GENERATION	— Grenville mafic dike	— Unsubdivided mafic dike (Keweenaw age)
— FOLD, ANTICLINE, OBSERVED, UNKNOWN GENERATION	— Logan and Nipigon mafic sills	— unknown
— FOLD, ANTICLINE, SYNFORMAL, INTERPRETED, SECOND GENERATION	— Mackenzie mafic dike	— Marble, chert, iron formation, minor metavolcanic rocks
	— Mafic dikes of uncertain age	— CONTACT, GEOPHYSICAL, TREND, INTERPRETED
	— Mafic sills and dikes	— CONTACT, SHARP, TREND, INTERPRETED
	— Marathon mafic dike	— CONTACT, SHARP, TREND, OBSERVED
	— Marathon, Kapuskasing or Biscotasing mafic dike	

Bedrock Geology Report

Bedrock Geology units found within 2000 m of
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ID: 13298 | **Unit Name:** |
Type (All): 54a | **Type (Primary):** 54a | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Limestone, dolostone, shale, arkose, sandstone | **Strata (Primary):** Ottawa Group; Simcoe Group; Shadow Lake Formation | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** MIDDLE ORDOVICIAN (now considered UPPER DEVONIAN) | **Province (Primary):**

ERISBedrockGeologyMetadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126 Revision1

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ID - Unit ID **Unit Name** - Generalized geological unit classification

Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon

Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

Rock Type (Primary) - Rock type or sub-unit description

Status (Primary) - The Stratigraphic unit. Divided into:

Supergroup (two or more groups and lone formations)
Group (two or more formations)
Formation (primary unit of lithostratigraphy)
Member (named lithologic subdivision of a formation)
Bed (named distinctive layer in a member or formation)

Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

ARCHEAN (2.5 Ga to <3.85 Ga)
PROTEROZOIC (0.542 Ga to 2.50 Ga)
PHANEROZOIC (Present to 542.0 Ma)

Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

MESOARCHEAN (2.8 Ga to 3.2 Ga)	MESOPROTEROZOIC (1.0 Ga to 1.6 Ga)
NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga)	EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga)
NEOARCHEAN (2.5 Ga to 2.8 Ga)	NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga)
PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga)	PALEOZOIC (251.0 Ma to 542.0 Ma)
MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga)	MESOZOIC (65.5 Ma to 251.0 Ma)

Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

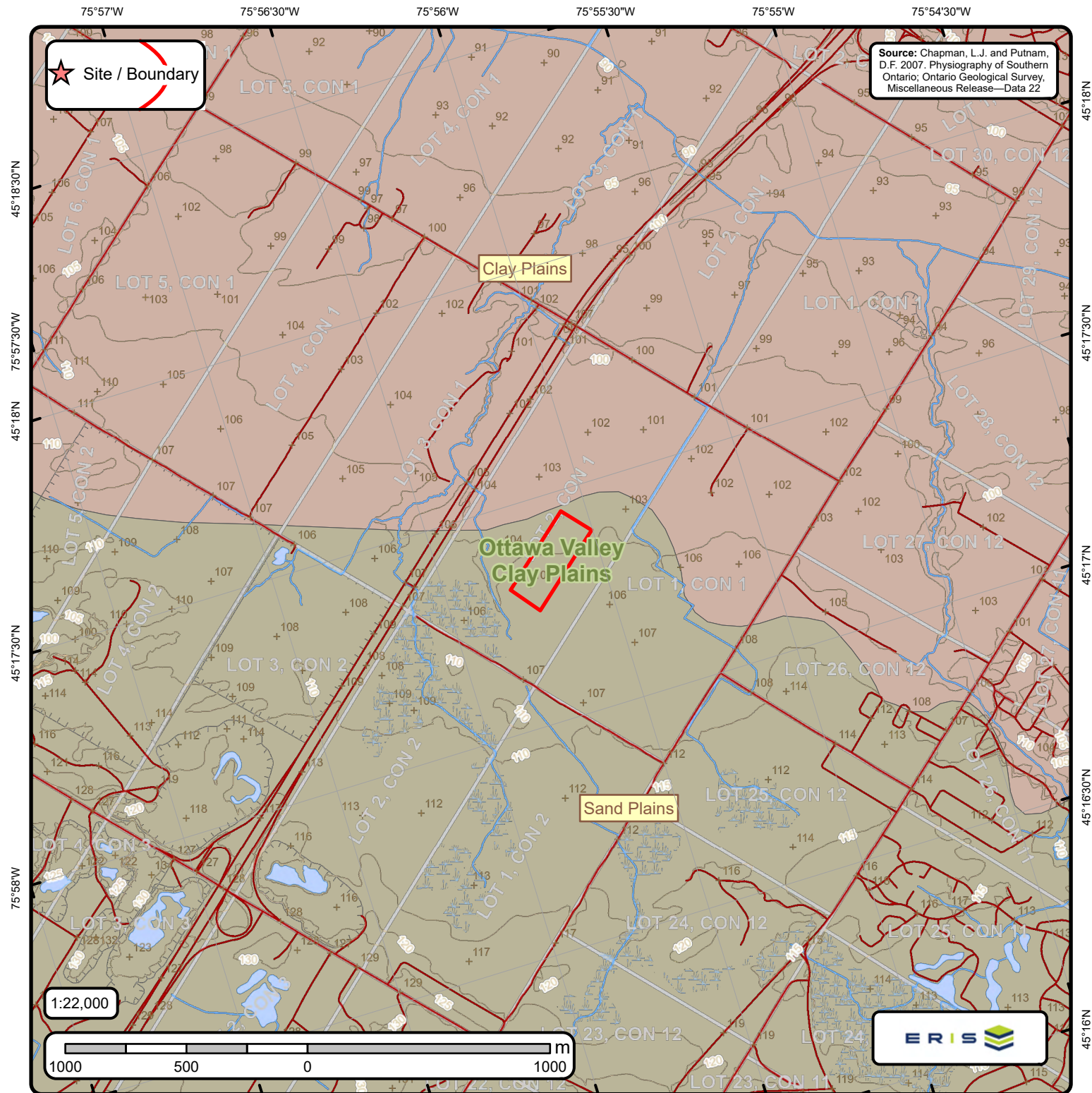
CAMBRIAN (488.3 Ma to 542.0 Ma)
ORDOVICIAN (443.7 Ma to 488.3 Ma)
SILURIAN (416.0 Ma to 443.7 Ma)
DEVONIAN (359.2 Ma to 416.0 Ma)
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
JURASSIC (145.5 Ma to 199.6 Ma)
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)

Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

LOWER ORDOVICIAN	UPPER SILURIAN
MIDDLE ORDOVICIAN	LOWER DEVONIAN
UPPER ORDOVICIAN	MIDDLE DEVONIAN
MIDDLE AND LOWER SILURIAN	UPPER DEVONIAN
UPPER SILURIAN TO LOWER DEVONIAN	LOWER CRETACEOUS AND MIDDLE JURASSIC

Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

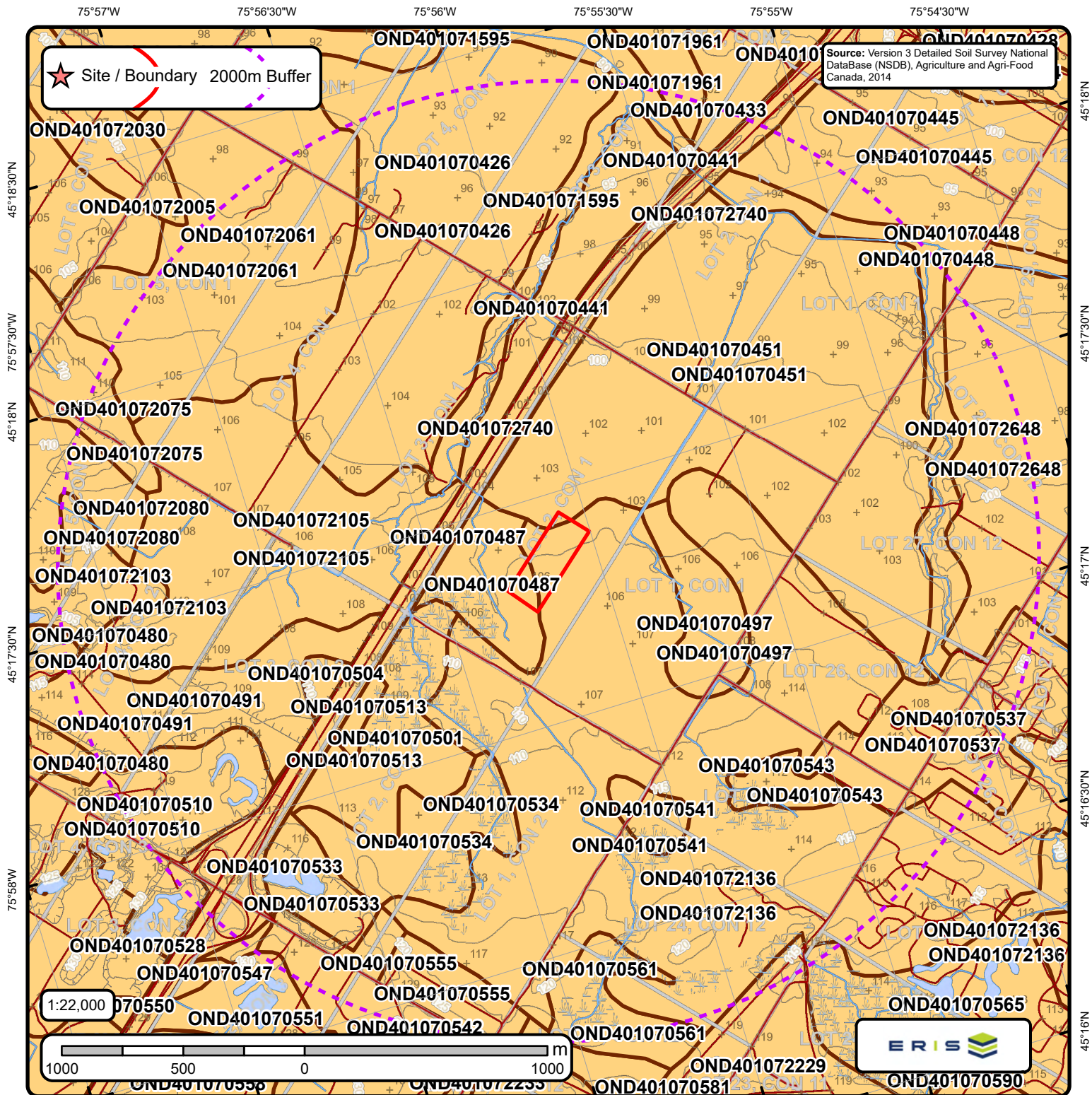
SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE



Physiography of Southern Ontario

Order No. 26042801310

+ Spot Height (metre)	Waterbody	shorecliff	Eskers
Railroads	Wetlands	shorecliff (weakly developed)	Kame Moraines
Roads	Lots	Physiography Regions	Limestone Plains
River or Stream	Boulder Pavement	Bare Rock Ridges And Shallow Till	Peat And Muck
Airports	Dissected Terrain	Beaches	Sand Plains
Contour Line	Mud Flow Scars	Bevelled Till Plains	Shale Plains
Pit or Quarry	Sand Dunes	Clay Plains	Shallow Till And Rock Ridges
	escarpment	Drumlins	Spillways
		Escarpments	Till Moraines
			Till Plains (Drumlinized)
			Till Plains (Undrumlinized)



Detailed Soil Survey (ON Soils)

Order No. 26042801310

Soil Boundaries	Wetlands	OND401070445	OND401070504	OND401070543	OND401072075
Spot Height (metre)	Lots	OND401070448	OND401070510	OND401070551	OND401072080
Railroads	Buffer2	OND401070451	OND401070513	OND401070555	OND401072103
Roads	Project Property	OND401070480	OND401070533	OND401070561	OND401072105
River or Stream	Soil Boundaries	OND401070487	OND401070534	OND401070565	OND401072136
Airports	POLY_ID	OND401070491	OND401070537	OND401071595	OND401072229
Contour Line	OND401070426	OND401070497	OND401070541	OND401071961	OND401072648
Pit or Quarry	OND401070433	OND401070501	OND401070542	OND401072061	OND401072740
Waterbody	OND401070441				

Soils Report

Soil Map Units Found within 2000 m of
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Soil ID: OND401072061

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072075

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONGVI~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of surface stones > 15 cm diameter. | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 59 | **Total Silt(%)** : 30 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 2.3 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 2.565 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 19-35 | **Horizon** : Ap | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 62 | **Total Silt(%)** : 33 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 5.087 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-55 | **Horizon** : Ae | **Layer No** : 3 | **Very Fine Sand(%)** : 21 | **Total Sand(%)** : 63 | **Total Silt(%)** : 32 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 4.441 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-77 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 56 | **Total Silt(%)** : 26 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.856 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 77-92 | **Horizon** : BC | **Layer No** : 5 | **Very Fine Sand(%)** : 20 | **Total Sand(%)** : 61 | **Total Silt(%)** : 28 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.805 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 92-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 22 | **Total Sand(%)** : 65 | **Total Silt(%)** : 30 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 3.082 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072075

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONOKA~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-12 | **Horizon** : Apk | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 70 | **Total Silt(%)** : 22 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 4.0 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 5.409 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-30 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 71 | **Total Silt(%)** : 20 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 3.079 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 30-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 6 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 6.109 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401072080

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072080

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONPPV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 41 | **Total Sand(%)** : 52 | **Total Silt(%)** : 31 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 3.2 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-24 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 38 | **Total Sand(%)** : 53 | **Total Silt(%)** : 39 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.6 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 2.56 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 24-50 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 73 | **Total Silt(%)** : 23 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 5.837 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-54 | **Horizon** : Bmgj | **Layer No** : 4 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 78 | **Total Silt(%)** : 19 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 6.904 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 54-63 | **Horizon** : Bg | **Layer No** : 5 | **Very Fine Sand(%)** : 57 | **Total Sand(%)** : 61 | **Total Silt(%)** : 32 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.989 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 63-86 | **Horizon** : Bg | **Layer No** : 6 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 56 | **Total Silt(%)** : 33 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 1.634 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 86-100 | **Horizon** : Cg | **Layer No** : 7 | **Very Fine Sand(%)** : 32 | **Total Sand(%)** : 37 | **Total Silt(%)** : 47 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 0.0 |

Soil ID: OND401072105

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONOGO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 34 | **Total Sand(%)** : 41 | **Total Silt(%)** : 42 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.832 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-40 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 33 | **Total Sand(%)** : 39 | **Total Silt(%)** : 40 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.547 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-70 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 35 | **Total Silt(%)** : 42 | **Total Clay(%)** : 23 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.454 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-100 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 25 | **Total Sand(%)** : 31 | **Total Silt(%)** : 46 | **Total Clay(%)** : 23 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.324 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401072136

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401072136

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401071961

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

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Soil ID: OND401071961

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBDOC~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 39 | **Total Silt(%)** : 34 | **Total Clay(%)** : 27 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 30 | **Total Silt(%)** : 30 | **Total Clay(%)** : 40 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 30 | **Total Silt(%)** : 30 | **Total Clay(%)** : 40 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070426

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070433

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401070433

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONBIV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-17 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 53 | **Total Silt(%)** : 34 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.052 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 17-33 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 30 | **Total Silt(%)** : 39 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.273 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-62 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 52 | **Total Silt(%)** : 28 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.683 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 62-84 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 45 | **Total Sand(%)** : 62 | **Total Silt(%)** : 26 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 1.597 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 84-100 | **Horizon** : Ckg | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 54 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.194 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072648

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072103

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONMTD~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of surface stones > 15 cm diameter. | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-22 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 47 | **Total Silt(%)** : 39 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 22-35 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 34 | **Total Sand(%)** : 49 | **Total Silt(%)** : 43 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 2.361 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-100 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.46 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401072103

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONLYS~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slope Steepness(%)** : 1.2 | **Slope Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 69 | **Total Silt(%)** : 20 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 2.3 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.066 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-23 | **Horizon** : Ap | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 72 | **Total Silt(%)** : 22 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.797 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 23-35 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 73 | **Total Silt(%)** : 20 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.985 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-100 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 16 | **Total Sand(%)** : 59 | **Total Silt(%)** : 34 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 2.123 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070441

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slope Steepness(%)** : 1.2 | **Slope Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070501

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONVUD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slope Steepness(%)** : 1.2 | **Slope Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 46 | **Total Sand(%)** : 75 | **Total Silt(%)** : 16 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 3.869 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-31 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 82 | **Total Silt(%)** : 15 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.065 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 31-63 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 7.127 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 63-78 | **Horizon** : Bg | **Layer No** : 4 | **Very Fine Sand(%)** : 44 | **Total Sand(%)** : 86 | **Total Silt(%)** : 7 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 3.942 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 78-100 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 39 | **Total Sand(%)** : 93 | **Total Silt(%)** : 4 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.1 | **Saturated Hydraulic Conductivity(cm/h)** : 6.172 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401070501

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070445

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONBIV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-17 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 53 | **Total Silt(%)** : 34 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.052 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 17-33 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 30 | **Total Silt(%)** : 39 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.273 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-62 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 52 | **Total Silt(%)** : 28 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.683 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 62-84 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 45 | **Total Sand(%)** : 62 | **Total Silt(%)** : 26 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 1.597 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 84-100 | **Horizon** : Ckg | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 54 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.194 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070445

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401070448

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070480

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONKRS~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 10 | **Total Sand(%)** : 63 | **Total Silt(%)** : 31 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 3.537 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-32 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 68 | **Total Silt(%)** : 25 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 3.783 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 32-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 92 | **Total Silt(%)** : 7 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 7.817 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070491

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401070491

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONVUD~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 46 | **Total Sand(%)** : 75 | **Total Silt(%)** : 16 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 4.9 | **Saturated Hydraulic Conductivity(cm/h)** : 3.869 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-31 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 82 | **Total Silt(%)** : 15 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.065 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 31-63 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 53 | **Total Sand(%)** : 90 | **Total Silt(%)** : 8 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 7.127 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 63-78 | **Horizon** : Bg | **Layer No** : 4 | **Very Fine Sand(%)** : 44 | **Total Sand(%)** : 86 | **Total Silt(%)** : 7 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 3.942 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 78-100 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 39 | **Total Sand(%)** : 93 | **Total Silt(%)** : 4 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 6.1 | **Saturated Hydraulic Conductivity(cm/h)** : 6.172 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070497

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401070534

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBOK~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 59 | **Total Silt(%)** : 32 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 5.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 18-48 | **Horizon** : Bmgjk | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 84 | **Total Silt(%)** : 12 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 1.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 48-100 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 89 | **Total Silt(%)** : 8 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 4.72 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401070543

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070513

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401070513

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONOKA~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-12 | **Horizon** : Apk | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 70 | **Total Silt(%)** : 22 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 4.0 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 5.409 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-30 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 71 | **Total Silt(%)** : 20 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 3.079 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 30-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 6 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 6.109 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401070555

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401070537

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401072229

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

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Soil ID: OND401070541

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070542

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONKRS~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 10 | **Total Sand(%)** : 63 | **Total Silt(%)** : 31 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 3.537 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-32 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 68 | **Total Silt(%)** : 25 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 3.783 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 32-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 92 | **Total Silt(%)** : 7 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 7.817 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070565

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401070487

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONOGO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 34 | **Total Sand(%)** : 41 | **Total Silt(%)** : 42 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.832 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-40 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 33 | **Total Sand(%)** : 39 | **Total Silt(%)** : 40 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.547 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 40-70 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 35 | **Total Silt(%)** : 42 | **Total Clay(%)** : 23 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.454 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-100 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 25 | **Total Sand(%)** : 31 | **Total Silt(%)** : 46 | **Total Clay(%)** : 23 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.324 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070504

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Very stony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401070504

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONOKA~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-12 | **Horizon** : Apk | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 70 | **Total Silt(%)** : 22 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 4.0 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 5.409 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-30 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 71 | **Total Silt(%)** : 20 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 3.079 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 30-100 | **Horizon** : Ck | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 6 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 6.109 | **Electrical Conductivity(dS/m)** : 0 |

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Soil ID: OND401070533

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401071595

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070451

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

Soils Report

Soil Map Units Found within 2000 m of
Palladium Drive

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Soil ID: OND401070510

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401070561

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401070551

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZOR~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-99 | **Horizon** : Oh | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : 20.0 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 3.455 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 99-149 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 23 | **Total Silt(%)** : 17 | **Total Clay(%)** : 60 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.21 | **Electrical Conductivity(dS/m)** : 0 |

Soils Report

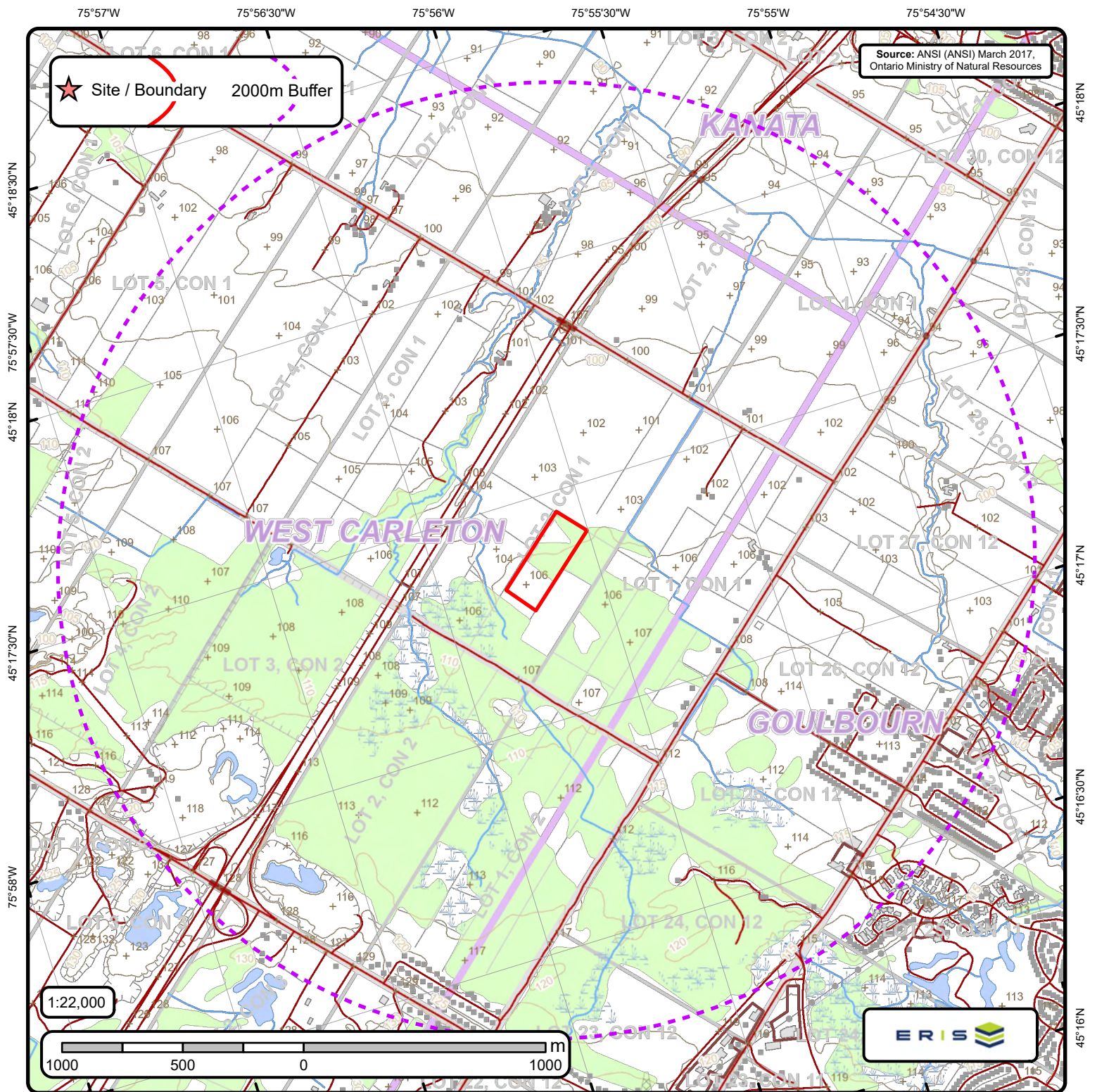
Soil Map Units Found within 2000 m of
Palladium Drive

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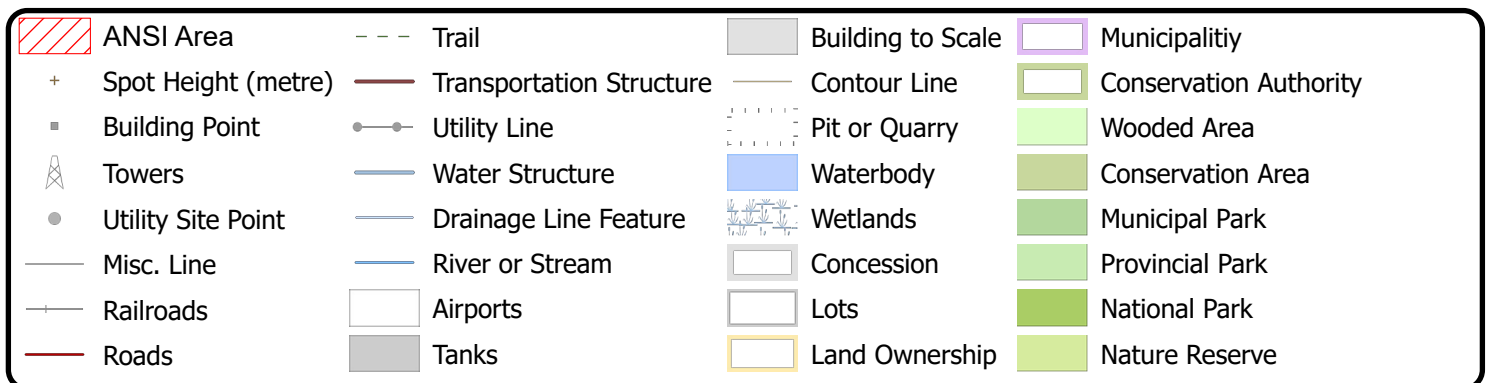


Soil ID: OND401072740

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



Area of Natural & Scientific Interest (ANSI) Order No. 26042801310



ANSI Report

ANSI Units Found within 2000 m of
Palladium Drive

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No ANSI units found within search area.

APPENDIX G

Aerial Photographs



HISTORICAL AERIALS

Project Property: Palladium Drive, Ottawa

Palladium Drive

Stittsville ON

Project No: 240720

Requested By: LRL Associates Ltd.

Order No: 26042801310

Date Completed: May 20, 2026

Aerial Maps included in this report are produced by the sources listed above and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property. ERIS provides no warranty of accuracy or liability. The information contained in this report has been produced using aerial photos listed in above sources by ERIS Information Inc. (in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS'. The maps contained in this report do not purport to be and do not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Scale	Comments
1985	National Air Photo Library	6,000	
1965	National Air Photo Library	6,000	
1955	National Air Photo Library	6,000	
1945	National Air Photo Library	6,000	
1930	Decade Coverage Unavailable	6,000	
1920	Decade Coverage Unavailable	6,000	

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

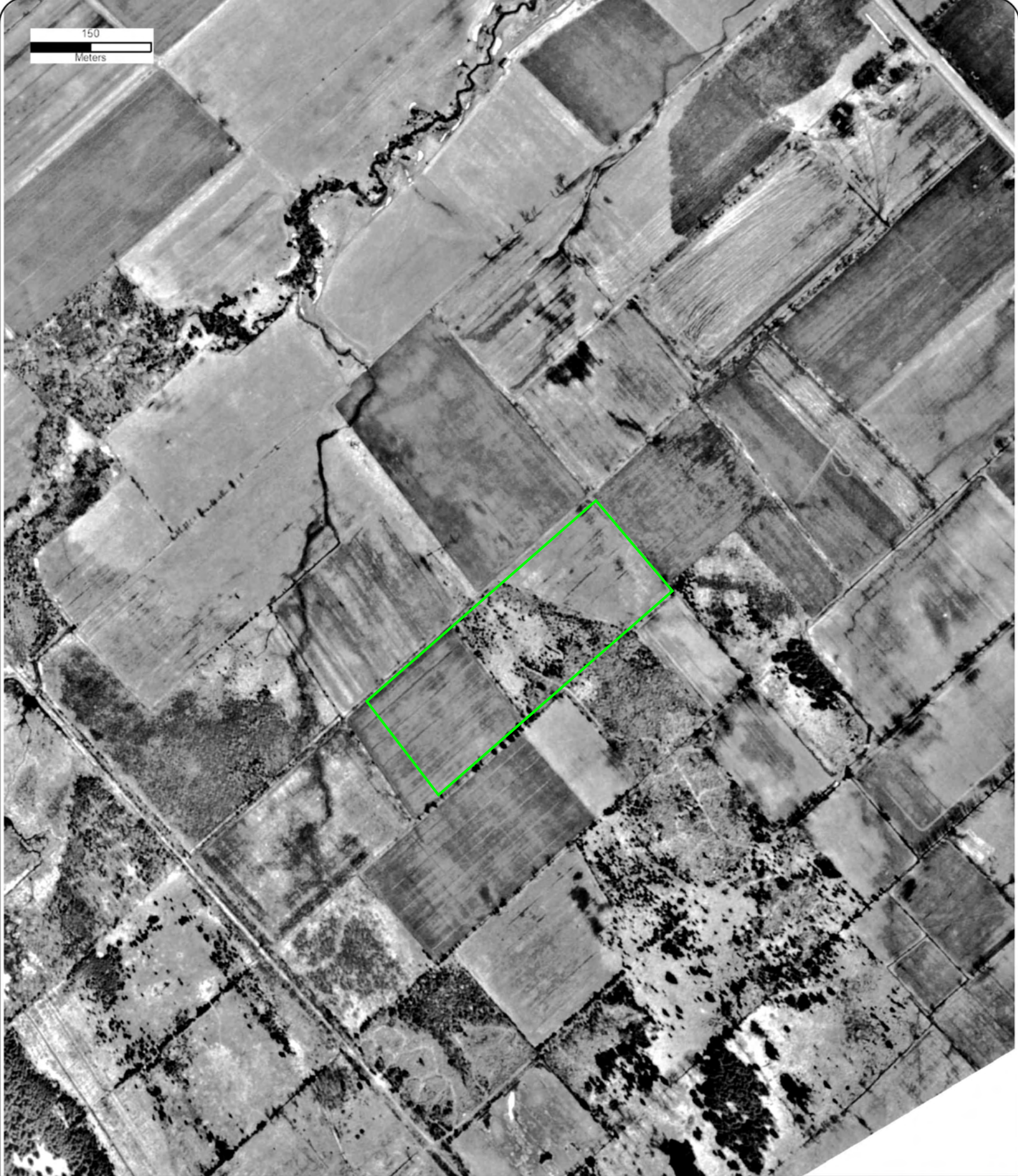
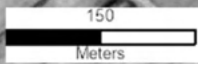


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Order No: 26042801310



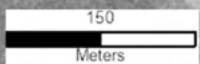


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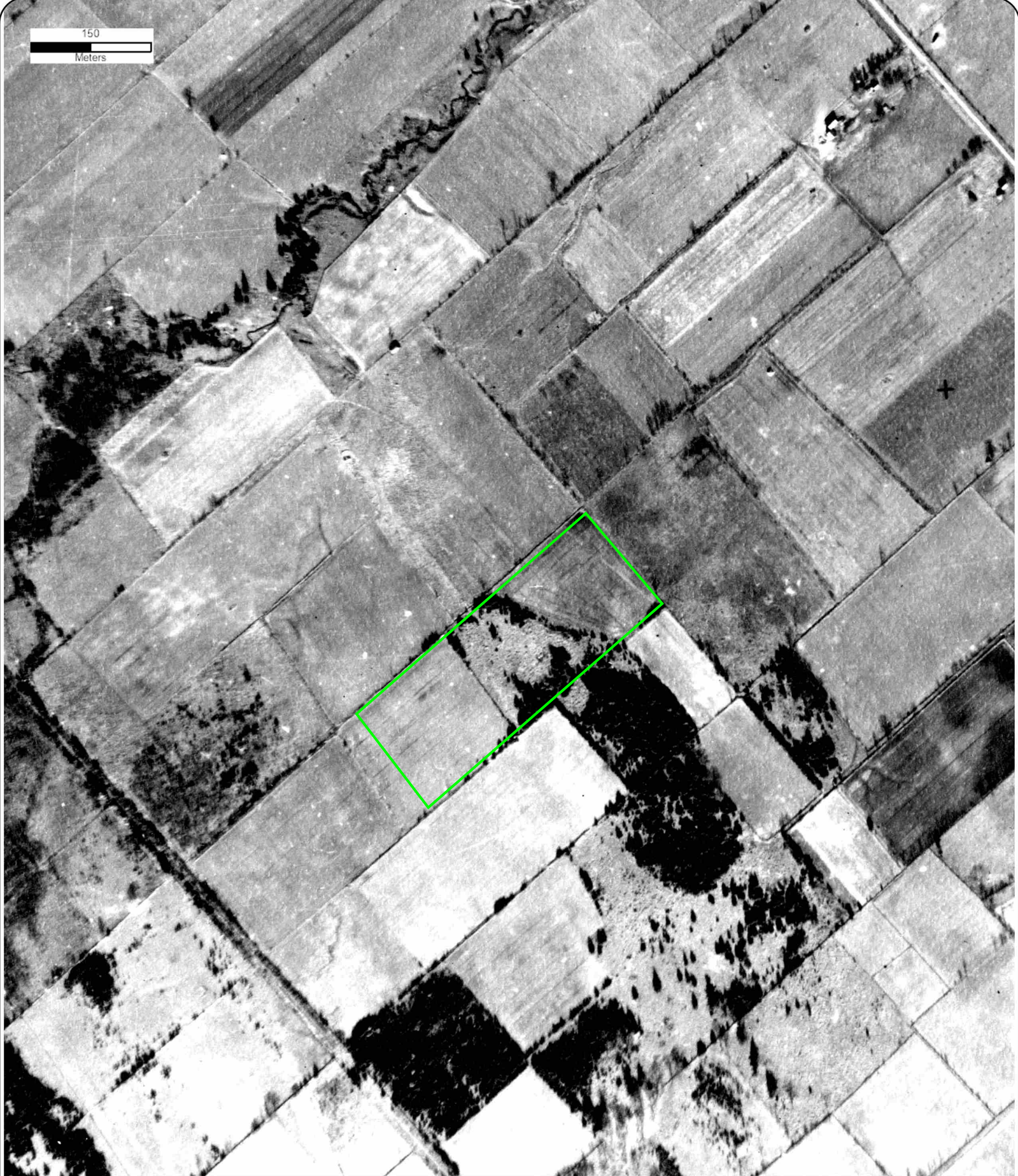
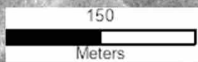


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Order No: 26042801310





Year: 1945
Source: NAPL
Scale: 6,000
Comment:

Address: Palladium Drive, Stittsville, ON
Approx Center: -75.93587086,45.28925075

Order No: 26042801310



APPENDIX H

Site Visit Photographs



SITE VISIT PHOTOGRAPHS

Our File Ref.: 240720

Client: Palladium Resort Development Limited Partnership

Project: Phase One Environmental Site Assessment

Site Location: 2785 & 2775 Palladium Drive, Ottawa, Ontario

Photograph No. 1	
Date: 5/8/2026	
Description Gravel path identified along the northern extent of the Site, with general conditions of wooded area to the north.	
Photograph No. 2	
Date: 5/8/2026	
Description General conditions of the western property. Residential subdivision identified to the south of the Site.	



Photograph No. 3	
Date: 5/8/2026	
Description Stormwater management pond identified to the west of the Site.	

Photograph No. 4	
Date: 5/8/2026	
Description Rock pile identified at the central portion of the western property.	



Photograph No. 5	
Date: 5/8/2026	
Description City infrastructure identified along Culdaff Road at the eastern extent of the western property.	

Photograph No. 6	
Date: 5/8/2026	
Description Culdaff Road running between the two properties.	



Photograph No. 7			
Date: 5/8/2026			
Description City infrastructure identified along Culdaff Road at the western extent of the eastern property.			

Photograph No. 8			
Date: 5/8/2026			
Description General conditions of the eastern property facing north.			



Photograph No. 9		
Date: 5/8/2026		
Description One of many piezometers identified across the eastern property.		

Photograph No. 10		
Date: 5/8/2026		
Description Eastern extent of the Site along Palladium Drive.		



Photograph No. 11		
Date: 5/8/2026		
Description Small piles of rock/brick debris identified at the northwestern corner of the eastern property facing southwest.		



APPENDIX I

Table 2 of Schedule D of O. Reg. 153/04

Ontario Regulation 153/04 Schedule D
Summary of Potentially Contaminating Activities & Areas of Potential Environmental Concern

Acid and Alkali Manufacturing, Processing and Bulk Storage	Explosives and Firing Range	Petroleum-derived Gas Refining, Manufacturing, Processing and Bulk Storage
Adhesives and Resins Manufacturing, Processing and Bulk Storage	Fertilizer Manufacturing, Processing and Bulk Storage	Pharmaceutical Manufacturing and Processing
Airstrips and Hangars Operation	Fire Retardant Manufacturing, Processing and Bulk Storage	Plastics (including Fibreglass) Manufacturing and Processing
Antifreeze and De-icing Manufacturing and Bulk Storage	Fire Training	Port Activities, including Operation and Maintenance of Wharves and Docks
Asphalt and Bitumen Manufacturing	Flocculants Manufacturing, Processing and Bulk Storage	Pulp, Paper and Paperboard Manufacturing and Processing
Battery Manufacturing, Recycling and Bulk Storage	Foam and Expanded Foam Manufacturing and Processing	Rail Yards, Tracks and Spurs
Boat Manufacturing	Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Rubber Manufacturing and Processing
Chemical Manufacturing, Processing and Bulk Storage	Gasoline and Associated Products Storage in Fixed Tanks	Salt Manufacturing, Processing and Bulk Storage
Coal Gasification	Glass Manufacturing	Salvage Yard, including automobile wrecking
Commercial Autobody Shops	Importation of Fill Material of Unknown Quality	Soap and Detergent Manufacturing, Processing and Bulk Storage
Commercial Trucking and Container Terminals	Ink Manufacturing, Processing and Bulk Storage	Solvent Manufacturing, Processing and Bulk Storage
Concrete, Cement and Lime Manufacturing	Iron and Steel Manufacturing and Processing	Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems
Cosmetics Manufacturing, Processing and Bulk Storage	Metal Treatment, Coating, Plating and Finishing	Tannery
Crude Oil Refining, Processing and Bulk Storage	Metal Fabrication	Textile Manufacturing and Processing
Discharge of Brine related to oil and gas production	Mining, Smelting and Refining; Ore Processing; Tailings Storage	Transformer Manufacturing, Processing and Use
Drum and Barrel and Tank Reconditioning and Recycling	Oil Production	Treatment of Sewage equal to or greater than 10,000 litres per day
Dye Manufacturing, Processing and Bulk Storage	Operation of Dry Cleaning Equipment (where chemicals are used)	Vehicles and Associated Parts Manufacturing
Electricity Generation, Transformation and Power Stations	Ordnance Use	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners
Electronic and Computer Equipment Manufacturing	Paints Manufacturing, Processing and Bulk Storage	Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products
Explosives and Ammunition Manufacturing, Production and Bulk Storage	Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	