Ottawa Carleton District School Board

Phase I Environmental Site Assessment
820 Miikana Road
Ottawa, Ontario

CM3 Project ER1004

April 13th, 2022

CM3 Environmental Inc.
5710 Akins Road Ottawa, Ontario K2S 1B8

1.0 EXECUTIVE SUMMARY

CM3 Environmental (CM3) was retained by the Ottawa Carleton District School Board (OCDSB) to conduct a Phase I Environmental Site Assessment (ESA) for the property located at 820 Miikana Road in Ottawa, Ontario ("site" or "subject property"). The Phase I ESA was completed for Site Plan Control and not for a Record of Site Condition (RSC). The Phase I ESA was completed following the requirements of the Canadian Standards Association (CSA) Standard Z768-01 and Ontario Regulation (O. Reg.) 153/04.

The Phase I ESA was completed under the supervision of Mr. Marc MacDonald, P.Eng., from CM3 Environmental. Mr. MacDonald has over 25 years of experience in contaminated lands consulting.

The Phase I ESA was completed through a site inspection, interviews, and a records review consisting of aerial photographs, fire insurance plans, chain of title and city directory searches, Freedom of Information requests, and the results of an Environmental Risk Information Services database search.

The subject property is roughly square in shape and is bounded by Miikana Road to the north, residential properties to the south and east and Kelly Farm Drive to the west. The site is located in an area primarily consisting of new or currently under construction residential homes. The ground cover primarily consists of soil and intermittent vegetation. It appears that the site was stripped of the topsoil and was used for staging and stockpiling of fill materials during the development of the surrounding areas beginning in 2017. There are currently no vehicle access points to the subject property. The total area of the site is approximately 25 450 m^2 (2.55 ha). The subject property is currently in the pre-construction phase with no buildings or structures on-site.

The subject property has remained undeveloped. Historic surrounding land use was likely agricultural or natural lands. The current surrounding land use is primarily residential with some commercial properties to the east.

The historic records search and site inspection identified one on-site potentially contaminating activity (PCA) related to the importation of fill materials of unknown quality. No other PCAs were observed within the Phase I study area. One area of potential environmental concern (APEC) was identified based on the evaluation of the PCA. The APEC and contaminants of concern (COC) are summarized in the following table.

Areas of Potential Environmental Concern			
APEC	**Location**	**Cause of Concern**	**COCs**
1	Subject Property	PCA 1 – Importation of fill material of unknown quality.	VOCs, PHCs F1-F4 fractions, PAHs, metals, pH

BTEX Benzene, toluene, ethylbenzene, xylenes
PHCs F1-F4 Petroleum hydrocarbons F1 to F4 fractions
VOCs Volatile organic compounds (including BTEX)
PAHs Polycyclic aromatic hydrocarbons

The findings of the Phase I ESA identified one area of potential environmental concern (importation of fill) on the subject property due to historic and current land use on-site. The contaminants of concern were identified as VOCs, PHCs F1-F4 fractions, PAHs, metals and pH. Potentially contaminated media included primarily soil and to a less degree groundwater.

A Phase II ESA is required to characterize soil conditions (and possibly groundwater if soil concentrations are above MECP Site Condition Standards).

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2.0 INTRODUCTION

CM3 Environmental (CM3) was retained by the Ottawa Carleton District School Board (OCDSB) to conduct a Phase I Environmental Site Assessment (ESA) for the property located at 820 Miikana Road in Ottawa, Ontario ("site" or "subject property"). The Phase I ESA was completed for Site Plan Control and not in support of the filing of a record of site condition.

2.1 Phase I Property Information

The civic address of the subject property is 820 Miikana Road. The current site land use designation is minor institutional. The subject property is currently vacant with no buildings on-site. The site location is provided as **Figure 1**. Photographs of the site are provided in **Appendix A**.

CM3 was retained by Ms. Jean Voth, P.Eng., on behalf of the OCDSB to conduct the Phase I ESA. The contact information for Ms. Voth is provided below:

Ms. Jean Voth, P.Eng.
Project Officer Architectural & Engineering, Design & Construction
Ottawa Carleton District School Board
1224 Stittsville Main Street
Stittsville, ON K2S 0E2
Tel: 613-596-8211 ext.8748
Cell: 613-222-5500
Fax: 613-721-0045
Email: jean.voth@ocdsb.ca

The current owner of the subject property is the Ottawa Carleton District School Board.

3.0 SCOPE OF INVESTIGATION

The Phase I was completed at the request of the Ms. Voth on behalf of the OCDSB for Site Plan Control purposes prior to development of the subject property. The Phase I was not completed in support of filing a record of site condition (RSC). The objective of the Phase I ESA was to evaluate the environmental condition of the subject property and properties within a 250 m radius of the property boundary (Phase I study area). The Phase I ESA included a review of current activities and historic activities/information for the subject property and Phase I study area to identify potentially contaminating activities. If PCAs were identified, they were evaluated based on the site conditions to assess if they represented an area of potential environmental concern at the subject property.

CM3 completed the Phase I ESA following the requirements of the Canadian Standards Association (CSA) Standard Z768-01 and Ontario Regulation (O. Reg.) 153/04. The general scope of work for the Phase I ESA included:

- A review of readily available historical documents, aerial photographs and geology/soils maps;
- A review of records from municipal, provincial and federal agencies and private source databases;
- Reconnaissance of the subject property to evaluate the current condition of the site;
- Interviews with persons knowledgeable of the history of the subject property; and
- The preparation of the Phase I ESA report.

4.0 RECORDS REVIEW

4.1 General

CM3 completed a review of historical records relevant to the subject property, including historical databases, geological maps, aerial photographs, and readily available reports. A radius of 250 m from the subject property was investigated to identify PCAs as provided by O.Reg. 153/04. Environmental Risk Information Services (ERIS), a private environmental information service, provided the majority of the historical records in their standard search radius of 250 meters. A standard ERIS historical report was requested to provide records from governmental (Federal and Provincial) databases, and private source records, as outlined in O.Reg. 153/04. An ERIS physical setting report (PSR) was also requested to provide physical information about the Phase I study area, including physiography, topography, surficial and bedrock geology, and information about areas of natural and scientific interest. The ERIS request included an Opta Enviroscan report to provide insurance information relevant to the subject property. The findings of the historical records review are incorporated into the following sections.

4.1.1 Phase I Study Area Determination

The Phase I study area included the subject property at 820 Miikana Road and all properties partly or wholly within a 250 m radius of the property boundary. A radius of 250 m was selected following the requirements provided by O.Reg. 153/04. The 250 m radius from the subject property boundary was determined to be sufficient since the properties located within and beyond the 250 m radius are similar land use designation. The Phase I study area did not include any properties beyond the 250 m radius. The Phase I study area is illustrated on **Figure 2**.

4.1.2 First Developed Use Determination

Based on the site interview, historical photographs, and historical records search, the subject property has remained undeveloped. The earliest aerial photograph available shows that the land was used for agricultural purposes in 1947. Prior to 1947 the land use was likely agricultural or natural lands. Surrounding properties were of similar historic land use.

4.1.3 Fire Insurance Plans

A fire insurance plan (FIP) search was requested from ERIS. No FIP maps or insurance inspection reports were available for review.

4.1.4 Chain of Title

A title search was requested from ERIS. The search returned records from crown ownership (prior to 1849) to present. The chain of ownership of the subject property is summarized in the following table:

Table 1: Chain of Title	
Date	**Owner**
Prior to 1849	Crown
1849	Robert Lee
1910	Thomas Robinson
1954	Ada Thompson
1956	Freda Isabel Lombardo & Rocco Lombardo
1957	Solomon Rosenberg
1957	Remer-Klar Investment corp.
1980	The Remer Holding Corp.
1998	Aperdev Investments Inc.
2004	Rocco Lombardo
2006	Remer Holdings Inc.
2011	Diana Demitro
2013	Leitrim South Holdings
2021	Ottawa-Carleton District School Board (present owner)

The chain of title record is provided in **Appendix B**.

4.1.5 City Directory Search

A city directory search was requested for the site and surrounding properties. The city directory search returned records for the properties located at 4806 Bank Street and 4815 Bank Street. The records were available for the years 2011, 2006, 2007, 2001, and 2002 and were primarily listed as commercial. Dom's Auto Body listed at 4806 Bank Street in 2011 only, is not anticipated to be a significant environmental concern at the subject property. No other records within the city directory search represent an environmental concern at the subject property. The city directory search is provided in **Appendix C**.

4.1.6 Environmental Reports

The following environmental report was provided for review:

1. Golder Associates, January 2017, Geotechnical Investigation, Proposed Residential Development, Remer and Idone Lands, Ottawa, Ontario. (Report Number: 13-1121-0083 (1046).

The geotechnical investigation was conducted for Leitrim South Holdings Inc. and 4840 Bank St. Ltd. The purpose of the investigation was to determine subsurface soil, bedrock, and groundwater conditions for the proposed residential development on the Remer and Idone lands in Ottawa, Ontario, which includes the subject property. Forty-six boreholes, 17 test pits, and one hand auger hole were completed for the purposes of the investigation. Basic chemical analysis was also carried out on six soil samples.

The report identified the general subsurface conditions to consist of peat overlying sands and silts and then overlying bouldery glacial till. The depth to bedrock was observed to be approximately 2 meters (m) to 7 m below the ground surface. Groundwater levels at the site were observed to range from zero m below ground (m bg) to 4.5 m bg. The highest (conservative) estimated hydraulic conductivities for the bedrock and overburden were $1x10^{-3}$ m/s (meters per second) and $1x10^{-5}$ m/s, respectively, with a depth-averaged hydraulic conductivity of $2.6x10^{-4}$ m/s.

The basic chemical analysis conducted on six soil samples included Electrical Conductivity, pH, Chlorine (Cl), Resistivity, and Sulfate (SO_4). Laboratory analysis indicated that the soil samples analyzed were within an acceptable range for the given parameters.

4.2 Environmental Source Information

Freedom of Information Requests

CM3 completed a freedom of information request on the subject property from the Ontario Ministry of the Environment, Conservation and Parks (MECP), from the Technical Standards and Safety Authority (TSSA), and from the City of Ottawa. Records from the TSSA and MECP have been ordered but have not been received prior to this report being issued. If additional information becomes available that may affect the findings of this Phase I ESA, CM3 will provide an addendum to this report updating the findings. The freedom of information requests are provided in **Appendix D**.

The City of Ottawa Historic Land Use Inventory (HLUI) returned no information. The HLUI response letter is provided in **Appendix D**.

ERIS Records Review

An ERIS historical records database search was requested for the site and the surrounding properties within a 250 m radius. The databases that were searched are listed in the ERIS database report, **Appendix E**. The search provided zero records for the subject property and seven records within the Phase I study area as of March 9, 2022. The records are provided in the ERIS Report (**Appendix E**) and summarized as follows:

Subject Property

- No records available.

Phase I Study Area (Surrounding Properties within 250 m radius)

- Two ERIS Historical Searches (EHS);
- Four Ontario Regulation 347 Waste Generators Summary records (GEN); and
- One Ontario Spills record (SPL).

Three of the waste generator records are for the generation of waste oils and lubricants by Leitrim Ready-Mix Ltd., located at Highway 31 and Blais Road, approximately 53.41 m south-east of the subject property. The exact location of this record could not be determined.

One of the waste generator records is for the generation of unspecified inorganics by Transport Canada at 3151 Blais Road, approximately 141.8 m north of the subject property.

The Ontario Spills record is for the release of sediment to Findlay Creek, approximately 53.4 m south-east of the subject property in 2013.

None of the records provided for the Phase I study area were considered to be of potential environmental concern at the subject property.

A total of eight records were identified in the database search but were unplottable sites (i.e., location unknown). The unplottable reports are provided in the ERIS report (**Appendix E**) and included:

- Five Certificates of Approval (CA);
- One Compliance and Convictions record (CONV);
- One Environmental Compliance Approval (ECA);
- Two ERIS Historical Searches (EHS);
- Two Ontario Regulation 347 Waste Generators Summary records (GEN);
- One Private and Retail Fuel Storage Tanks record (PRT);
- One Permit to Take Water (PTTW);
- Four Retail Fuel Storage Tanks records (RST);
- Six Ontario Spill records (SPL);

CM3 reviewed the unplottable record details to determine if the listed sites were within the Phase I study area. The locations of the above records were outside of the Phase I study area or could not be confirmed. It is not likely that the above records present an environmental concern at the subject property.

4.3 Physical Setting Sources

4.3.1 Aerial Photographs

Aerial photographs were obtained from ERIS and Google Earth. Aerial photographs from 1937, 1947, 1954, 1976, 1991, 2005, 2015, and 2018 were available for review. Observations from the aerial photographs are provided in the following table:

Table 2: Aerial Photographs		
Property	**Date(s)**	**Observations**
Subject Property	1947	The Subject property is located in the approximate center of the photograph. Land use appears to be agricultural.
	1954	Photograph is very blurry. Land appears similar to 1947 photograph.
	1976	Vacant agricultural land.
	1991	Additional vegetation is present. Agricultural land use was likely ended.
	2005	Additional tree coverage/vegetation.
	2015	Similar to 2005 photo.
	2018	Land has been cleared and ground cover appears to be soil. Potential fill piles on-site
North	1947	Agricultural and natural lands. A watercourse is present, potentially Findlay Creek.
	1954	Photograph is very blurry. Land appears similar to 1947 photograph.
	1976	Land parcel immediately north appears to have a gravel path and one structure on-site. Primarily vacant agricultural and natural lands.
	1991	Additional tree coverage.
	2005	Additional buildings are present (likely outside of study area).
	2015	Residential homes and a park are present.
	2018	Similar to 2015 photo.
East	1947	Tree covered land surrounding by agricultural land. Current Bank Street is also present.
	1954	Photograph is very blurry. Land appears similar to 1947 photograph.
	1976	Agricultural and natural land with Bank Street Beyond. Some buildings are present around Bank Street.
	1991	Additional buildings are present around Bank Street.
	2005	Similar to 1991 photo.
	2015	Additional buildings present surrounding Bank Street.
	2018	Similar to 2015 photo.
South	1947	Agricultural lands.
	1954	Photograph is very blurry. Land appears similar to 1947 photograph.
	1976	Similar to 1947 photo.
	1991	Additional tree coverage.
	2005	Additional tree coverage.
	2015	Additional pathways or roadways made through the natural lands.
	2018	More land has been cleared. Ground cover is soil. Natural lands present beyond.
West	1947	Agricultural land with natural lands beyond.
	1954	Photograph is very blurry. Land appears similar to 1947 photograph.
	1976	Similar to 1947 photo.
	1991	Additional tree coverage.
	2005	Similar to 1991 photo.
	2015	Similar to 1991 photo.
	2018	Additional land has been cleared.

The fill piles observed on the subject property beginning in the 2018 aerial photograph may represent an environmental concern at the subject property. No other environmental concerns were identified from the aerial photographs that were available for review. The ERIS aerial photographs are provided in **Appendix F**.

4.3.2 Topography, Hydrology, Geology

The site slopes gently toward the north-west and sits at an elevation of approximately 93.88 m above sea level (m asl). The areas surrounding the subject property slope from east to west approximately 97 m asl to 94 m asl and south to north approximately 98 m asl to 94 m asl. A water course is located to the north, east, and west of the subject property, outside of the Phase I study

area. Wetlands are present to the north, east, and west of the subject property; the wetlands to the west are provincially significant wetlands (PSWs). The regional groundwater flow direction was inferred based on the topography at the subject property and surrounding area and the presence of local water bodies. The regional groundwater flow is inferred to be north-northwest.

Surface drainage at the subject property is likely controlled by surface coverings (soil and vegetation) and site grading. It is likely that most of the surface drainage is by overland flow to stormwater catch basins located on Miikana Road. Two areas of (partially frozen) ponded water were located on the north-west section of the property and are likely present due to low elevation points from grading activities and excess water from spring snow melt.

Based on the previous geotechnical report (discussed in section 4.1.6) and soil maps provided in the ERIS Physical Setting Report (PSR), soils within the Phase I study area were described as peat overlying sands and silts and then overlying bouldery glacial till. Soils were generally described as well drained with moderate infiltration rates when completely wetted. The bedrock geology of the subject property was provided in the ERIS PSR and was described as dolostone and sandstone of the Beekmantown Group. The surficial geology, bedrock geology, and soil maps are provided in the ERIS PSR, **Appendix G**.

4.3.3 Fill Materials

The site is undeveloped, however, aerial photographs and observations made during the site investigation suggested that construction materials (i.e., topsoil and gravel) may have been stockpiled on site during the construction of the surrounding residential developments. Information regarding fill materials stockpiled or used for the surrounding properties was not available.

4.3.4 Water Bodies, ANSIs and Ground Water Information

Water courses are present to the north, east, and west, outside of the Phase I study area. The Rideau River is located outside of the study area, approximately eight kilometers west of the site. Wetlands are present to the north, east, and west, outside of the Phase I study area; the wetlands to the west are considered provincially significant.

Areas of natural and scientific interest (ANSI) were included in the ERIS search and summarized in the ERIS PSR, **Appendix G**. The Albion Road Wetland ANSI is located west of the site, within the Phase I study area.

No wells were observed during the site visit. No wellhead protection areas were identified within the study area.

4.3.5 Well Records

No well records in the Ontario Water Well Information System (WWIS) were identified to be on-site or within the Phase I study area.

4.4 Site Operating Records

The site has remained undeveloped, therefore, there are no operating records available for review. General information regarding the site and surrounding lands history was gathered during the site interviews and the review of historical information. The limited information regarding the historic surrounding land use is incorporated into the appropriate sections of this report.

5.0 INTERVIEWS

CM3 conducted a phone interview with Mr. Marc Labelle, a planner for the OCDSB, on March 8, 2022. The following information was obtained during the site interview:

- Information regarding recent on-site activities; and
- Information regarding adjacent property uses.

The information gathered in the interview is incorporated into the appropriate sections of this report.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

CM3 conducted the site investigation on March 11, 2022 at approximately 11:00 AM to 12:30 PM. Weather conditions during the site investigation were intermittent clouds and -2°C. The investigation was conducted by Mr. Ethan Risk, EIT of CM3 Environmental. The subject property was vacant with no buildings on-site. All outdoor areas were fully accessible. Site photographs are provided in **Appendix A**.

Site Description

The subject property is roughly square in shape and is bounded by Miikana Road to the north, residential properties to the south and east, and Kelly Farm Drive to the west. The site is located in an area primarily consisting of new or currently under construction residential homes. The subject property was slightly snow covered at the time of the assessment; however, recent aerial photographs show that the ground cover primarily consists of soil and intermittent vegetation. It appears that the site was stripped of the topsoil and was used for staging and stockpiling of fill materials during the development of the surrounding areas beginning in 2017. There are currently no vehicle access points to the subject property. The total area of the site is approximately 25 450 m^2 (2.55 ha). The subject property is currently in the pre-construction phase with no buildings or structures on-site. A site plan is provided as **Figure 3**. Photographs of the subject property are provided in **Appendix A**.

Adjacent Properties

The subject property is located within an area of primarily residential and commercial land use. The surrounding properties are summarized in the following table:

Table 3: Adjacent Property Use

Direction	Description
North adjacent	Miikana Road.
North beyond	Residential Properties.
East adjacent	Residential Properties.
East beyond	Commercial properties and Bank Street.
South adjacent	Residential Properties.
South beyond	Salamander Way and Residential Properties.
West adjacent	Kelly Farm Drive.
West beyond	Residential Properties.

Photographs of the adjacent properties are included in **Appendix A**.

6.2 Specific Observations at Phase I Property

Structures and Buildings

There were no structures or buildings located on-site.

Below Ground Structures

Below ground structures were not identified on-site.

Storage Tanks

Storage tanks were not identified on-site.

Water Supply

There was no water supplied to the site at the time of the investigation.

Underground Utilities

Underground utilities were not identified on-site.

Features of On-Site Structures and Buildings

There were no structures or buildings located on-site.

Wells

No wells were observed on-site during the investigation.

Sewage Works and Wastewater

Wastewater/sewage systems were not identified on-site.

Ground Surface

The general ground cover is unvegetated soil, soil piles and intermittent vegetation. The general groundcover is indicated on **Figure 3** and in the site photographs, **Appendix A**.

Railway Lines or Spurs

There were no railway line or spurs on the subject property or within the Phase I study area.

Areas of Stained Soil, Vegetation or Pavement

No areas of stained soil, vegetation, or pavement were observed on-site.

Stressed Vegetation

Stressed vegetation was not observed at the time of the site visit.

Fill or Debris

Soil, gravel, and boulder piles with some construction debris were observed throughout the site. Historic aerial photographs and observations made during the site investigation suggested that construction materials (i.e., topsoil and gravel) may have been stockpiled on site during the construction of the surrounding residential developments.

Potentially Contaminating Activities

Potentially contaminating activities are listed and numbered in O.Reg. 153/04, Schedule D; Table 2. The following potentially contaminating activities were identified during the site visit and based on the site interview:

- Item 30 – Importation of Fill Material of Unknown Quality. Fill materials may have been stored at the site during development of adjacent properties.

Further details regarding the PCAs are discussed in section 7.2.

Unidentified Substances

Unidentified substances were not observed at the subject property.

Solid (Non-hazardous) Waste

Solid waste concerns were not identified at the subject property.

Hazardous Waste

Hazardous waste was not observed during the site reconnaissance.

Existing Groundwater Issues

Existing groundwater issues were not identified at the subject property.

Air Emissions

Sources of air emissions were not observed during the site visit.

Designated Substances

There are no buildings on-site, therefore, designated substances are not of concern.

Polychlorinated Biphenyls (PCBs)

Polychlorinated Biphenyls (PCBs) may be present in transformers, capacitors, electromagnets, heat transfer units, and fluorescent lamp ballasts. One transformer was located at the north-west corner of the subject property. The transformer appeared to be in good condition and no staining was observed.

Ozone-Depleting Substances (ODSs)

Ozone depleting substances (ODSs) are commonly found in refrigerants in heat pumps, refrigerators, freezers, and air conditioners. No potential ODS containing equipment was observed on-site.

Urea Foam Formaldehyde Insulation (UFFI)

No buildings are present on-site, therefore, UFFI is not of concern.

Mould

No buildings are present on-site; therefore, interior mould is not of concern.

Radon

The Health Canada Radon Information was included in the ERIS PSR. The reported radon ranking for the site is low. The radon information is provided in the ERIS PSR, **Appendix G**. Radon testing was not completed as part of the Phase I ESA.

Herbicides and Pesticides

No herbicides or pesticides were observed at the subject property and were not used at the subject property based on information provided in the site interview.

Dry-Cleaning Operations

Dry cleaning operations were not identified at the subject property or within the Phase I study area.

6.2.1 Enhanced Investigation Property

The subject property is not considered an Enhanced Investigation Property.

6.3 Written Description of Investigation

CM3 conducted the site investigation to inspect the subject property. Access was provided to all outdoor areas of the property. Adjacent properties and other properties of the Phase I study area were observed from the subject property and publicly accessible areas. The exterior inspection of the subject property included utilities, services including wells, wastewater and sewage works,

ground cover and site drainage, areas of staining or stressed vegetation and the presence of fill materials or debris. The adjacent and other properties in the Phase I study area were viewed from the site and public areas for PCAs.

PCAs observed at the subject property during the site investigation included:

- The possible importation of fill material in the development of the adjacent properties.

No other PCAs were observed in the Phase I study area during the site investigation.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses

The subject property was likely used for agricultural purposes or was vacant natural land until recently. Currently the site is vacant and undeveloped. It appears that the site was stripped of the topsoil and was used for staging and stockpiling fill materials during the development of the surrounding areas beginning in 2017-2018. Recent air photographs show that the site is covered with soil and intermittent vegetation.

7.2 Potentially Contaminating Activity

Potentially contaminating activities are listed and numbered in O.Reg. 153/04, Schedule D; Table 2. The PCA identified at the subject property is provided in the following table and on **Figure 4**.

Table 4: Subject Property Potentially Contaminating Activities			
PCA #	**PCA**	**Location**	**Description of Activity**
1	Item 30 – Importation of Fill Material of Unknown Quality	Subject Property.	Fill material of unknown quality likely imported during surrounding development and construction activities.

7.3 Areas of Potential Environmental Concern

The above PCA was evaluated with respect to the age and location (source) of the PCA and potential pathways/migration to the subject property. Based on the evaluation of the PCA, one APEC was identified at the subject property and encompasses the entire property. The APEC identified at the subject property is provided in the following table and on **Figure 4**.

Table 5: Areas of Potential Environmental Concern			
APEC	**Location**	**Cause of Concern**	**COCs**
1	Subject Property	Importation of fill material of unknown quality covering most of the site.	VOCs, PHCs F1-F4 fractions, PAHs, metals, pH

7.4 Phase I Conceptual Site Model

The subject property was vacant with no buildings on-site at the time of the investigation. No water bodies were identified within the Phase I study area. The Rideau River is located north-west of the site, outside of the Phase I study area. Wetlands are located to the north, east, and west of the site. One ANSI (Albion Road Wetland) is located to the west of the site. The Phase I study area is provided on **Figure 2**. The subject property, PCAs, and APECs are provided on **Figure 4**.

A Phase I conceptual site model (CSM) was developed based on the information collected as part of this investigation.

One PCA was identified on-site related to the importation of fill material of unknown quality during surrounding land development activities. Only the on-site PCA (importation of fill material) resulted in an APEC on the subject property. The PCAs and APEC are show on **Figure 4.** The contaminants of concern included are VOCs (including BTEX), PHCs F1-F4 fractions, metals, PAHs and pH.

Underground services are not currently provided to the site. Stormwater catch basins were observed on the adjacent Miikana Road. Drainage on the subject property is likely by overland flow toward the identified catch basins.

The surficial and bedrock geology of the subject property was provided in the ERIS PSR. Additional information regarding overburden was provided in the geotechnical report discussed in section 4.1.6. Soils within the Phase I study area were described as peat overlying sands and silts and then overlying bouldery glacial till. Soils were generally described as well drained with moderate infiltration rates when completely wetted. The bedrock geology of the subject property was described as dolostone and sandstone of the Beekmantown Group.

The inferred regional groundwater flow direction was north-west based on topography and the location of surrounding water courses. The site groundwater flow direction could not be determined based on information gathered as part of this Phase I ESA.

As previously stated, freedom of information requests on the subject property from the MECP and the TSSA have not been received prior to this report being issued. Additional information that may affect the findings of this Phase I ESA and the CSM could be the identification of additional PCAs and APECs at the subject property.

8.0 CONCLUSIONS

CM3 Environmental was retained by Ms. Jean Voth on behalf of the OCDSB to conduct a Phase I ESA for the property located at 820 Miikana Road, Ottawa, Ontario. The Phase I ESA was completed for Site Plan Control and not in support of the filing of a record of site condition.

The findings of the Phase I ESA identified one area of potential environmental concern on the subject property due to historic and current land use on-site (imported fill piles). The contaminants of concern included VOCs (including BTEX), PHCs F1-F4 fractions, metals, PAHs and pH, and potentially contaminated media included soil and potentially groundwater.

8.1 Requirement for a Phase II ESA

The findings of this Phase I ESA identified one PCA on the subject property (imported fill piles) which could result in adverse environmental conditions at the subject property. One APEC was identified based on the PCA.

A Phase II ESA is required to characterize soil conditions (and possibly groundwater if soil concentrations are above MECP Site Condition Standards).

9.0 REFERENCES

Ontario Ministry of Environment, Conservation and Parks. Guide for completing phase one environmental site assessments under Ontario Regulation 153/04. Available online at https://www.ontario.ca/page/guide-completing-phase-one-environmental-site-assessments-under-ontario-regulation-15304

Province of Ontario. Regulation 153/04 available online at https://www.ontario.ca/laws/regulation/040153

Canadian Standards Association. Z768-01 (R2012) Phase I Environmental Site Assessment

City of Ottawa Online Mapping Tool. Available online at: https://maps.ottawa.ca/geoottawa/

10.0 LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by CM3 Environmental Inc. for the OCDSB It is intended for the sole and exclusive use of the OCDSB, their affiliated companies and partners and their respective insurers, agents, employees, and advisors. Any use, reliance on, or decision made by any person other than the OCDSB based on this report is the sole responsibility of such other person. CM3 Environmental Inc. and the OCDSB make no representation or warranty to any other person with regard to this report and the work referred to in this report, and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The investigation undertaken by CM3 Environmental Inc. with respect to this report and any conclusions or recommendations made in this report reflect CM3 Environmental Inc.'s judgement based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. This report has been prepared for specific application to this site and it is based, in part, upon visual observation of the site, as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, portions of the site which were unavailable for direct investigation. Substances other than those addressed by the investigation described in this report may exist within the site and substances addressed by the investigation may exist in areas of the site not investigated.

If site conditions or applicable standards change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by the OCDSB, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of CM3 Environmental Inc. Nothing in this report is intended to constitute or provide a legal opinion.

We trust that the above is satisfactory for your purposes at this time. Should you have any questions or concerns, please contact either of the undersigned.

Respectfully submitted,

CM3 Environmental Inc.

Ethan Risk, EIT
Environmental Technician

Marc MacDonald, P.Eng., QP, EP
Principal

FIGURES

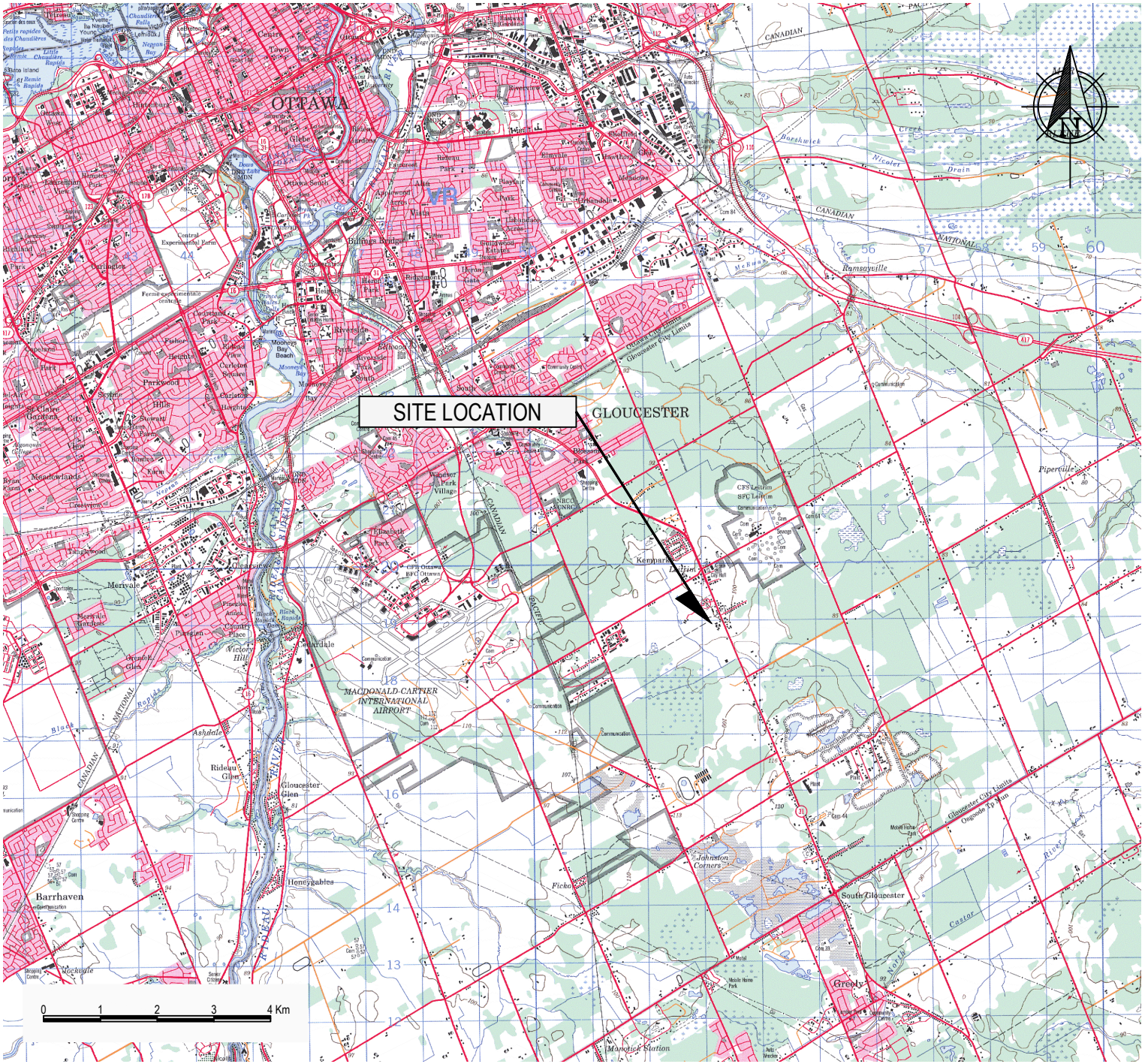
Phase I Environmental Site Assessment

820 Miikana Road

Ottawa, Ontario

OCDSB

ER1004



CM3 ENVIRONMENTAL
5710 AKINS ROAD, OTTAWA, ON
K2S 1B8

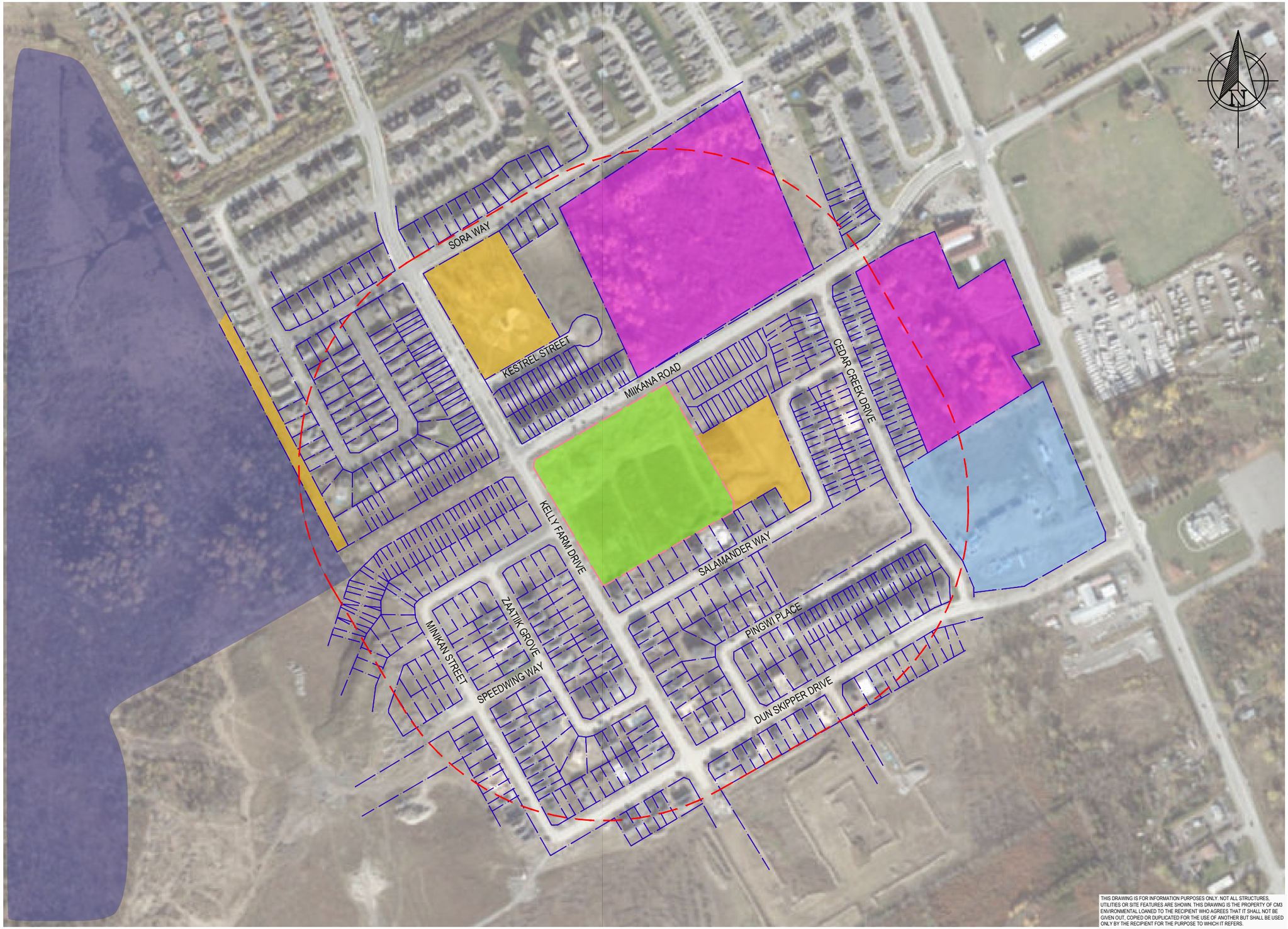
OTTAWA-CARLETON
DISTRICT SCHOOL BOARD

PHASE I ENVIRONMENTAL SITE ASSESSMENT

820 MIIKANA ROAD, OTTAWA, ONTARIO

SITE LOCATION

Project: ER1004	Drawn By: KS
Date: MARCH 2022	Reviewed By: ER
Scale: AS SHOWN	Figure: 1



THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. NOT ALL STRUCTURES, UTILITIES OR SITE FEATURES ARE SHOWN. THIS DRAWING IS THE PROPERTY OF CM3 ENVIRONMENTAL LOANED TO THE RECIPIENT WHO AGREES THAT IT SHALL NOT BE GIVEN OUT, COPIED OR DUPLICATED FOR THE USE OF ANOTHER BUT SHALL BE USED ONLY BY THE RECIPIENT FOR THE PURPOSE TO WHICH IT REFERS.

LEGEND

- PROPERTY BOUNDARY INSIDE THE PHASE I STUDY AREA
- SUBJECT SITE
- PHASE I STUDY AREA (250m)

ZONING

- MINOR INSTITUTIONAL OR RESIDENTIAL
- PARKS AND OPEN SPACES
- DEVELOPMENT RESERVE
- GENERAL MIXED USE
- ENVIRONMENTAL PROTECTION
- RESIDENTIAL AND/OR RURAL COUNTRYSIDE (NO COLOUR)

Scale 1:4000

0 40 80 120 160 m

(Approx. When plotted 11x17)

CM3 ENVIRONMENTAL
5710 AKINS ROAD, OTTAWA, ON
K2S 1B8

OTTAWA-CARLETON DISTRICT SCHOOL BOARD

PHASE I ENVIRONMENTAL SITE ASSESSMENT

820 MIIKANA ROAD, OTTAWA, ONTARIO

PHASE I STUDY AREA (250 M RADIUS)

Project: ER1004	Drawn By: KS
Date: MARCH 2022	Reviewed By: ER
Scale: 1:4000	Figure: 2

MIIKANA ROAD

SALAMANDER WAY

KELLY FARM DRIVE

781 783 785 787 791 793 795 797

801 803 805 307 809 811 813 815 817 819 821 823 825 827 829 831 833 835 837 839

782 784 786 788 790 792 794 796

164 166 168 170 172

157 159 161 163 165

50 4500

52 4502

54 4504

56 4506

58 4508

60 4510

62 4512

64 4514

301 303 305 307 309 311 313 315 317 319

QUEST PRIVATE

300 302 304 306 308 310 312 314 316 318 320 322

10 12 14 16 18 20 22 24 26 28 30 32 34 36

HYDRO TRANSFORMER

POOLING WATER

BOULDERS AND GRAVEL PILES

POOLING WATER

FILL PILES

BOULDERS AND GRAVEL PILES

GRAVEL

N

LEGEND

- PROPERTY BOUNDARY INSIDE THE PHASE I STUDY AREA
- SUBJECT SITE

BURIED UTILITIES:

- STORM SEWER
- SANITARY SEWER
- WATER MAIN
- WATER MAIN PRIVATE
- STORM INLET
- STORM MANHOLE
- SANITARY MANHOLE
- WATER VALVE
- FIRE HYDRANT

Scale 1:1000

0 10 20 30 40 m

(Approx. When plotted 11x17)

cm3 environmental

CM3 ENVIRONMENTAL
5710 AKINS ROAD, OTTAWA, ON
K2S 1B8

OTTAWA-CARLETON DISTRICT SCHOOL BOARD

PHASE I ENVIRONMENTAL SITE ASSESSMENT

820 MIIKANA ROAD, OTTAWA, ONTARIO

SITE PLAN

Project:	Drawn By:
ER1004	KS
Date: APRIL 2022	Reviewed By: ER
Scale: 1:1000	Figure: 3

PCA/APEC
1 SUBJECT PROPERTY (ITEM 30): IMPORTED FILL QUALITY UNKNOWN.

801 803 805 307 809 811 813 815 817 819 821 823 825 827 829 831 833 835 837 839

MIIKANA ROAD

782 784 786 788 790 792 794 796

164 166 168 170 172

KELLY FARM DRIVE

157 159 161 163 165

50 4500

52 4502

54 4504

56 4506

58 4508

60 4510

62 4512

64 4514

HYDRO TRANSFORMER

POOLING WATER

BOULDERS AND GRAVEL PILES

1

FILL PILES

POOLING WATER

BOULDERS AND GRAVEL PILES

GRAVEL

301 303 305 307 309 311 313 315 317 319

QUEST PRIVATE

300 302 304 306 308 310 312 314 316 318 320 322

10 12 14 16 18 20 22 24 26 28 30 32 34 36

SALAMANDER WAY

LEGEND

- PROPERTY BOUNDARY INSIDE THE PHASE I STUDY AREA
- SUBJECT SITE

BURIED UTILITIES:

- STORM SEWER
- SANITARY SEWER
- WATER MAIN
- WATER MAIN PRIVATE
- STORM INLET
- STORM MANHOLE
- SANITARY MANHOLE
- WATER VALVE
- FIRE HYDRANT
- 1 PCA LOCATION
- APEC LIMITS

Scale 1:1000

0 10 20 30 40 m

(Approx. When plotted 11x17)

CM3 ENVIRONMENTAL
5710 AKINS ROAD, OTTAWA, ON
K2S 1B8

OTTAWA-CARLETON DISTRICT SCHOOL BOARD

PHASE I ENVIRONMENTAL SITE ASSESSMENT

820 MIIKANA ROAD, OTTAWA, ONTARIO

POTENTIAL CONTAMINATING ACTIVITY (PCA) & AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

Project: ER1004	Drawn By: KS
Date: APRIL 2022	Reviewed By: ER
Scale: 1:1000	Figure: 4

APPENDIX A

SITE PHOTOGRAPHS

Phase I Environmental Site Assessment

820 Miikana Road

Ottawa, Ontario

OCDSB

ER1004

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 1: Looking south-east at the subject property from Miikana Road.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 2: Looking south-west at Miikana Road. The subject property is on the left side of the photo.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 3: Looking north-east at Miikana Road**.** The subject property is on the right side of the photo.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 4: Looking east at boulder and gravel piles at the north corner of the subject property.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 5: Looking south-east at gravel along the east property boundary.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 6: Looking south-west along the south property boundary. Gravel fill and residential homes are in view.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 7: Looking north-west at the subject property from the south property boundary. Snow cover, intermittent vegetation, and residential homes are in view.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 8: Looking west at frozen ponded water on the west side of the subject property.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 9: Looking south at fill piles located slightly west of center on-site.

APPENDIX A PHOTOGRAPHIC RECORD	
Client: Ottawa Carleton District School Board	**Job Number: ER1004**
Site Name: 820 Miikana Road	**Location:** 820 Miikana Road Ottawa, Ontario
Photographer: ER	**Date:** March 11, 2022

Photograph 10: Looking east at a transformer and construction debris on the west corner of the subject property.

APPENDIX B

Chain of Title

Phase I Environmental Site Assessment

820 Miikana Road

Ottawa, Ontario

OCDSB

ER1004

CHAIN OF TITLE REPORT

Project #: 22030400574
Address: 820 Miikana Road, Ottawa
Legal Description: Block 223 Plan 4M1617

Searched at: Ottawa
LRO #: 4

PIN #: 04328-4926 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (200 Acres)	25 03 1849	Crown	**Robert LEE**
22478	Deed	11 04 1910	Robert Lee	Thomas ROBINSON
51308	Deed	18 12 1954	Thomas Robinson	Ada THOMPSON
GL56384	Deed	11 09 1956	Ada Thompson	Freda Isabel LOMBARDO & Rocco LOMBARDO
57998	Deed	11 06 1957	Thomas Robinson	Solomon ROSENBERG
58361	Deed	19 08 1957	Solomon Rosenberg	Remer-Klar Investment Corp.
NS103660	Deed	17 11 1980	Remer-Klar Investment Corp.	The Remer Holding Corp.
N762711	Deed	25 08 1998	Public Guardian and Trustee	Aperdev Investments Inc.
OC344201	Deed	18 06 2004	Freda Isabel Lombardo - Estate	Rocco LOMBARDO

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project #: 22030400574
Address: 820 Miikana Road, Ottawa
Legal Description: Block 223 Plan 4M1617

Searched at: Ottawa
LRO #: 4

PIN #: 04328-4926 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
OC577758	Name Change	31 03 2006	The Remer Holding Corp.	Remer Holdings Inc.
OC1283896	Deed	16 09 2011	Rocco Lombardo - Estate	Diana DEMITRO
OC1465293	Deed	04 04 2013	Aperdev Investments Inc. Remer Holdings Inc.	Leitrim South Holdings Inc.
OC1641923	Deed	01 12 2014	Diana Demitro	Leitrim South Holdings Inc.
OC2084382	Easement	14 03 2019	Leitrim South Holdings Inc.	Hydro Ottawa Limited
OC2414246	Deed **(Present Owner)**	22 10 2021	Leitrim South Holdings Inc.	**Ottawa-Carleton District School Board**

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

PROPERTY DESCRIPTION: BLOCK 223, PLAN 4M1617; SUBJECT TO AN EASEMENT IN GROSS OVER PART 59 PLAN 4R31780 AS IN OC2084382 EXCEPT PT 1 ON PL 4R-32503; CITY OF OTTAWA

PROPERTY REMARKS: FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2016/07/07.

ESTATE/QUALIFIER:
FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY:
DIVISION FROM 04328-4447

PIN CREATION DATE:
2020/01/31

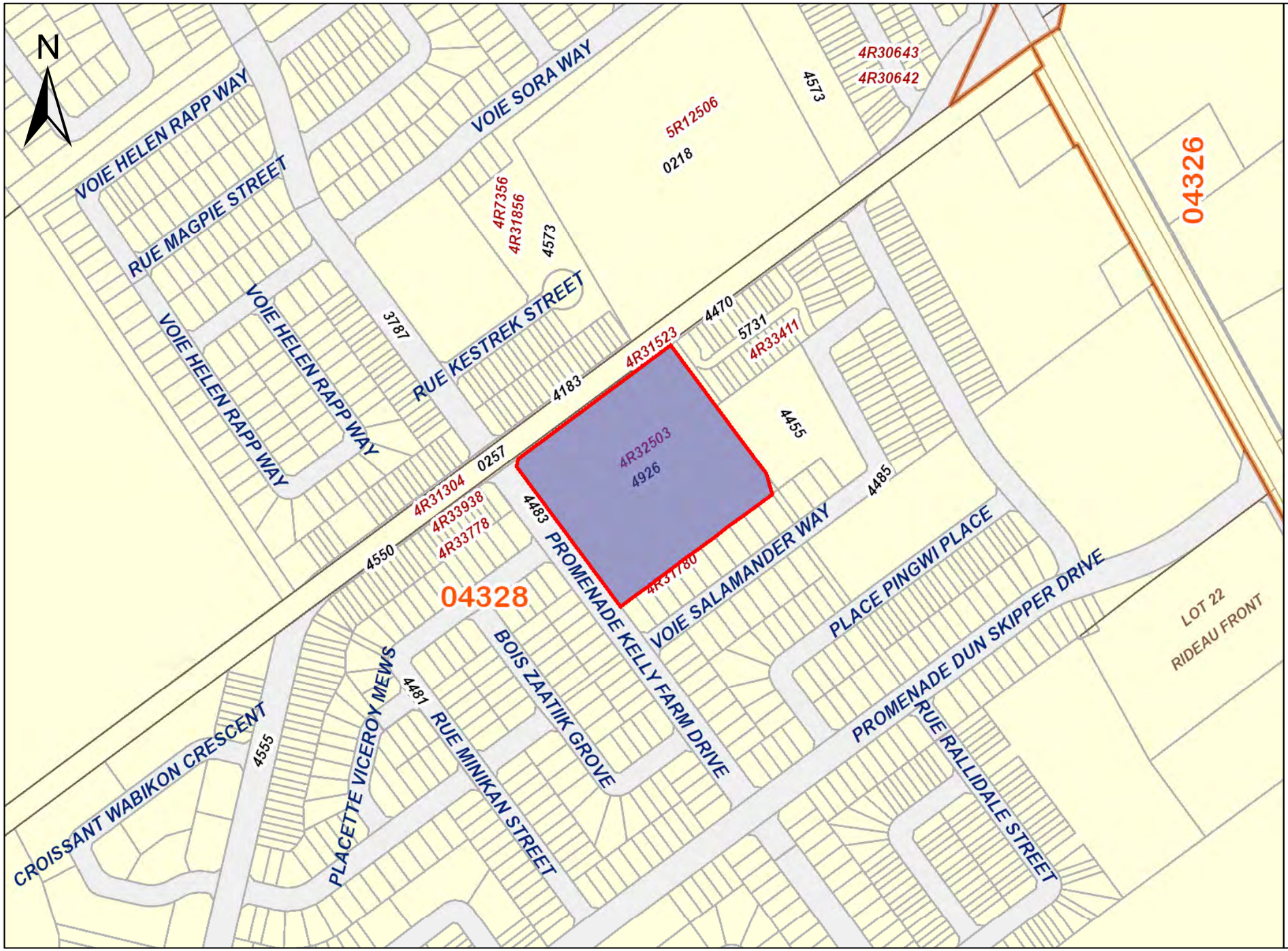
OWNERS' NAMES
OTTAWA-CARLETON DISTRICT SCHOOL BOARD

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2020/01/31 **						
**SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *						
** PROVINCIAL SUCCESSION DUTIES AND EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE **						
** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
GL74226	1964/04/06	NOTICE		DEPARTMENT OF TRANSPORT		C
REMARKS: SEE LT109062 AND MULTIPLE OTTAWA AIRPORT ZONING REGULATION						
CORRECTIONS: 'PARTY' CHANGED FROM 'DEPARTMENT OF TRANSPORTATION ZONING REGULATION' TO 'DEPARTMENT OF TRANSPORT' ON 2009/02/09 BY PATRICIA CORKERY.						
GL75633	1964/11/12	BYLAW				C
NS146175	1982/03/26	ORDER IN COUNCIL				C
REMARKS: AMENDMENT						
NS146176	1982/03/26	ORDER IN COUNCIL				C
REMARKS: AMENDMENT						
OC1135995	2010/07/16	NOTICE		HER MAJESTY THE QUEEN IN RIGHT OF CANADA		C
REMARKS: AIRPORT ZONING REGULATION						
OC1982243	2018/03/29	CHARGE		*** DELETED AGAINST THIS PROPERTY *** LEITRIM SOUTH HOLDINGS INC.	BANK OF MONTREAL	
4M1617	2019/02/22	PLAN SUBDIVISION				C
OC2079608	2019/02/22	NO SUB AGREEMENT		CITY OF OTTAWA	LEITRIM SOUTH HOLDINGS INC.	C
OC2079609	2019/02/22	NOTICE	$1	CITY OF OTTAWA	LEITRIM SOUTH HOLDINGS INC.	C
OC2079612	2019/02/22	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
REMARKS: OC1982243 TO OC2079608						

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2079615	2019/02/22	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	CITY OF OTTAWA	
	REMARKS: OC1982243 TO OC2079609					
4R31780	2019/02/22	PLAN REFERENCE				C
OC2084382	2019/03/14	TRANSFER EASEMENT	$1	LEITRIM SOUTH HOLDINGS INC.	HYDRO OTTAWA LIMITED	C
OC2084399	2019/03/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** BANK OF MONTREAL	HYDRO OTTAWA LIMITED	
	REMARKS: OC1982243 TO OC2084382 PART 59 PLAN 4R31780					
OC2244178	2020/08/11	CHARGE		*** DELETED AGAINST THIS PROPERTY *** LEITRIM SOUTH HOLDINGS INC.	BANK OF MONTREAL	
OC2247944	2020/08/21	DISCH OF CHARGE		*** COMPLETELY DELETED *** BANK OF MONTREAL		
	REMARKS: OC1982243.					
OC2414246	2021/10/22	TRANSFER	$4,246,425	LEITRIM SOUTH HOLDINGS INC.	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	C
	REMARKS: PLANNING ACT STATEMENTS.					
OC2441751	2022/01/06	DISCH OF CHARGE		*** COMPLETELY DELETED *** BANK OF MONTREAL		
	REMARKS: OC2244178.					



ServiceOntario

PRINTED ON 27 MAR, 2022 AT 11:29:58
FOR BERTUCCI

SCALE

0 30 60 90 120 150
meters

PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

Ontario

APPENDIX C

City Directory

Phase I Environmental Site Assessment

820 Miikana Road

Ottawa, Ontario

OCDSB

ER1004

ENVIRONMENTAL RISK INFORMATION SERVICES

CITY DIRECTORY

Project Property: *820 Miikana Road, Ottawa, Ontario*
Report Type: *City Directory*
Order No: *22030400574*
Information Source: *Vernon's Ottawa, Ontario, City Directory*
Date Completed: *2022/03/09*

*****Note addendum regarding documentation results*****

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

City Directory Information Source
Vernon's Ottawa & Area, Ontario, City Directory

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 2011	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Dom's Auto Body -Fit Vision -Capital Flooring -Allied Flooring Provincial Wood
4815 Bank Street	-Ron's Rental World Inc. -Ottawa Camping Trailers Ltd. -U-Haul Co
837 Cedar Creek Drive	-Residential, or Address Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*

4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 2006/2007	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Changes For Women Franchise Corp. -Allied Flooring Provincial Wood
4815 Bank Street	-Ron's Rental World Inc. -Ottawa Camping Trailers Ltd
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*

616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 2001/2002	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Allied Flooring Brokers Inc. -Provincial Wood
4815 Bank Street	-Ron's Rental World Inc. -Ottawa Camping Trailers Ltd.
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 1996/1997	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Residential, or Address Not Listed
4815 Bank Street	-Residential, or Address Not Listed
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 1992	

Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Address Not Listed
4815 Bank Street	-Address Not Listed
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 1987	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	

4806 Bank Street	-Address Not Listed
4815 Bank Street	-Address Not Listed
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 1981/1982	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Address Not Listed
4815 Bank Street	-Address Not Listed

837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 1976	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Address Not Listed
4815 Bank Street	-Address Not Listed
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*

4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 1971	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Address Not Listed
4815 Bank Street	-Address Not Listed
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 1965 - 1966	
Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Address Not Listed
4815 Bank Street	-Address Not Listed
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

PROJECT NUMBER: 22030400574	
Site Address:	820 Miikana Road, Ottawa, Ontario
Year: 1961	

Site Listing:	*-Information Inaccessible*
Adjacent Properties:	
4806 Bank Street	-Address Not Listed
4815 Bank Street	-Address Not Listed
837 Cedar Creek Drive	-Street Not Listed
4355 Kelly Farm Drive	*-Information Inaccessible*
4366 Kelly Farm Drive	*-Information Inaccessible*
616 Sora Way	-Street Not Listed

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory.

*****Due to unforeseen circumstances resulting from the Covid-19 pandemic of 2020, access to information sources has been prohibited. While all additional measures were taken in order to provide accurate information where possible, some project searches yielded no results.*****

APPENDIX D

Freedom of Information Requests

Phase I Environmental Site Assessment

820 Miikana Road

Ottawa, Ontario

OCDSB

ER1004

Ontario

Ministry of the Environment, Conservation and Parks

Freedom of Information Request for Property Information

Instructions

Use this form to:

- submit and pay for a new FOI request for access to records/information about a property
- pay for a deposit or a final fee on an existing FOI request

Fields marked with an asterisk (*) are mandatory.

Are you: *

☑ Submitting a new FOI Request for Property Information

☐ Paying a deposit or final fee for an existing FOI Request for Property Information

Section 1 – Description of Records Requested

Time Period for Records Requested

From (yyyy/mm/dd) * 1920/01/01

To (yyyy/mm/dd) * 2022/03/08

Type of Record(s) *

☑ All environmental records relating to the identified property/site exclusive of Environmental Approvals and Registrations

☑ Environmental Approvals and Registrations (e.g. Environmental Compliance Approvals; Certificate of Approval; Renewable Energy Approvals; Environmental Activity and Sector Registry Registrations)

Select only if you are seeking access to an Approval or Registration that is not publicly available or if you are also seeking supporting documents relating to the Approval or Registration.

Operator and vendor Pesticide Licenses from September 4, 2018, final Approvals and Registrations are publicly available on the Access Environment website at:
https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en.

Records of Site Condition (RSC) records are publicly available on the Brownfields Environmental Site Registry (BSER).

- RSC records between 2004 to June 30, 2011 are available at: https://www.lrcsde.lrc.gov.on.ca/besrWebPublic/generalSearch
- RSC records filed after July 2011 are available at: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/earchFiledRsc_search?request_locale=en

☐ Other Specific Document(s)

Type of Approval/Registration *

☐ Drinking Water Licenses

☐ Pesticide Licenses

- [ ] Permits to Take Water
- [ ] Noise Vibrations Approvals/Registrations
- [ ] Air Emissions Approvals/Registrations
- [ ] Water Approvals/Registrations - Ontario Water Resources Commission, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster), mains
- [ ] Sewage – Treatment, Stormwater, Storm, Leachate & Lieachate Treatment & Sewage pump stations, Sanitary
- [ ] Waste Water - Industrial discharge
- [x] Waste Sites - Disposal, Landfill sites, Transfer stations, Processing sites, Incinerator sites
  - [x] No Supporting Documents [ ] All Supporting Documents [ ] Some Supporting Documents
- [ ] Waste Management Systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, Polychlorinated Biphenyls (PCBs) storage, transfer or destruction, Waste Generator Systems)
- [x] Waste Generator Registration - number/class

List any record(s) that should be excluded from the scope of your request (e.g. email correspondences; records originating from your organization/business; records already in your possession, prior year(s) annual reports for approvals)

Please provide any additional relevant information relating to your request. For example, does your request relate to any other ministry business? Please note that this information is being requested only in order to provide contextual information to the Access and Privacy Office and will not in any way affect or expedite the status of any related ministry business identified.

Phase I Environmental Site Assessment

Section 2 – Requester Information

Last Name * Risk

First Name * Ethan

Middle Initial

Business/Organization Name (if applicable or indicate “N/A”) * CM3 Environmental Inc.

Project/Reference Number (if applicable) ER1004

Are you submitting this request on behalf of a client? *

[ ] Yes [x] No

Mailing Address

Unit Number

Street Number * 5710

Street Name * Akins Road

PO Box

City/Town * Stittsville

Province * ON

Postal Code * K2S 1B8

Telephone Number * | ext. | Email Address *

613-304-5410 | | ethan@cm3environmental.com

Is there an alternate contact (e.g. office admin)? *

☐ Yes ☑ No

Section 3 – Current Property Address Information

Is the property a:

☐ Park ☐ Lake ☐ First Nation Band ☐ Wind Farm ☐ Federal Land ☐ Island ☐ Unsurveyed Land

Are you requesting information about multiple addresses? *

☐ Yes ☑ No

Property Address

Unit Number: | Street Number: 820 | Street Name: Miikana Road

Full Lot Number: | Concession: | Geographic Township: Ottawa

City/Town/Village *: Ottawa

Closest Intersection: Kelly Farm Drive and Miikana Road

Section 4 – Previous Property Address Information

Do you want the ministry to search all prior historical addresses for this property/site for the time period of the records requested? *

☐ Yes ☑ No

Section 5 – Owner Information

Please provide all present and previous property owner and/or tenant names for the search years requested.

Current Property Owner/Tenant

820 Miikana Road
Ottawa
Ottawa

Owner Name: Ottawa Carleton District School Board | Date of Ownership (yyyy/mm/dd):

Tenant Name:

Section 6 – Supporting Documents

Please upload any documents (e.g. Maps) that are relevant to your FOI request.

The total size of all attachments must not be more than 8 MB.

1. File Name: Site Location - GeoOttawa.pdf

Total File Size

0.86 MB

Payment confirmation number: 23022824

Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Customer Service: 1.877.682.8772
Fax: 416.734.3568
Email:publicinformationservices@tssa.org
www.tssa.org

Application for Release of Public Information

Issued under the Access and Privacy Code

Clear Form | Print Form

A. REQUESTOR INFORMATION:

Your File/Project/Reference No: ER1004 Date: March 8, 2022

Requestor Name:	Organization	For Office Use Only
Ethan Risk	CM3 Environmental Inc.	

Suite/Unit No:	Street No:	Street Name:	Authorization No.
	5710	Akins Road	

City:	Province:	Postal Code:	Account No.
Stittsville	ON	K2S 1B8	

Primary Phone:	Secondary Phone:	SR No.
613-304-5410	613-838-2323	

Email:	Fax:	P.I No:
ethan@cm3environmental.com	613-838-2717	

B. PROGRAM (check ALL that apply)

☐ Boilers & Pressure Vessels ☐ Elevating & Amusement Devices ☑ Fuels ☐ Upholstered and Stuffed Articles

C. DETAILS OF REQUEST (please list in detail the information you require)

Information regarding fuels storage or use.

D. PLEASE ANSWER ALL THAT APPLY:

Address of Subject Location (one address per form)
820 Miikana Road, Ottawa, Ontario

Device/equipment Type: _____ Owner: _____

Installation Number: _____

CRN: _____ OIN: _____ Serial #: _____

Victim Name (if applicable): _____

Certificate Holder Name (if applicable): _____ Certificate Holder Date of Birth: _____ (DD-MM-YYYY)

Date /period requested:

☐ From (date): 1920 to (date) 2022

☐ Most recent record

Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Fax: 416.734.3568
Customer Service: 1.877.682.8772
Email:publicinformationservices@tssa.org
www.tssa.org

Application for Release of Public Information
Issued under the Access and Privacy Code

E. REASON FOR REQUEST (please explain the reason for your request)

Phase I Environmental Site Assessment

F. TERMS AND CONDITIONS:

Please refer to the link for our Access and Privacy Code Access and Privacy Code.pdf. If this request includes a release of personal information, TSSA will require consent from the effected party.

Applicant Signature		Date
[signature]	**Please Print and sign before returning to TSSA**	March 8, 2022

G. FEES & PAYMENT:

TSSA will provide a fee quote for multiple record requests, which must be approved by the Applicant before a record search commences. For fees for single searches, please refer to Fee Schedule Website Fee Schedule.pdf

Payment for single record search is attached (please check if payment attached)

Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9

COMPLETE FOR CREDIT CARD PAYMENTS

Card Type: ☑ VISA ☑ MASTERCARD

Amount of Payment $ [redacted]

Card# [redacted]

Expiry Date [redacted]

In payment of Freedom of Information Request

Name of Card Holder Ethan (*First Name*) Risk (*Last Name*) Client Tel. No. 613-304-5410

Signature of Card Holder [signature] Date 08-03-2022 (DD-MM-YYYY)

File Number: D06-03-22-0053

March 25, 2022

Ethan Risk
CM3 Envrionmental

*Sent via email [*ethan@cm3envrionmental.com*]*

Dear Ethan,

Re: Information Request
820 Miikana 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:

- No information was returned on the Subject Property from Departmental circulation.

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.

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

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,

Amya Martinov
Student Planner

Per:

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

MB / AM

Enclosures: (2)
1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-22-0053

APPENDIX E

ERIS Database Report

Phase I Environmental Site Assessment

820 Miikana Road

Ottawa, Ontario

OCDSB

ER1004

DATABASE REPORT

Project Property:	*820 Miikana Road* *820 Miikana Road* *Ottawa ON K1X 0G5*
Project No:	*ER1004*
Report Type:	*Standard Report*
Order No:	*22030400574*
Requested by:	*CM3 Environmental Inc.*
Date Completed:	*March 9, 2022*

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

Table of Contents

Executive Summary

Property Information:

Project Property:	*820 Miikana Road* *820 Miikana Road Ottawa ON K1X 0G5*
Project No:	*ER1004*

Coordinates:

Latitude:	*45.3119027*
Longitude:	*-75.5937205*
UTM Northing:	*5,017,771.22*
UTM Easting:	*453,460.33*
UTM Zone:	*UTM Zone 18T*

Elevation:	*308 FT* *93.88 M*

Order Information:

Order No:	*22030400574*
Date Requested:	*March 4, 2022*
Requested by:	*CM3 Environmental Inc.*
Report Type:	*Standard Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*CD - Subject Site plus 5 Adjacent Properties*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*
Land Title Search	*Historical Land Title Search*
Physical Setting Report (PSR)	*PSR*
Topographic Map	*National Topographic Maps*
Topographic Map	*ANSI Map & Ontario Base Map (OBM)*

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	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	2	2
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	4	4
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
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
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	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	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	0	0
	Total:	0	7	7	

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	GEN	LEITRIM READY-MIX LTD	BOX 204, RR #6 HWY. 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	SE/53.4	0.93	13
1	GEN	LEITRIM READY-MIX LTD 24-089	BOX 204, RR #6 HWY. 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	SE/53.4	0.93	13
1	GEN	LEITRIM READY-MIX LTD.	HIGHWAY 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	SE/53.4	0.93	13
1	SPL		Blais Rd. east of Bank St. Ottawa ON	SE/53.4	0.93	13
2	EHS		4800 Bank Street Gloucester ON K1X 1G6	ESE/54.1	0.85	14
3	GEN	Transport Canada	3151 Blais Rd. Ottawa ON	N/141.8	-3.08	14
4	EHS		4798 Bank Street Ottawa ON	NW/199.0	-4.00	14

Executive Summary: Summary By Data Source

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Nov 30, 2021 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	4800 Bank Street Gloucester ON K1X 1G6	ESE	54.10	2

Lower Elevation	Address	Direction	Distance (m)	Map Key
	4798 Bank Street Ottawa ON	NW	199.04	4

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Nov 30, 2021 has found that there are 4 GEN site(s) within approximately 0.25 kilometers of the project property.

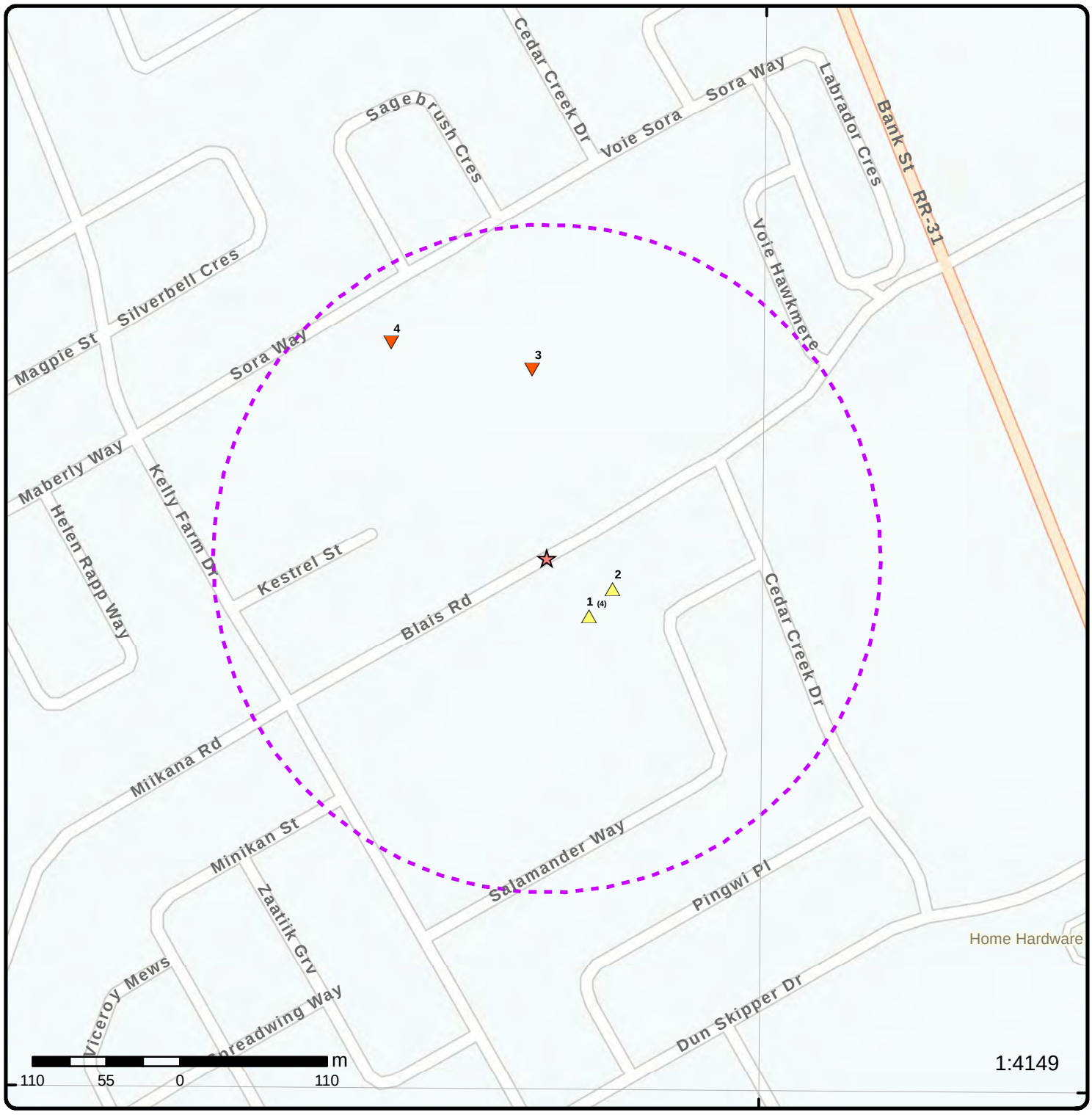
Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
LEITRIM READY-MIX LTD 24-089	BOX 204, RR #6 HWY. 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	SE	53.41	1
LEITRIM READY-MIX LTD.	HIGHWAY 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	SE	53.41	1
LEITRIM READY-MIX LTD	BOX 204, RR #6 HWY. 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	SE	53.41	1

Lower Elevation	Address	Direction	Distance (m)	Map Key
Transport Canada	3151 Blais Rd. Ottawa ON	N	141.84	3

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020; Dec 2020-Mar 2021 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	Blais Rd. east of Bank St. Ottawa ON	SE	53.41	1



Map: 0.25 Kilometer Radius

Order Number: 22030400574

Address: 820 Miikana Road, Ottawa, ON

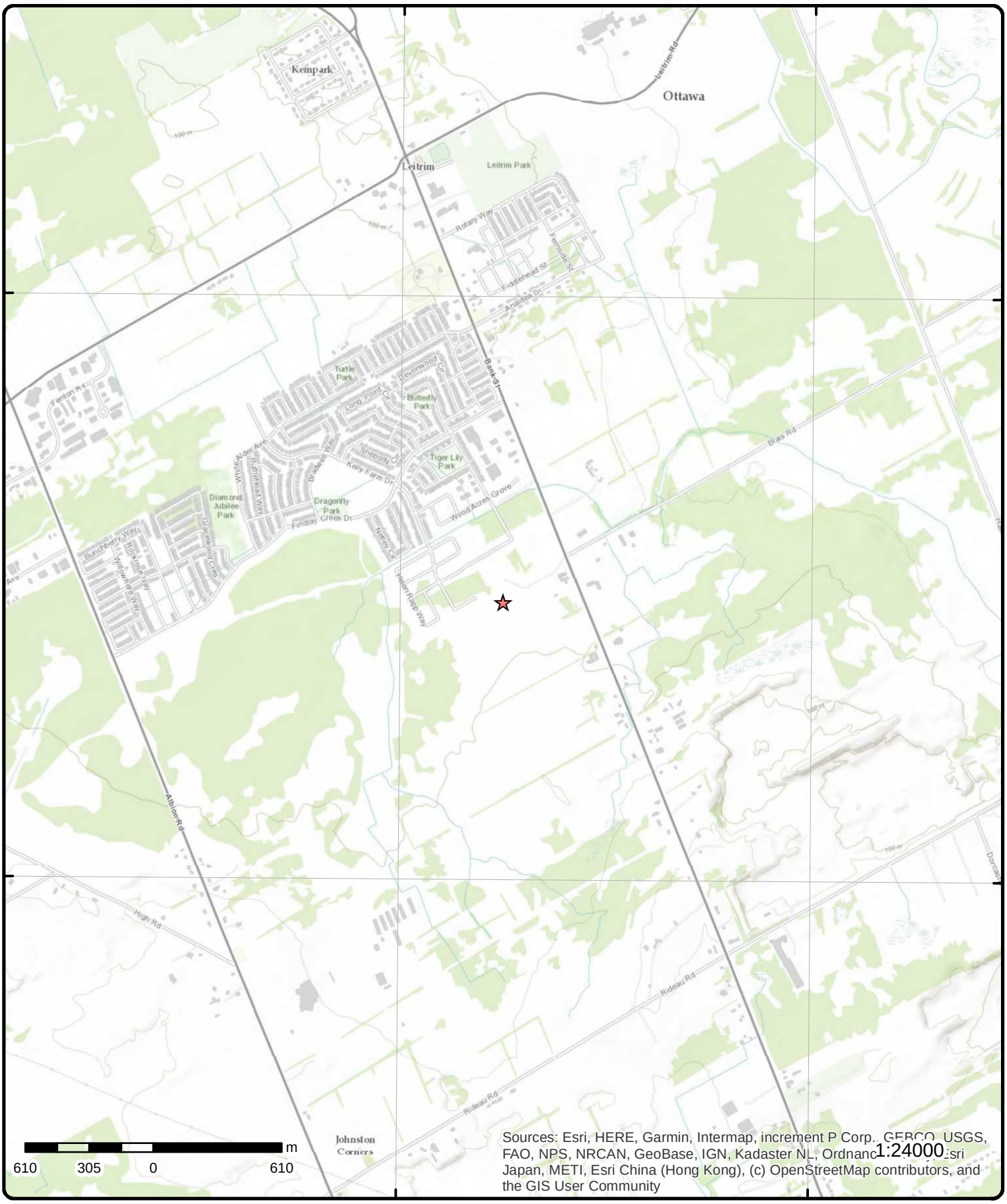
- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- 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)

Aerial **Year: 2020**

Order Number: 22030400574

Address: 820 Miikana Road, Ottawa, ON

Source: ESRI World Imagery



Topographic Map

Order Number: 22030400574

Address: 820 Miikana Road, ON

Source: ESRI World Topographic Map

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 4	SE/53.4	94.8 / 0.93	LEITRIM READY-MIX LTD BOX 204, RR #6 HWY. 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	GEN

Generator No: ON0376000
SIC Code: 3551
SIC Description: READY-MIX CONCRETE
Approval Years: 86,87,88,89,90
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 4	SE/53.4	94.8 / 0.93	LEITRIM READY-MIX LTD 24-089 BOX 204, RR #6 HWY. 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	GEN

Generator No: ON0376000
SIC Code: 3551
SIC Description: READY-MIX CONCRETE
Approval Years: 92,93,94,95,96,97
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	3 of 4	SE/53.4	94.8 / 0.93	LEITRIM READY-MIX LTD. HIGHWAY 31 & BLAINS ROAD GLOUCESTER ON K1G 3N4	GEN

Generator No: ON0376000
SIC Code: 3551
SIC Description: READY-MIX CONCRETE
Approval Years: 98
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	4 of 4	SE/53.4	94.8 / 0.93	Blais Rd. east of Bank St. Ottawa ON	SPL

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

Ref No:	1261-96X28S	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	18-APR-13	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Other	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	43	**Nearest Watercourse:**	
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	**Site Address:**	Blais Rd. east of Bank St.
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Possible	**Site Municipality:**	Ottawa
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	No Field Response	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	19-APR-13	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:	Operator/Human Error	**Source Type:**	
Site Name:	Lot 21, Conc. 5 <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Vacant lot - sediment to Finlay Creek.		
Contaminant Qty:	0 L		

2	1 of 1	ESE/54.1	94.7 / 0.85	**4800 Bank Street** **Gloucester ON K1X 1G6**	EHS

Order No:	20181109043	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	04-DEC-18	**Search Radius (km):**	.25
Date Received:	09-NOV-18	**X:**	-75.593091
Previous Site Name:		**Y:**	45.311703
Lot/Building Size:			
Additional Info Ordered:			

3	1 of 1	N/141.8	90.8 / -3.08	**Transport Canada** **3151 Blais Rd.** **Ottawa ON**	GEN

Generator No:	ON7790952	**Status:**	
SIC Code:	911240	**Co Admin:**	
SIC Description:	Federal Regulatory Services	**Choice of Contact:**	
Approval Years:	2010	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS

4	1 of 1	NW/199.0	89.9 / -4.00	**4798 Bank Street** **Ottawa ON**	EHS

Order No:	20150313044	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON

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

Report Date:	19-MAR-15	***Search Radius (km):***	.25
Date Received:	13-MAR-15	***X:***	-75.595219
Previous Site Name:		***Y:***	45.313349
Lot/Building Size:			
Additional Info Ordered:			

Unplottable Summary

Total: 23 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	CITY	BANK ST.	GLOUCESTER CITY ON	
CA	MACDONALD DEVELOPMENT CORP.	BANK ST.	OTTAWA CITY ON	
CA	MACDONALD DEVELOPMENT CORP.-PLAZA	EASEMENT-BANK STREET	OTTAWA CITY ON	
CA	THE DOUGLAS MACDONALD DEV. CORP.	COMMERCIAL PLAZA BANK STREET	OTTAWA CITY ON	
CA	MINISTRY OF TRANSPORTATION	HIGHWAY #31, LAT. CATCHBASINS	OTTAWA CITY ON	
CONV	Taggart Construction Limited	Bank Street	South Ottawa ON	
ECA	City of Ottawa	Fourth Line Rd Lot 21, Concession 3 and 4, Geographic Township of North Gower	Ottawa ON	K2G 6J8
EHS		Bank St	Ottawa ON	
EHS		Bank St	Ottawa ON	
GEN	Hydro Ottawa Ltd.	Bank St	Ottawa ON	
GEN	Trans Northern Pipelines Inc.	Lot 20 And Road Allowance Between Lots 20 & 21 Rid	Ottawa ON	K1X 1E6
PRT	NAZIMA MEDEWAR	HWY 31	OTTAWA ON	
PTTW	Findlay Creek Properties Ltd. and 1374537 Ontario Ltd.	Lots 19, 20, Concession 4 and Lot 20, Concession 5, Ottawa	ON	
RST	DRUMMOND'S GAS	HIGHWAY 31	GLOUCESTER ON	K1B3B8
RST	CAPITAL CITY GAS	HIGHWAY 31	GLOUCESTER ON	K1G3N4
RST	DRUMMOND'S GAS	HIGHWAY 31	GLOUCESTER ON	K1B 3B8
RST	CAPITAL CITY GAS	HIGHWAY 31	GLOUCESTER ON	K1G 3N4
SPL	ONTARIO HYDRO	BANK ST TRANSFORMER	GLOUCESTER CITY ON	

SPL	ESSO PETROLEUM CANADA	BANK STREET SERVICE STATION	OTTAWA CITY ON
SPL	Donwel Land Inc.	Cedar Creek Rd at Philman Marsh area, Findlay Creek Subdivision	Ottawa ON
SPL	PIONEER PETROLEUMS LTD.	BANK STREET SOUTH PIONEER GAS STATION. SERVICE STATION	OTTAWA CITY ON
SPL	Taggart Construction Limited	Leitrim Road between Bank St and Kelly Farm Dr	Ottawa ON
SPL	UNKNOWN	OSGOODE TOWNSHIP HISTORICAL MUSEUM, HIGHWAAY 31,VERNON	OTTAWA-CARLETON R. M. ON

Unplottable Report

Site: ***CITY***
BANK ST. GLOUCESTER CITY ON

Database: ***CA***

Certificate #:	3-0859-85-006
Application Year:	85
Issue Date:	8/1/85
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***MACDONALD DEVELOPMENT CORP.***
BANK ST. OTTAWA CITY ON

Database: ***CA***

Certificate #:	3-1072-88-
Application Year:	88
Issue Date:	9/28/1988
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***MACDONALD DEVELOPMENT CORP.-PLAZA***
EASEMENT-BANK STREET OTTAWA CITY ON

Database: ***CA***

Certificate #:	3-1864-86-
Application Year:	86
Issue Date:	12/19/1986
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***THE DOUGLAS MACDONALD DEV. CORP.***
COMMERCIAL PLAZA BANK STREET OTTAWA CITY ON

Database: ***CA***

Certificate #:	7-1304-86-
Application Year:	86

Issue Date: 10/28/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MINISTRY OF TRANSPORTATION***
HIGHWAY #31, LAT. CATCHBASINS OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-1342-93-
Application Year: 93
Issue Date: 12/31/1993
Approval Type: Municipal sewage
Status: Preliminary approval
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Taggart Construction Limited***
Bank Street South Ottawa ON

Database: ***CONV***

File No: 010503
Crown Brief No:
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Location:
Region:
Ministry District:

Description: On December 3, 2009, Taggart Construction Limited pleaded guilty to one violation under the Ontario Water Resources Act for failing to comply with a Provincial Officer Order to submit weekly water taking records showing daily water taking volumes. The company was contracted to install municipal services for the Findlay Creek Subdivision located on Bank Street in South Ottawa. A ministry inspection of the construction site in the fall of 2007 revealed concerns with water taking activities and a Provincial Officer Order was issued. One of the requirements of the Order, related to keeping accurate water taking records and submitting them to the ministry, was not complied with. The company was charged following an investigation by the ministry's Investigations and Enforcement Branch and was fined $5,000 plus victim fine surcharge. The company was given 30 days to pay the fine.

Background:
URL:

Additional Details

Publication Date:
Count: 1
Act: Provincial Officer Order
Regulation:
Section:
Act/Regulation/Section: Provincial Officer Order
Date of Offence:
Date of Conviction:

Date Charged: December 3, 2009
Charge Disposition: fine, victim fine surcharge
Fine: $5,000
Synopsis:

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

Approval No: 2323-BLGKVU
Approval Date: 2020-03-05
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: Fourth Line Rd Lot 21, Concession 3 and 4, Geographic Township of North Gower
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0642-BEJMYY-14.pdf
PDF Site Location:

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

Site: ***Database:*** ***EHS***
Bank St Ottawa ON

Order No: 20031121005
Status: C
Report Type: Basic Report
Report Date: 11/25/03
Date Received: 11/21/03
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection: See Faxed Map
Municipality:
Client Prov/State: ON
Search Radius (km): 0.50
X: -75.654252
Y: 45.363635

Site: ***Database:*** ***EHS***
Bank St Ottawa ON

Order No: 20060427021
Status: C
Report Type: Custom Report
Report Date: 5/5/2006
Date Received: 4/26/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.670288
Y: 45.364953

Site: ***Hydro Ottawa Ltd.*** ***Database:*** ***GEN***
Bank St Ottawa ON

Generator No: ON8798860
SIC Code:
SIC Description:
Approval Years: 03,04
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Site: ***Trans Northern Pipelines Inc.*** ***Database:*** ***GEN***
Lot 20 And Road Allowance Between Lots 20 & 21 Rid Ottawa ON K1X 1E6

Generator No: ON9068390
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:

Country: Canada ***MHSW Facility:***

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

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Site: ***NAZIMA MEDEWAR***
HWY 31 OTTAWA ON

Database: ***PRT***

Location ID: 11082
Type: retail
Expiry Date: 1996-03-31
Capacity (L): 36368
Licence #: 0016234001

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

Database: ***PTTW***

EBR Registry No: IA06E1038 ***Decision Posted:***
Ministry Ref No: 6114-6SQHA7 ***Exception Posted:***
Notice Type: Instrument Final Decision ***Section:***
Notice Stage: ***Act 1:***
Notice Date: November 30, 2006 ***Act 2:***
Proposal Date: August 17, 2006 ***Site Location Map:***
Year: 2006
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Findlay Creek Properties Ltd. and 1374537 Ontario Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address:
Comment Period:
URL:

Site Location Details:

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

Site: ***DRUMMOND'S GAS***
HIGHWAY 31 GLOUCESTER ON K1B3B8

Database: ***RST***

Headcode: 01186800
Headcode Desc: SERVICE STATIONS GASOLINE OIL & NATURAL
Phone: 6138221391
List Name:
Description:

Site: ***CAPITAL CITY GAS***
HIGHWAY 31 GLOUCESTER ON K1G3N4

Database: ***RST***

Headcode: 01186800
Headcode Desc: SERVICE STATIONS GASOLINE OIL & NATURAL
Phone: 6138221324
List Name:
Description:

Site: ***DRUMMOND'S GAS***
HIGHWAY 31 GLOUCESTER ON K1B 3B8

Database: ***RST***

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

Site: ***CAPITAL CITY GAS***
HIGHWAY 31 GLOUCESTER ON K1G 3N4

Database: ***RST***

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

Site: ***ONTARIO HYDRO***
BANK ST TRANSFORMER GLOUCESTER CITY ON

Database: ***SPL***

Ref No:	19785	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	7/9/1988	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	COOLING SYSTEM LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	NOT ANTICIPATED	**Site Municipality:**	20105
Nature of Impact:		**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	7/11/1988	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	OTHER	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: BACKENTRY - ONTARIO HYDROTRANSFORMER OIL (AMT U/K)ON GROUND
Contaminant Qty:

Site: ***ESSO PETROLEUM CANADA***
BANK STREET SERVICE STATION OTTAWA CITY ON

Database: ***SPL***

Ref No:	147934	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	10/16/1997	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	PIPE/HOSE LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	NOT ANTICIPATED	**Site Municipality:**	20101
Nature of Impact:		**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	

MOE Reported Dt:	10/16/1997	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	DAMAGE BY MOVING EQUIPMENT	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ESSO SERVICE STATION: 40 L GASOLINE TO GROUND		
Contaminant Qty:			

Site: ***Donwel Land Inc.***
Cedar Creek Rd at Philman Marsh area, Findlay Creek Subdivision Ottawa ON

Database: ***SPL***

Ref No:	7661-7JSKUE	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Discharges	***Sector Type:***	Tank Truck
Incident Event:		***Agency Involved:***	
Contaminant Code:	99	***Nearest Watercourse:***	
Contaminant Name:	WATER (HIGH CHLORINE)	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	Planned Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/24/2008	***Site Map Datum:***	
Dt Document Closed:	11/13/2008	***SAC Action Class:***	Watercourse Spills
Incident Reason:	Error- Operator error	***Source Type:***	
Site Name:	Findlay Creek<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Donwell Land, Clorinated water to Findlay Creek.		
Contaminant Qty:	1000 L		

Site: ***PIONEER PETROLEUMS LTD.***
BANK STREET SOUTH PIONEER GAS STATION. SERVICE STATION OTTAWA CITY ON

Database: ***SPL***

Ref No:	137358	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/20/1997	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	CONTAINER OVERFLOW	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/20/1997	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PIONEER PETROLEUMS-4L GASOLINE TO GROUND,UNSAFESPILL RESPONSE BY STAFF.		
Contaminant Qty:			

Site: ***Taggart Construction Limited***
Leitrim Road between Bank St and Kelly Farm Dr Ottawa ON

Database: ***SPL***

Ref No:	2680-B2YRRG	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2018/07/24	***Health/Env Conseq:***	2 - Minor Environment
Year:		***Client Type:***	Corporation
Incident Cause:		***Sector Type:***	Unknown / N/A
Incident Event:	Overflow/Surcharge	***Agency Involved:***	
Contaminant Code:	99	***Nearest Watercourse:***	
Contaminant Name:	STORM WATER WITH SUSPENDED SOLIDS	***Site Address:***	Leitrim Road between Bank St and Kelly Farm Dr
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:	n/a	***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Surface Water	***Northing:***	5019587.95
MOE Response:	No	***Easting:***	452535.17
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	Map
MOE Reported Dt:	2018/07/24	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Flooding	***Source Type:***	Unknown / N/A

Site Name: Leitrim Road, between Bank St and Kelly Farm Drive<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth: 10 -100 metres eg. Topographic Map
Incident Summary: Taggart Constr. - Stormwater overflow to jobsite
Contaminant Qty: 0 other - see incident description

Site: ***UNKNOWN***
OSGOODE TOWNSHIP HISTORICAL MUSEUM, HIGHWAAY 31,VERNON OTTAWA-CARLETON R.M. ON

Database: ***SPL***

Ref No:	3978	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	//	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	UNDERGROUND TANK LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20000
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	5/20/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	CORROSION	***Source Type:***	

Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: STINSON FUELS-<1111 L FURNACE OIL TO GROUND FROM DESERTED TANK
Contaminant Qty:

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Sep 30, 2021

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 2019

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: May 31, 2021

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-Sep 30, 2021

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 -Nov 2021

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-Jul 2021

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Jan 31, 2022

Drill Hole Database: Provincial DRL

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

Government Publication Date: 1886 - Sep 2020

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: May 31, 2021

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- Jan 31, 2021

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 - Jan 31, 2022

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011- Jan 31, 2021

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-Nov 30, 2021

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: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

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: May 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2019

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

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

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing 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: May 31, 2021

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: Feb 28, 2019

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Dec 2020

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

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Nov 30, 2021

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-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994 - Jan 31, 2022

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: Oct 2011- Jan 31, 2021

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: May 31, 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 all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Jan 31, 2022

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

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

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

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

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2019

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 - Dec 2020

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: May 31, 2021

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- Jan 31, 2021

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: Sep 30, 2021

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 F

Aerial Photographs

Phase I Environmental Site Assessment

820 Miikana Road

Ottawa, Ontario

OCDSB

ER1004

HISTORICAL AERIALS

Project Property:	820 Miikana Road 820 Miikana Road Ottawa ON K1X 0G5
Project No:	ER1004
Requested By:	CM3 Environmental Inc.
Order No:	22030400574
Date Completed:	March 04, 2022

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

Decade	Year	Image Scale	Source
1920	Not Available		
1930	Not Available		
1940	1947	20000	NAPL
1950	1954	10000	Hunting Survey Corporation Limited
1960	Not Available		
1970	1976	10000	City of Ottawa
1980	Not Available		
1990	1991	10000	City of Ottawa
2000	2005	10000	City of Ottawa
2010	2015	10000	City of Ottawa

0 0.125 0.25 0.5
Kilometers

Order Number: 22030400574

Year: 1947
Source: NAPL
Map Scale: 1: 10000
Comments: Adjacent Frame Unavailable

ERIS

0 0.125 0.25 0.5
Kilometers

Order Number: 22030400574

Year: 1954
Source: Hunting Survey Corporation Limited
Map Scale: 1: 10000
Comments: Best Copy Available

ERIS

0 0.125 0.25 0.5
Kilometers

Order Number: 22030400574

Year: 1976
Source: City of Ottawa
Map Scale: 1: 10000
Comments:

ERIS

0 0.125 0.25 0.5
Kilometers

Order Number: 22030400574

Year: 1991
Source: City of Ottawa
Map Scale: 1: 10000
Comments:

ERIS

0 0.125 0.25 0.5
Kilometers

Order Number: 22030400574

Year: 2005
Source: City of Ottawa
Map Scale: 1: 10000
Comments:

ERIS

0 0.125 0.25 0.5
Kilometers

Order Number: 22030400574

Year: 2015
Source: City of Ottawa
Map Scale: 1: 10000
Comments:

ERIS

APPENDIX F

Physical Setting Report

Phase I Environmental Site Assessment

820 Miikana Road

Ottawa, Ontario

OCDSB

ER1004

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		22030400574p
Date Completed:		March 9, 2022
Project Number:		ER1004
Project Property:		820 Miikana Road 820 Miikana Road Ottawa ON K1X 0G5
Coordinates:		
	Latitude:	45.3119027
	Longitude:	-75.5937205
	UTM Northing:	5017771.22079 Metres
	UTM Easting:	453460.327051 Metres
	UTM Zone:	UTM Zone 18T
	Elevation:	93.88 m
	Slope Direction:	NNW

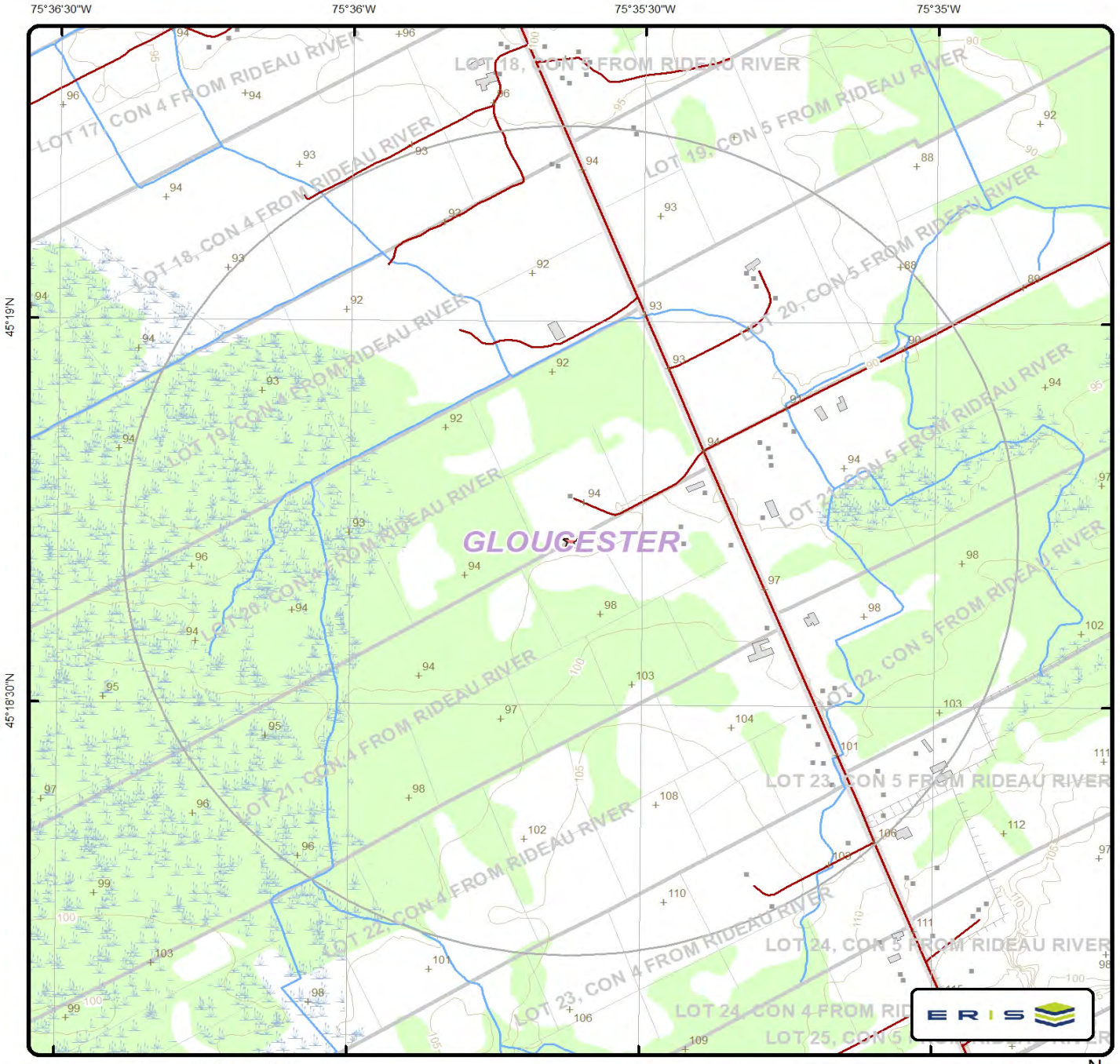
The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography as well as hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Topographic Map

Address: 820 Miikana Road,Ottawa,ON

0 0.2 0.4 0.8 KM

N

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

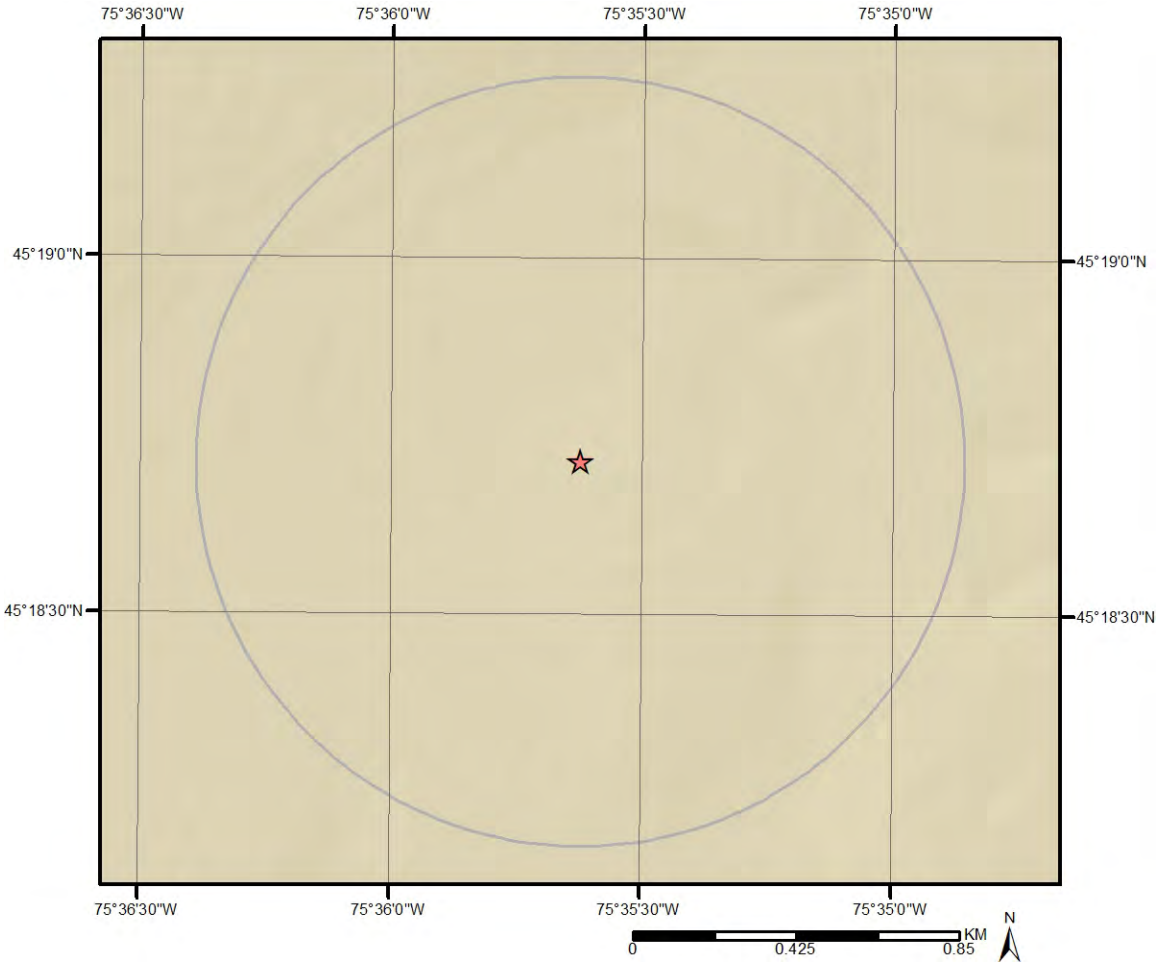
Data source: Ontario Base Mapping (OBM) by Ontario Ministry of Natural Resources.

Topographic Information

The previous topographic map(s) show general topographic information in the surrounding area of the project property, using Toporama data or a provincial source when available. Below are shaded relief map(s), derived from Digital Elevation data to depict terrain in further detail.

Topographic information at project property:

Elevation:	93.88 m
Slope Direction:	NNW



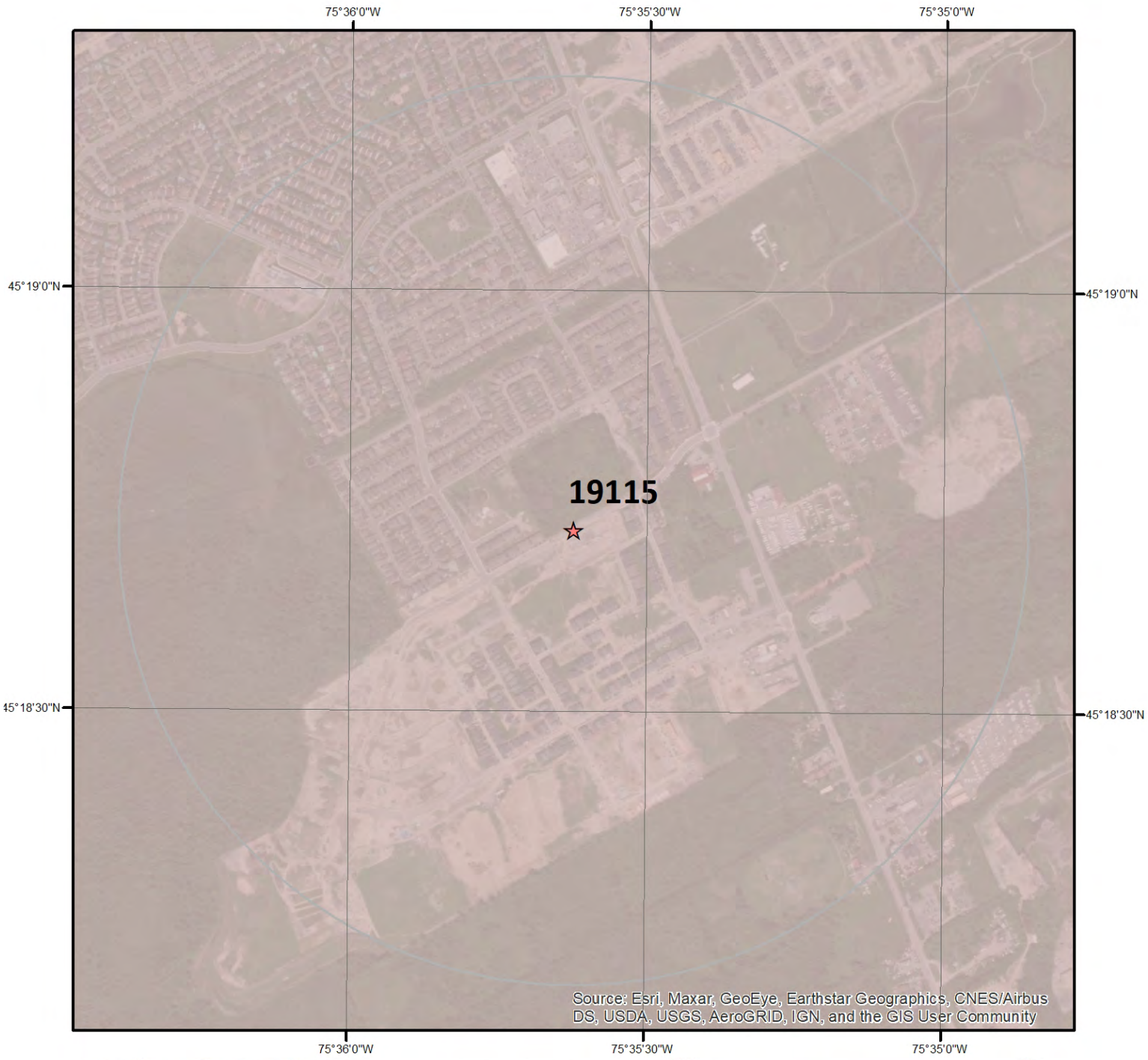
Hydrologic Information

Wetland

This map shows wetland existence. Data coverage is shown to the right.
Gray indicates no data available in the area.

- Evaluated PSW
- Swamp
- Fen
- Marsh

Geologic Information



Bedrock Geology

0 0.2 0.4 KM

N

This map shows bedrock geologic units in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.

ERIS

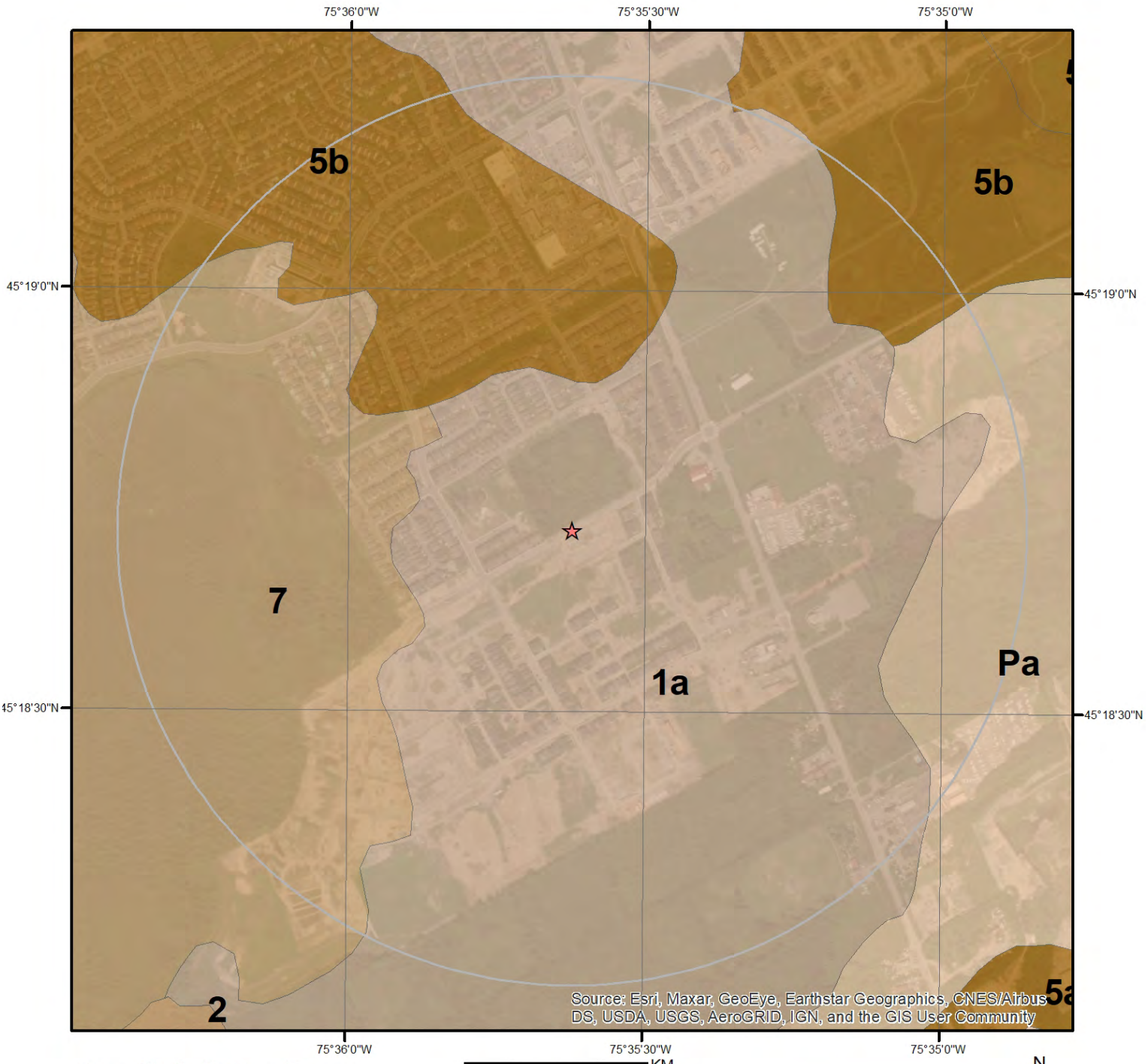
Geologic Information

Detailed bedrock geology information about each unit within the search radius is provided below.

Unit ID 19115

Unit Name:	
Rock Type:	Dolostone, sandstone
Strata:	Beekmantown Group
Super Eon:	
Eon:	PHANEROZOIC (Present to 542.0 Ma)
Era:	PALEOZOIC (251.0 Ma to 542.0 Ma)
Period:	ORDOVICIAN (443.7 Ma to 488.3 Ma)
Epoch:	LOWER ORDOVICIAN
Province:	
Tectonic Zone:	

Geologic Information



Surficial Geology

This map shows surficial geologic labels in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.

Geologic Information

Detailed surficial geology information about each unit within the search radius is provided below.

Unit ID 5b

Geological Deposit:	Nearshore sediments
Deposit Age:	Quaternary (Champlain Sea)
Primary Material:	sand
Secondary Material:	
Primary General:	glaciomarine
Primary General Modifier:	foreshore/basinal
Veneer:	
Episode:	Wisconsin
Sub Episode:	Michigan
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	High
Material Description:	Fine-to medium-grained sand, calcareous and commonly fossiliferous; nearshore sand generally occurs as a sheet or as bars or spits associated with glaciofluvial materials.

Unit ID 1a

Geological Deposit:	Till
Deposit Age:	Quaternary
Primary Material:	diamicton
Secondary Material:	
Primary General:	glacial
Primary General Modifier:	
Veneer:	
Episode:	Wisconsin
Sub Episode:	Michigan
Strata Modifier:	Surface
Provenance:	N-NE
Carbon Content:	
Formation:	Undifferentiated silty-sandy till on Paleozoic terrain
Permeability:	Low-Medium
Material Description:	Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a discontinuous lag consisting of gravel, sand and boulders

Unit ID 7

Geological Deposit:	Organic deposits
Deposit Age:	Recent

Geologic Information

Primary Material:	organic deposits
Secondary Material:	
Primary General:	wetland
Primary General Modifier:	
Veneer:	
Episode:	Hudson
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	High
Material Description:	Mainly muck and peat in bogs, fens, swamps and poorly drained areas.

Unit ID Pa

Geological Deposit:	Bedrock
Deposit Age:	Paleozoic
Primary Material:	Paleozoic Bedrock
Secondary Material:	
Primary General:	
Primary General Modifier:	
Veneer:	clay, silt, sand, gravel, diamicton
Episode:	
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Variable
Material Description:	Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

Soil Information

Soil Map

0 0.2 0.4 0.8 KM

N

This map shows soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information

Detailed soil information about each unit within the search radius is provided below.

Ontario Detailed Soil Survey (DSS3)

Polygon ID: OND401071980

Component

Component ID:	OND40107198001	**Components(%):**	100
Soil Name ID:	ONCNB~~~~~A	**Slope Steepness(%):**	1.2
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	
Second CLI Limitation Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	silt loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	CARSONBY
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Always
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Marine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Medium Acid to Neutral; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	16
Horizon:	Ap	**Total Sand(%):**	25

Soil Information

Depth(cm):	0-21	**Total Silt(%):**	61
pH in Calc Chloride:	7	**Total Clay(%):**	14
Saturated Hydraulic Conductivity(cm/h):	0.687	**Organic Carbon(%):**	2.3
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	12
Horizon:	Bg	**Total Sand(%):**	16
Depth(cm):	21-50	**Total Silt(%):**	74
pH in Calc Chloride:	7.1	**Total Clay(%):**	10
Saturated Hydraulic Conductivity(cm/h):	0.395	**Organic Carbon(%):**	0.2
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	22
Horizon:	Bg	**Total Sand(%):**	26
Depth(cm):	50-74	**Total Silt(%):**	67
pH in Calc Chloride:	7.3	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	1.047	**Organic Carbon(%):**	1.6
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	9
Horizon:	Cg	**Total Sand(%):**	10
Depth(cm):	74-100	**Total Silt(%):**	80
pH in Calc Chloride:	7.4	**Total Clay(%):**	10
Saturated Hydraulic Conductivity(cm/h):	0.259	**Organic Carbon(%):**	0.9
Electrical Conductivity (dS/m):	0		

Polygon ID: ONDA01071975

Component

Component ID:	ONDA0107197501	**Components(%):**	70
Soil Name ID:	ONCNB~~~~~A	**Slope Steepness(%):**	1.2
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	
Second CLI Limitation	

Soil Information

Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	silt loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	CARSONBY
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Always
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Marine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Medium Acid to Neutral; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	16
Horizon:	Ap	**Total Sand(%):**	25
Depth(cm):	0-21	**Total Silt(%):**	61
pH in Calc Chloride:	7	**Total Clay(%):**	14
Saturated Hydraulic Conductivity(cm/h):	0.687	**Organic Carbon(%):**	2.3
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	12
Horizon:	Bg	**Total Sand(%):**	16
Depth(cm):	21-50	**Total Silt(%):**	74
pH in Calc Chloride:	7.1	**Total Clay(%):**	10
Saturated Hydraulic Conductivity(cm/h):	0.395	**Organic Carbon(%):**	0.2
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	22
Horizon:	Bg	**Total Sand(%):**	26
Depth(cm):	50-74	**Total Silt(%):**	67
pH in Calc Chloride:	7.3	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	1.047	**Organic Carbon(%):**	1.6
Electrical Conductivity (dS/m):	0		

Soil Information

Layer No:	4	**Very Fine Sand(%):**	9
Horizon:	Cg	**Total Sand(%):**	10
Depth(cm):	74-100	**Total Silt(%):**	80
pH in Calc Chloride:	7.4	**Total Clay(%):**	10
Saturated Hydraulic Conductivity(cm/h):	0.259	**Organic Carbon(%):**	0.9
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND40107197502	**Components(%):**	30
Soil Name ID:	ONOKA~~~~~A	**Slope Steepness(%):**	3.5
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Slightly stony		

Component Rating

Field Crops Capability:	
First CLI Limitation Subclass:	
Second CLI Limitation Subclass:	
Drainage:	Well
Soil Texture of A Horizon:	
Hydrological Soil Groups:	Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel.

Soil Name

Soil Name:	OKA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Never
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Coarse; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Marine; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Soil Information

Layer No:	1	**Very Fine Sand(%):**	9
Horizon:	Apk	**Total Sand(%):**	70
Depth(cm):	0-12	**Total Silt(%):**	22
pH in Calc Chloride:	6.9	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	5.409	**Organic Carbon(%):**	4
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	9
Horizon:	Bmk	**Total Sand(%):**	71
Depth(cm):	12-30	**Total Silt(%):**	20
pH in Calc Chloride:	7.2	**Total Clay(%):**	9
Saturated Hydraulic Conductivity(cm/h):	3.079	**Organic Carbon(%):**	0.6
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	3
Horizon:	Ck	**Total Sand(%):**	91
Depth(cm):	30-100	**Total Silt(%):**	6
pH in Calc Chloride:	7.3	**Total Clay(%):**	3
Saturated Hydraulic Conductivity(cm/h):	6.109	**Organic Carbon(%):**	0.1
Electrical Conductivity (dS/m):	0		

Polygon ID: OND401072044

Component

Component ID:	ONDO40107204401	**Components(%):**	100
Soil Name ID:	ONZOR~~~~~N	**Slope Steepness(%):**	1.2
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	
First CLI Limitation Subclass:	
Second CLI Limitation Subclass:	
Drainage:	Very Poorly
Soil Texture of A Horizon:	
Hydrological Soil Groups:	Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material.

Soil Information

Soil Name

Soil Name:	ORGANIC
Kind of Surface Material:	Organic
Soil Drainage Class:	Very poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Mesic; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Undifferentiated organic; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Medium Acid to Neutral; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	-9
Horizon:	Oh	**Total Sand(%):**	-9
Depth(cm):	0-99	**Total Silt(%):**	-9
pH in Calc Chloride:	5.5	**Total Clay(%):**	-9
Saturated Hydraulic Conductivity(cm/h):	3.455	**Organic Carbon(%):**	20
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	0
Horizon:	Bg	**Total Sand(%):**	23
Depth(cm):	99-149	**Total Silt(%):**	17
pH in Calc Chloride:	5.9	**Total Clay(%):**	60
Saturated Hydraulic Conductivity(cm/h):	0.21	**Organic Carbon(%):**	0.6
Electrical Conductivity (dS/m):	0		

Polygon ID: ONDA01072092

Component

Component ID:	OND40107209201	**Components(%):**	70
Soil Name ID:	ONGVI~~~~~A	**Slope Steepness(%):**	7
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Moderately stony		

Soil Information

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Presence of adverse Topography
Second CLI Limitation Subclass:	
Drainage:	Well
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	GRENVILLE
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	18
Horizon:	Ap	**Total Sand(%):**	59
Depth(cm):	0-19	**Total Silt(%):**	30
pH in Calc Chloride:	7.2	**Total Clay(%):**	11
Saturated Hydraulic Conductivity(cm/h):	2.565	**Organic Carbon(%):**	2.3
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	18
Horizon:	Ap	**Total Sand(%):**	62
Depth(cm):	19-35	**Total Silt(%):**	33
pH in Calc Chloride:	7.4	**Total Clay(%):**	5
Saturated Hydraulic Conductivity(cm/h):	5.087	**Organic Carbon(%):**	1.5
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	21
Horizon:	Ae	**Total Sand(%):**	63

Soil Information

Depth(cm):	35-55	**Total Silt(%):**	32
pH in Calc Chloride:	7.4	**Total Clay(%):**	5
Saturated Hydraulic Conductivity(cm/h):	4.441	**Organic Carbon(%):**	0.5
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	19
Horizon:	Bt	**Total Sand(%):**	56
Depth(cm):	55-77	**Total Silt(%):**	26
pH in Calc Chloride:	7.1	**Total Clay(%):**	18
Saturated Hydraulic Conductivity(cm/h):	0.856	**Organic Carbon(%):**	0.4
Electrical Conductivity (dS/m):	0		

Layer No:	5	**Very Fine Sand(%):**	20
Horizon:	BC	**Total Sand(%):**	61
Depth(cm):	77-92	**Total Silt(%):**	28
pH in Calc Chloride:	7.3	**Total Clay(%):**	11
Saturated Hydraulic Conductivity(cm/h):	1.805	**Organic Carbon(%):**	0.3
Electrical Conductivity (dS/m):	0		

Layer No:	6	**Very Fine Sand(%):**	22
Horizon:	Ck	**Total Sand(%):**	65
Depth(cm):	92-100	**Total Silt(%):**	30
pH in Calc Chloride:	7.6	**Total Clay(%):**	5
Saturated Hydraulic Conductivity(cm/h):	3.082	**Organic Carbon(%):**	0
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND40107209202	**Components(%):**	30
Soil Name ID:	ONMTD~~~~~A	**Slope Steepness(%):**	1.2
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Moderately stony		

Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	Presence of surface stones > 15 cm diameter.
Second CLI Limitation Subclass:	
Drainage:	Imperfectly

Soil Information

Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	MATILDA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	35
Horizon:	Ap	**Total Sand(%):**	47
Depth(cm):	0-22	**Total Silt(%):**	39
pH in Calc Chloride:	7.3	**Total Clay(%):**	14
Saturated Hydraulic Conductivity(cm/h):	1.383	**Organic Carbon(%):**	2.1
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	34
Horizon:	Bmgj	**Total Sand(%):**	49
Depth(cm):	22-35	**Total Silt(%):**	43
pH in Calc Chloride:	7.6	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	2.361	**Organic Carbon(%):**	0.4
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	12
Horizon:	Ckgj	**Total Sand(%):**	48
Depth(cm):	35-100	**Total Silt(%):**	44
pH in Calc Chloride:	7.7	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	1.46	**Organic Carbon(%):**	0.3
Electrical Conductivity (dS/m):	0		

Polygon ID: OND401072048

Soil Information

Component

Component ID:	OND40107204801	**Components(%):**	70
Soil Name ID:	ONGVISH~~~A	**Slope Steepness(%):**	3.5
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Very stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Presence of consolidated bedrock within one metre of the soil surface
Second CLI Limitation Subclass:	Presence of surface stones > 15 cm diameter.
Drainage:	Well
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	GRENVILLE
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Never
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	15
Horizon:	Ap	**Total Sand(%):**	61
Depth(cm):	0-37	**Total Silt(%):**	31
pH in Calc Chloride:	7.2	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	3.765	**Organic Carbon(%):**	2.4
Electrical Conductivity (dS/m):	0		

Soil Information

Layer No:	2	**Very Fine Sand(%):**	15
Horizon:	Bm	**Total Sand(%):**	59
Depth(cm):	37-53	**Total Silt(%):**	33
pH in Calc Chloride:	7.3	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	2.843	**Organic Carbon(%):**	1.1
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	15
Horizon:	CK	**Total Sand(%):**	45
Depth(cm):	53-70	**Total Silt(%):**	48
pH in Calc Chloride:	7.5	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	1.568	**Organic Carbon(%):**	0.6
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	-9
Horizon:	R	**Total Sand(%):**	-9
Depth(cm):	70-100	**Total Silt(%):**	-9
pH in Calc Chloride:	Not applicable	**Total Clay(%):**	-9
Saturated Hydraulic Conductivity(cm/h):	Not applicable	**Organic Carbon(%):**	Not applicable
Electrical Conductivity (dS/m):	Not applicable		

Component

Component ID:	OND40107204802	**Components(%):**	30
Soil Name ID:	ONMTDSH~~~A	**Slope Steepness(%):**	3.5
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Very stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Presence of consolidated bedrock within one metre of the soil surface
Second CLI Limitation Subclass:	Presence of surface stones > 15 cm diameter.
Drainage:	Imperfectly
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Information

Soil Name

Soil Name:	MATILDA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Always
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	15
Horizon:	Ap	**Total Sand(%):**	41
Depth(cm):	0-17	**Total Silt(%):**	38
pH in Calc Chloride:	6.5	**Total Clay(%):**	21
Saturated Hydraulic Conductivity(cm/h):	0.88	**Organic Carbon(%):**	3.3
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	10
Horizon:	Bmg	**Total Sand(%):**	29
Depth(cm):	17-38	**Total Silt(%):**	43
pH in Calc Chloride:	6.8	**Total Clay(%):**	28
Saturated Hydraulic Conductivity(cm/h):	0.341	**Organic Carbon(%):**	0.8
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	11
Horizon:	BCg	**Total Sand(%):**	39
Depth(cm):	38-50	**Total Silt(%):**	38
pH in Calc Chloride:	7	**Total Clay(%):**	23
Saturated Hydraulic Conductivity(cm/h):	0.407	**Organic Carbon(%):**	1.5
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	-9
Horizon:	R	**Total Sand(%):**	-9
Depth(cm):	50-100	**Total Silt(%):**	-9
pH in Calc Chloride:	Not applicable	**Total Clay(%):**	-9
Saturated Hydraulic Conductivity(cm/h):	Not applicable	**Organic Carbon(%):**	Not applicable

Soil Information

Electrical Conductivity (dS/m):	Not applicable

Polygon ID: OND401072085

Component

Component ID:	OND40107208501	**Components(%):**	70
Soil Name ID:	ONRSL~~~~~A	**Slope Steepness(%):**	1.2
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Severe limitations on use for crops.
First CLI Limitation Subclass:	Low inherent soil Fertility
Second CLI Limitation Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	RAMSAYVILLE
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Growing season
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Very Coarse; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Fluvial; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Medium Acid to Neutral; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	3
Horizon:	Ap	**Total Sand(%):**	86
Depth(cm):	0-20	**Total Silt(%):**	10

Soil Information

pH in Calc Chloride:	5.5	**Total Clay(%):**	4
Saturated Hydraulic Conductivity(cm/h):	6.641	**Organic Carbon(%):**	1.1
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	5
Horizon:	Bmgj	**Total Sand(%):**	93
Depth(cm):	20-31	**Total Silt(%):**	6
pH in Calc Chloride:	4.7	**Total Clay(%):**	1
Saturated Hydraulic Conductivity(cm/h):	9.187	**Organic Carbon(%):**	1
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	1
Horizon:	BCgj	**Total Sand(%):**	97
Depth(cm):	31-53	**Total Silt(%):**	2
pH in Calc Chloride:	4.6	**Total Clay(%):**	1
Saturated Hydraulic Conductivity(cm/h):	8.134	**Organic Carbon(%):**	0.2
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	1
Horizon:	Cgj	**Total Sand(%):**	98
Depth(cm):	53-100	**Total Silt(%):**	1
pH in Calc Chloride:	4.8	**Total Clay(%):**	1
Saturated Hydraulic Conductivity(cm/h):	7.845	**Organic Carbon(%):**	0.2
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND40107208502	**Components(%):**	30
Soil Name ID:	ONZUN~~~~~N	**Slope Steepness(%):**	1.2
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	Very severe limitations preclude annual cultivation; improvements feasible.
First CLI Limitation Subclass:	Low inherent soil Fertility
Second CLI Limitation Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	

Soil Information

Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	UNCLASSIFIED
Kind of Surface Material:	Unclassified
Soil Drainage Class:	Not applicable
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Not Applicable; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Not Applicable; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Not Applicable; Not Applicable; Not Applicable

Polygon ID:	OND401072076

Component

Component ID:	OND40107207601	**Components(%):**	70
Soil Name ID:	ONFRM~~~~~N	**Slope Steepness(%):**	1.2
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Moderately stony		

Component Rating

Field Crops Capability:	Natural grazing only; no improvements feasible.
First CLI Limitation Subclass:	Presence of consolidated bedrock within one metre of the soil surface
Second CLI Limitation Subclass:	
Drainage:	Well
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	FARMINGTON
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained

Soil Information

Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Fragmental; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	19
Horizon:	Ah	**Total Sand(%):**	44
Depth(cm):	0-21	**Total Silt(%):**	44
pH in Calc Chloride:	7.2	**Total Clay(%):**	12
Saturated Hydraulic Conductivity(cm/h):	1.969	**Organic Carbon(%):**	3.7
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	13
Horizon:	Bm	**Total Sand(%):**	49
Depth(cm):	21-38	**Total Silt(%):**	45
pH in Calc Chloride:	7.1	**Total Clay(%):**	6
Saturated Hydraulic Conductivity(cm/h):	3.014	**Organic Carbon(%):**	3.1
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	19
Horizon:	C	**Total Sand(%):**	57
Depth(cm):	38-50	**Total Silt(%):**	36
pH in Calc Chloride:	7	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	1.979	**Organic Carbon(%):**	1.3
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	-9
Horizon:	R	**Total Sand(%):**	-9
Depth(cm):	50-100	**Total Silt(%):**	-9
pH in Calc Chloride:	Not applicable	**Total Clay(%):**	-9
Saturated Hydraulic Conductivity(cm/h):	Not applicable	**Organic Carbon(%):**	Not applicable
Electrical Conductivity (dS/m):	Not applicable		

Component

Soil Information

Component ID:	OND40107207602	**Components(%):**	30
Soil Name ID:	ONZUN~~~~~N	**Slope Steepness(%):**	1.2
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Moderately stony		

Component Rating

Field Crops Capability:	Natural grazing only; no improvements feasible.
First CLI Limitation Subclass:	Presence of consolidated bedrock within one metre of the soil surface
Second CLI Limitation Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	UNCLASSIFIED
Kind of Surface Material:	Unclassified
Soil Drainage Class:	Not applicable
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Not Applicable; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Not Applicable; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Not Applicable; Not Applicable; Not Applicable

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Polygon ID: OND401072036

Component

Component ID:	OND40107203601	**Components(%):**	70
Soil Name ID:	ONGVI~~~~~A	**Slope Steepness(%):**	1.2
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Moderately stony		

Component Rating

Soil Information

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	Presence of surface stones > 15 cm diameter.
Second CLI Limitation Subclass:	
Drainage:	Well
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	GRENVILLE
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	18
Horizon:	Ap	**Total Sand(%):**	59
Depth(cm):	0-19	**Total Silt(%):**	30
pH in Calc Chloride:	7.2	**Total Clay(%):**	11
Saturated Hydraulic Conductivity(cm/h):	2.565	**Organic Carbon(%):**	2.3
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	18
Horizon:	Ap	**Total Sand(%):**	62
Depth(cm):	19-35	**Total Silt(%):**	33
pH in Calc Chloride:	7.4	**Total Clay(%):**	5
Saturated Hydraulic Conductivity(cm/h):	5.087	**Organic Carbon(%):**	1.5
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	21
Horizon:	Ae	**Total Sand(%):**	63
Depth(cm):	35-55	**Total Silt(%):**	32
pH in Calc Chloride:	7.4	**Total Clay(%):**	5

Soil Information

Saturated Hydraulic Conductivity(cm/h):	4.441	**Organic Carbon(%):**	0.5
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	19
Horizon:	Bt	**Total Sand(%):**	56
Depth(cm):	55-77	**Total Silt(%):**	26
pH in Calc Chloride:	7.1	**Total Clay(%):**	18
Saturated Hydraulic Conductivity(cm/h):	0.856	**Organic Carbon(%):**	0.4
Electrical Conductivity (dS/m):	0		

Layer No:	5	**Very Fine Sand(%):**	20
Horizon:	BC	**Total Sand(%):**	61
Depth(cm):	77-92	**Total Silt(%):**	28
pH in Calc Chloride:	7.3	**Total Clay(%):**	11
Saturated Hydraulic Conductivity(cm/h):	1.805	**Organic Carbon(%):**	0.3
Electrical Conductivity (dS/m):	0		

Layer No:	6	**Very Fine Sand(%):**	22
Horizon:	Ck	**Total Sand(%):**	65
Depth(cm):	92-100	**Total Silt(%):**	30
pH in Calc Chloride:	7.6	**Total Clay(%):**	5
Saturated Hydraulic Conductivity(cm/h):	3.082	**Organic Carbon(%):**	0
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND40107203602	**Components(%):**	30
Soil Name ID:	ONLYS~~~~~A	**Slope Steepness(%):**	1.2
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Moderately stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	
Second CLI Limitation Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Information

Soil Name

Soil Name:	LYONS
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	9
Horizon:	Ap	**Total Sand(%):**	69
Depth(cm):	0-15	**Total Silt(%):**	20
pH in Calc Chloride:	7.1	**Total Clay(%):**	11
Saturated Hydraulic Conductivity(cm/h):	3.066	**Organic Carbon(%):**	2.3
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	8
Horizon:	Ap	**Total Sand(%):**	72
Depth(cm):	15-23	**Total Silt(%):**	22
pH in Calc Chloride:	7.3	**Total Clay(%):**	6
Saturated Hydraulic Conductivity(cm/h):	4.797	**Organic Carbon(%):**	1.3
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	11
Horizon:	Bmgj	**Total Sand(%):**	73
Depth(cm):	23-35	**Total Silt(%):**	20
pH in Calc Chloride:	7.5	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	3.985	**Organic Carbon(%):**	0.4
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	16
Horizon:	Ckg	**Total Sand(%):**	59
Depth(cm):	35-100	**Total Silt(%):**	34

Soil Information

pH in Calc Chloride:	7.6	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	2.123	**Organic Carbon(%):**	0.1
Electrical Conductivity (dS/m):	0		

Polygon ID: OND401072795

Component

Component ID:	OND40107279501	**Components(%):**	90
Soil Name ID:	ONFRM~~~~~N	**Slope Steepness(%):**	3.5
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Exceedingly stony		

Component Rating

Field Crops Capability:	Natural grazing only; no improvements feasible.
First CLI Limitation Subclass:	Presence of consolidated bedrock within one metre of the soil surface
Second CLI Limitation Subclass:	
Drainage:	Well
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	FARMINGTON
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Fragmental; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	19

Soil Information

Horizon:	Ah	**Total Sand(%):**	44
Depth(cm):	0-21	**Total Silt(%):**	44
pH in Calc Chloride:	7.2	**Total Clay(%):**	12
Saturated Hydraulic Conductivity(cm/h):	1.969	**Organic Carbon(%):**	3.7
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	13
Horizon:	Bm	**Total Sand(%):**	49
Depth(cm):	21-38	**Total Silt(%):**	45
pH in Calc Chloride:	7.1	**Total Clay(%):**	6
Saturated Hydraulic Conductivity(cm/h):	3.014	**Organic Carbon(%):**	3.1
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	19
Horizon:	C	**Total Sand(%):**	57
Depth(cm):	38-50	**Total Silt(%):**	36
pH in Calc Chloride:	7	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	1.979	**Organic Carbon(%):**	1.3
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	-9
Horizon:	R	**Total Sand(%):**	-9
Depth(cm):	50-100	**Total Silt(%):**	-9
pH in Calc Chloride:	Not applicable	**Total Clay(%):**	-9
Saturated Hydraulic Conductivity(cm/h):	Not applicable	**Organic Carbon(%):**	Not applicable
Electrical Conductivity (dS/m):	Not applicable		

Component

Component ID:	OND40107279502	**Components(%):**	10
Soil Name ID:	ONGVISH~~~A	**Slope Steepness(%):**	3.5
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Exceedingly stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Presence of consolidated bedrock within one metre of the soil surface
Second CLI Limitation Subclass:	

Soil Information

Drainage:	Well
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	GRENVILLE
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Never
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	15
Horizon:	Ap	**Total Sand(%):**	61
Depth(cm):	0-37	**Total Silt(%):**	31
pH in Calc Chloride:	7.2	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	3.765	**Organic Carbon(%):**	2.4
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	15
Horizon:	Bm	**Total Sand(%):**	59
Depth(cm):	37-53	**Total Silt(%):**	33
pH in Calc Chloride:	7.3	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	2.843	**Organic Carbon(%):**	1.1
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	15
Horizon:	CK	**Total Sand(%):**	45
Depth(cm):	53-70	**Total Silt(%):**	48
pH in Calc Chloride:	7.5	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	1.568	**Organic Carbon(%):**	0.6
Electrical Conductivity (dS/m):	0		

Soil Information

Layer No:	4	**Very Fine Sand(%):**	-9
Horizon:	R	**Total Sand(%):**	-9
Depth(cm):	70-100	**Total Silt(%):**	-9
pH in Calc Chloride:	Not applicable	**Total Clay(%):**	-9
Saturated Hydraulic Conductivity(cm/h):	Not applicable	**Organic Carbon(%):**	Not applicable
Electrical Conductivity (dS/m):	Not applicable		

Polygon ID: OND401072004

Component

Component ID:	OND40107200401	**Components(%):**	70
Soil Name ID:	ONGVI~~~~~A	**Slope Steepness(%):**	3.5
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Very stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Presence of surface stones > 15 cm diameter.
Second CLI Limitation Subclass:	
Drainage:	Well
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	GRENVILLE
Kind of Surface Material:	Mineral
Soil Drainage Class:	Well drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Information

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	18
Horizon:	Ap	**Total Sand(%):**	59
Depth(cm):	0-19	**Total Silt(%):**	30
pH in Calc Chloride:	7.2	**Total Clay(%):**	11
Saturated Hydraulic Conductivity(cm/h):	2.565	**Organic Carbon(%):**	2.3
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	18
Horizon:	Ap	**Total Sand(%):**	62
Depth(cm):	19-35	**Total Silt(%):**	33
pH in Calc Chloride:	7.4	**Total Clay(%):**	5
Saturated Hydraulic Conductivity(cm/h):	5.087	**Organic Carbon(%):**	1.5
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	21
Horizon:	Ae	**Total Sand(%):**	63
Depth(cm):	35-55	**Total Silt(%):**	32
pH in Calc Chloride:	7.4	**Total Clay(%):**	5
Saturated Hydraulic Conductivity(cm/h):	4.441	**Organic Carbon(%):**	0.5
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	19
Horizon:	Bt	**Total Sand(%):**	56
Depth(cm):	55-77	**Total Silt(%):**	26
pH in Calc Chloride:	7.1	**Total Clay(%):**	18
Saturated Hydraulic Conductivity(cm/h):	0.856	**Organic Carbon(%):**	0.4
Electrical Conductivity (dS/m):	0		

Layer No:	5	**Very Fine Sand(%):**	20
Horizon:	BC	**Total Sand(%):**	61
Depth(cm):	77-92	**Total Silt(%):**	28
pH in Calc Chloride:	7.3	**Total Clay(%):**	11
Saturated Hydraulic Conductivity(cm/h):	1.805	**Organic Carbon(%):**	0.3
Electrical Conductivity (dS/m):	0		

Layer No:	6	**Very Fine Sand(%):**	22
Horizon:	Ck	**Total Sand(%):**	65
Depth(cm):	92-100	**Total Silt(%):**	30
pH in Calc Chloride:	7.6	**Total Clay(%):**	5
Saturated Hydraulic	3.082	**Organic Carbon(%):**	0

Soil Information

Conductivity(cm/h):	
Electrical Conductivity (dS/m):	0

Component

Component ID:	OND40107200402	**Components(%):**	30
Soil Name ID:	ONMTD~~~~~A	**Slope Steepness(%):**	1.2
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Very stony		

Component Rating

Field Crops Capability:	moderately severe limitations on use for crops.
First CLI Limitation Subclass:	Presence of surface stones > 15 cm diameter.
Second CLI Limitation Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name:	MATILDA
Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Medium; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Moderately / Very Strongly Calcareous; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	35
Horizon:	Ap	**Total Sand(%):**	47
Depth(cm):	0-22	**Total Silt(%):**	39
pH in Calc Chloride:	7.3	**Total Clay(%):**	14

Soil Information

Saturated Hydraulic Conductivity(cm/h):	1.383	**Organic Carbon(%):**	2.1
Electrical Conductivity (dS/m):	0		
Layer No:	2	**Very Fine Sand(%):**	34
Horizon:	Bmgj	**Total Sand(%):**	49
Depth(cm):	22-35	**Total Silt(%):**	43
pH in Calc Chloride:	7.6	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	2.361	**Organic Carbon(%):**	0.4
Electrical Conductivity (dS/m):	0		
Layer No:	3	**Very Fine Sand(%):**	12
Horizon:	Ckgj	**Total Sand(%):**	48
Depth(cm):	35-100	**Total Silt(%):**	44
pH in Calc Chloride:	7.7	**Total Clay(%):**	8
Saturated Hydraulic Conductivity(cm/h):	1.46	**Organic Carbon(%):**	0.3
Electrical Conductivity (dS/m):	0		

Polygon ID: OND401071993

Component

Component ID:	ONDE40107199301	**Components(%):**	70
Soil Name ID:	ONLEI~~~~~A	**Slope Steepness(%):**	1.2
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Nonstony		

Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	Low inherent soil Fertility
Second CLI Limitation Subclass:	
Drainage:	Imperfectly
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures.

Soil Name

Soil Name: LEICESTER

Soil Information

Kind of Surface Material:	Mineral
Soil Drainage Class:	Imperfectly drained
Water Table Charateristics:	Never
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Fragmental; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Extremely / Strongly Acidic; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	1
Horizon:	Ap	**Total Sand(%):**	17
Depth(cm):	0-19	**Total Silt(%):**	56
pH in Calc Chloride:	6	**Total Clay(%):**	27
Saturated Hydraulic Conductivity(cm/h):	0.354	**Organic Carbon(%):**	1.9
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	1
Horizon:	Bmgj	**Total Sand(%):**	22
Depth(cm):	19-34	**Total Silt(%):**	57
pH in Calc Chloride:	5.5	**Total Clay(%):**	21
Saturated Hydraulic Conductivity(cm/h):	0.341	**Organic Carbon(%):**	0.9
Electrical Conductivity (dS/m):	0		

Layer No:	3	**Very Fine Sand(%):**	1
Horizon:	Cg	**Total Sand(%):**	17
Depth(cm):	34-100	**Total Silt(%):**	64
pH in Calc Chloride:	4.9	**Total Clay(%):**	19
Saturated Hydraulic Conductivity(cm/h):	0.177	**Organic Carbon(%):**	0.4
Electrical Conductivity (dS/m):	0		

Component

Component ID:	OND40107199302	**Components(%):**	30
Soil Name ID:	ONLMR~~~~~A	**Slope Steepness(%):**	1.2
Component No:	2	**Slope Length(m):**	-9
Surface Stoniness Class:	Nonstony		

Soil Information

Component Rating

Field Crops Capability:	moderate limitations on use for crops
First CLI Limitation Subclass:	Low inherent soil Fertility
Second CLI Limitation Subclass:	
Drainage:	Poorly
Soil Texture of A Horizon:	medium - moderately fine loam
Hydrological Soil Groups:	Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture.

Soil Name

Soil Name:	LEIMER
Kind of Surface Material:	Mineral
Soil Drainage Class:	Poorly drained
Water Table Charateristics:	Never
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Fragmental; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Till (Morainal); Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Extremely / Strongly Acidic; Not Applicable; Not Applicable

Soil Layer

Layer No:	1	**Very Fine Sand(%):**	9
Horizon:	Ap	**Total Sand(%):**	69
Depth(cm):	0-15	**Total Silt(%):**	20
pH in Calc Chloride:	7.1	**Total Clay(%):**	11
Saturated Hydraulic Conductivity(cm/h):	3.066	**Organic Carbon(%):**	2.3
Electrical Conductivity (dS/m):	0		

Layer No:	2	**Very Fine Sand(%):**	8
Horizon:	Ap	**Total Sand(%):**	72
Depth(cm):	15-23	**Total Silt(%):**	22
pH in Calc Chloride:	7.3	**Total Clay(%):**	6
Saturated Hydraulic Conductivity(cm/h):	4.797	**Organic Carbon(%):**	1.3
Electrical Conductivity (dS/m):	0		

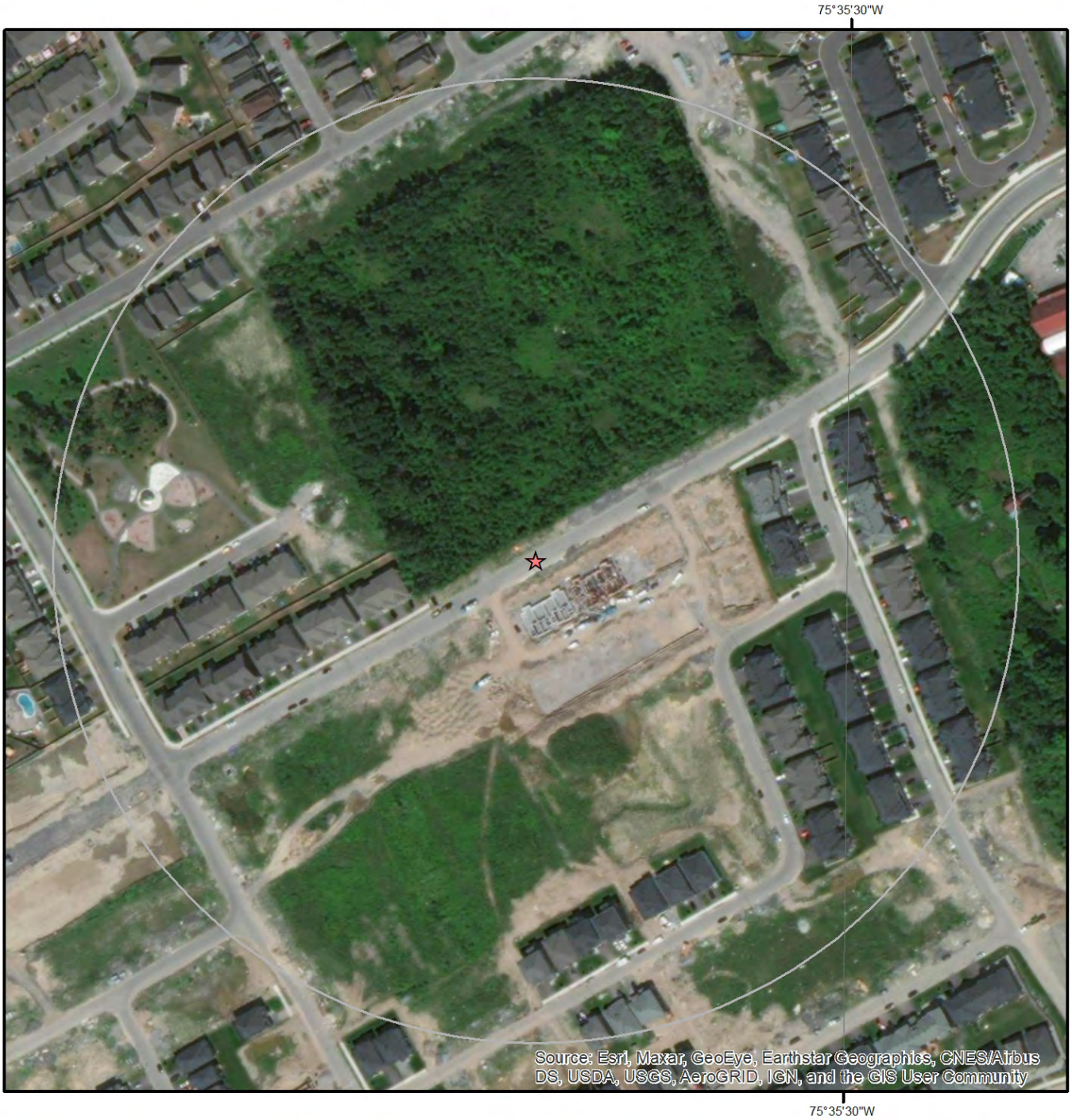
Layer No:	3	**Very Fine Sand(%):**	11

Soil Information

Horizon:	Bmgj	**Total Sand(%):**	73
Depth(cm):	23-35	**Total Silt(%):**	20
pH in Calc Chloride:	7.5	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	3.985	**Organic Carbon(%):**	0.4
Electrical Conductivity (dS/m):	0		

Layer No:	4	**Very Fine Sand(%):**	16
Horizon:	Ckg	**Total Sand(%):**	59
Depth(cm):	35-100	**Total Silt(%):**	34
pH in Calc Chloride:	7.6	**Total Clay(%):**	7
Saturated Hydraulic Conductivity(cm/h):	2.123	**Organic Carbon(%):**	0.1
Electrical Conductivity (dS/m):	0		

Wells and Additional Sources



Wells & Additional Sources

0 0.05 0.1 0.2 KM

N

- Project Property
- Buffer
- Buffer
- Buffer
- Buffer
- Buffer
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation

ERIS

Wells and Additional Sources Summary

Federal Sources

National Energy Board Wells

Map Key	ID	Distance (m)	Direction
	No records found		

Provincial Sources

Ontario Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
	No records found		

Provincial Groundwater Monitoring Network

Map Key	ID	Distance (m)	Direction
	No records found		

Water Well Information System

Map Key	ID	Distance (m)	Direction
	No records found		

Private Sources

Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
	No records found		

Wells and Additional Sources Detail Report

No records found for the project property or surrounding properties.

Radon Information

Detailed radon information for the project property is provided below.

Radon Zone Information

ID:	144852	**Radon Rank:**	LOW

Health Canada Radon Information

Health Region:	3551
Health Region Name:	City of Ottawa Health Unit
Province or Territory:	ON
Number Homes in Survey:	64
% Below 200 Bq/m3:	93.8
% Above 200 Bq/m3:	6.2
200 to 600 Bq/m3:	6.2
% Above 600 Bq/m3:	0

Area of Natural and Scientific Interest Information

Area of Natural & Scientific Interest (ANSI)

ANSI Area

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

Source: ANSI (ANSI) March 2017, Ontario Ministry of Natural Resources

Area of Natural and Scientific Interest Information

Detailed ANSI information is provided below.

ANSI ID: 67072261

ANSI Name:	Albion Road Wetland
Type:	Candidate ANSI, Life Science
Significance:	Provincial
Area (sqm):	2972242.969
Comments:	

Appendix

Federal Sources

Bedrock Geology of Canada — **BEDROCK GEOLOGY**

The Geological Map of Canada is scaled at 1:5,000,000. This map is created by Geological Survey of Canada and published by Natural Resources Canada.

Health Canada Radon Information — **RADON**

This source is the results from the Cross-Canada Survey of Radon Concentrations in Homes, a two-year study conducted by Health Canada's National Radon Program. The aims of this study were to obtain an estimate of the proportion of the Canadian population living in homes with radon gas levels above the guideline of 200 Bq/m3, to identify previously unknown areas where radon gas exposure may constitute a health risk, and to build, over time, a map of indoor radon gas exposure levels across Canada.

National Energy Board Wells — **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.

Soil Landscapes of Canada (SLC) — **SLC**

Major characteristics of soil and land such as surface form, slope, water table depth, permafrost and lakes.

Surficial Geology of Canada — **SURFICIAL GEOLOGY**

This map contains information on surficial materials and associated landforms left by the retreat of the last glaciers and non glacial environments. It is based on compilation of existing maps. This data was authored by the Geological Survey of Canada and published by Natural Resources Canada.

Toporama — **TOPORAMA**

Toporama covers the entire area of Canada's landmass and provides topographic, geo-referenced, and symbolic information in a raster format at 1:50,000 scale. This is a digital topographic reference product made available by Natural Resources Canada (NRCan).

Provincial Sources

Area of Natural and Scientific Interest — **ANSI**

Areas of Natural and Scientific Interest (ANSIs) are lands and waters with features that are important for natural heritage protection, appreciation, scientific study or education. This dataset is made available by Ontario Ministry of Natural Resources.

Bedrock Geology of Ontario — **BEDROCK GEOLOGY**

The Bedrock Geology layer shows the distribution of bedrock units underlying Ontario at a 1:250,000 scale. The geology of the province consists of Precambrian rocks of the Canadian Shield and Phanerozoic sedimentary rocks that overlie the Canadian Shield. This layer was compiled by the Precambrian Geoscience Section of Ontario Geological Survey.

Ontario Detailed Soil Survey (DSS3) — **SOIL SURVEY**

Soil surveys have been published for most of the agricultural areas, and many surrounding areas, across Canada. Data from these surveys comprise the most detailed soil inventory information in the National Soil DataBase. Data is made available by Agriculture and Agri-Food Canada

Ontario Oil and Gas Wells — **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.

Provincial Groundwater Monitoring Network — **GROUNDWATER**

Appendix

Groundwater level and chemistry data from monitoring wells that are part of the Provincial Groundwater Monitoring Network (PGMN) Program. Precipitation data (rain) is also available for some sites. This data is provided by 'Ontario Ministry of Environment and Climate Change.

Surficial Geology of Ontario **SURFICIAL GEOLOGY**

The Surficial Geology dataset contains a layer depicting the distribution and characteristics of surficial deposits across southern Ontario. This data set is authored by the Ontario Geological Survey.

Topographic Map of Ontario **TOPOGRAPHIC MAP**

The Ontario Basic Mapping program provides a relationship between topographic information and the provincial geographical referencing grid, thereby forming the foundation for a comprehensive provincial geographical referencing system. This data is made available by the Ontario Ministry of Natural Resources and Forestry. This is ERIS self-designed topographic map template at 1:10,000.

Water Well Information System **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.

Wetlands of Ontario **WETLAND**

The Ministry of Natural Resources and Forestry has made available a database of wetlands in Ontario. Certain attributes identify wetlands that have been evaluated with the Ontario Wetland Evaluation System (OWES), and of those which ones have been designated as Provincially Significant Wetlands (PSW).

Private Sources

Oil and Gas Wells **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.

Radon Zone Information **RADON**

The Radon Potential Map is developed by Radon Environmental Management Corporation. Its objective was to illustrate the relative variation of radon risk across the country, and in 2011 it published its first geologic Radon Potential Map of Canada.

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