PATERSON GROUP

Phase I – Environmental Site Assessment

Part of 2025 Mer Bleue Road

Ottawa, Ontario

Prepared for SmartREIT (Orleans II) Inc. & Mer Bleue Shopping Centres Limited c/o Smartcentres

Report: PE6469-1
September 18, 2024

TABLE OF CONTENTS

EXECUTIVE SUMMARY ii
1.0 INTRODUCTION 1
2.0 PHASE I PROPERTY INFORMATION 2
3.0 SCOPE OF INVESTIGATION 3
4.0 RECORDS REVIEW 4
4.1 General 4
4.2 Environmental Source Information 5
4.3 Physical Setting Sources 9
5.0 INTERVIEWS 11
6.0 SITE RECONNAISSANCE 12
6.1 General Requirements 12
6.2 Specific Observations at the Phase I Property 12
7.0 REVIEW AND EVALUATION OF INFORMATION 15
7.1 Land Use History 15
7.2 Conceptual Site Model 16
8.0 CONCLUSIONS 18
8.1 Assessment 18
8.2 Conclusion 18
9.0 STATEMENT OF LIMITATIONS 19
10.0 REFERENCES 20

List of Figures

Figure 1 – Key Plan
Figure 2 – Topographic Map
Drawing PE6469-1 – Site Plan
Drawing PE6469-2 – Surrounding Land Use Plan

List of Appendices

Appendix 1 Aerial Photographs
Site Photographs

Appendix 2 MECP Freedom of Information Search Request
MECP Water Well Records
TSSA Correspondence
City of Ottawa HLUI Search Response
ERIS Database Report

Appendix 3 Qualifications of Assessors

EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Smartcentres acting on behalf of SmartREIT (Orleans II) Inc. & Mer Bleue Shopping Centres Limited to conduct a Phase I – Environmental Site Assessment (Phase I ESA) for Part of 2025 Mer Bleue Road, in the City of Ottawa, Ontario. The objective of this Phase I ESA was to research the past and current use of the site (Phase I Property) and 250m study area (Phase I Study Area) and to identify any environmental concerns with the potential to have impacted the subject property.

According to the historical research, the Phase I Property was never formally developed. The surrounding lands within the Phase I Study Area were developed with residential dwellings to the north of Innes Road circa 1991, with some commercial retail at the intersection of Innes and Mer Bleue Road. Further commercial retail development occurred in the early 2000s to the west. Several automotive dealerships were developed in the mid 2010s to the southwest of the Phase I ESA Property. The adjacent property to west was first developed 2018 with the current commercial retail plaza and associated parking. No potential environmental concerns were identified pertaining to the historical use of the Phase I Property and surrounding properties.

Presently, the Phase I Property is vacant with a seasonal storage building located at the southwest corner of the property, while the surrounding lands largely consist of a mix of residential to the north, and commercial retail properties, and poses no environmental concern to the Phase I Property.

Conclusion

Based on the findings of this assessment, it is our opinion that a Phase II – Environmental Site Assessment will not be required for the Phase I Property.

1.0 INTRODUCTION

At the request of Smartcentres acting on behalf of SmartREIT (Orleans II) Inc. & Mer Bleue Shopping Centres Limited, Paterson Group (Paterson) conducted a Phase I – Environmental Site Assessment (Phase I ESA) for Part of 2025 Mer Bleue Road, in the City of Ottawa, Ontario, (Phase I Property). The objective of this Phase I ESA has been to research the past and current use of the Phase I Property, as well as the neighbouring properties within a 250m study area (Phase I Study Area), to identify any potentially contaminating activities (PCAs) that would result in areas of potential environmental concern (APECs) on the Phase I Property.

Paterson was engaged to conduct this Phase I ESA by Ms. Leah Axt, of Smartcentres, who can be reached at 905-326-6400.

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

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

2.0 PHASE I PROPERTY INFORMATION

Address:	Part of 2025 Mer Bleue Road, Ottawa, Ontario.
Legal Description:	Part of Lot 1, Concession 11, Township of Cumberland, in the City of Ottawa.
Location:	The Phase I Property is situated on the west side of Noëlla Leclair Way, northwest of the intersection of Noëlla Leclair Way and Roger Pharand Street, in the City of Ottawa, Ontario. For the purposes of this report, Noëlla Leclair Way runs in a north-south orientation. Refer to Figure 1 – Key Plan, for the site location context.
Latitude and Longitude:	45° 27’ 19.03" N, 75° 30’ 04.08" W.

Site Description:

Configuration:	Rectangular.
Area:	1.6 hectares (approximately).
Zoning:	AM [2413] H(21) – Residential Fourth Density Zone.
Current Use:	The Phase I Property is currently vacant grassed land.
Services:	The Phase I Property is located within a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I ESA is described as follows:

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

4.0 RECORDS REVIEW

4.1 General

Phase I ESA Study Area Determination

A radius of approximately 250m was deemed appropriate for defining the study area for this assignment, herein referred to as the Phase I Study Area. Properties located outside of the Phase I Study Area are not considered to have had the potential to impact the Phase I Property, based on their significant separation distances.

First Developed Use Determination

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

Fire Insurance Plans

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

City of Ottawa Street Directories

City of Ottawa street directories were reviewed in approximate ten-year intervals, between 1970 and 2011, for the general area of the Phase I Property as part of this assessment. These directories contain descriptions regarding the historical land uses of properties situated within the Phase I Study Area.

During the time period reviewed, the Phase I Property and adjacent lands have been used for residential purposes with some commercial properties along Innes Road. A retail fuel outlet was identified at the intersection of Mer Bleue Road and Innes Road (4042 Innes Road), first listed in 2000 until present. Based on its separation distance (approximately 225m west) and cross-gradient orientation, it poses no environmental concern to the Phase I Property. No other concerns were identified during the directories review.

Plan of Survey

A plan of survey was not provided for the Phase I Property as part of this assessment.

Chain of Title

A chain of title was not requested for the Phase I Property as part of this assessment, since it is our opinion that no new information would be ascertained.

4.2 Environmental Source Information

National Pollutant Release Inventory

A search of the National Pollutant Release Inventory (NPRI) database was conducted as part of this assessment. This federally managed database provides various reports and tracking information relating to the release of solid, liquid, or gaseous pollutants from industrial facilities into the natural environment.

A search of this database did not identify any pollutant release records listed for the Phase I Property, or any properties situated within the Phase I Study Area.

MECP Incident Reports

A request was submitted to the MECP Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants, or inspections maintained by the MECP for the Phase I Property or any of the neighbouring properties. The response from the MECP indicated that no relevant records were identified pertaining to the subject site.

MECP Instruments

A request was submitted to the MECP Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use, or any other similar MECP issued instruments for the Phase I Property. The response from the MECP indicated that no relevant records were identified pertaining to the subject site.

MECP Submissions

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions for the Phase I Property. The response from the MECP indicated that no relevant records were identified pertaining to the subject site.

MECP Waste Management Records

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records for the Phase I Property. The response from the MECP indicated that there was an occurrence report associated with a failed private septic bed constructed at former garage at Innes Road and Mer Bleue Road. The ministry advised to construct an additional tile bed as the first tile bed was saturated, and to use both with a junction box. No other records were identified pertaining to the subject site.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment. This database contains publicly available information on Records of Site Condition (RSCs) filed in the Province of Ontario between 2004 and 2024. No Records of Site Condition (RSCs) were filed for the Phase I Property or any properties in the Phase I Study Area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment, Conservation and Parks document entitled, "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of this assessment. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants, and coal tar distillation plants situated in the Province of Ontario.

A review of this document did not identify any former waste disposal sites situated on the Phase I Property or within the Phase I Study Area.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment, Conservation and Parks document entitled, "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed as part of this assessment. This document provides a reference to the locations of former plants with respect to the Phase I Property.

A review of this document did not identify any former coal gasification plants located on the Phase I Property or within the Phase I Study Area.

Ontario PCB Waste Storage Site Inventory

The Ontario Ministry of Environment, Conservation and Parks document entitled, *"Ontario Inventory of PCB Storage Sites, April 1995"* was reviewed as part of this assessment. This document identifies all recorded active and closed PCB waste storage sites situated in the Province of Ontario.

A review of this document did not identify any former PCB waste storage sites situated within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA Fuels Safety Branch in Toronto was contacted electronically on July 23, 2024, as part of this assessment, to inquire about current and former fuel storage tanks, spills, and historical incidents for the Phase I Property as well as the neighbouring properties within the Phase I Study Area. No pertinent records were found for the Phase I Property and surrounding properties.

OMNRF Areas of Natural and Scientific Interest (ANSI)

A search for ANSI sites situated within the Phase I Study Area was conducted electronically via the Ontario Ministry of Natural Resources and Forestry (OMNRF) website as part of this assessment.

A review of the available mapping information did not identify any ANSI sites situated on the Phase I Property or within the Phase I Study Area.

City of Ottawa Old Landfill Sites

The document prepared by Golder Associates entitled, *"Old Landfill Management Strategy, Phase I - Identification of Sites, City of Ottawa"*, was reviewed as part of this assessment. This document identifies the details and locations of all recorded closed landfill sites situated in the City of Ottawa.

A review of this document did not identify any former landfills located on the Phase I Property or within the Phase I Study Area.

City of Ottawa Historical Land Use Inventory (HLUI) Database

As part of this assessment, a requisition form was submitted to the City of Ottawa to request information from the City's Historical Land Use Inventory (HLUI) database for any environmental records pertaining to the Phase I Property as well as any properties situated within the Phase I Study Area.

The response from the City of Ottawa, indicated that no relevant records were available pertaining to the Phase I Property.

The HLUI results identified several off-site records pertaining to properties situated within the Phase I Study Area, the majority of which have been identified through sources reviewed during the historical research portion of the Phase I ESA. Based on a review of the HLUI, no new PCAs that would result in APECs on the Phase I Property, were identified within the Phase I Study Area.

A copy of the HLUI results has been included in Appendix 2.

ERIS Database Report

A database report, prepared by ERIS (Environmental Risk Information Services Ltd.), dated July 29, 2024, was acquired and reviewed as part of this assessment. This report provides a compilation of various provincial and federal environmental related records pertaining to any properties situated within the Phase I Study Area. The complete ERIS report has been included in Appendix 2.

The ERIS report did not identify any records pertaining to the Phase I Property.

The ERIS report identified a total of 24 records for properties within the 250m radius of the Phase I Property (4 of which are previous ERIS searches).

The ERIS report identified 1 Waste Generator record for the property addressed 4100 Innes Road, approximately 225m west of the Phase I Property, associated with site preparation contractors Crepin Cartage in 2007 and 2008. Waste classes listed include waste oil and lubricants. The presence of this waste generator does not pose an environmental concern to the Phase I Property.

The ERIS report identified 3 Ontario Spill records for properties within 250m of the Phase I Property. Two pertinent spills were identified within the Phase I Study Area. One spill was the release of 400L of oily water in the parking lot of 2035 Mer Bleue Road, however, based on the cross-gradient orientation and receiving medium, the spill poses no environmental concern to the Phase I Property. The second was the spill of 250L of diesel fuel at the intersection of Innes and Wildflower, however, based on the downgradient orientation, the spill poses no environmental concern to the Phase I Property.

The ERIS report identified 6 well records within the Phase I Study Area, which are further discussed in the MECP Water Well Records section of this report.

The ERIS report identified 6 environmental compliance approvals (ECAs), environmental activity and sector registries, and certificates of approval (CAs) for properties within 250m of the Phase I Property. The records were limited to municipal and private sewage works and municipal drinking water systems, which are not considered to pose an environmental risk to the property.

A copy of the ERIS report is provided in Appendix 2.

Previous Engineering Reports

Based on a review of our files, Paterson has completed various Phase I ESAs for multiple properties situated within the Phase I Study Area. Fill was identified on the property and tested. The fill was found to be not of poor quality; therefore, the presence of the on-site fill does not pose an environmental concern to the Phase I Property. A review of these reports identified several PCAs within the vicinity of the Phase I ESA Property.

4.3 Physical Setting Sources

Historical aerial photographs of the Phase I Study Area were obtained from the National Air Photo Library and City of Ottawa (geoOttawa), and reviewed in approximate ten-year intervals, beginning with the earliest available photograph. Based on a review of these photographs, the following observations have been made:

1976 (geoOttawa) The Phase I Property is vacant and or used for agricultural purposes. A farmhouse can be observed to west of the Phase I Property, at the intersection of Innes Road and Mer Bleue Road. Several residential dwellings can be seen to the south along Mer Bleue Road, and along Innes Road to the northwest and northeast.

1991 (geoOttawa) No significant changes are apparent with respect to the Phase I Property. Lands to the north of Innes Road have been developed for residential purposes. A commercial retail plaza is observed northwest of the intersection of Innes Road and Jeanne D'Arc Boulevard. Several other commercial retail properties can be observed further to the east of the Phase I Property, along the southern half of Innes Road. Jeanne D'Arc Boulevard is observed in its current orientation. No other significant changes are apparent with respect to the surrounding lands.

2005 (geoOttawa) No significant changes are apparent with respect to the Phase I Property. Several commercial retail developments are currently under development to the east and west of the Phase I Property. No other significant changes are apparent with respect to the surrounding lands.

2014 (geoOttawa) No significant changes are apparent with respect to the Phase I Property. The farmhouse to the west of the Phase I Property is no longer present. An automotive dealership has been constructed to the southwest of the Phase I Property. No other significant changes are apparent with respect to the surrounding lands.

2022 (geoOttawa) No significant changes are apparent with respect to the Phase I Property. The property directly to the west and north has been developed with several commercial retail buildings. Several automotive dealerships have been constructed to the southwest of the Phase I Property, along Mer Bleue Road. No other significant changes are apparent with respect to the surrounding lands.

Copies of the aerial photographs selected for review are included in Appendix 1.

Geological Maps

Geological mapping information for the Phase I Property was obtained from The Geological Survey of Canada – Urban Geology of the National Capital Area and reviewed as part of this assessment. Based on the available mapping information, the bedrock beneath the Phase I Property generally consists of interbedded limestone and dolomite of the Gull River Formation. The surficial geology consists largely of offshore marine deposits, consisting of clay and silt, with a drift thickness ranging from approximately 5m to 25m.

Water Bodies

No water bodies are present on the Phase I Property or within the Phase I Study Area. The nearest named water body with respect to the Phase I Property is Bilberry Creek, located approximately 300m to the north.

Topographic Maps

A topographic map of the Phase I Property was obtained from the Natural Resources Canada – The Atlas of Canada website and reviewed as part of this assessment. The topographic map indicates that the general elevation of the

Phase I Property is approximately 88m above sea level, while the regional topography within the greater area is depicted as sloping downwards to the northwest, in the general direction of the Ottawa River.

An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A physiographic map was obtained from the Natural Resources Canada – The Atlas of Canada website and reviewed as a part of this assessment. According to the publication and available mapping information, the Phase I Property is situated within the St. Lawrence Lowlands. According to the description provided: *"…the lowlands are plain-like areas that were affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets."* The Phase I Property is specifically located within the Central St. Lawrence Lowland area, which is rarely more than 150m above sea level.

MECP Water Well Records

A search of the MECPs website for all drilled well records within a 250m radius of the Phase I Property was conducted as part of this assessment. The search identified 10 well records within the Phase I Study Area. These records pertain to wells installed between 1961 and 2022 and used for domestic purposes. Based on the availability of municipal water services, no drinking water wells are expected to remain in use within the Phase I Study Area.

According to the well records, the subsurface stratigraphy in the general area of the Phase I Property consists of clay. Bedrock, consisting of limestone, was generally encountered at an average depth of approximately 18m below ground surface.

A select number of the aforementioned well records have been included in Appendix 2.

5.0 INTERVIEWS

Property Owner Representative

Ms. Leah Axt, a representative of Smartcentres, was contacted electronically to respond to questions about the environmental history of the Phase I Property. Ms. Axt stated that the property is vacant and has always been. According to Ms. Axt,

the ownership is between SmartREIT (Orleans II) Inc. and Mer Bleue Shopping Centres Limited, which Mer Bleue originally purchased in 2006 and SmartREIT purchasing a percentage in 2015. Ms. Axt was unaware of any environmental concerns regarding the current or historical activities of the Phase I Property or any other neighbouring properties.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A site inspection was conducted for the Phase I Property on July 23, 2024, between 4:00PM and 5:00PM. Weather conditions were partly cloudy, with a temperature of approximately 27°C. Mr. Joshua Dempsey, from the Environmental Department of Paterson Group, conducted the inspection.

In addition to the Phase I Property, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site inspection.

6.2 Specific Observations at the Phase I Property

Site Description

The Phase I Property is currently vacant, with a seasonal salt/grit storage building along the southwest corner of the property. The remainder of the property consists of landscaped areas.

The site topography is relatively flat with the exception of a drainage ditch along the northern limits of the property. The regional topography appears to slope down towards the north, in the general direction the Ottawa River. The Phase I Property is considered to be at grade with respect to the neighbouring streets.

Water drainage on the Phase I Property occurs primarily via infiltration within the grassed area, as well as via a drainage ditch along the northern half of the Phase I Property.

No ponded water, stressed vegetation, surficial staining, or any other indications of potential sub-surface contamination were observed on the Phase I Property at time of the site inspection.

A depiction of the Phase I Property is illustrated on Drawing PE6469-1 – Site Plan, in the Figures section of this report.

Buildings and Structures

At the time of the site inspection, a small seasonal salt/grit storage building was observed at the southwestern property limits. No other buildings or structures were present on the property, at the time of the site inspection. A depiction of the Phase I Property is illustrated on Drawing PE6469-1 – Site Plan in the Figures section of this report.

Potential Environmental Concerns

- **Fuels and Chemical Storage**

  No above ground fuel storage tanks (ASTs), or evidence indicating the presence of any underground fuel storage tanks (USTs) were observed on the exterior of the Phase I Property.

- **Hazardous Materials and Unidentified Substances**

  No hazardous materials, unidentified substances, spills, surficial staining, abnormal odours, stressed vegetation, or any other indications of potential sub-surface contamination were observed on the exterior of the Phase I Property.

- **Polychlorinated Biphenyls (PCBs) and Transformer Oil**

  No electrical transformers or any other potential sources of PCBs or transformer oil were identified on the exterior of the Phase I Property.

- **Waste Management**

  No waste is currently being generated on the Phase I Property.

Neighbouring Properties

At the time of the site inspection, a survey of the neighbouring properties was conducted from publicly accessible roadways.

Land use adjacent to the Phase I Property was observed as follows:

North: Commercial retail building, followed by Innes Road;

East: Noella Leclair Road, followed by vacant land;

South: Roger-Pharand Street, followed by vacant land;

West: Commercial retail plaza, followed by Mer Bleue Road.

No potential environmental concerns were identified with respect to the current use of the adjacent properties.

The neighbouring land use within the Phase I Study Area is depicted on Drawing PE6469-2 – Surrounding Land Use Plan, in the Figures section of this report.

6.3 Soil Characterization Investigation

A preliminary due diligence soil characterization investigation was conducted in August of 2024 in conjunction with a geotechnical investigation. A total of 12 boreholes and 8 test pits were advanced as part of the investigation to assess the soil and the fill that was encountered on site.

The soils encountered across the site generally consisted of topsoil, fill and silty clay over glacial till. The fill material encountered in the boreholes and test pits across the Phase I Property was that of reworked native material from the redevelopment of the neighbouring property. Boreholes were advanced to a depth of 2.8-6.6m below grade and terminated at practical refusal. Test pits were excavated to a depth of 1.5-3.2m below grade and terminated within the native clay layer.

All soil samples collected were subjected to a preliminary screening procedure, which included visual screening for colour and evidence of deleterious materials. No apparent deleterious substances or any visual or olfactory signs of potential contamination were observed in the samples collected during the field program.

Seven fill and three native samples were submitted for analysis of benzene, toluene, ethylbenzene and xylenes (BTEX), petroleum hydrocarbons (PHCs, Fractions F1 to F4), and metals. Two fill samples were submitted for analysis of EC and SAR.

Analytical results were compared to MECP Table 3 Commercial standards considered to be applicable for on-site use. All test data was found to comply with MECP Table 3 Commercial standards, with the exception of vanadium across the site and EC in sample TP8-24-G1. Naturally elevated vanadium is widely present in clays across the Ottawa area, at concentrations similar to that identified and is not considered to be a contaminant. As for the identified EC exceedance, the soil can be beneficially reused on-site, permitted it is placed in an area where the soil will be affected by the same chemicals as a result of continued application of a

substance for the safety of vehicular or pedestrian traffic under conditions of snow or ice.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on a review of available historical information, the land use history of the Phase I Property is summarized below in Table 1.

Table 1: Land Use History
Part of 2025 Mer Bleue Road, Ottawa, Ontario

Time Period	Land Use	Description	Observations
Prior to 1976	Unknown	Unknown	No historical information available prior to this time period.
1976 – Present	Agricultural or Other Use	Vacant	Aerial photographs from the late 1970s to present confirm that the Phase I Property was used for agricultural purposes and/or was vacant during this time period.

Potentially Contaminating Activities (PCAs)

No PCAs were identified on the Phase I ESA Property. Six PCAs were identified within the Phase I Study Area, three of which are associated with automotive service garages located to the southwest of the Phase I ESA Property. A former service garage was located off-site on the southeast side of the intersection of Innes Road and Mer Bleue Road. A retail fuel outlet is located on the southwest side of the intersection of Innes Road and Mer Bleue Road. One former fuel spill was identified at the intersection Innes Road and Wildflower Drive. No other PCAs were identified within the Phase I ESA Study Area.

Areas of Potential Environmental Concern (APECs)

Based on the down- or cross-gradient orientation, and separation distances of the identified PCAs, they are not considered to represent APECs on the Phase I Property.

Contaminants of Potential Concern (CPCs)

No contaminants of potential concern were identified since no APECs were identified on the Phase I Property.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the available mapping information, the bedrock beneath the Phase I Property generally consists of interbedded limestone and dolomite of the Gull River Formation. The surficial geology consists largely of offshore marine sediments, consisting of clay and silt, with a drift thickness ranging from approximately 5m to 25m.

Water Bodies and Areas of Natural and Scientific Interest

No water bodies or areas of natural and scientific interest are present on the Phase I Property or within the Phase I Study Area.

The nearest named water body with respect to the Phase I Property is Bilberry Creek, located approximately 300m to the north.

Drinking Water Wells

Based on the availability of municipal water services, no drinking water wells are expected to remain in use within the Phase I Study Area.

Existing Buildings and Structures

The Phase I Property is currently not occupied any buildings. A PVC drainage pipe is present along the northern portion of the property, feeding into a drainage ditch along the northern frontage.

Current and Future Property Use

The Phase I Property is currently vacant.

It is our understanding that the Phase I Property is to be developed with a commercial development and associated asphaltic concrete parking lot. Since the land has never formally been developed, a record of site condition (RSC) will not be required to be filed with the MECP.

Neighbouring Land Use

The surrounding lands within the Phase I Study Area consist of a mix of residential and commercial retail properties. Current land use is depicted on Drawing PE6469-2 – Surrounding Land Use Plan, in the Figures section of this report.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of the Phase I ESA report, no potentially contaminating activities (PCAs) or areas of potential environmental concern (APECs) were identified on the Phase I Property.

Six PCAs were identified with respect to off-site properties situated within the Phase I Study Area. Based on their hydraulically down- or cross-gradient orientation with respect to the anticipated groundwater flow to the north, the separation distances, these PCAs are not considered to pose an environmental concern to the Phase I Property.

Contaminants of Potential Concern

As per Section 7.1 of this report, no CPCs were identified on the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

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

The absence of any PCAs was confirmed by a variety of independent sources, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

8.1 Assessment

Paterson Group was retained by Smartcentres acting on behalf of SmartREIT (Orleans II) Inc. & Mer Bleue Shopping Centres Limited to conduct a Phase I – Environmental Site Assessment (Phase I ESA) for Part of 2025 Mer Bleue Road, in the City of Ottawa, Ontario. The objective of this Phase I ESA was to research the past and current use of the site (Phase I Property) and 250m study area (Phase I Study Area) and to identify any environmental concerns with the potential to have impacted the subject property.

According to the historical research, the Phase I Property was never formally developed. The surrounding lands within the Phase I Study Area were developed with residential dwellings to the north of Innes Road circa 1991, with some commercial retail at the intersection of Innes and Mer Bleue Road. Further commercial retail development occurred in the early 2000s to the west. Several automotive dealerships were developed in the mid 2010s to the southwest of the Phase I ESA Property. The adjacent property to west was first developed 2018 with the current commercial retail plaza and associated parking. No potential environmental concerns were identified pertaining to the historical use of the Phase I Property and surrounding properties.

Presently, the Phase I Property is vacant with a seasonal storage building located at the southwest corner of the property, while the surrounding lands largely consist of a mix of residential to the north, and commercial retail properties, and poses no environmental concern to the Phase I Property.

8.2 Conclusion

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

9.0 STATEMENT OF LIMITATIONS

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

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

This report was prepared for the sole use of SmartREIT (Orleans II) Inc. & Mer Bleue Shopping Centres Limited. Permission and notification from the above noted parties and Paterson Group will be required prior to the release of this report to any other party.

Paterson Group Inc.

Joshua Dempsey, B.Sc.

LICENSED PROFESSIONAL ENGINEER
18-SEP-2024
M. S. D'ARCY
90377839
PROVINCE OF ONTARIO

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

Report Distribution:

- ❑ SmartREIT (Orleans II) Inc. & Mer Bleue Shopping Centres Limited c/o Smartcentres
- ❑ Paterson Group Inc.

10.0 REFERENCES

Federal Records

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

Provincial Records

- ❒ MECP: Freedom of Information and Privacy Office.
- ❒ MECP: Municipal Coal Gasification Plant Site Inventory, 1991.
- ❒ MECP: Waste Disposal Site Inventory, 1991.
- ❒ MECP: Brownfields Environmental Site Registry.
- ❒ MECP: Water Well Inventory.
- ❒ MECP: Ontario PCB Waste Storage Site Inventory, 1995.
- ❒ Office of Technical Standards and Safety Authority, Fuels Safety Branch.
- ❒ Ministry of Natural Resources and Forestry Areas of Natural Significance.
- ❒ Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

Municipal Records

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

Local Information Sources

- ❒ Personal Interviews.
- ❒ Previous Engineering Reports.

Public Information Sources

- ❒ ERIS Database Report.
- ❒ Google Earth.
- ❒ Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE6469-1 – SITE PLAN

DRAWING PE6469-2 – SURROUNDING LAND USE PLAN

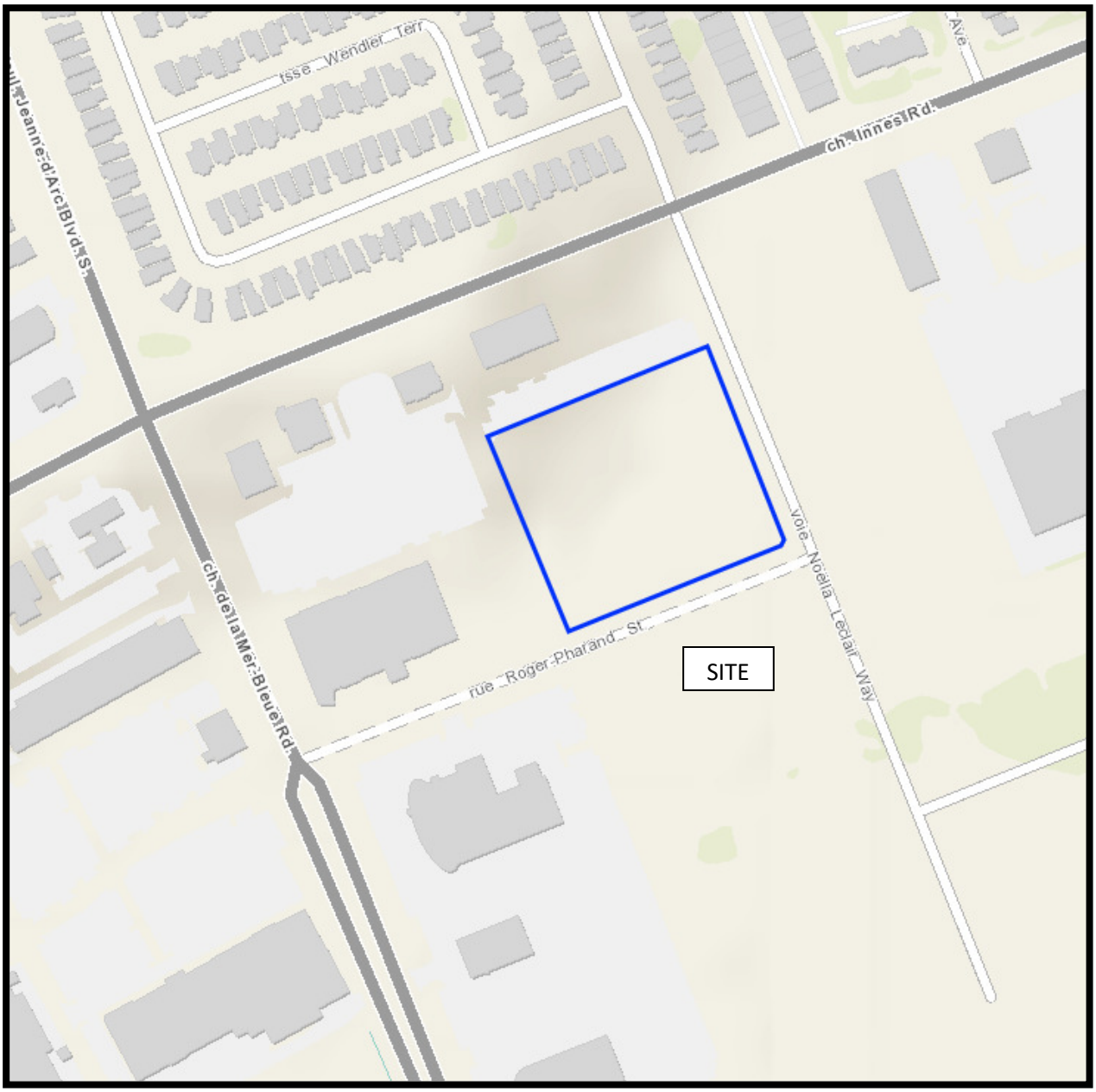


FIGURE 1

KEY PLAN

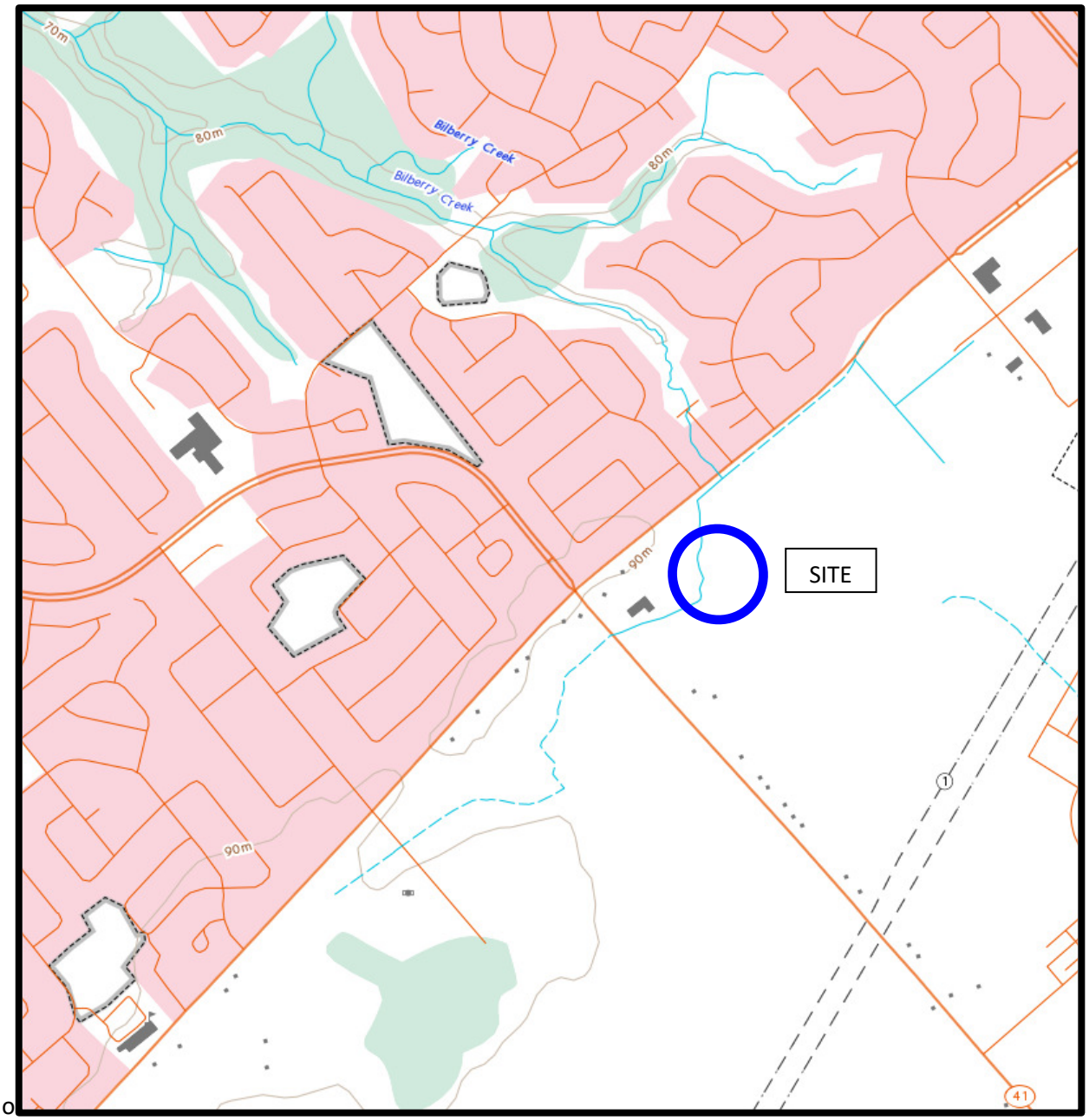
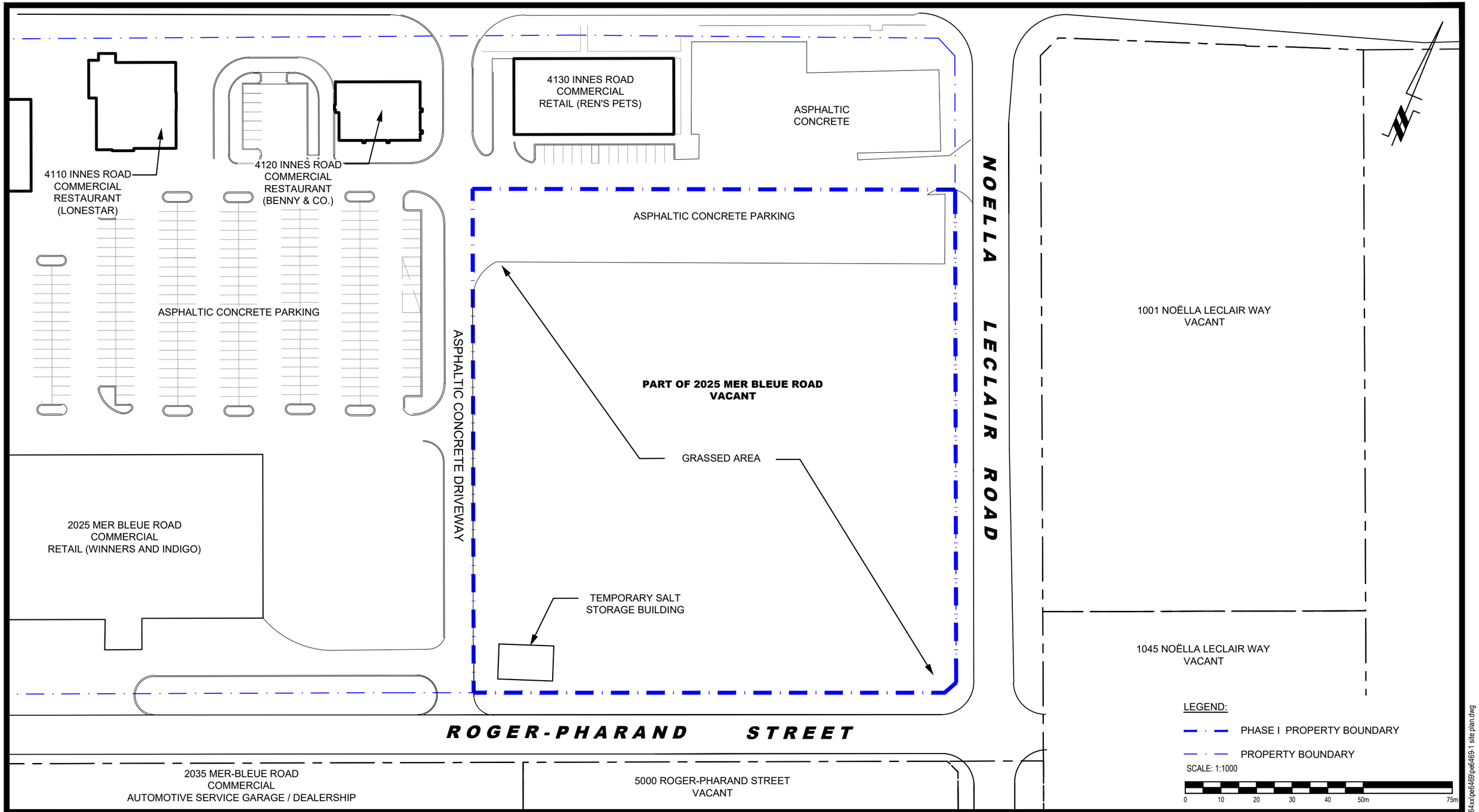


FIGURE 2

TOPOGRAPHIC MAP



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

NO.	REVISIONS	DATE	INITIAL

CALLOWAY REIT (ORLEANS) INC. C/O SMARTCENTRES

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
2025 MER-BLEUE ROAD

OTTAWA, ONTARIO

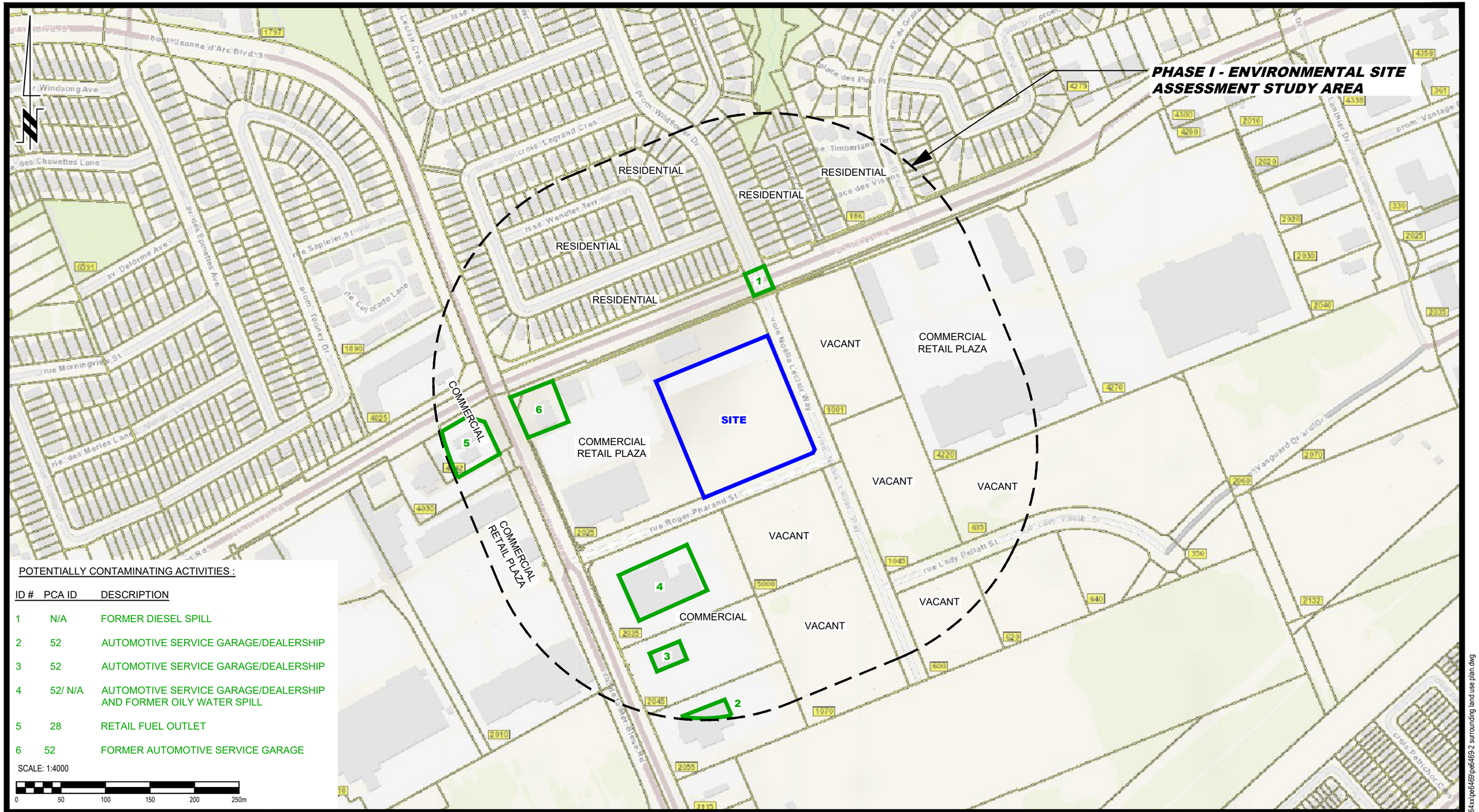
Title:

SITE PLAN

Scale: 1:1000	Date: 09/2024
Drawn by: GK	Report No.: PE6469-REP.01
Checked by: JD	Dwg. No.: PE6469-1
Approved by: MD	Revision No.:

p:\autocad drawings\environmental\pe64xx\pe6469\pe6469-1 site plan.dwg

11x17



POTENTIALLY CONTAMINATING ACTIVITIES :

ID #	PCA ID	DESCRIPTION
1	N/A	FORMER DIESEL SPILL
2	52	AUTOMOTIVE SERVICE GARAGE/DEALERSHIP
3	52	AUTOMOTIVE SERVICE GARAGE/DEALERSHIP
4	52/ N/A	AUTOMOTIVE SERVICE GARAGE/DEALERSHIP AND FORMER OILY WATER SPILL
5	28	RETAIL FUEL OUTLET
6	52	FORMER AUTOMOTIVE SERVICE GARAGE

SCALE: 1:4000

0 50 100 150 200 250m

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

NO.	REVISIONS	DATE	INITIAL

CALLOWAY REIT (ORLEANS) INC. C/O SMARTCENTRES

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
2025 MER-BLEUE ROAD

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

Scale: 1:4000	Date: 09/2024
Drawn by: GK	Report No.: PE6469-REP.01
Checked by: JD	Dwg. No.: PE6469-2
Approved by: MD	Revision No.:

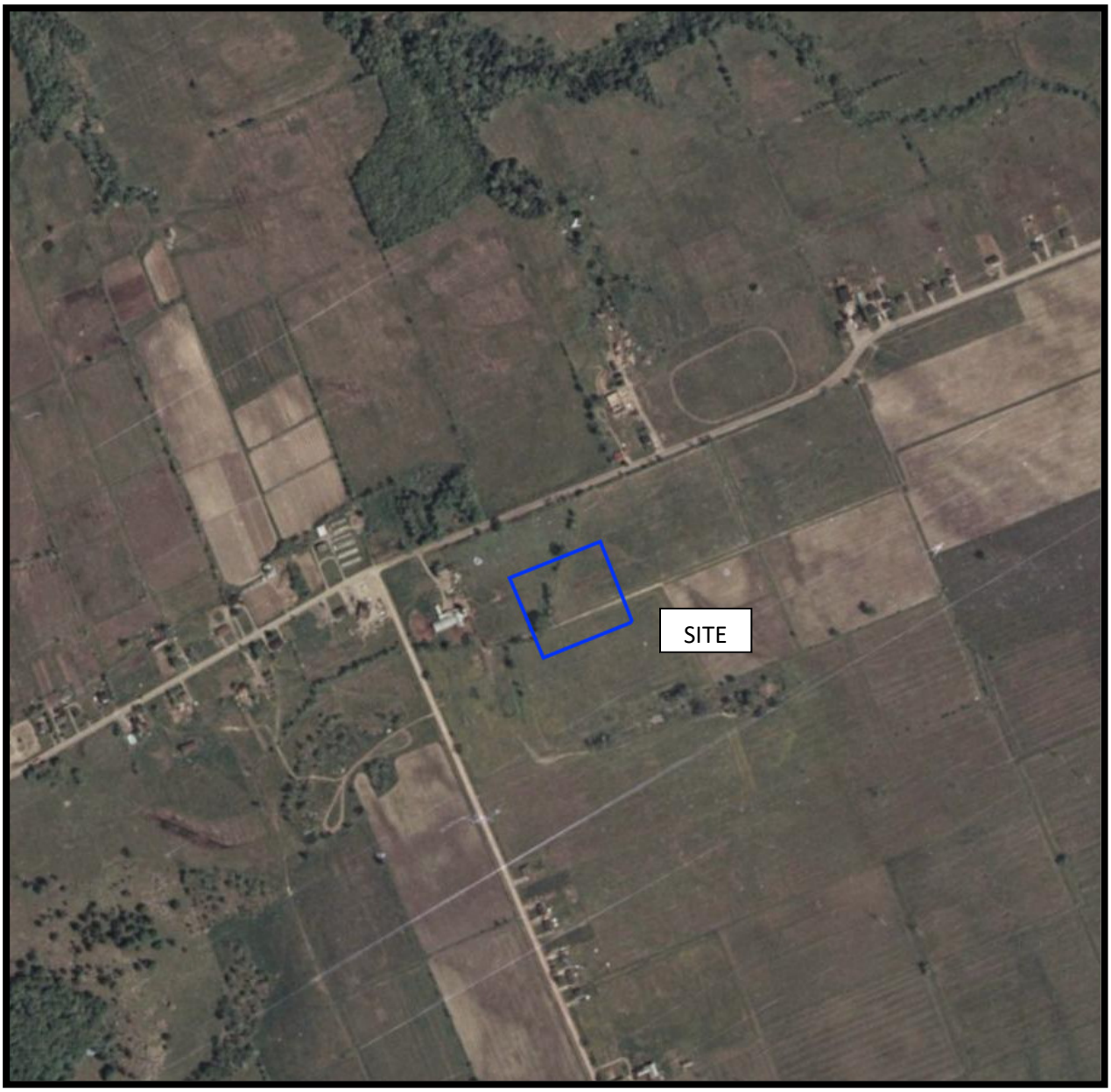
p:\autocad drawings\environmental\pe64xx\pe6469\pe6469-2 surrounding land use plan.dwg

11x17

APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



AERIAL PHOTOGRAPH
1976

PATERSON GROUP

AERIAL PHOTOGRAPH
1991

PATERSON GROUP

AERIAL PHOTOGRAPH
2005

PATERSON GROUP

AERIAL PHOTOGRAPH
2014

PATERSON GROUP

AERIAL PHOTOGRAPH
2022

PATERSON GROUP

Site Photographs

PE6469 Part of 2025 Mer Bleue Road, Ottawa ON July 23, 2024

Photograph 1: View of the temporary/seasonal salt storage building, at the southwest corner of the site.

Photograph 2: View of the temporary/seasonal salt storage building.

Site Photographs

PE6469 Part of 2025 Mer Bleue Road, Ottawa ON July 23, 2024

Photograph 3: View looking towards the east, from the western side of the subject site.

Photograph 4: View looking south from the subject site.

Site Photographs

PE6469 Part of 2025 Mer Bleue Road, Ottawa ON July 23, 2024

Photograph 5: View looking west, from the western side of the subject site.

Photograph 6: View looking north from the subject site.

APPENDIX 2

MECP FREEDOM OF INFORMATION RESPONSE

MECP WATER WELL RECORDS

TSSA CORRESPONDENCE

CITY OF OTTAWA HLUI SEARCH RESPONSE

ERIS DATABASE REPORT

Ministry of the Environment, Conservation and Parks

Corporate Services Branch
40 St. Clair Avenue West
Toronto ON M4V 1M2

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

Direction des services ministériels
40, avenue St. Clair Ouest
Toronto ON M4V 1M2

Ontario

August 27, 2024

Mr. Joshua Dempsey
Paterson Group Inc.
9 Auriga Drive
Ottawa, Ontario K2E 7T9
jdempsey@patersongroup.ca

Dear Joshua Dempsey:

RE: MECP FOI A-2024-04883, Your Reference #: PE6469 – Record Release Letter

This letter is further to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to:

2025 Mer Bleue Road, Ottawa

Timeframe: January 01, 1986, to July 24, 2024

Your final fee payment was received by this office. If payment was not in Canadian dollars, please contact our office immediately.

Attached is a copy of the records.

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

If you have any questions, please contact Jessica Wilson at jessica.wilson@ontario.ca.

Yours truly,
Jessica Wilson

for
Josephine DeSouza
Manager, Access and Privacy Office

Attachment

Ontario

Ministry of the Environment

OCCURENCE REPORT

Location of Occurence: CUMBERLAND TWP. 2025 MER BLEU RD. **Reg:** 4 **Dist:** OT **Municipality:** 20601		**Source:** PRIVATE SEPTIC SYSTEM **Sector:** RS **Source:** SW **SIC:** **UTM:** **N:** [] **E:** [] **Zone:** []	
Entered: :	**ORIS No.** 9040200812	**Abstracts:**	**Diaries:**
Received By: NANCY BOON		**Batch:** 0	**I. E. B. No.**
Occurence Type: C	**Subtype:** 99	**Occurence Date:**	1990/10/16
Work Plan:		**Occurence Time:**	:
Reported By: [redacted]		**Report to MOE :** 1990/10/16 16:00 **MOE at Scene:** 90/10/18 15:00	
s.21 **Telephone No.** [redacted]	**Alternate No.** - - x	**Assigned To:**	REG DOYLE
Address: [redacted] **Postal Code:**		**ERP Contacted:** **Callout:** [] **ERP Name:**	**NSP:** []

Syn: FAILED SEPTIC SYSTEM

Brief Summary:
SEPTIC SYSTEM 9 YRS. OLD IN CLAY WORKS AT GARAGE AT INNES & MER BLEU
MET ON SITE AT 1500 HRS. OCT 18/90 TILE BED IS SATURATED-PREVIOUSLY CONSTRUCTED BY
M.FILION ADVISED TO CONSTRUCT A SECOND TILE BED BESIDE EXISTING ONE, AND USE BOTH BEDS WITH A
JUNCTION BOX.

If there are related reports, record initial/master ORIS No. here >>

Followup Action: X **Abatement IEB Other**
BF Date:
FILE CLOSED

File Closed: X **Abatement: IEB Other**
Suspected Violation:

Report Prepared By: REG DOYLE	**Date:** 10/19/90	**IEB Investigator:**	**IEB BF Date**
Approving Officer GEORGE CLARKE	**Date:** 07/17/92	**Reviewing Officer:**	**Date**

Specify number(s) for routing Original [ ] [ ] [ ] [ ] **Continued** [ ] **Yes**
Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ]
1. Investigator/E.O. **2. D. O. /File** **3. SAC (initial spills)**
4. Reg. Dir. /_____ Mgr. **5. IEB Reg. Spv** **6. IEB H.O./file** **7. Other _____**

SAC Action Class: 1: 2:

Material 1:	**Code :**
Amount :	**UN No.:**
Material 2:	**Code :**
Amount :	**UN No.:**
Material 3:	**Code :**

Amount : UN No.:

Cause. . . . . : Code. . :
Reason. . . . . : Code. . :

Person in Control: Waste GenNum :
Owner . . . . . : Waste GenNum :
Agencies Involved . . . . :

Clean up and Restoration Carried out by:
[v] Controller [v] Owner [N] Other

% Cleaned up: Estimated Cost:
Were Directions or Approval Given Under
EPA Part X [v] Regulation 362 [v] Manifest No.

Waste Class : Code . . :
Hauler : Code . . :
Disposal Site : Code . . :

Environmental Impact: Nature of Impact:
Code . . :

People/Business Damaged
(Other than to Owner/Controller) :
Nature of Damage: Code . . :

31 G/5h

UTM 18 2 4 6 0 6 1 5 E

15 R 5 0 3 3 4 4 0 N

Elev. 15 R 0 2 9 X

The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
56 No 584
FEB 20 1962
ONTARIO WATER RESOURCES COMMISSION

Basin 2 5

County or District Russel

Township, Village, Town or City [redacted]

Con XI Lot 1

Date completed 13 (day) Nov (month) 61 (year)

[redacted] ress Orleans R R N 1

Casing and Screen Record

Inside diameter of casing 2"

Total length of casing 20'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 2"

Pumping Test

Static level 3'

Test-pumping rate 12 G.P.M.

Pumping level 20'

Duration of test pumping 1 Hrs

Water clear or cloudy at end of test Clear

Recommended pumping rate 12 G.P.M.

with pump setting of 20' feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Blue Clay	0'	18'		
Grey Limestone	1'8'	48'	48'	Fresh

1512847

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

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

Drilling or Boring Firm

G. CHARBONNEAU
DIAMOND DRILLER ARTESIAN WELLS
MODERN HOME BUILDERS
ORLEANS, ONT.
R.R. 1 Navan 9R-25

Address

Licence Number 224

Name of Driller or Borer

Address

Date Nov / 13/61

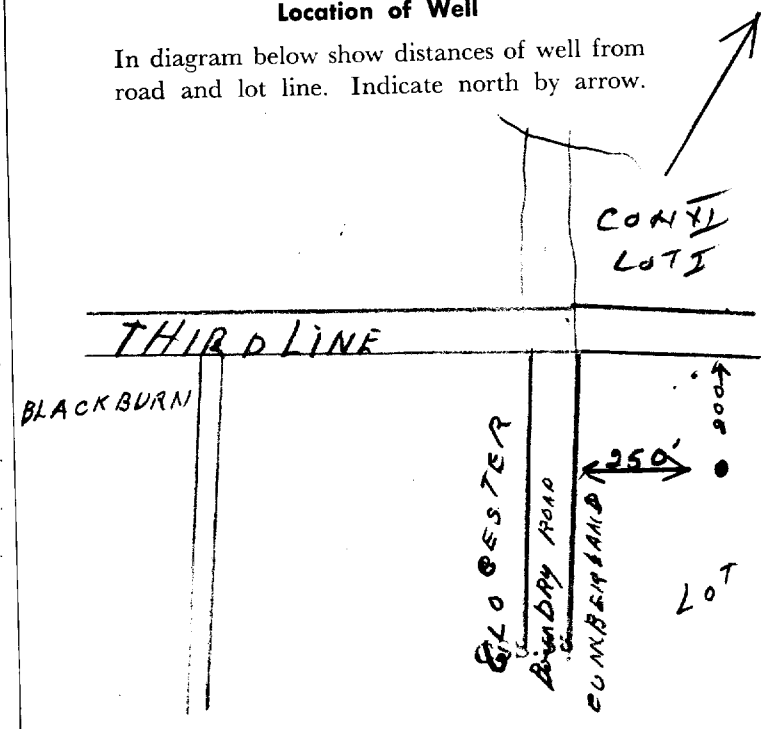
Gerard Charbonneau
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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



JTM 18 - 460490' Con III O.F. Lot 1

4R 5023391 0 CODED

1509939

Elev. 4R 02914

Basin 21ST

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District ~~xxxxxxx~~ Carleton Township, Village, Town or City Gloucester

Con. 3 O.F. Lot 1 Date completed 12 July 1968 (day month year)

[redacted] dress Navan, Ontario.

Casing and Screen Record

Inside diameter of casing 2"

Total length of casing 80'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 2"

Pumping Test

Static level 21'

Test-pumping rate 5 G.P.M.

Pumping level 60'

Duration of test pumping 3 hrs.

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

with pump setting of 60 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
yellow sand	0	4	106	
blue clay	4	78		fresh
grey limestone	78	106		

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

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

Drilling or Boring Firm G. Charbonneau, Diamond & Cable drilling

Address R.R. 1, Box 194, Orleans, Ont.

Licence Number 3039

Name of Driller or Borer G. Charbonneau

Address Orleans, Ont.

Date 12 July 1968

Gerard Charbonneau

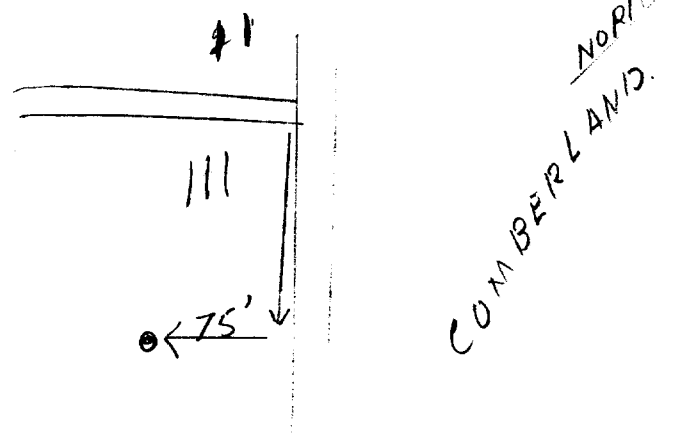
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M 60-20912

OWRC COPY

Location of Well

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



1 8 4 6 0 4 8 0
4 R 5 0 3 3 4 2 0
5 R 0 2 9 5
5

31G/5 h

1509943

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Carleton — Township, Village, Town or City: Gloucester

Con. 5F 4 — Lot: 1 — Date completed: 20 November 1968 (day month year)

[redacted] dress: Navan, Ont.

Casing and Screen Record

Inside diameter of casing: 2"

Total length of casing: 122'

Type of screen:

Length of screen:

Depth to top of screen:

Diameter of finished hole: 2"

Pumping Test

Static level: 30'

Test-pumping rate: 10 G.P.M.

Pumping level: 50'

Duration of test pumping: 4 hrs.

Water clear or cloudy at end of test: clear

Recommended pumping rate: 6 G.P.M.

with pump setting of: 50 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
yellow sand	0	5	122	fresh
blue clay	5	115		
coarse gravel	115	122		

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

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

Drilling or Boring Firm: G. Charbonneau, Diamond & Cable Drilling,

Address: R. R. 1, Box 194, Orleans, Ont.

Licence Number: 3039

Name of Driller or Borer: G. Charbonneau

Address: Orleans, Ont.

Date: 20 November 1968

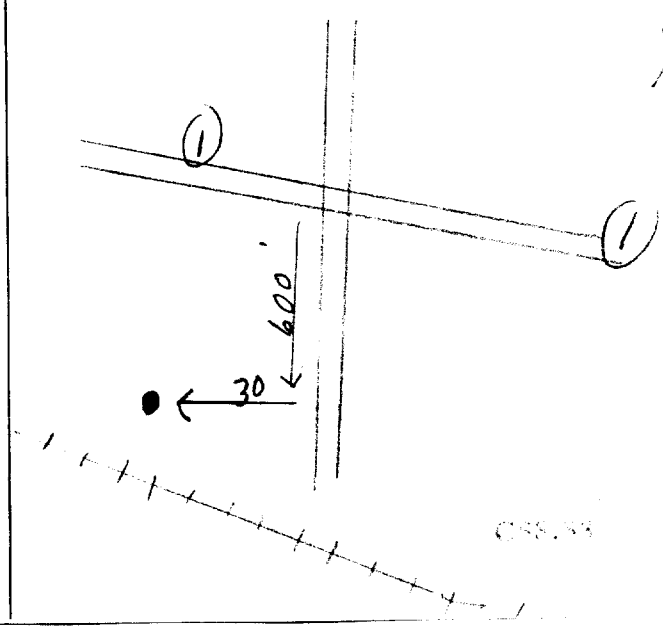
Gérard Charbonneau
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M 60-20912

OWRC COPY

Location of Well

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



CTM 1 8 2 4 6 0 6 4 0

4 R 5 0 3 3 5 4 0

ev 5 R 0 2 9 5

sin 2 5

1512851 (3 9)

~~1510703~~ (3 9)

316/64

Water management in Ontario

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Carleton

Township, Village, Town or City: Cumberland

Con. ~~1~~ 11 Lot ~~11~~ 1

Date completed: 25 (day) July (month) 1969 (year)

[redacted]ress: R. R. 1, Orléans, Ont.

Casing and Screen Record

Inside diameter of casing: 2"

Total length of casing: 148'

Type of screen:

Length of screen:

Depth to top of screen:

Diameter of finished hole: 2"

Pumping Test

Static level: 10

Test-pumping rate: 8 G.P.M.

Pumping level: 25'

Duration of test pumping: 2 hrs.

Water clear or cloudy at end of test: clear

Recommended pumping rate: 6 G.P.M.

with pump setting of: 30 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
blue clay	0	140		148'
bolders & gravel	140	144		
~~grey limestone~~	144	148		

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

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

Drilling or Boring Firm: G. Charbonneau Diamond & Cable Drilling,

Address: R. R. 2, Box 194, Orleans, Ont.

Licence Number: 3395

Name of Driller or Borer: G. Charbonneau

Address: R. R. 2, Orleans, Ont.

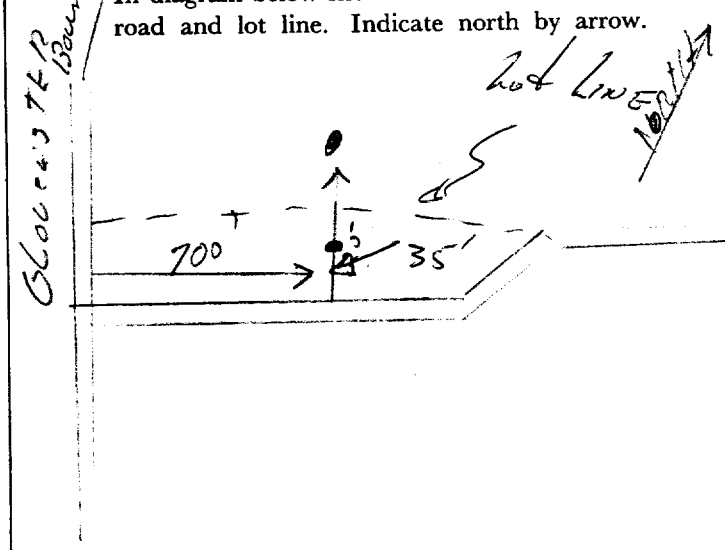
Date: 25 July 1969.

Gérard Charbonneau

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Form 7

OWRC COPY

C38.58

Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Cby-56 Blackburn B 25 Z-18 3/G/B-B

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

11 | 1514531 | MUNICIP. 150 11 | CON. CON 11

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	Cumberland, Ont.	XI	001

[redacted] R. 1, Orleans, Ont.

DATE COMPLETED: DAY 24 MO. 10 YR. 74

[redacted] HING 03349.4 RC. 4 ELEVATION 0290 RC. 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
grey	hardpan			0	16
grey	shale			16	35

31 00162114 00352117

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0035	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	188	0	0021
06	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☒ OPEN HOLE			0035
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
☒ PUMP air ☐ BAILER	0025 GPM.	01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
019 FEET	025 FEET	019 FEET	019 FEET	019 FEET	019 FEET

☐ PUMPING ☒ RECOVERY

IF FLOWING, GIVE RATE: GPM.

PUMP INTAKE SET AT: 30 FEET

WATER AT END OF TEST: ☒ CLEAR ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0025 GPM.

50-53 0012 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

ORLEANS

North

INNER ROAD

250

80

0

Gloucester Twp

Bainsville Rd.

Lot 1 CON XI

Cumberland

DRILLERS REMARKS:

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

WATER USE 02
☐ 1 DOMESTIC ☒ 2 STOCK ☐ 3 IRRIGATION ☐ 4 INDUSTRIAL ☐ OTHER ☐ 5 COMMERCIAL ☐ 6 MUNICIPAL ☐ 7 PUBLIC SUPPLY ☐ 8 COOLING OR AIR CONDITIONING ☐ 9 NOT USED

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

CONTRACTOR

NAME OF WELL CONTRACTOR: G. Charbonneau & Son Drilling Ltd — LICENCE NUMBER: 1504

ADDRESS: R. R. 2, Box 194, Orleans, Ont. K0A 2V0

NAME OF DRILLER OR BORER: L. Bourgeois — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Gerard Charbonneau — SUBMISSION DATE: DAY 24 MO. 10 YR. 74

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 1504 — DATE RECEIVED: 010175

DATE OF INSPECTION — INSPECTOR

REMARKS: CSS.58

P ✓ WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

31G 5h

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

11 1517595 MUNICIP 15011 CON. CON 11

COUNTY OR DISTRICT: ~~PRESCOTT RUSSELL~~ OTT, CARLETON
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: CUMBERLAND
CON. BLOCK TRACT SURVEY ETC: 11
LOT: 001
[redacted]ARAND GARAGE) RR2 ORLEAN
DATE COMPLETED: DAY 14 MO 07 YR 81
[redacted]33299 RC 4 ELEVATION 0295 RC 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
RED	CLAY			0	9
BROWN	HARD PAN			9	21
GREY	LIMESTONE			21	29

31 6009705 0021614 6029215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0028	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
~~4~~ 06	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0021
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)

71 PUMPING TEST

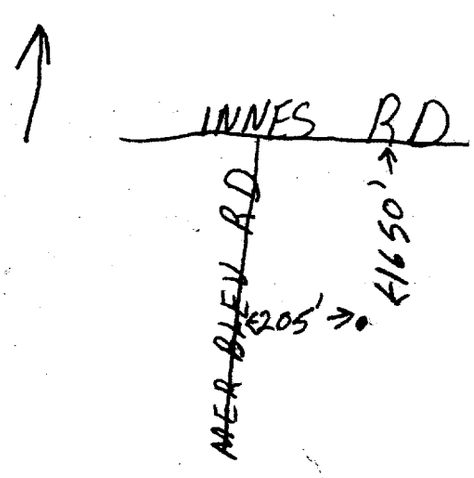
PUMPING TEST METHOD: 1 ☐ PUMP 2 ☑ BAILER
PUMPING RATE: 0050 GPM
DURATION OF PUMPING: 01 HOURS 40 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☒ PUMPING 2 ☐ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
004 FEET	010 FEET	010 FEET	010 FEET	010 FEET	010 FEET

IF FLOWING GIVE RATE: GPM
PUMP INTAKE SET AT: 22 FEET
WATER AT END OF TEST: 1 ☐ CLEAR 2 ☑ CLOUDY
RECOMMENDED PUMP TYPE: ☑ SHALLOW ☐ DEEP
RECOMMENDED PUMP SETTING: 022 FEET
RECOMMENDED PUMPING RATE: 0010 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

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

WATER USE 01
1 ☑ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

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

CONTRACTOR

NAME OF WELL CONTRACTOR: ~~YVON GENIER WELL DRILLING~~ — LICENCE NUMBER: 2351
ADDRESS: RR4 CASSELMAN
NAME OF DRILLER OR BORER: YVON GENIER — LICENCE NUMBER: 2351
SIGNATURE OF CONTRACTOR: Yvon Genier — SUBMISSION DATE: DAY 14 MO. 7 YR 81

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 2351 — DATE RECEIVED: 010981
DATE OF INSPECTION — INSPECTOR: OP/LM
REMARKS: SSS. GS

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

31G 5h

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 1518057 MUNICIP. 15011 CON. CAN 11

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON BLOCK TRACT, SURVEY, ETC	LOT 25-27
OTTAWA-CARLETON	CUMBERLAND	11	001

[redacted] RR2 ORLEAN Box 465

DATE COMPLETED 48-53: DAY 04 MO 10 YR 82

UTM 33499 RC 4 ELEVATION 0290 RC 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
RED	CLAY			0	17
BLACK	GRAVEL			17	20
BLACK	SHALE			20	24

31 0017705 0020811 0024817

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13: 022	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
15-18	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
20-23	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
25-28	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
30-33	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
10-11: ~~6 1/4~~ 06	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	12: 1.88	13-16: 0	0020
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	19		20-23
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	26		27-30

SCREEN

SIZE (S) OF OPENING SLOT NO.	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN 41-44 FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☑ BAILER

PUMPING RATE 10-14: 0020 GPM

DURATION OF PUMPING 15-16 HOURS: 01 17-18 MINS: 55

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☒ PUMPING 2 ☐ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
19-21: 010 FEET	22-24: 019 FEET	26-28: 019 FEET	29-31: 019 FEET	32-34: 019 FEET	35-37: 019 FEET

IF FLOWING, GIVE RATE 38-41: GPM

PUMP INTAKE SET AT: 21 FEET

WATER AT END OF TEST 42: 1 ☐ CLEAR 2 ☑ CLOUDY

RECOMMENDED PUMP TYPE: ☑ SHALLOW ☐ DEEP

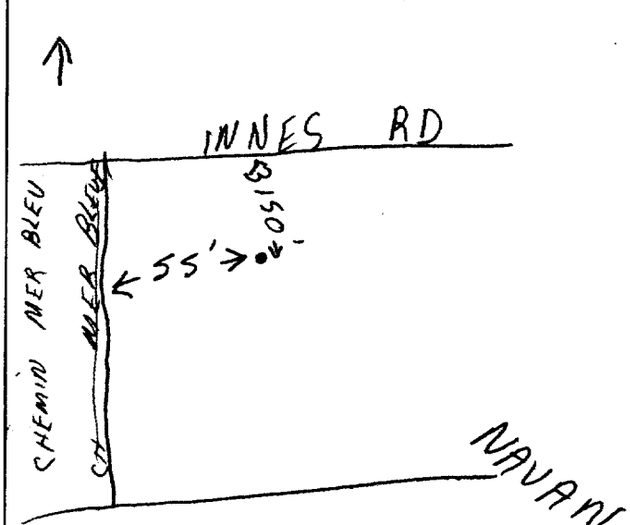
RECOMMENDED PUMP SETTING 43-45: 021 FEET

RECOMMENDED PUMPING RATE 46-49: 0010 GPM

50-53

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

FINAL STATUS OF WELL 54: 1 ☑ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 55-56: 01 — 1 ☑ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 57: 1 ☑ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: YVON GENIER WELL DRILLING — LICENCE NUMBER: 2351

ADDRESS: RR4 CASSELMAN KOA-1MO

NAME OF DRILLER OR BORER: YVON GENIER — LICENCE NUMBER: 2351

SIGNATURE OF CONTRACTOR: Yvon Genier — SUBMISSION DATE: DAY 4 MO. 10 YR. 82

OFFICE USE ONLY

DATA SOURCE 58: 1 — CONTRACTOR 59-62: 2351 — DATE RECEIVED 63-68: 170183 — 80

DATE OF INSPECTION — INSPECTOR: OP/Lm

REMARKS: CSS.GS

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ontario — Ministry of Environment and Energy

The Ontario Water Resources Act
WATER WELL RECORD

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

11 — 1533666 — Municipality 15011 — Con. CON

County or District	Township/Borough/City/Town/Village	Con. / block / tract / survey, etc.	Lot
[redacted]	CUMBERLAND	11 PT LOT	1
	Address of Well Location: 2139 MER BLUE	Date completed: 15 (day) 11 (month) 02 (year)	

21 — UTM: Zone | Easting | Northing | RC | Elevation | RC | Basin Code | ii | iii | iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
		THIS DOCUMENT IS TO INFORM			
		THAT THE WELL CASING HAS BEEN			
		EXTENDED ABOVE THE GROUND SURFACE.			
		THIS IS AN ATTACHMENT TO THE			
		ORIGINAL WELL RECORD WHICH			
		MAY OR MAY NOT EXIST			

31

32

41 WATER RECORD

Water found at - feet	Kind of water
10-13	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas 14
15-18	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas 19
20-23	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas 24
25-28	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas 29
30-33	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas 34 60

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
10-11 6"	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic 12			13-16
17-18	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic 19			20-23
24-25	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic 26			27-30

SCREEN

Sizes of opening (Slot No.) 31-33	Diameter 34-38 inches	Length 39-40 feet
Material and type	Depth at top of screen 41-44 feet	30

61 PLUGGING & SEALING RECORD

☐ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
10-13	14-17	
18-21	22-25	
26-29	30-33	60

71 PUMPING TEST

Pumping test method 10: 1 ☐ Pump 2 ☐ Bailer

Pumping rate 11-14 GPM

Duration of pumping 15-16 Hours 17-18 Mins

Static level	Water level end of pumping	Water levels during 25: 1 ☐ Pumping 2 ☐ Recovery			
19-21 feet	22-24 feet	15 minutes 26-28 feet	30 minutes 29-31 feet	45 minutes 32-34 feet	60 minutes 35-37 feet

If flowing give rate 38-41 GPM

Pump intake set at feet

Water at end of test 42: ☐ Clear ☐ Cloudy

Recommended pump type: ☐ Shallow ☐ Deep

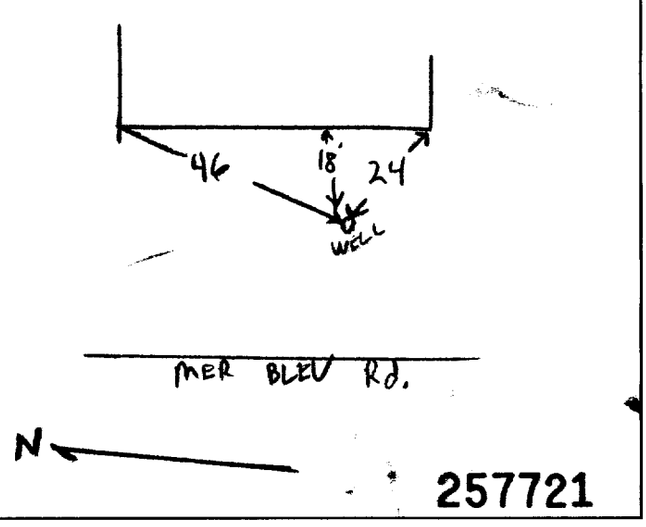
Recommended pump setting 43-45 feet

Recommended pump rate 46-49 GPM

50-53

LOCATION OF WELL

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



257721

FINAL STATUS OF WELL 54

1 ☐ Water supply
2 ☐ Observation well
3 ☐ Test hole
4 ☐ Recharge well
5 ☐ Abandoned, insufficient supply
6 ☐ Abandoned, poor quality
7 ☐ Abandoned (Other)
8 ☐ Dewatering
9 ☐ Unfinished
10 ☐ Replacement well

WATER USE 55-56

1 ☐ Domestic
2 ☐ Stock
3 ☐ Irrigation
4 ☐ Industrial
5 ☐ Commercial
6 ☐ Municipal
7 ☐ Public supply
8 ☐ Cooling & air conditioning
9 ☐ Not use
10 ☐ Other

METHOD OF CONSTRUCTION 57

1 ☐ Cable tool
2 ☐ Rotary (conventional)
3 ☐ Rotary (reverse)
4 ☐ Rotary (air)
5 ☐ Air percussion
6 ☐ Boring
7 ☐ Diamond
8 ☐ Jetting
9 ☐ Driving
10 ☐ Digging
11 ☒ Other WELL CASING EXTENSION

Name of Well Contractor	Well Contractor's Licence No.
AQUA PUMP SERVICE	6907
Address: 5555 FERNBANK Rd. STITTSVILLE	
Name of Well Technician: Barry Weld	Well Technician's Licence No.: T-2489
Signature of Technician/Contractor	Submission date: 26 (day) 03 (mo) 03 (yr)

MINISTRY USE ONLY

Data source 58	Contractor 59-62	Date received 63-68	80
	6907	APR 08 2003	
Date of inspection	Inspector		
Remarks			

CSS.ES3

2 - MINISTRY OF ENVIRONMENT AND ENERGY COPY

0506 (06/02) Front Form 9

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

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

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

Go Back to Map

Well ID

Well ID Number: 7419133
Well Audit Number: *Z353528*
Well Tag Number: *A298348*
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	CUMBERLAND TOWNSHIP
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 461010.00 Northing: 5033580.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

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

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7659

Results of Well Yield Testing

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

Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	**Draw Down Water level**	**Recovery Time(min)**	**Recovery Water level**
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	

25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z353528

Date Well Completed: April 22, 2022

Date Well Record Received by MOE: May 31, 2022

Related

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

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

Updated: January 10, 2024
Published: March 20, 2014

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

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

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

Go Back to Map

Well ID

Well ID Number: 7432027
Well Audit Number: *Z394302*
Well Tag Number: *A355525*
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	CUMBERLAND TOWNSHIP
Lot	001

Concession	CON 11
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 460988.00 Northing: 5033841.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

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

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6964

Results of Well Yield Testing

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

Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	**Draw Down Water level**	**Recovery Time(min)**	**Recovery Water level**
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	

25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z394302

Date Well Completed: October 04, 2022

Date Well Record Received by MOE: October 21, 2022

Related

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

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

Updated: January 10, 2024
Published: March 20, 2014

Joshua Dempsey

From: Public Information Services <publicinformationservices@tssa.org>
Sent: July 23, 2024 1:29 PM
To: Joshua Dempsey
Subject: RE: Search Records Request (PE6469)

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 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 publicinformationservices@tssa.org.

Warm regards,

Connie Hill | Public Information Agent
Public Information
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1 416-734-3383 | Fax: +1 416-734-3568 | E-Mail: chill@tssa.org
www.tssa.org

Winner of 2024 5-Star Safety Cultures Award

From: Joshua Dempsey <JDempsey@patersongroup.ca>
Sent: Tuesday, July 23, 2024 11:48 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Search Records Request (PE6469)

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

Good Morning,

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

Mer Bleue Road: 2025, 2035
Roger-Pharand Street: 5000
Noëlla Leclair Way: 1001, 1045
Innes Road: 4025, 4030, 4042, 4100, 4140

Cheers,

PATERSON GROUP
SOLUTION ORIENTED ENGINEERING

JOSHUA DEMPSEY, B.Sc.
JUNIOR ENVIRONMENTAL INSPECTOR

TEL: (613) 226-7381 ext. 108
DIRECT: (343) 996-3150

9 AURIGA DRIVE
OTTAWA ON K2E 7T9

patersongroup.ca

TEMPORARY SHORING DESIGN SERVICES ARE NOW AVAILABLE, PLEASE CONTACT US TO SEE HOW WE CAN HELP! GREATER TORONTO AREA OFFICE IS CELEBRATING ITS FIRST YEAR ANNIVERSARY, PLEASE CHECK OUT OUR EXPANSIVE LIST OF SERVICES NOW AVAILABLE!

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

File Number: D06-03-24-0102

November 1, 2024

Joshua Dempsey
Paterson Group

Sent via email jdempsey@patersongroup.ca

Dear Joshua Dempsey,

Re: Information Request
Part of 2025 Mer Bleue Road Ottawa, Ontario ("Subject Property")

Internal Department Circulation:

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

- **Environmental Remediation Unit:** The City's Environmental Remediation Unit (ERU) has a Phase I Environmental Site Assessment for this property (Paterson, 2016). Please contact ERU-UAE@ottawa.ca to obtain a copy of the report if required.

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

- **Sewer Use Program:** The City's Sewer Use Program has found the following information pertaining to the subject property: Violations of regulations or bylaws.

- **Solid Waste Services:** No records found for this property.

Documents Provided:

HLUI Summary Report and HLUI Map

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

For more information on how to interpret the HLUI data identified in the attached excel sheet ('ADDRESS – HLUI Summary report.xlsx'), please refer to the Overview and User Guide."

Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at https://ero.ontario.ca/ contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

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

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

Ottawa Public Health

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

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

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

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

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

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

Sincerely,

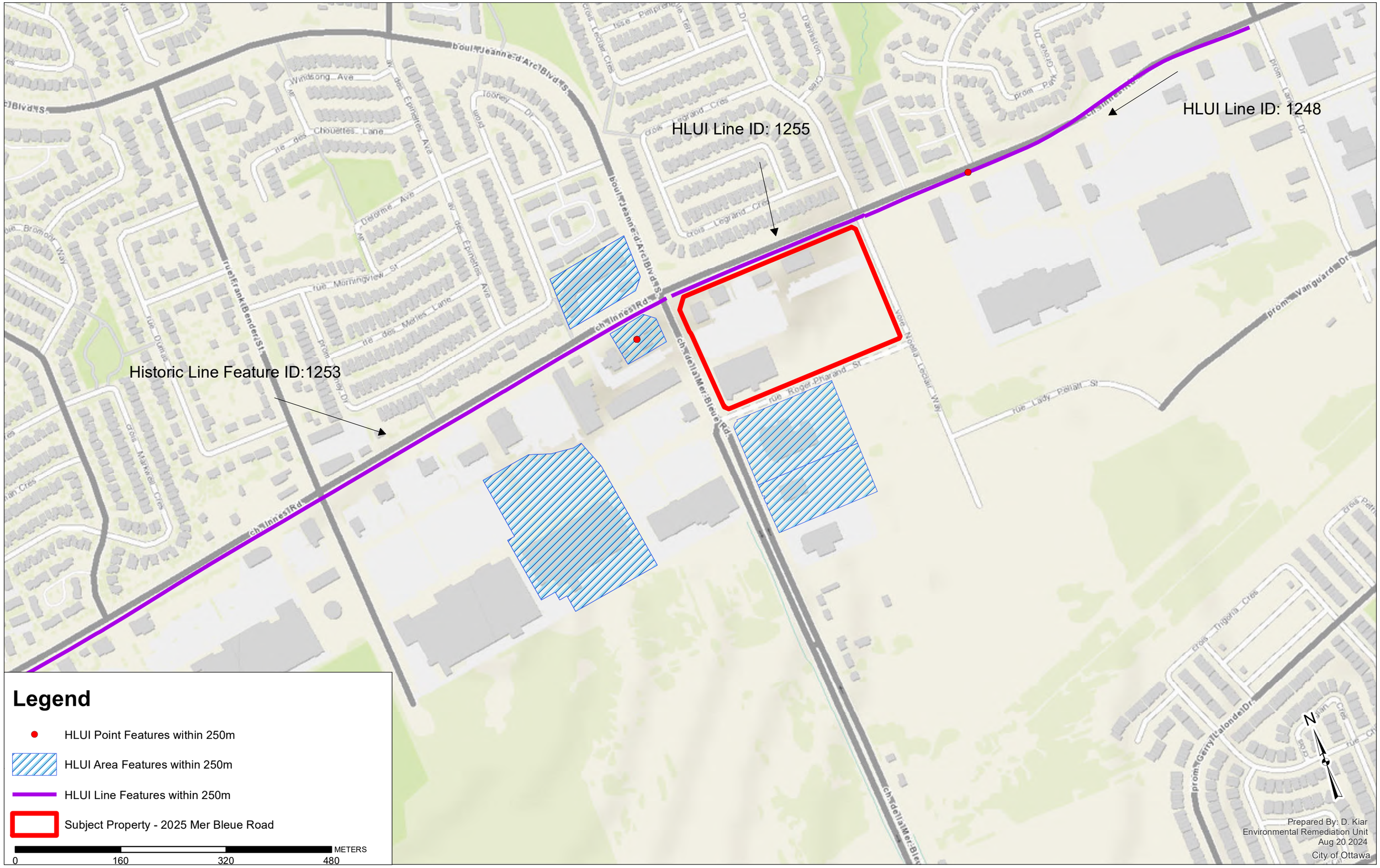
Matthew Steeves
Student Planner
Development Review
Planning, Development and Building Services Department

Enclosures: (2)

1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-24-0102

HISTORIC LAND USE INVENTORY (HLUI) - REPORT REFERENCE MAP



OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	SOURCE_UPDATE_SORTED	QAQC	YEAR	YEAR_1	ST_NUM	ST_NAME	ST_SUFFIX	ST_DIR	MUNICIPALITY	ST_NUM2017	ST_NAME2017	ST_SUFFIX2017	ST_DIR2017	POSTAL_CODE2017	PIN2017	MUNICIPALITY2017	NAICS	SIC	COMMENTS	STORAGE_TANK	Shape_Length	Shape_Area
12150	CANADIAN TIRE ORLEAI	Garage	2016-PID; 2017-SalesGenie	1	2016-2017	PID2016; S	3910	INNES	RD		ORLEANS	3910	INNES	RD		K1W1K9	44040521	GLOUCESTER	452991				814.8786674	39217.81822
12151	WALMART AUTO CARE (	Automobile Repairing & Se	2017-SalesGenie	1	2017	SalesGenie 2017					ORLEANS	3910	INNES	RD		K1W1K9	44040521	GLOUCESTER	81111104	Jan-38			814.8786674	39217.81822
12174	RENTALEX	Service Industries Incident	2001-ES	1	2001	c. 2001	4025	INNES	RD			4025	INNES	RD		K1C1T1	44080377	GLOUCESTER	532410				416.2546215	10394.29557
12175	GLOUCESTER CLEANEF	Laundries and Cleaners	1994-PID; 2000-PID; 2001-ES; 2(	1	1994-2006	c. 1994; c.	4025	INNES	RD		GLOUCES	4025	INNES	RD		K1C1T1	44080377	GLOUCESTER	561740; 812310	972	UNIT 11		416.2546215	10394.29557
13777	HANDSOME RAG'S CLE/	Laundries and Cleaners	2003-PID	1	2003		4025	INNES	RD		GLOUCES	4025	INNES	RD			44080377	GLOUCESTER					416.2546215	10394.29557
16102	MR GAS	Gasoline Service Stations	2001-ES; 2005-SelectPhone; 20(	1	2001-2012	c. 2005; ES	4042	INNES	RD			4042	INNES	RD		K1C1T1	44040406	GLOUCESTER	447110; 447190				239.7612791	3703.287746
16103	ESSO-OOPS	Service Stations-Gasoline	2017-SalesGenie	1	2017	SalesGenie 2017					ORLEANS	4042	INNES	RD		K1C1T1	44040406	GLOUCESTER	44719005	Jan-41		2	239.7612791	3703.287746
16350	ORLEANS TOYOTA	Automobile Dealers-New (	2017-SalesGenie	1	2017	SalesGenie 2017					ORLEANS	2035	MER-BLEUE, CHEI				1.46E+08	CUMBERLAND	44111001	Feb-11			531.0741639	16947.9888
16351	ORLEANS KIA INC	Automobile Dealers-New (	2017-SalesGenie	1	2017	SalesGenie 2017					NAVAN	2045	MER-BLEUE, CHEI				1.46E+08	CUMBERLAND	44111001	Feb-11			491.9316525	12897.64235

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	TANK_LOCATION	TANK_CONTENT	TANK_SIZE	TANK_TYPE	TANK_STATUS	SOURCE	INSTALLED_ST_NUM	INSTALLED_ST_NAME	INSTALLED_ST_ABR	INSTALLED_ST_DIR	COMMENT	MTM_X	MTM_Y	IMAGE_MAP	IMAGE_CERTAINTY	IMAGE_MAP_2	TANK_MATERIAL	TANK_ID	TANK_LEAKING	TANK_REMOVED	REMOVED_DATE	DATE_INSTALLED	NATURE_OF_BUSINESS	SCANNED_DRAWING	TEMPREcordID	CAPACITY_UOM	MUNICIPALITY	POSTCODE
1365	MR GAS LIMITED **	Gasoline Station - Self S	UST	gasoline	35000	Licensed	Active	TSSA	4042	INNES	RD			382603.5812	5035497.425				Fiberglass	ST8477				2000						
1366	MR GAS LIMITED **	Gasoline Station - Self S	UST	gasoline	35000	Licensed	Active	TSSA	4042	INNES	RD			382603.5812	5035497.425				Fiberglass	ST8478				2000						
1367	MR GAS LIMITED **	Gasoline Station - Self S	UST	gasoline	35000	Licensed	Active	TSSA	4042	INNES	RD			382603.5812	5035497.425				Fiberglass	ST8479				2000						
1368	MR GAS LIMITED **	Gasoline Station - Self S	UST	diesel	20000	Licensed	Active	TSSA	4042	INNES	RD			382603.5812	5035497.425				Fiberglass	ST8480				2000						
1369	LOBLAW PROPERTIES L	Gasoline Station - Self S	UST	gasoline	65000	Licensed	Active	TSSA	4250	INNES	RD			383106.2201	5035751.078				Fiberglass	ST8481				2005						
1370	LOBLAW PROPERTIES L	Gasoline Station - Self S	UST	diesel	65000	Licensed	Active	TSSA	4250	INNES	RD			383106.2201	5035751.078				Fiberglass	ST8482				2005						

HLUI SUMMARY REPORT
LINEAR FEATURES

OBJECTID	SOURCE	FEATURE	YEAR	COMMENT	NAME	Shape_Length
1253	Enbridge	Gas Pipeline				1175.8145
1255	Enbridge	Gas Pipeline				318.08630
1648	Enbridge	Gas Pipeline				653.39950

DATABASE REPORT

Project Property:	*Phase I ESA - Part of 2025 Mer Bleue Road* *Part of 2025 Mer Bleue Road* *Ottawa ON*
Project No:	*P.O. 60787 / PE6469*
Report Type:	*Standard Report*
Order No:	*24072300264*
Requested by:	*Paterson Group Inc.*
Date Completed:	*July 29, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents....2
Executive Summary....3
Executive Summary: Report Summary....4
Executive Summary: Site Report Summary - Project Property....7
Executive Summary: Site Report Summary - Surrounding Properties....8
Executive Summary: Summary By Data Source....10
Map....14
Aerial....15
Topographic Map....16
Detail Report....17
Unplottable Summary....40
Unplottable Report....42
Appendix: Database Descriptions....51
Definitions....61

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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

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

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

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

Executive Summary

Property Information:

Project Property:	*Phase I ESA - Part of 2025 Mer Bleue Road* *Part of 2025 Mer Bleue Road Ottawa ON*
Project No:	*P.O. 60787 / PE6469*

Coordinates:

Latitude:	*45.4553488*
Longitude:	*-75.5011511*
UTM Northing:	*5,033,658.04*
UTM Easting:	*460,815.74*
UTM Zone:	*18T*

Elevation:	*278 FT* *84.64 M*

Order Information:

Order No:	*24072300264*
Date Requested:	*July 23, 2024*
Requested by:	*Paterson Group Inc.*
Report Type:	*Standard Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	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	0	0
CA	Certificates of Approval	Y	0	2	2
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	1	1
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	4	4
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	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	1	1
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	2	2
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
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
NPCB	National PCB Inventory	Y	0	0	0
NPR2	National Pollutant Release Inventory 1993-2020	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
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
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	3	3
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	6	6

Database	Name	Searched	Project Property	Within 0.25 km	Total
		Total:	0	24	24

Executive Summary: Site Report Summary - Project Property

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

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	EHS		3900 Innes Rd Orléans ON K1W 1K9	W/25.1	-0.36	17
2	WWIS		lot 1 con 11 ON ***Well ID:*** 1514531	NW/82.7	2.09	17
3	SPL	City of Ottawa	Corner of Innis Rd. & Wildflower Rd. <UNOFFICIAL> Ottawa ON	N/158.4	-0.68	20
3	HINC		INTERSECTION OF INNES ROAD & WILDFLOWER DRIVE OTTAWA ON	N/158.4	-0.68	21
4	WWIS		lot 1 con 11 ON ***Well ID:*** 1517595	SW/161.8	-0.32	21
5	WWIS		lot 1 con 11 ON ***Well ID:*** 1512847	W/170.0	5.04	24
6	WWIS		lot 1 con 11 ON ***Well ID:*** 1512851	WNW/178.4	6.03	27
7	SPL		2035 Mer Bleue Rd Ottawa ON NA	SW/194.7	0.47	30
8	WWIS		lot 1 con 11 ON ***Well ID:*** 1518057	WNW/196.3	6.01	30
9	EASR	SMARTREIT (ORLEANS II) INC.	2025 MER BLEUE RD ORLEANS ON K4A 3T9	WSW/202.8	-0.22	33
9	ECA	SmartREIT (Orleans II) Inc.	2025 Mer Bleue Rd Ottawa ON L4K 5X3	WSW/202.8	-0.22	34
10	WWIS		ON	ESE/209.4	1.83	34

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7419133			
11	HINC		2067 WILDFLOWER DRIVE OTTAWA ON K1E 3R3	N/217.5	-1.19	35
12	EHS		3900 Innes Rd Orléans ON K1W 1K9	SE/218.5	2.26	35
13	EHS		3900 Innes Rd Orléans ON K1W 1K9	SE/220.2	1.96	36
14	GEN	CREPIN CARTAGE	4100 INNES RD OTTAWA ON K4A 3W9	W/225.4	5.31	36
14	ECA	Innes Shopping Centres Limited	4100 Innes Rd Ottawa ON L4K 5X3	W/225.4	5.31	36
14	ECA	Innes Shopping Centres Limited	4100 Innes Rd Ottawa ON L4K 5X3	W/225.4	5.31	36
15	CA	G. Lemay Construction (1998) Inc.	4195 and 4199 Innes Road Ottawa ON	NE/226.9	-1.44	37
15	CA	G. Lemay Construction (1998) Inc.	4195 and 4199 Innes Road Ottawa ON	NE/226.9	-1.44	37
15	ECA	G. Lemay Construction (1998) Inc.	4191 Innes Rd 4195 and 4199 Innes Rd Ottawa ON K1J 9C2	NE/226.9	-1.44	37
15	ECA	G. Lemay Construction (1998) Inc.	4191 Innes Rd 4195 and 4199 Innes Rd Ottawa ON K1J 9C2	NE/226.9	-1.44	38
16	SPL	Robert Pickard Env Centre Water Pollution Control Plant ROPEC	4210 innes road OTTAWA ON	NE/231.7	-1.49	38
17	EHS		Vangaurd Dr Ottawa ON	ESE/240.5	2.72	39

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
G. Lemay Construction (1998) Inc.	4195 and 4199 Innes Road Ottawa ON	NE	226.88	15
G. Lemay Construction (1998) Inc.	4195 and 4199 Innes Road Ottawa ON	NE	226.88	15

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Apr 30, 2024 has found that there are 1 EASR site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
SMARTREIT (ORLEANS II) INC.	2025 MER BLEUE RD ORLEANS ON K4A 3T9	WSW	202.76	9

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Apr 30, 2024 has found that there are 5 ECA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Innes Shopping Centres Limited	4100 Innes Rd Ottawa ON L4K 5X3	W	225.44	14
Innes Shopping Centres Limited	4100 Innes Rd Ottawa ON L4K 5X3	W	225.44	14

Lower Elevation	Address	Direction	Distance (m)	Map Key
SmartREIT (Orleans II) Inc.	2025 Mer Bleue Rd Ottawa ON L4K 5X3	WSW	202.76	9

G. Lemay Construction (1998) Inc.	4191 Innes Rd 4195 and 4199 Innes Rd Ottawa ON K1J 9C2	NE	226.88	15
G. Lemay Construction (1998) Inc.	4191 Innes Rd 4195 and 4199 Innes Rd Ottawa ON K1J 9C2	NE	226.88	15

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 31, 2024 has found that there are 4 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	3900 Innes Rd Orléans ON K1W 1K9	SE	218.46	12
	3900 Innes Rd Orléans ON K1W 1K9	SE	220.23	13
	Vangaurd Dr Ottawa ON	ESE	240.48	17

Lower Elevation	Address	Direction	Distance (m)	Map Key
	3900 Innes Rd Orléans ON K1W 1K9	W	25.07	1

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 1 GEN site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
CREPIN CARTAGE	4100 INNES RD OTTAWA ON K4A 3W9	W	225.44	14

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 2 HINC site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
	INTERSECTION OF INNES ROAD & WILDFLOWER DRIVE OTTAWA ON	N	158.39	3
	2067 WILDFLOWER DRIVE OTTAWA ON K1E 3R3	N	217.49	11

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2023; see description has found that there are 3 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	2035 Mer Bleue Rd Ottawa ON NA	SW	194.68	7

Lower Elevation	Address	Direction	Distance (m)	Map Key
City of Ottawa	Corner of Innis Rd. & Wildflower Rd. <UNOFFICIAL> Ottawa ON	N	158.39	3
Robert Pickard Env Centre Water Pollution Control Plant ROPEC	4210 innes road OTTAWA ON	NE	231.75	16

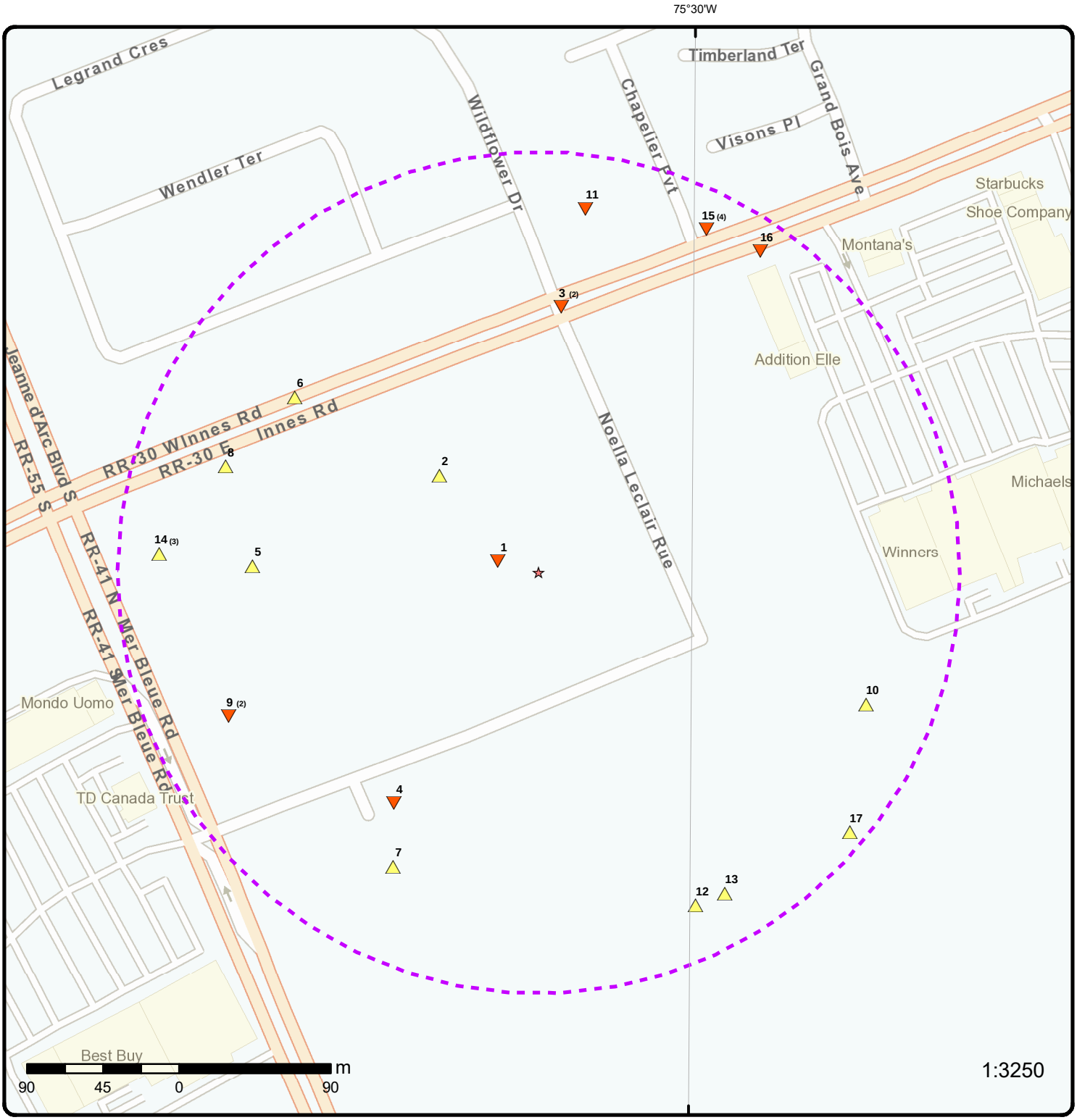
WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31 2023 has found that there are 6 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 1 con 11 ON ***Well ID:*** 1514531	NW	82.66	2
	lot 1 con 11 ON ***Well ID:*** 1512847	W	169.99	5

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 1 con 11 ON ***Well ID:*** 1512851	WNW	178.37	6
	lot 1 con 11 ON ***Well ID:*** 1518057	WNW	196.31	8
	ON ***Well ID:*** 7419133	ESE	209.35	10

Lower Elevation	Address	Direction	Distance (m)	Map Key
	lot 1 con 11 ON ***Well ID:*** 1517595	SW	161.76	4



Map: 0.25 Kilometer Radius

Order Number: 24072300264

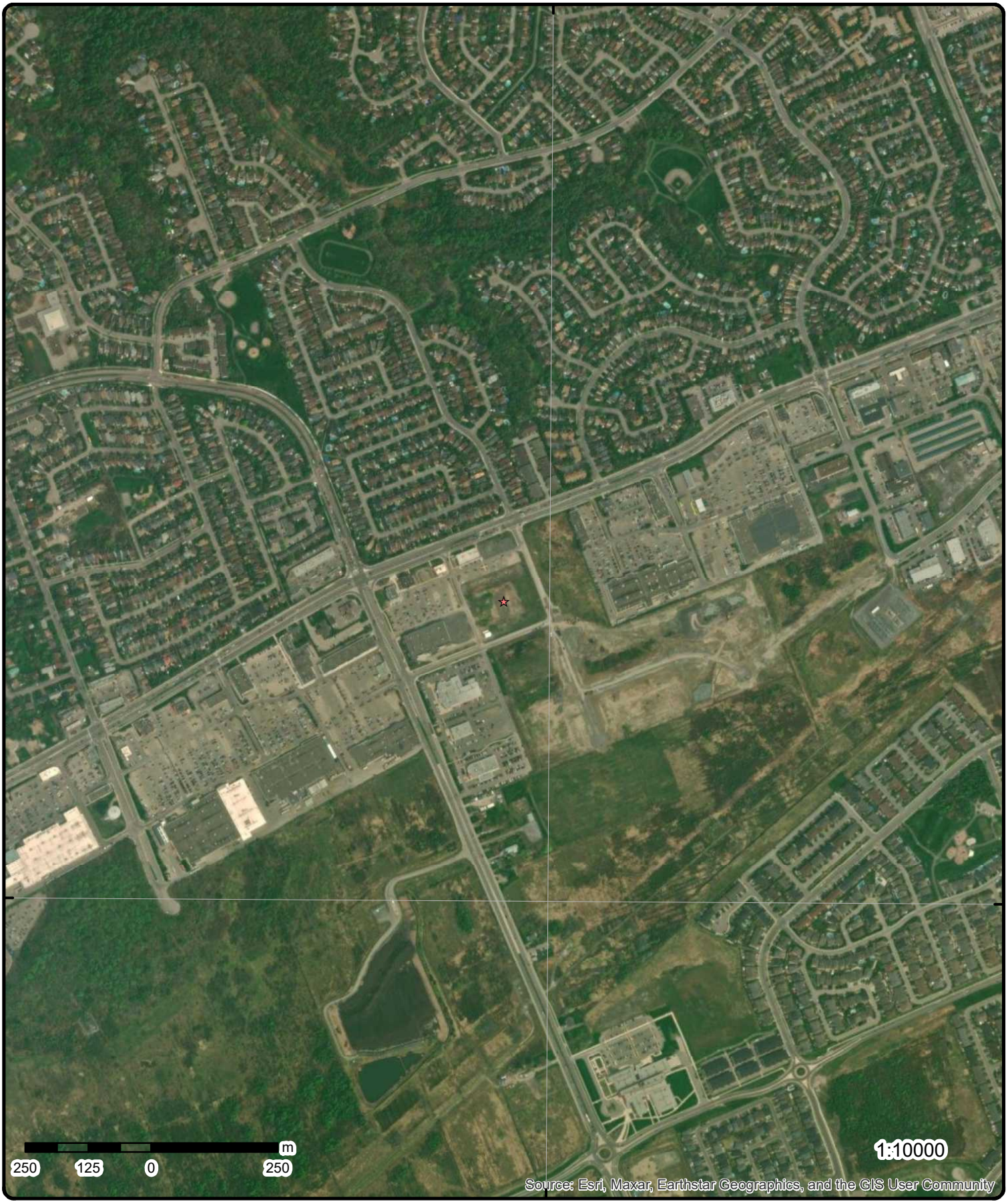
Address: Part of 2025 Mer Bleue Road, Ottawa, ON

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

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership

75°30'W



Aerial

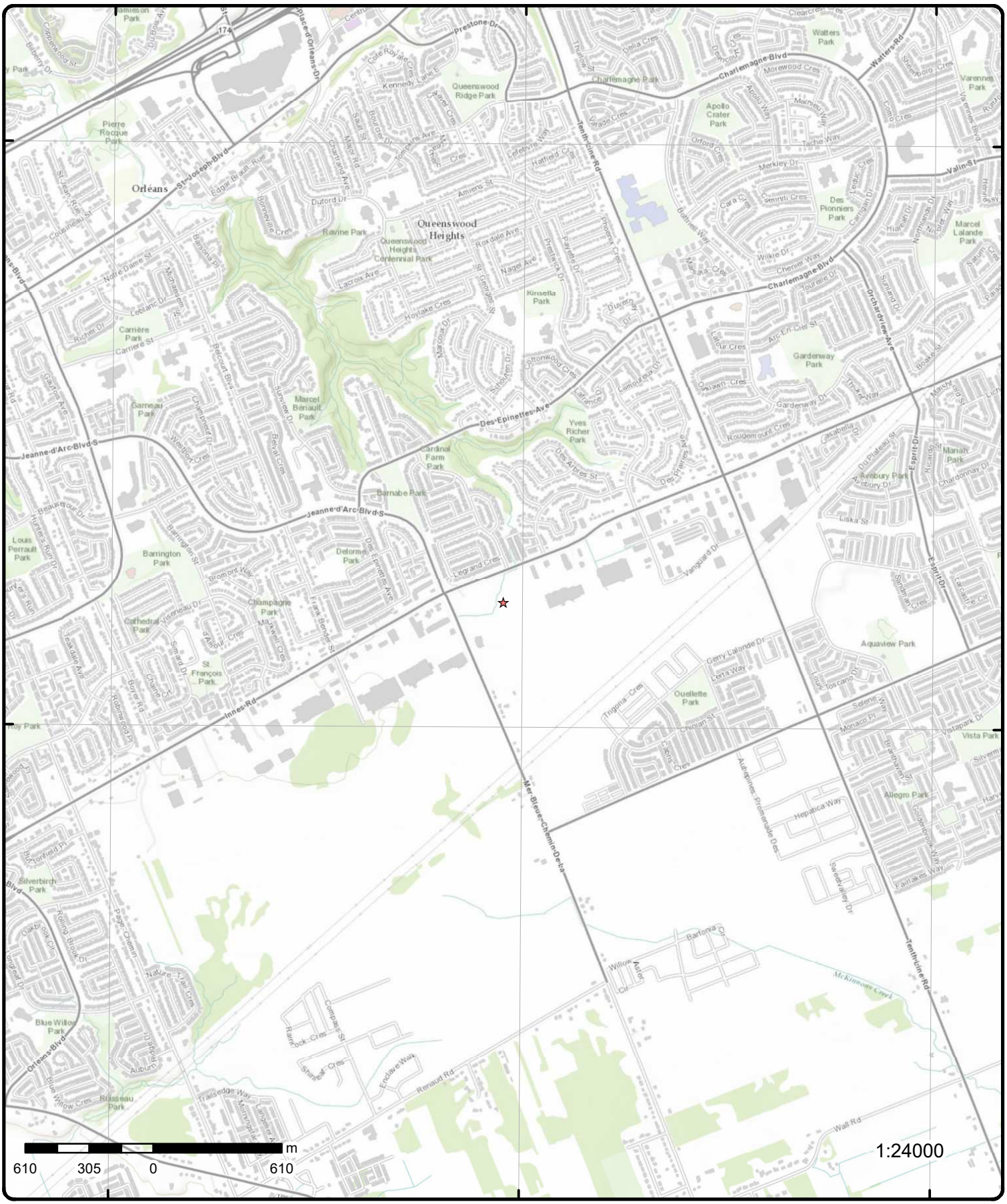
Year: 2023

Order Number: 24072300264

Address: Part of 2025 Mer Bleue Road, Ottawa, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 24072300264

Address: Part of 2025 Mer Bleue Road, ON

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	W/25.1	84.3 / -0.36	3900 Innes Rd Orléans ON K1W 1K9	EHS

Order No:	22013100336	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	03-FEB-22	**Search Radius (km):**	.25
Date Received:	31-JAN-22	**X:**	-75.5014607
Previous Site Name:		**Y:**	45.4554074
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	NW/82.7	86.7 / 2.09	lot 1 con 11 ON	WWIS

Well ID:	1514531	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Livestock	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	01/01/1975
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	1504
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	11
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	CUMBERLAND TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1514531.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/24/1974
Year Completed:	1974
Depth (m):	10.668
Latitude:	45.4558671706078
Longitude:	-75.5019095144469
X:	-75.50190935135038
Y:	45.45586716397134
Path:	151\1514531.pdf

Bore Hole Information

Bore Hole ID:	10036504	**Elevation:**	
DP2BR:		**Elevrc:**	

Spatial Status:		***Zone:***	18
Code OB:		***East83:***	460756.80
Code OB Desc:		***North83:***	5033716.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/24/1974	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Location Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931026509
Layer:	2
Color:	2
General Color:	GREY
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	16.0
Formation End Depth:	35.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931026508
Layer:	1
Color:	2
General Color:	GREY
Material 1:	14
Material 1 Desc:	HARDPAN
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	16.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961514531
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	10585074
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	930064514
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	35.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930064513
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	21.0
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:	991514531
Pump Set At:	
Static Level:	19.0
Final Level After Pumping:	25.0
Recommended Pump Depth:	30.0
Pumping Rate:	25.0
Flowing Rate:	
Recommended Pump Rate:	25.0
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

Draw Down & Recovery

Pump Test Detail ID:	934382962
Test Type:	Recovery
Test Duration:	30
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934901419
Test Type:	Recovery
Test Duration:	60
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934643533
Test Type:	Recovery
Test Duration:	45
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934100363
Test Type:	Recovery
Test Duration:	15
Test Level:	19.0
Test Level UOM:	ft

Water Details

Water ID:	933470410
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	35.0
Water Found Depth UOM:	ft

3	***1 of 2***	***N/158.4***	***84.0 / -0.68***	***City of Ottawa*** ***Corner of Innis Rd. & Wildflower Rd.*** ***<UNOFFICIAL>*** ***Ottawa ON***	***SPL***

Ref No:	4507-7BPKXN	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:		***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	2/10/2008	***Impact to Health:***	
Dt Document Closed:	3/28/2008	***Agency Involved:***	

Site No:	
MOE Response:	No Field Response
Site County/District:	
Site Geo Ref Meth:	
Site District Office:	Ottawa
Nearest Watercourse:	
Site Name:	Corner of Innis Rd. & Wildflower Rd.<UNOFFICIAL>
Site Address:	
Site Region:	
Site Municipality:	Ottawa
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	Other Discharges
Incident Preceding Spill:	
Environment Impact:	Confirmed
Health Env Consequence:	
Nature of Impact:	Soil Contamination
Contaminant Qty:	250 L
System Facility Address:	
Client Name:	City of Ottawa
Client Type:	
Source Type:	

Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	
Incident Reason:	Equipment/Vehicles
Incident Summary:	250 L diesel from snowplow to grnd, c/b. Cleaning.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Other Motor Vehicle
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

3	2 of 2	N/158.4	84.0 / -0.68	INTERSECTION OF INNES ROAD & WILDFLOWER DRIVE OTTAWA ON	HINC

External File Num:	FS INC 0712-07673
Fuel Occurrence Type:	Pipeline Strike
Date of Occurrence:	12/7/2007
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Private Dwelling
Service Interruptions:	Yes
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:No E
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

4	1 of 1	SW/161.8	84.3 / -0.32	lot 1 con 11 ON	WWIS

Well ID:	1517595	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	09/01/1981
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	2351
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	11
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	

Clear/Cloudy:
UTM Reliability:
Municipality: CUMBERLAND TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1517595.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/14/1981
Year Completed: 1981
Depth (m): 8.8392
Latitude: 45.4541104849704
Longitude: -75.5022392429092
X: -75.50223908070922
Y: 45.454110477973344
Path: 151\1517595.pdf

Bore Hole Information

Bore Hole ID: 10039467
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 07/14/1981
Remarks:
Location Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 460729.80
North83: 5033521.00
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 931035680
Layer: 3
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 21.0
Formation End Depth: 29.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931035678
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY

Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	9.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931035679
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	14
Material 1 Desc:	HARDPAN
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	9.0
Formation End Depth:	21.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961517595
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10588037
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930069006
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	21.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991517595
Pump Set At:	
Static Level:	4.0
Final Level After Pumping:	10.0
Recommended Pump Depth:	22.0
Pumping Rate:	50.0
Flowing Rate:	

Recommended Pump Rate:	10.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	40
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934102126
Test Type:	Draw Down
Test Duration:	15
Test Level:	10.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934645849
Test Type:	Draw Down
Test Duration:	45
Test Level:	10.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934895124
Test Type:	Draw Down
Test Duration:	60
Test Level:	10.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934376014
Test Type:	Draw Down
Test Duration:	30
Test Level:	10.0
Test Level UOM:	ft

Water Details

Water ID:	933474096
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	28.0
Water Found Depth UOM:	ft

5	***1 of 1***	***W/170.0***	***89.7 / 5.04***	***lot 1 con 11 ON***	***WWIS***

Well ID:	1512847	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Livestock	***Data Entry Status:***	
Use 2nd:	Domestic	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	02/20/1962
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	

Audit No:		***Contractor:***	1504
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	001
Depth to Bedrock:		***Concession:***	11
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	CUMBERLAND TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1512847.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/13/1961
Year Completed:	1961
Depth (m):	14.6304
Latitude:	45.4553748776158
Longitude:	-75.5033247942408
X:	-75.50332463138079
Y:	45.455374871062666
Path:	151\1512847.pdf

Bore Hole Information

Bore Hole ID:	10034835	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	460645.80
Code OB Desc:		***North83:***	5033662.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	11/13/1961	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Location Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931021717
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	18.0
Formation End Depth:	48.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931021716
Layer:	1
Color:	3
General Color:	BLUE
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	18.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961512847
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10583405
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930061702
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930061703
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	48.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991512847
Pump Set At:	

Static Level:	3.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	20.0
Pumping Rate:	12.0
Flowing Rate:	
Recommended Pump Rate:	12.0
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

Water Details

Water ID:	933468337
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	48.0
Water Found Depth UOM:	ft

6 | **1 of 1** | **WNW/178.4** | **90.7 / 6.03** | **lot 1 con 11 ON** | **WWIS**

Well ID:	1512851	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	07/30/1970
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	1504
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	11
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	CUMBERLAND TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1512851.pdf

Additional Detail(s) (Map)

Well Completed Date:	07/25/1969
Year Completed:	1969
Depth (m):	45.1104
Latitude:	45.4562763718515
Longitude:	-75.503013068857
X:	-75.50301290702144
Y:	45.456276364956295
Path:	151\1512851.pdf

Bore Hole Information

Bore Hole ID:	10034839	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	460670.80
Code OB Desc:		**North83:**	5033762.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	07/25/1969	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4

Location Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931021725
Layer: 1
Color: 3
General Color: BLUE
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 140.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931021727
Layer: 3
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 144.0
Formation End Depth: 148.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931021726
Layer: 2
Color:
General Color:
Material 1: 13
Material 1 Desc: BOULDERS
Material 2: 11
Material 2 Desc: GRAVEL

Material 3:	
Material 3 Desc:	
Formation Top Depth:	140.0
Formation End Depth:	144.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961512851
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10583409
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930061710
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	148.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991512851
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	25.0
Recommended Pump Depth:	30.0
Pumping Rate:	8.0
Flowing Rate:	
Recommended Pump Rate:	6.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933468341
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	148.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	1 of 1	SW/194.7	85.1 / 0.47	2035 Mer Bleue Rd Ottawa ON NA	SPL

Ref No:	6037-B9RW4K	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	2/26/2019	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	2/26/2019	**Impact to Health:**	2 - Minor Environment
Dt Document Closed:	3/5/2019	**Agency Involved:**	

Site No:	5277-8UEHH8
MOE Response:	No
Site County/District:	NA
Site Geo Ref Meth:	NA
Site District Office:	Ottawa
Nearest Watercourse:	
Site Name:	2035 Mer Bleue Road
Site Address:	2035 Mer Bleue Rd
Site Region:	Eastern
Site Municipality:	Ottawa
Site Lot:	
Site Conc:	NA
Site Geo Ref Accu:	NA
Site Map Datum:	NA
Northing:	5033595
Easting:	460980
Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	400 L
System Facility Address:	
Client Name:	
Client Type:	
Source Type:	Truck - Tanker
Contaminant Code:	15
Contaminant Name:	Oily Water
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	n/a
Receiving Medium:	Land
Incident Reason:	Equipment Failure
Incident Summary:	Tomlinson Env - 400L of Oily Water to Parking Lot
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Industrial
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	1 of 1	WNW/196.3	90.7 / 6.01	lot 1 con 11 ON	WWIS

Well ID:	1518057	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	01/17/1983
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	2351
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	

Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	001
Depth to Bedrock:		***Concession:***	11
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	CUMBERLAND TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1518057.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/04/1982
Year Completed:	1982
Depth (m):	7.3152
Latitude:	45.455905026363
Longitude:	-75.5035341463187
X:	-75.50353398364348
Y:	45.45590501912448
Path:	151\1518057.pdf

Bore Hole Information

Bore Hole ID:	10039928	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	460629.80
Code OB Desc:		***North83:***	5033721.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/04/1982	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Location Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931037214
Layer:	2
Color:	8
General Color:	BLACK
Material 1:	11
Material 1 Desc:	GRAVEL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	17.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931037213
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	17.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931037215
Layer:	3
Color:	8
General Color:	BLACK
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	20.0
Formation End Depth:	24.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961518057
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10588498
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930069747
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER

Pump Test ID:	991518057
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	19.0
Recommended Pump Depth:	21.0
Pumping Rate:	20.0
Flowing Rate:	
Recommended Pump Rate:	10.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	55
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934377713
Test Type:	Draw Down
Test Duration:	30
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934897238
Test Type:	Draw Down
Test Duration:	60
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934103384
Test Type:	Draw Down
Test Duration:	15
Test Level:	19.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934647547
Test Type:	Draw Down
Test Duration:	45
Test Level:	19.0
Test Level UOM:	ft

Water Details

Water ID:	933474685
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	22.0
Water Found Depth UOM:	ft

9	***1 of 2***	***WSW/202.8***	***84.4 / -0.22***	***SMARTREIT (ORLEANS II) INC.*** ***2025 MER BLEUE RD*** ***ORLEANS ON K4A 3T9***	***EASR***

Approval No:	R-009-1110141098	**MOE District:**	Ottawa
Status:	REGISTERED	**Municipality:**	ORLEANS
Date:	2017-05-25	**Latitude:**	45.45527778
Record Type:	EASR	**Longitude:**	-75.50444444
Link Source:	MOFA	**Geometry X:**	
Project Type:	Water Taking - Construction Dewatering	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Water Taking - Construction Dewatering		
SWP Area Name:	Rideau Valley		
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

9	2 of 2	WSW/202.8	84.4 / -0.22	SmartREIT (Orleans II) Inc. 2025 Mer Bleue Rd Ottawa ON L4K 5X3	ECA

Approval No:	2850-APPHSQ	**MOE District:**	
Approval Date:	2017-07-31	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	SmartREIT (Orleans II) Inc.		
Address:	2025 Mer Bleue Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5919-ANYR4V-14.pdf		
PDF Site Location:			

10	1 of 1	ESE/209.4	86.5 / 1.83	ON	WWIS

Well ID:	7419133	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	05/31/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z353528	**Contractor:**	7659
Tag:	A298348	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	CUMBERLAND TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1009054030	**Tag No:**	A298348
Depth M:		**Contractor:**	7659
Year Completed:	2022	**Latitude:**	45.4546572360789
Well Completed Dt:	04/22/2022	**Longitude:**	-75.4986604922393

Audit No:	Z353528	**Y:**	45.45465722883119
Path:		**X:**	-75.498660329405

Bore Hole Information

Bore Hole ID:	1009054030	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	461010.00
Code OB Desc:		**North83:**	5033580.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	04/22/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

11 | **1 of 1** | **N/217.5** | **83.5 / -1.19** | **2067 WILDFLOWER DRIVE OTTAWA ON K1E 3R3** | **HINC**

External File Num:	FS INC 0701-00458
Fuel Occurrence Type:	CO Release
Date of Occurrence:	1/28/2007
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Private Dwelling
Service Interruptions:	Yes
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	Root Cause: Equipment/Material/Component:Yes Procedures:No Maintenance:Yes Design:Yes Training: No Management:Yes Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Emergency Services (Fire, Police,etc)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

---

12 | **1 of 1** | **SE/218.5** | **86.9 / 2.26** | **3900 Innes Rd Orléans ON K1W 1K9** | **EHS**

Order No:	23042400189	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	27-APR-23	**Search Radius (km):**	.25
Date Received:	24-APR-23	**X:**	-75.49994449
Previous Site Name:		**Y:**	45.45357531
Lot/Building Size:			
Additional Info Ordered:	Topographic Maps		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 1	SE/220.2	86.6 / 1.96	3900 Innes Rd Orléans ON K1W 1K9	EHS

Order No:	23031000206	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	15-MAR-23	**Search Radius (km):**	.25
Date Received:	10-MAR-23	**X:**	-75.4997236
Previous Site Name:		**Y:**	45.45363994
Lot/Building Size:			
Additional Info Ordered:	Topographic Maps		

14	1 of 3	W/225.4	89.9 / 5.31	CREPIN CARTAGE 4100 INNES RD OTTAWA ON K4A 3W9	GEN

Generator No:	ON5741023
SIC Code:	238910
SIC Description:	Site Preparation Contractors
Approval Years:	07,08
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

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

14	2 of 3	W/225.4	89.9 / 5.31	Innes Shopping Centres Limited 4100 Innes Rd Ottawa ON L4K 5X3	ECA

Approval No:	0395-8UMQFA	**MOE District:**	
Approval Date:	2012-06-04	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Innes Shopping Centres Limited		
Address:	4100 Innes Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/3139-8UDJ7R-14.pdf		
PDF Site Location:			

14	3 of 3	W/225.4	89.9 / 5.31	Innes Shopping Centres Limited 4100 Innes Rd Ottawa ON L4K 5X3	ECA

Approval No:	8074-92NUU2	**MOE District:**	
Approval Date:	2012-12-06	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	

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

SWP Area Name: **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Innes Shopping Centres Limited
Address: 4100 Innes Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1548-8V3MQJ-14.pdf
PDF Site Location:

15	1 of 4	NE/226.9	83.2 / -1.44	G. Lemay Construction (1998) Inc. 4195 and 4199 Innes Road Ottawa ON	CA

Certificate #: 2390-5XLKXK
Application Year: 2004
Issue Date: 4/15/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

15	2 of 4	NE/226.9	83.2 / -1.44	G. Lemay Construction (1998) Inc. 4195 and 4199 Innes Road Ottawa ON	CA

Certificate #: 4786-5Y8KJ7
Application Year: 2004
Issue Date: 4/23/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

15	3 of 4	NE/226.9	83.2 / -1.44	G. Lemay Construction (1998) Inc. 4191 Innes Rd 4195 and 4199 Innes Rd Ottawa ON K1J 9C2	ECA

Approval No: 2390-5XLKXK **MOE District:**
Approval Date: 2004-04-15 **City:**
Status: Approved **Longitude:**
Record Type: ECA **Latitude:**
Link Source: IDS **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: G. Lemay Construction (1998) Inc.
Address: 4191 Innes Rd 4195 and 4199 Innes Rd
Full Address:

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

Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9797-5WWN95-14.pdf
PDF Site Location:

15	4 of 4	NE/226.9	83.2 / -1.44	G. Lemay Construction (1998) Inc. 4191 Innes Rd 4195 and 4199 Innes Rd Ottawa ON K1J 9C2	ECA

Approval No: 4786-5Y8KJ7
Approval Date: 2004-04-23
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: G. Lemay Construction (1998) Inc.
Address: 4191 Innes Rd 4195 and 4199 Innes Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6244-5Y3S4C-14.pdf
PDF Site Location:

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

16	1 of 1	NE/231.7	83.1 / -1.49	Robert Pickard Env Centre Water Pollution Control Plant ROPEC 4210 innes road OTTAWA ON	SPL

Ref No: 1-5BOJ43
Year:
Incident Dt: Mar 29,2024 08:00:28 PM
Dt MOE Arvl on Scn:
MOE Reported Dt: Mar 30,2024 09:33:28 AM
Dt Document Closed:
Site No:
MOE Response: Desktop Response
Site County/District:
Site Geo Ref Meth:
Site District Office: Ottawa District Office
Nearest Watercourse: catch basin
Site Name: Robert Pickard Env Centre Water Pollution Control Plant ROPEC
Site Address: 4210 innes road
Site Region:
Site Municipality: OTTAWA
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill:
Environment Impact:
Health Env Consequence: Low
Nature of Impact:
Contaminant Qty: 0 other - see notes
System Facility Address: 800 GREEN'S CREEK DR, OTTAWA, ON K1J 1K6
Client Name: THE CORPORATION OF THE CITY OF OTTAWA
Client Type: Government, Municipal
Source Type:
Contaminant Code:
Contaminant Name: SEWAGE, RAW UNCHLORINATED
Contaminant Limit 1:
Contam Limit Freq 1:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Contaminant UN No 1:	
Receiving Medium:	Land
Incident Reason:	
Incident Summary:	City of Ottawa: unknwn vol private manhole overflow into catch basin - clnd
Activity Preceding Spill:	
Property 2nd Watershed:	Lower Ottawa
Property Tertiary Watershed:	02LA - Rideau
Sector Type:	SEWAGE TREATMENT FACILITIES
SAC Action Class:	Municipal Sewage
Call Report Locatn Geodata:	{"integration_ids":["PR00004279215"],"wkts":["POINT (-75.4953166000 45.4572295000)"],"creation_date":"2024-03-30"}

17	1 of 1	ESE/240.5	87.4 / 2.72	Vangaurd Dr Ottawa ON	EHS

Order No:	20170823051	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	23-AUG-17	**Search Radius (km):**	.25
Date Received:	23-AUG-17	**X:**	-75.498779
Previous Site Name:		**Y:**	45.453971
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory		

Unplottable Summary

Total: 26 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA		East Half of Lot 1, Concession 11	Cumberland ON	
CA	THE DOUGLAS MACDONALD DEVELOP.CORP.	INNES RD.	GLOUCESTER CITY ON	
CA	KLAUS MORITZ	INNES RD.	GLOUCESTER CITY ON	
CA	REG. MUN. OF OTTAWA-CARLETON	INNES RD.	GLOUCESTER CITY ON	
CA	R.C. EPISCOPAL CORP. OF OTTAWA	INNES RD., BLK. 43, (SWM)	CUMBERLAND TWP. ON	
CA	REDEEMER ALLIANCE CHURCH	INNES RD., BLOCK 105 (SWM)	CUMBERLAND TWP. ON	
CA	GOODBRAM INVESTMENTS LTD.	PT.LOT 1/CON.11,INNES RD., SWM	CUMBERLAND TWP. ON	
CA	DOMICILE DEVELOPMENTS INC. IN TRUST	PRIVATE STREET #1/INNES ROAD	GLOUCESTER CITY ON	
CA	A.J. ROBINSON & ASSOC.INC. BRAM GROUP	INNES ROAD	CUMBERLAND TWP. ON	
CA	R.M. OF OTTAWA-CARLETON,	INNES RD. TRANSPORTATION DEPT.	GLOUCESTER CITY ON	
CA	LIFE CENTRE - STORMWATER MANAGEMENT FAC.	INNES ROAD/MUD CREEK	GLOUCESTER CITY ON	
CA	LIFE CENTRE - LIFE CENTRE CHURCH	INNES ROAD	GLOUCESTER CITY ON	
CA	A.J. ROBINSON & ASSOC.INC. BRAM GROUP	INNES ROAD	CUMBERLAND TWP. ON	
CA	R.M. OF OTTAWA-CARLETON	INNES ROAD	GLOUCESTER CITY ON	
CA	R. M. OF OTTAWA-CARLETON	INNES RD. SEWAGE PUMPING STAT.	GLOUCESTER CITY ON	
CA	SAFETY-KLEEN CANADA INC.	PART LOT 1, CONC. 11	CUMBERLAND TWP. ON	
CA	City of Ottawa	Mer Bleue Rd (Innes Rd 700m south)	Ottawa ON	
CA	Innes Shopping Centres Limited		Ottawa ON	

CA	City of Ottawa	Mer Bleue Rd (Innes Rd 700m south)	Ottawa ON
CA	Innes Shopping Centres Limited		Ottawa ON
CA	KLAUS MORITZ	INNES RD.	GLOUCESTER CITY ON
CA		Lot A, Concession 10, 'Innes Road	Cumberland ON
CA	THE DOUGLAS MACDONALD DEVELOP.CORP.	INNES RD.	GLOUCESTER CITY ON
CA	Innes Road and 10th Line	Part of Lot 1, Concession 11	Ottawa ON
GEN	SAFETY-KLEEN CANADA INC.	PART OF LOT 1, CONCESSION 11	CUMBERLAND TOWNSHIP ON
SPL	UNKNOWN	GREEN CREEK @ INNES RD.	GLOUCESTER CITY ON

Unplottable Report

Site: ***East Half of Lot 1, Concession 11 Cumberland ON***

Database: ***CA***

Certificate #:	0152-5ACMXF
Application Year:	02
Issue Date:	5/30/02
Approval Type:	Industrial sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Oil Chargers Inc.
Client Address:	
Client City:	Cumberland
Client Postal Code:	
Project Description:	Stormwater Management for a vehicle servicing site
Contaminants:	
Emission Control:	

Site: ***THE DOUGLAS MACDONALD DEVELOP.CORP. INNES RD. GLOUCESTER CITY ON***

Database: ***CA***

Certificate #:	3-1487-85-006
Application Year:	85
Issue Date:	12/23/85
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KLAUS MORITZ INNES RD. GLOUCESTER CITY ON***

Database: ***CA***

Certificate #:	7-0394-85-006
Application Year:	85
Issue Date:	5/30/85
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***REG. MUN. OF OTTAWA-CARLETON INNES RD. GLOUCESTER CITY ON***

Database: ***CA***

Certificate #:	7-0153-85-006
Application Year:	85

Issue Date:	3/21/85
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.C. EPISCOPAL CORP. OF OTTAWA***
INNES RD., BLK. 43, (SWM) CUMBERLAND TWP. ON

Database: ***CA***

Certificate #:	3-1532-97-
Application Year:	97
Issue Date:	11/7/1997
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***REDEEMER ALLIANCE CHURCH***
INNES RD., BLOCK 105 (SWM) CUMBERLAND TWP. ON

Database: ***CA***

Certificate #:	3-1330-96-
Application Year:	96
Issue Date:	11/22/1996
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***GOODBRAM INVESTMENTS LTD.***
PT.LOT 1/CON.11,INNES RD., SWM CUMBERLAND TWP. ON

Database: ***CA***

Certificate #:	3-0349-94-
Application Year:	94
Issue Date:	6/16/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***DOMICILE DEVELOPMENTS INC. IN TRUST***
PRIVATE STREET #1/INNES ROAD GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	7-0032-90-
Application Year:	90
Issue Date:	2/1/1990
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***A.J. ROBINSON & ASSOC.INC.BRAM GROUP***
INNES ROAD CUMBERLAND TWP. ON

Database: ***CA***

Certificate #:	7-1075-88-
Application Year:	88
Issue Date:	7/15/1988
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.M. OF OTTAWA-CARLETON,***
INNES RD. TRANSPORTATION DEPT. GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	7-0814-88-
Application Year:	88
Issue Date:	6/28/1988
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***LIFE CENTRE - STORMWATER MANAGEMENT FAC.***
INNES ROAD/MUD CREEK GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	3-0803-91-
Application Year:	91
Issue Date:	9/25/1991
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	

Contaminants:
Emission Control:

Site: ***LIFE CENTRE - LIFE CENTRE CHURCH***
INNES ROAD GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	3-0926-91-
Application Year:	91
Issue Date:	7/3/1991
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***A.J. ROBINSON & ASSOC.INC. BRAM GROUP***
INNES ROAD CUMBERLAND TWP. ON

Database: ***CA***

Certificate #:	3-1241-88-
Application Year:	88
Issue Date:	7/15/1988
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.M. OF OTTAWA-CARLETON***
INNES ROAD GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	3-0734-88-
Application Year:	88
Issue Date:	5/13/1988
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R. M. OF OTTAWA-CARLETON***
INNES RD. SEWAGE PUMPING STAT. GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	3-0358-86-
Application Year:	86
Issue Date:	8/22/1986
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	

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

Site: ***SAFETY-KLEEN CANADA INC.***
PART LOT 1, CONC. 11 CUMBERLAND TWP. ON

Database: ***CA***

Certificate #:	8-4153-89-
Application Year:	89
Issue Date:	1/16/1990
Approval Type:	Industrial air
Status:	Approved in 1990
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	TWO MINERAL SPIRIT TANKS WITH VENTS
Contaminants:	
Emission Control:	

Site: ***City of Ottawa***
Mer Bleue Rd (Innes Rd 700m south) Ottawa ON

Database: ***CA***

Certificate #:	8790-6VKTPK
Application Year:	2007
Issue Date:	4/26/2007
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Innes Shopping Centres Limited***
Ottawa ON

Database: ***CA***

Certificate #:	6167-79NM49
Application Year:	2007
Issue Date:	12/10/2007
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***City of Ottawa***
Mer Bleue Rd (Innes Rd 700m south) Ottawa ON

Database: ***CA***

Certificate #:	2501-6V7Q25

Application Year:	2006
Issue Date:	11/10/2006
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Innes Shopping Centres Limited***
Ottawa ON

Database: ***CA***

Certificate #:	1719-6SJJ6X
Application Year:	2006
Issue Date:	8/16/2006
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KLAUS MORITZ***
INNES RD. GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	3-0583-85-006
Application Year:	85
Issue Date:	6/7/85
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site:
Lot A, Concession 10, 'Innes Road Cumberland ON

Database: ***CA***

Certificate #:	7160-4N7J52
Application Year:	00
Issue Date:	8/22/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Shell Canada Products Limited
Client Address:	90 Sheppard Avenue East, Suite 600
Client City:	Toronto
Client Postal Code:	M2N 6Y2
Project Description:	sanitary sewers construction on Innes Road
Contaminants:	
Emission Control:	

Site: ***THE DOUGLAS MACDONALD DEVELOP.CORP.***
INNES RD. GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	7-1125-85-006
Application Year:	85
Issue Date:	12/23/85
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Innes Road and 10th Line***
Part of Lot 1, Concession 11 Ottawa ON

Database: ***CA***

Certificate #:	4234-4WTKNB
Application Year:	01
Issue Date:	6/20/01
Approval Type:	Industrial sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Petro- Canada
Client Address:	5140 Yonge Street, Suite 200
Client City:	Toronto
Client Postal Code:	M2N 6L6
Project Description:	On-site splii containment system to service a proposed 0.14 ha commercial development. The proposed system includes the installation is a stormceptor oil/water seperator at the oulet from the proposed internal storm system for the site.
Contaminants:	
Emission Control:	

Site: ***SAFETY-KLEEN CANADA INC.***
PART OF LOT 1, CONCESSION 11 CUMBERLAND TOWNSHIP ON

Database: ***GEN***

Generator No:	ON0154009
SIC Code:	4999
SIC Description:	OTHER UTILITY IND.
Approval Years:	98
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	211
Waste Class Name:	AROMATIC SOLVENTS
Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	221
Waste Class Name:	LIGHT FUELS
Waste Class:	222
Waste Class Name:	HEAVY FUELS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	253
Waste Class Name:	EMULSIFIED OILS
Waste Class:	254
Waste Class Name:	TRANSFER STATION OILS WASTES

Site: ***UNKNOWN***
GREEN CREEK @ INNES RD. GLOUCESTER CITY ON

Database: ***SPL***

Ref No:	133852	***Municipality No:***	20105
Year:		***Nature of Damage:***	
Incident Dt:	11/4/1996	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	11/4/1996	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	GLOUCESTER CITY		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	UNKNOWN		
Incident Preceding Spill:			
Environment Impact:	POSSIBLE		
Health Env Consequence:			
Nature of Impact:	Water course or lake		
Contaminant Qty:			
System Facility Address:			
Client Name:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	WATER		
Incident Reason:	UNKNOWN		
Incident Summary:	UNKNOWN SOURCE OF UNK QUANTITY OF UNK OIL IN CREEK		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			

SAC Action Class:
Call Report Locatn Geodata:

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 Nov 2023

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-Apr 2024

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, 2024

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 2022

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, 2024

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 -May 2024

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-May 2024

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 - Jun 30, 2024

Drill Hole Database: Provincial DRL

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

Government Publication Date: 1886 - Aug 2023

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-Apr 30, 2024

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 - Jun 30, 2024

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-Apr 30, 2024

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-Mar 31, 2024

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land 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, 2023

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-Jun 2024

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

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

Government Publication Date: Oct 31, 2021

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. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2022

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

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

Government Publication Date: 31 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-Feb 2024

National Analysis of Trends in Emergencies System (NATES): Federal NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2022

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-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020: 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: Sep 2020

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-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Aug 2023

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 - Jun 30, 2024

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-Apr 30, 2024

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: Sep 2020

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: Sep 2020

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994 - Jun 30, 2024

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-Jun 2024

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, 2024

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available 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. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests. This database includes spill incidents that occurred in Mar 2023-Mar 2024 in addition to those listed in the Government Publication Date.

Government Publication Date: 1988-Jan 2023; see description

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, 2021

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 2023

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-Apr 30, 2024

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Dec 31 2023

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

JOSHUA DEMPSEY

B.Sc

JUNIOR ENVIRONMENTAL INSPECTOR

JOSHUA JOINED PATERSON GROUP IN 2019 AS PART OF THE ENVIRONMENTAL GROUP. JOSHUA RECEIVED HIS BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE FROM THE UNIVERSITY OF OTTAWA IN 2018, AS WELL AS HIS GRADUATE CERTIFICATE IN ENVIRONMENTAL MANAGEMENT AND ASSESSMENT FROM ALGONQUIN COLLEGE IN 2019. IN HIS TIME WITH PATERSON, JOSHUA HAS BEEN INVOLVED IN PRIMARILY RESIDENTIAL AND COMMERCIAL PROJECTS ACROSS ONTARIO, WHERE HE COMPLETED ENVIRONMENTAL AND GEOTECHNICAL SAMPLING PROGRAMS, PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS (CSA AND MECP STANDARDS), SUPERVISION OF ENVIRONMENTAL REMEDIATIONS, EXCESS SOIL TESTING AND REPORTING, AND ASSISTED IN THE FILING OF RECORDS OF SITE CONDITION (RSCS). HIS SCOPE OF WORK CONSISTS OF ENVIRONMENTAL INVESTIGATION AND REPORTING, FIELD INSPECTIONS, SOIL AND GROUNDWATER SAMPLING, REMEDIATION SUPERVISION, AND ENSURING COMPLIANCE TO APPLICABLE REGULATORY STANDARDS

YEARS OF EXPERIENCE

- WITH PATERSON: 5

LICENCE/ PROFESSIONAL AFFLILATIONS

- P.GEO ELIGIBILITY

EDUCATION

- BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE, 2018 UNIVERSITY OF OTTAWA OTTAWA, ONTARIO
- ENVIRONMENTAL MANAGEMENT AND ASSESSMENT, GRADUATE CERTIFICATE, 2019 ALGONQUIN COLLEGE OTTAWA, ONTARIO

OFFICE LOCATION

9 AURIGA DRIVE, OTTAWA, ONTARIO, K2E 7T9

SELECT LIST OF PROJECTS

- 44 ECCLES STREET, OTTAWA, ON – REMEDIATION SUPERVISION AND RSC.
- PCL – ESAP PROJECT, CLIFF PLANT, OTTAWA, ON – EXCESS SOIL QUALITY.
- 1060 CUMMINGS AVENUE, OTTAWA, ON, LARGE SCALE REMEDIATION, PHASE I AND II ESA (SITE REMEDIATION COORDINATOR AND SUPERVISOR).
- CAIVAN COMMUNITIES: THE RIDGE, OTTAWA, ON, ENVIRONMENTAL AND GEOTECNICAL SUBSURFACE INVESTIGATIONS, SOIL AND GROUNDWATER SAMPLING, REMEDIATION SUPERVISION.
- TAGGART RESIDENTIAL DEVELOPMENT, GARDINERS ROAD, KINGSTON, ON, PHASE II ESA SUPERVISION, GROUNDWATER MONITORING, REMEDIATION SUPERVISION.
- 36 ROBINSON AVENUE, OTTAWA, ON – REMEDIATION PROGRAM, PHASE I AND II ESA (SITE REMEDIATION COORDINATOR & SUPERVISOR).
- 245 RIDEAU STREET, OTTAWA, ON – LARGE SCALE REMEDIATION, PHASE I AND II ESA (SITE REMEDIATION COORDINATOR AND SUPERVISOR).
- 265 GREENSWAY AVENUE, OTTAWA, ON – REMEDIATION SUPERVISION, PHASE II ESA SUPERVISION, GROUNDWATER MONITORING.
- EXCESS SOIL SAMPLING AND TESTING, VARIOUS SITES, OTTAWA AREA.
- SOIL, WATER, AND SEDIMENT SAMPLING, VARIOUS SITES

PATERSON GROUP

PROFESSIONAL EXPERIENCE

2019 TO PRESENT, JUNIOR ENVIRONMENTAL INSPECTOR, PATERSON GROUP, OTTAWA, ONTARIO

CONDUCT PHASE I – ENVIRONMENTAL SITE ASSESSMENTS (ESAS) TO CSA AND O.REG. 153/04 STANDARDS;

CONDUCT PHASE II – ENVIRONMENTAL SITE ASSESSMENTS (ESAS) AND SUPPLEMENTAL PHASE II ESAS TO CSA AND O.REG. 153/04 STANDARDS;

SUPERVISE SOIL AND GROUNDWATER REMEDIATION PROGRAMS TO CSA AND O.REG. 153/04 STANDARDS;

PREPARATION OF RECORDS OF SITE CONDITION TO O.REG. 153/04;

CONDUCT EXCESS SOIL INVESTIGATIONS TO O.REG. 406/19 STANDARDS, AND PROVIDE RECOMMENDATIONS FOR SOIL MANAGEMENT;

MANAGE EXCAVATION CONTRACTORS AND FIELD PERSONNEL TO ENSURE SOIL AND GROUNDWATER QUALITY CONTROL;

PRESENT ANALYTICAL TEST RESULTS, INTERPRETATIONS, ASSESSMENTS, RECOMMENDATION AND/OR CONCLUSIONS IN A FINAL TECHNICAL REPORT AS WELL AS VERBAL AND WRITTEN COMMUNICATION WITH CLIENTS;

OVERSEE GEOTECHNICAL INVESTIGATIONS FOR TEST PITTING ON NUMEROUS PROPOSED UTILITY INSTALLATIONS, RESIDENTIAL AND COMMERCIAL DEVELOPMENTS;

CONDUCT SETTLEMENT SURCHARGE SURVEYS, SETTLEMENT PLATE INSTALLATIONS, SLOPE STABILITY SURVEYS, SEISMIC SHEAR-WAVE VELOCITY SURVEYS, TOPOGRAPHIC SURVEYS, AND GEOTECHNICAL SUBSURFACE INVESTIGATIONS, INCLUDING SENSITIVE CLAY DEPOSITS;

CONDUCT LABORATORY TESTING PROGRAM OF SOILS AND WATER FOR DETAIL RECOMMENDATIONS;

PROBLEM SOLVING TO COMPLETE ANALYSIS REQUIRED WITHIN REGULATORY FRAMEWORK;

ADAPT TO UNFORESEEN ON-SITE CHALLENGES AND PROVIDE FIRST-HAND INSIGHTS TO HELP COLLABORATE TOWARD A SOLUTION;

OVERSEE LARGE-SCALE REMEDIATION PROJECTS AND MONITOR MATERIAL BEING EXCAVATED;

MONITOR AND SAMPLE MULTIPLE GROUNDWATER WELLS WITH A HIGH DEGREE OF PRECISION REGARDING THE QUALITY AND PARAMETERS OF THE SAMPLE;

MARK S. D'ARCY

P.ENG, QPESA

DIRECTOR – ENVIRONMENTAL DIVISION

AFTER RECEIVING HIS BACHELORS OF APPLIED SCIENCE FROM QUEEN'S UNIVERSITY IN 1991 IN GEOLOGICAL ENGINEERING, MARK JOINED PATERSON GROUP INC. DURING THE FIRST 10 YEARS OF MARK'S CAREER, HE WAS HEAVILY INVOLVED IN ALL ASPECTS OF FIELD WORK, INCLUDING DRILLING BOREHOLES, EXCAVATING TEST PITS, CONDUCTING PHASE I SITE INSPECTIONS, ENVIRONMENTAL SAMPLING AND ANALYSIS AND INSPECTION OF ENVIRONMENTAL REMEDIATIONS. DURING MARK'S FIELD EXPERIENCE, HE GAINED INVALUABLE FIELD AND OFFICE EXPERIENCE, WHICH WOULD PREPARE MARK TO BECOME THE ENVIRONMENTAL DIVISION MANAGER. MARK'S FIELD EXPERIENCE RANGES FROM PHASE I ENVIRONMENTAL SITE ASSESSMENTS (ESAS) TO ON-SITE SOIL AND GROUNDWATER REMEDIATIONS, AS WELL AS, ENVIRONMENTAL/GEOTECHNICAL BOREHOLE INVESTIGATIONS. MARK'S FIELD EXPERIENCE HAS PROVIDED EXTENSIVE KNOWLEDGE OF SUBSURFACE CONDITIONS, CONTRACTOR RELATIONS AND PROJECT MANAGEMENT. THESE SKILLS WOULD PROVIDE MARK WITH THE ABILITY TO UNDERSTAND A VARIETY OF SITUATIONS, WHICH HAS LEAD PATERSON TO AN EXTREMELY SUCCESSFUL ENVIRONMENTAL DEPARTMENT. MARK BECAME THE ENVIRONMENTAL MANAGER IN 2006, WHICH CONSISTED OF TWO ENGINEERS AND TWO FIELD TECHNICIANS. MARK HAS BEEN AN INTEGRAL PART IN GROWING THE ENVIRONMENTAL DIVISION, WHICH NOW CONSISTS OF NINE ENGINEERS AND THREE FIELD TECHNICIANS. MARK IS THE SENIOR PROJECT MANAGER FOR A WIDE VARIETY OF ENVIRONMENTAL PROJECTS WITHIN THE EASTERN ONTARIO AREA INCLUDING PHASE I ESAS, PHASE II ESAS, REMEDIATIONS FOR FILING RECORDS OF SITE CONDITION IN THE ONTARIO MINISTRY OF THE ENVIRONMENT AND CLIMATE CHANGE (MOECC) ENVIRONMENTAL SITE REGISTRY, BROWNFIELD APPLICATIONS AND LANDFILL MONITORING PROGRAMS. AS THE SENIOR PROJECT MANAGER, MARK IS RESPONSIBLE FOR DIRECTING PROJECT PERSONNEL, FINAL REPORT REVIEW AND OVERALL PROJECT SUCCESS. MARK HAS PROVEN LEADERSHIP AND ABILITY TO MANAGE SMALL TO LARGE SCALE PROJECTS WITHIN THE ALLOTTED TIME AND BUDGET.

YEARS OF EXPERIENCE

- WITH PATERSON: 33

LICENCE/ PROFESSIONAL AFFLILATIONS

- PROFESSIONAL ENGINEERS OF ONTARIO
- ESA QUALIFIED PERSON WITH MECP
- ONTARIO SOCIETY OF PROFESSIONAL ENGINEERS
- CONSULTING ENGINEERS OF ONTARIO

EDUCATION

- B.A.SC. 1991, GEOLOGICAL ENGINEERING, QUEEN'S UNIVERSITY, KINGSTON, ON

OFFICE LOCATION

9 AURIGA DRIVE, OTTAWA, ONTARIO, K2E 7T9

SELECT LIST OF PROJECTS

- 222 BEECHWOOD AVENUE, OTTAWA, ONTARIO (SENIOR PROJECT MANAGER FOR PHASE I ESA, PHASE II ESA, PHASE III ESA, ENVIRONMENTAL REMEDIATION)
- 409 MACKAY STREET, OTTAWA, ONTARIO (SENIOR PROJECT MANAGER FOR PHASE I ESA, PHASE II ESA, PHASE III ESA, ENVIRONMENTAL REMEDIATION)
- ART'S COURT REDEVELOPMENT, OTTAWA, ONTARIO (SENIOR PROJECT MANAGER FOR PHASE I ESA, PHASE II ESA, PHASE III ESA, ENVIRONMENTAL REMEDIATION)
- VISITOR WELCOME CENTRE, PHASE II AND PHASE III, PARLIAMENT HILL, OTTAWA, ONTARIO (SENIOR PROJECT MANAGER FOR ENVIRONMENTAL REMEDIATION)
- MATTAWA LANDFILL, MATTAWA, ONTARIO (SENIOR PROJECT MANAGER, ANNUAL WATER QUALITY MONITORING REPORT)
- MULTI-PHASE REDEVELOPMENT OF THE OTTAWA TRAIN YARDS, OTTAWA, ONTARIO (SENIOR PROJECT MANAGER)
- RIDEAU CENTRE EXPANSION, OTTAWA, ONTARIO (SENIOR PROJECT MANAGER FOR PHASE I ESA, PHASE II ESA, PHASE III ESA, ENVIRONMENTAL REMEDIATION)
- 26 STANLEY AVENUE, OTTAWA, ONTARIO, PHASE I ESA, PHASE II ESA (SENIOR PROJECT MANAGER)
- MONITORING LANDFILLS FOR RIVER VALLEY, KIPLING AND LAVIGNE (SENIOR PROJECT MANAGER)
- BLOCK D LANDS – BROWNFIELDS PROJECT - KINGSTON

PROFESSIONAL EXPERIENCE

2001 TO PRESENT, MANAGER OF ENVIRONMENTAL DIVISION, PATERSON GROUP INC., OTTAWA, ONTARIO

MANAGE ALL ASPECTS OF THE ENVIRONMENTAL DIVISION (MANAGEMENT OF PERSONNEL, BUDGETING, INVOICING, SCHEDULING, BUSINESS DEVELOPMENT, REPORTING, MARKETING, AND FIELDWORK).

REVIEW DAY TO DAY OPERATIONS WITHIN THE ENVIRONMENTAL DIVISION.

DESIGN, PERFORM, AND LEAD PHASE I, II AND PHASE III ESAS, REMEDIATION'S, BROWNFIELD APPLICATIONS AND RECORD OF SITE CONDITIONS, FIELDWORK SURVEYS, EXCAVATION, MONITORING, LABORATORY ANALYSIS, AND INTERPRETATION.

WRITE, PRESENT, AND PUBLISH REPORTS WITH METHODOLOGY AND LABORATORY ANALYSIS RESULTS, ALONG WITH RECOMMENDATIONS FOR ENVIRONMENTAL FINDINGS.

RESPONSIBLE FOR ENSURING PROJECTS MEET MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STANDARDS AND GUIDELINES.

BUILDING AND FOSTERING RELATIONSHIPS WITH CLIENTS, STAKEHOLDERS, AND MINISTRY OFFICIALS.

SUPERVISE AND CONTINUOUS TRAINING OF STAFF IN ENVIRONMENTAL METHODS (ENVIRONMENTAL SAMPLING TECHNIQUES, TECHNICAL EXPERTISE AND GUIDANCE).

APPLIED DUE DILIGENCE IN ENSURING THE HEALTH AND SAFETY OF STAFF AND THE PUBLIC IN FIELD LOCATIONS.

1991 TO 2001, GEOTECHNICAL AND ENVIRONMENTAL ENGINEER, PATERSON GROUP INC., OTTAWA, ONTARIO

PROVIDE ON-SITE GEOTECHNICAL AND ENVIRONMENTAL EXPERTISE TO VARIOUS CLIENTS.

OVERSEE GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATIONS FOR DRILLING AND TEST PITTING ON NUMEROUS PROPOSED UTILITY INSTALLATIONS, RESIDENTIAL AND COMMERCIAL DEVELOPMENTS.

PROBLEM SOLVING TO HELP ADVANCE OR MAINTAIN PROJECT SCHEDULES.

COMPLETE ENVIRONMENTAL REPORTS WITH RECOMMENDATIONS TO MEET ENVIRONMENTAL STANDARDS SET BY MOE AND CCME STANDARDS.

CONDUCT SITE INSPECTIONS, BEARING MEDIUM EVALUATIONS, BEARING SURFACE INSPECTIONS, CONCRETE TESTING AND FIELD DENSITY TESTING.

LIAISING WITH CONTRACTORS, CONSULTANTS AND GOVERNMENT OFFICIALS.

PROVIDE COST ESTIMATES FOR GEOTECHNICAL AND ENVIRONMENTAL FIELD PROGRAMS AND CONSTRUCTION COSTS.

REVIEW RFI'S, SUBMITTALS, MONTHLY PROGRESS REPORTS AND OTHER VARIOUS CONSTRUCTION RELATED WORK.