PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
795 TRIM ROAD, ORLEANS, ONTARIO

Project No.: CCO-23-0977

Prepared for:

Darryl Hood
CSV Architects
190 O'Connor Street, Suite 100
Ottawa, ON
K2P 2R3

Prepared by:

McIntosh Perry Consulting Engineers Ltd.
115 Walgreen Road, RR3
Carp, ON
K0A 1L0

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McINTOSH PERRY

McIntosh Perry was retained by Darryl Hood on behalf of CSV Architects (Client) to conduct a Phase One Environmental Site Assessment (ESA) for the property located 795 Trim Road, Orleans, Ontario ("the Site"). The Site is currently developed with three existing sea cans, occupied by the Petrie Island Canoe Club.

The Phase One ESA will be completed by McIntosh Perry in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04 as amended, and the Guide for Completing Phase One Environmental Site Assessments under Ontario Regulation 153/04 (Ontario Ministry of the Environment, June 2011), as amended. It is understood that the property is currently occupied by the Petrie Island Canoe Club, and the sea cans on-Site are used for boat storage. It is our understanding that a 280 m^2 building is to be constructed for boat storage at the Petrie Island Canoe Club.

This proposed development does not represent a change to a more sensitive land use; therefore, a Record of Site Condition (RSC) will not be required.

This Phase One ESA has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04 as amended. This report is also in general compliance with "Phase I Environmental Site Assessment", Canadian Standards Association (CSA) standard CSA Z768-01, reaffirmed 2022.

Based on a review of aerial photographs and Site reconnaissance, the Site Buildings were placed on-Site in 2016 to facilitate boat storage. The surrounding beach area has been present since 1969, as reviewed from aerial photographs.

A total of two (2) potentially contaminating activities (PCAs) were identified for the Phase One Study Area. Of the 2 PCAs identified, both were deemed to represent areas of potential environmental concern (APECs). The PCAs identified for the Phase One Study Area include:

- The historical landfill (Petrie Island Landfill) located immediately south of the Site between the 1950s-1970s.; and
- The presence of imported fill of unknown quality (beach sand) used to construct the beach around 1976, and the presence of a gravel/sand operation on Petrie Island.

Based on historical review and the ERIS report, the Grandmaitres ran a sand/gravel operation at Petrie Island (Sand Extraction from Petrie (petrieisland.org); which included dredging extracted sand from under the Ottawa River. It is in our opinion that the dredging of the Ottawa River to obtain sand qualifies as importation fill of unknown quality, which is identified as PCA#30 in Table 2 – Potentially Contaminating Activities of O.Reg.153/04, as amended. Any on-Site PCA is automatically considered an APEC, as per O.Reg.153/04.

Additionally, the former landfill also represents an APEC to the Site. Multiple soil exceedances, such as various metal parameters, PHC parameters, and semi-VOC parameters that were identified in the *2020 Golder Landfill Review and Screening Level Risk Assessment* and limited groundwater samples were collected during the investigation. Additionally, groundwater contamination was identified in *2002 Paterson Petrie Island Beach House Project – Phase I/II Report,* but the location of this was not provided. Groundwater flow in the area has not confirmed and has potential to flow towards the Site. It is in our opinion that further investigation is required at the Site to determine the impact of the historical landfill in relation to the Site.

Based on the PCAs identified at these properties, they are considered to represent APECs at the Site.

Table 4 within the body of the report presents a summary of the identified PCAs.

Based on the above noted information, ***a Phase Two ESA is a required for this Site, as per O.Reg.153/04, if an RSC was to be completed.*** *Because no change in land use is occurring an RSC is not required.*

It is understood that structural foundation will likely be required for the new boat storage facility. It also understood that this property is currently owned by the City of Ottawa and being leased by the Client. Therefore, McIntosh Perry recommends a limited Phase II ESA/sampling program in the area of proposed construction to ensure potentially contaminated soil and/or groundwater (in relation to the off-site landfill) will not be encountered during construction. At the time of writing this Phase I ESA report, the construction plans are not yet finalized. Therefore, the sampling program could coincide with construction activities to ensure target areas are sampled.

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1.0 INTRODUCTION

McIntosh Perry was retained by Darryl Hood on behalf of CSV Architects (Client) to conduct a Phase One Environmental Site Assessment (ESA) for the property located at 795 Trim Road, Orleans, Ontario (Site). The Site is currently developed with three existing sea cans (Site Buildings), occupied by the Petrie Island Canoe Club and utilized for boat storage.

It is understood that this Phase One ESA is being completed in support of a Site Plan Control. It is our understanding that a 280 m^2 building is to be constructed for boat storage at the Petrie Island Canoe Club.

The Phase One ESA will be completed by McIntosh Perry in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04 as amended, and the Guide for Completing Phase One Environmental Site Assessments under Ontario Regulation 153/04 (Ontario Ministry of the Environment, June 2011), as amended. It is understood that the property is currently occupied by the Petrie Island Canoe Club, and the sea cans on-Site are used for boat storage. It is our understanding that a 280 m^2 building is to be constructed for boat storage at the Petrie Island Canoe Club.

This proposed development does not represent a change to a more sensitive land use; therefore, a Record of Site Condition (RSC) will not be required.

The Site location is shown on Figure 1 (Site Location). The Site layout and features, including on-Site land use, are shown on Figure 2 (Site Layout).

1.1 Phase One Property Information

1.1.1 Property Identification

The legal description of the Site is as follows:

PT LT PETRIE ISLANDS CON 1OS CUMBERLAND (AKA LEONARD GROUP OF ISLANDS,) OPPOSITE LTS 28,29,30 CON 1 OS AND E OF NLY EXT OF WLY LIMIT OF TRIM RD AS IN RR85361; S/T & T/W RR85361; DESCRIPTION MAY NOT BE ACCEPTABLE IN FUTURE AS IN RR85361; S/T RR15741B, RR19542B; CUMBERLAND. S/T AN EASEMENT IN GROSS OVER PARTS 1 AND 2 PLAN 4R21787 A S IN OC734980

PIN 145380083

1.1.2 Property Ownership and Contact Details

McIntosh Perry was retained to complete this Phase One ESA by Darryl Hood on behalf of CSV Architects. McIntosh Perry's client contact person for the Site is Bria Aird, planner at Fotenn. Bria can be contacted at aird@fotenn.com. For the purposes of the Site visit, MP's contact person is Hector Carranco, Manager of the Petrie Island Canoe Club, and can be contacted at petrieicc.manager@gmail.com.

1.1.3 Current and Proposed Future Uses

During the Site reconnaissance, the Site was developed with three (3) sea cans (Site Buildings), occupied by the Petrie Island Canoe Club and utilized for boat storage. The Petrie Island Canoe Club is located to the northeast of Tweddle Road. A gravel parking lot exists to the south of the sea cans.

The exterior of the Site consisted of a gravel parking area, grassed area, and a beach leading to the Ottawa River to the east.

It is proposed that the proposed development (no basement level, no underground parking) will be constructed in close proximity to the existing sea cans.

1.2 Surrounding Land Use

The Site is surrounded on all sides (north, east, south, and west) by the Ottawa River and beach/parkland areas. Tweddle Road is located south of the Site, which connects Petrie Island to the mainland. Additionally, the historic Petrie Island Landfill is located south of the Site. A walking trail now exists around the perimeter of the historic landfill.

2.0 SCOPE OF INVESTIGATION

A Phase One ESA is a preliminary environmental screening tool designed to provide a qualitative assessment of the environmental condition of a site, based on a desktop review of available documentation pertaining to the site and observations made during a site visit. Sampling and chemical analysis of soils, groundwater, and/or other materials/substances are beyond the scope of work for a Phase One ESA.

The Phase One ESA has been prepared in general accordance with the requirements of the following legislation:

- Ontario Regulation (O. Reg.) 153/04 - Records of Site Condition (as amended).

The report is also in general compliance with:

- "Phase One Environmental Site Assessment", Canadian Standards Association (CSA) standard CSA Z768-01, Reaffirmed 2022.

A designated substances survey was not completed as part of the current investigation.

The subject property is not an 'Enhanced Investigation Property' as defined in O.Reg. 153/04 (as amended).

3.0 RECORDS REVIEW

3.1 General

3.1.1 Phase One Study Area Determination

The Phase One Study Area includes the following properties:

- The Site; and
- All properties within approximately 250 m of the Site boundary (Phase One Study Area).

The Phase One ESA Study Area, including surrounding land uses, is shown on Figure 3: Study Area & Surrounding Land Use.

3.1.2 First Developed Use Determination

Based on a review of aerial photographs and Site reconnaissance, the Site Buildings were placed on-Site in 2016 to facilitate boat storage. The surrounding beach area has been present since 1969, as reviewed from aerial photographs.

3.1.3 Fire Insurance Plans

Due to the extensive knowledge of environmental history pertaining to the Site, Property Underwriters' Reports (PURs) and Property Underwriters' Plans (PUPs) were not obtained as part of this Phase I ESA. It is in our opinion that this will not affect the findings in this report.

3.1.4 Insurance Reports

No insurance reports were reviewed as part of this Phase One ESA.

3.1.5 Chain of Title

At the time of this report, a Chain of Title has not been completed. McIntosh Perry is of the opinion that the lack of a Chain of Title search is not an impediment for the Phase One ESA as sufficient information and documentation has been obtained and reviewed to formulate a reasonable understanding for the Phase One property.

3.1.6 Previous Environmental Reports

3.1.6.1 2020 Golder Landfill Review and Screening Level Risk Assessment

Golder completed a Landfill Review and Screening Level Risk Assessment to assess the historical landfill located on Petrie Island. The report consisted of a Site reconnaissance, a subsurface investigation, and soil, groundwater and surface water sampling.

Fifteen (15) boreholes (boreholes 19-01 through 19-15) were advanced across the Site. One (1) soil sample was submitted from each borehole location for the analysis of petroleum hydrocarbon fractions F1-F4 (PHC F1-F4),

benzene, toluene, ethylbenzene, and xylenes (BTEX), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and/or metals. The soil samples were advanced to a minimum depth of 1.5 m below ground surface (m bgs) to investigate shallow soils. The final depths of the boreholes were between 1.52 – 3.05 m bgs.

Three (3) monitoring wells (boreholes 19-04, 19-06, and 19-15) were installed and three (3) groundwater samples were collected for the analysis of PHC F1-F4, BTEX, VOCs, PAHs, and/or metals. Monitoring well 19-04 was installed at a depth of approximately 2.75 m bgs, monitoring well 19-06 was installed at a depth of 2.3 m bgs, and monitoring well 19-15 was installed at a depth of 2.44 m bgs.

Three (3) surface water samples were collected and submitted for the analysis of PHC F1-F4, BTEX, VOCs, PAHs, and/or metals.

Soil samples collected across the Site from 19-02, 19-03, 19-04, 19-05, 19-07, 19-08, 19-09, 19-10, and 19-15

McIntosh Perry reviewed the analytical data provided in the 2020 Golder report and compared it to the standards provided in Ontario Regulation 153/04 (O.Reg 153/04). The applicable site condition standards for the Site were determined to be Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition for parkland property use with coarse textured soils ('Table 8 SCS').

Multiple soil exceedances were observed across the entire property:

- Multiple metals exceedances above Table 8 SCS were detected in soil samples from boreholes 19-02, 19-03, 19-04, 19-05, 19-07, 19-08, 19-09, 19-10, and 19-15.
- PHC exceedances above Table 8 SCS were detected in soil samples from boreholes 19-02, 19-04, 19-05, 19-08, and 19-10.
- PAH exceedances above Table 8 SCS were detected in soil samples from boreholes 19-02, 19-03, 19-05, 19-09 and 19-10.
- Multiple metals and semi-VOC exceedances above Table 8 SCS were detected in surface water samples from SW1, SW2, and SW3.

Groundwater samples were collected from 19-04, 19-06, and 19-15. All parameters were below Table 8 SCS. Groundwater flow direction was not confirmed during this investigation.

As part of the Screening Level Risk Assessment part of the report, Golder assesses the potential risks associated with the contaminants of concern (COCs) including metals, PHCs, PAHs, and VOCs in the soil, groundwater, and surface water. Golder recommended the following:

- The implementation of a hard cap (eg. asphalt) or clean fill cap (eg. 0.3 m of clean soil or gravel, underlain by geotextile) in the areas that are heavily trafficked, such as the footpath, to reduce risks for the COCs mentioned above;
- A surface water monitoring program to ensure that the surface water quality remains relatively stable. Golder recommended a monitoring program of twice per annum, over 3 years; and

- Health and safety plans should be put into place where work on the Site will encounter the Site soils that lie below the barrier, as mentioned above.

3.1.6.2 2002 Paterson Petrie Island Beach House Project – Phase I/II ESA

Paterson completed a Phase I/II ESA at Petrie Island (the Site) in 2002. The Phase I portion of the report consisted of Site reconnaissance, a review of historical and regulatory information of the Site, and a review of previous reports prepared in connection with the Site.

During the Site reconnaissance conducted by Paterson in 2002, the Site was predominantly covered in thick bush and marshes. Sand piles were observed on the northeast portion of the Site, which were a part of the sand/gravel operation. Additionally, Paterson reports that the former waste site was partially identified during a geotechnical field program, but it was not fully delineated. During the Site reconnaissance, Paterson identified six (6) above ground storage tanks (AST) on-Site. The ASTs were reported to be in good condition with the exception of a waste oil tank located in the southwest corner.

Based on the above-noted findings, Paterson completed a subsurface investigation (Phase II ESA) to investigate the potential environmental concerns.

Two (2) boreholes/monitoring wells (BH12 and BH13) and five (5) test pits were advanced. The boreholes/monitoring wells were advanced to investigate the ASTs identified above, and the test pits were conducted to investigate the former landfill.

Two (2) soil samples were collected (1 from borehole 12 (BH12 SS1), and 1 from Test Pit 3 (TP3)) and submitted for the analysis of total petroleum hydrocarbons including gasoline, diesel, and heavy range oils, VOCs, and metals. One (1) groundwater sample was collected from the groundwater that infiltrated in Test Pit 1 (TP1) and analysed for VOCs and metals.

The laboratory analytical results were compared to the standards provided in Table A of the MOE document entitled "*Guidelines for Use at Contaminated Site in Ontario*", dated February 1997 (*1997 Table A Standards*).

All concentrations of analyzed parameters within the soil samples submitted for laboratory analyses were below the *1997 Table A Standards*.

All concentrations of analyzed parameters within the groundwater samples submitted for laboratory analyses were below the *1997 Table A Standards*, with the exception of the following at **TP1**:

- Chlorobenzene (30 ug/L, *1997 Table A Standards*): 2,000 ug/L
- P-Dichlorobenzene (1 ug/L, *1997 Table A Standards*): 2,400 ug/L
- Arsenic (25 ug/L, *1997 Table A Standards*): 30 ug/L
- Copper (23 ug/L, *1997 Table A Standards*): 50 ug/L
- Lead (10 ug/L, *1997 Table A Standards)*: 310 ug/L
- Zinc (1,100 ug/L, *1997 Table A Standards)*: 2,100 ug/L

Based on the findings of the 2002, Paterson Phase I/II, Paterson recommended that the former landfill should be delineated through subsurface investigations of soil and groundwater, to determine if the environmental impacts of the former landfill are localized or widespread.

McIntosh Perry reviewed the analytical data provided in the 2002 Paterson Phase I/II and compared it to the currently applicable standards outlined in Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition for parkland property use with coarse textured soils ('Table 8 SCS').

All concentrations of analyzed parameters within the soil and groundwater samples submitted for laboratory analyses were below the *Table 8 SCS*, with the exception of the following:

- Chlorobenzene (30 ug/L: Table 8 SCS): 2,000 ug/L
- Arsenic (25 ug/L, Table 8 SCS): 30 ug/L
- Lead (10 ug/L, Table 8 SCS*)*: 310 ug/L
- Zinc (890 ug/L, Table 8 SCS*)*: 2,100 ug/L

The location of this test spit is not clearly indicated in this report.

3.1.6.3 2004 John D. Paterson and Associates Limited, Old Landfill Management Data Gap Analysis, Petrie Island Landfill Site

John D. Paterson and Associates Limited (JDPA) completed a Data Gap Analysis of the former Petrie Island Landfill in 2004. The report consisted of a subsurface investigation which included test pitting, surficial soil sampling, surface water sampling, monitoring well installation and groundwater sampling, and gas probe installation and landfill gas monitoring.

A total of forty-four (44) test pits were advanced across the site to delineate the lateral impacts of the former landfill. The test pits ranged from depths of 0.7 m – 2.6 m below ground surface (m bgs).

Three (3) composite surficial soil samples were collected adjacent to the bicycle path. Each composite surficial soil sample was submitted for analysis of metals, PHCs, and PAHs.

Five (5) surface water samples were collected by JDPA; two samples upstream (west) of the former landfill, two samples downstream (east) of the former landfill, one sample to the south of the former landfill, and one stagnant water sample from the northwest of the former landfill. The surface water samples were submitted for analysis of general chemistry parameters and metals.

Five (5) overburden monitoring wells were installed around the perimeter of the Site to investigate the historical landfill. Groundwater samples were collected and submitted for analysis of general chemistry parameters, and VOCs.

Five (5) gas probes were installed around the perimeter of the Site, and two (2) gas probes were installed within the landfill waste.

The laboratory analytical soil results were compared to the standards provided in Table A of the MOE document entitled "*Guidelines for Use at Contaminated Site in Ontario*", dated February 1997 (*1997 Table A Standards*). All concentrations of analyzed parameters within the soil samples submitted for laboratory analyses were below the *1997 Table A Standards.*

The laboratory analytical surface water results were compared to the standards provided in the *1997 Table A Standards*, the Ontario Drinking Water Standards (ODWS), dated January 2021, and the Provincial Water Quality Objectives (PWQO), dated July 1994. All concentrations of analyzed parameters within the soil samples submitted for laboratory analyses were below the above noted criteria, except for various exceedances for hardness compared to ODWS, and iron compared to PWQO.

The laboratory analytical groundwater results were compared to the standards provided in the *1997 Table A Standards*, and ODWS standards. MW-6 detected exceedances of *1997 Table A Standards*, and ODWS standards for chloride and selenium. It is important to note that no VOC parameters were detected in the groundwater samples submitted.

Based on the analytical results above, John D. Paterson recommended that landfill debris be covered with a layer of at least 0.5 m silty clay. No immediate concerns were identified with respect to surficial soils, surface water, groundwater, and methane gas measurements from the landfill monitoring.

It is important to note that groundwater was estimated to flow northeast.

3.1.7 City Directories

Due to the extensive knowledge of environmental history pertaining to the Site, City Directories were not obtained as part of this Phase I ESA. It is in our opinion that this will not affect the findings in this report.

3.2 Environmental Source Information

McIntosh Perry completed a records review to obtain information about the Site pertaining to items of actual and/or potential environmental concern.

3.2.1 Databases Searched

McIntosh Perry obtained information contained in the databases listed below from ERIS of Toronto, Ontario. Details about the sources of information and the years included for each database, as well as the pertinent information obtained from these databases are included in the ERIS report which is included as Appendix A.

Federal Government Databases:

- Environmental Effects Monitoring;
- Environmental Issues Inventory System;
- Federal Convictions;
- Contaminated Sites on Federal Land;
- Fisheries & Oceans Fuel Tanks;

- Indian and Northern Affairs Fuel Tanks;
- National Analysis of Trends in Emergencies System (NATES);
- National Defense & Canadian Forces Fuel Tanks;
- National Defense & Canadian Forces Spills;
- National Defense & Canadian Forces Waste Disposal Sites;
- National Environmental Emergencies System (NEES);
- National PCB Inventory;
- National Pollutant Release Inventory;
- Parks Canada Fuel Storage Tanks; and,
- Transport Canada Fuel Storage Tanks.

Provincial Government Databases:

- Abandoned Aggregate Inventory;
- Aggregate Inventory;
- Abandoned Mines Information System;
- Certificates of Approval;
- Coal Gasification Plants;
- Compliance and Convictions;
- Drill Holes;
- Environmental Registry;
- Ontario Regulation 347 Waste Generators Summary;
- Mineral Occurrences;
- Non-Compliance Reports;
- Ontario Oil and Gas Wells;
- Ontario Inventory of PCB Storage Sites;
- Ministry Orders;
- Occurrence Reporting Information System;
- Pesticide Register;
- Private Fuel Storage Tanks;
- Ontario Regulation 347 Waste Receivers Summary;
- Record of Site Condition;
- Wastewater Discharger Registration Database;
- Waste Disposal Sites – MOE CA Inventory;
- Waste Disposal Sites – MOE 1991 Historical Approval Inventory; and,
- Water Well Information System.

Private Databases:

- Anderson's Waste Disposal Sites;
- Automobile Wrecking and Supplies;

- Commercial Fuel Oil Tanks;
- Chemical Register;
- ERIS Historical Searches;
- Canadian Mine Locations;
- Oil and Gas Wells;
- Canadian Pulp and Paper;
- Retail Fuel Storage Tanks;
- Scott's Manufacturing Directory; and,
- Anderson's Storage Tanks.

3.2.2 Database Findings Relevant to the Phase One ESA

The following records were returned for properties within the Phase One Study Area:

- Two (2) Certificates of Approvals;
- Two (2) Environmental Compliance Approvals;
- Five (5) Ontario Regulation 347 Waste Generators Summary Records; and
- Two 2) WWIS records (WWIS).

Relevant information from the ERIS report is summarized as follows:

- On June 14, 1989, a CA was issued to Roger Grandmaitre Ltd in relation to industrial wastewater and dredging of the Ottawa River
- Roger Grandmaitre Ltd (Generator #ON1217900) was located at the Site and registered with the MECP as a generator of waste oils and lubricants in 1989, and 1992 – 2004. Additionally, between 1992 – 2004 and in 2019, light fuels were generated at the Site. Based on the operations completed at the Site, it is in our opinion that this represents a potential environmental concern; and
- Additional properties surrounding the Site were listed in various databases searched by ERIS. Based on the nature of the listings (e.g., municipal and private sewage works, municipal drinking water systems, etc.), as well as the distances between these properties and the Site and/or their position relative to the Site with respect to the inferred direction of groundwater flow, it is our opinion that these additional off-Site listings do not represent potential environmental concerns relative to the Site.

Based on historical review, The Grandmaitres ran a sand/gravel operation at Petrie Island (Sand Extraction from Petrie (petrieisland.org). The dredge extracted sand from under the Ottawa River. It is in our opinion that the dredging of the Ottawa River and the extraction of fill of unknown quality represents an environmental concern at the Site

3.2.3 MECP Freedom of Information Request

In order to identify any previous environmental reports concerning the Site, a Freedom of Information (FOI) request and index review request were submitted to the MECP on August 12, 2022. At the time of writing this

Phase I ESA report, there has been no official responses from the MECP regarding the FOI or index review requests. When responses are received from the MECP, they will be reviewed by McIntosh Perry and any relevant information will be provided under a separate cover. The information provided in the MECP responses may affect the findings of this Phase I ESA.

Copies of McIntosh Perry's requests submitted to the MECP are included in Appendix B.

3.2.4 TSSA Information Request

A request for information regarding fuel tanks at the Site was submitted to the Technical Standards and Safety Authority (TSSA). A response was received on August 12, 2022, which indicated that no information related to fuel tanks at the Site was available in the TSSA's databases.

A copy of McIntosh Perry's correspondence with the TSSA is provided in Appendix B.

3.2.5 Historic Land Use Inventory Request

A request for information from the Historic Land Use Inventory (HLUI) records was completed on October 7, 2022. A response was received on October 19, 2022, stating that two records for the Site were found:

- The land south of the Petrie Island Beach is identified as a former landfill; and
- The Petrie Island area was historically used for aggregate (sand and gravel) operations.

Based on information provided in the HLUI request, the historical landfill and aggregate operations represent environmental concerns at the Site. These operations are further discussed in Section 8.0.

A copy of McIntosh Perry's correspondence is provided in Appendix B.

4.0 PHYSICAL SETTING

4.1.1 Aerial Photographs and Satellite Images

Aerial photographs for the years 1928, 1958, 1969, 1976 and 1988 were reviewed by McIntosh Perry from the 2002 Paterson Phase I-II Environmental Site Assessment. Additionally, satellite imagery for 1999 from Geo-Ottawa and satellite imagery from the years 2003, 2004, 2008, 2020, and 2022 from Google Earth was reviewed by McIntosh Perry. Observations about current and historical land use for the Site and surrounding properties are noted in the table below:

Table 1: Aerial Photograph Review

Date	Site	Surrounding Properties
1928	The Site has not yet been developed.	North – Ottawa River South – parts of Petrie Island and the Ottawa River. It does not appear that Petrie Island is connected to the mainland. West – parts of Petrie Island and the Ottawa River. East – parts of Petrie Island and the Ottawa River.
1958	The Site has not yet been developed.	North – Similar to 1928, with the potential of fill added to the north end of Petrie Island. South – a road/bridge exists from Petrie Island to the mainland. It appears that fill was added south of the Site, near the bridge/road. West – Similar to 1928. East – Similar to 1928.
1969	The Site has not yet been developed.	North – Similar to 1958. South – Trees appear to be removed to the south of the Site, in the area of the historical landfill. West – Similar to 1958. East – Similar to 1958.

Table 1: Aerial Photograph Review		
Date	**Site**	**Surrounding Properties**
1976	The Site has not yet been developed.	North – Similar to 1958. Equipment is located north of the Site, on the beach area (likely associated with sand/gravel operation). South – A wooded area has developed south of the Site, in the area of the historical landfill. A road, in similar orientation to present day Tweddle Road, has been further developed. West – Similar to 1958. East – Similar to 1958.
1988	The Site has not yet been developed.	North – Similar to 1976. South – Petrie Island has been further developed and fill is present compared to 1976. West – Similar to 1976. East – Similar to 1976.
1999	The Site has not yet been developed.	North – A gravel/sand operation is present. South – A gravel/sand operation is present. West – A gravel/sand operation is present. East – Similar to 1988.
2003	The Site has not yet been developed.	North – A gravel/sand operation is present. South – Similar to 1999. West – Similar to 1999. East – Similar to 1999.

Table 1: Aerial Photograph Review		
Date	**Site**	**Surrounding Properties**
2004	The Site has been developed into a beach area.	North – Stuemer Park/parkland has been developed. South – Beach/parkland has been developed immediately south of the Site, followed by wooded area. West – Beach/parkland has been developed, followed by gravel parking lots. East – similar to 2003.
2008	Similar to 2004.	North – Similar to 2004. South – Similar to 2004. West – Similar to 2004. East – Similar to 2004.
2020	The Site has been developed in its current configuration – 3 sea cans are present.	North – Similar to 2008. South – Similar to 2008. West – Similar to 2008. East – Similar to 2008.
2022	Similar to 2020.	North – Similar to 2020. South – Similar to 2020. West – Similar to 2020. East – Similar to 2020.

Based on McIntosh Perry's review of the above-noted aerial photographs and satellite imagery, the sand/gravel operation observed in 1976 may represent a potential environmental concern with respect to the Site.

4.1.2 Topography

Topographical mapping of the Site was reviewed on the Atlas of Canada's Toporama website. The elevation at the Site is approximately 50 m above sea level (m asl). The topography of the Site is generally flat (see Figure 4), sloping gently downward to the east.

4.1.3 Hydrology

The Site occurs within the Grande Presqu'Île - Ottawa River watershed. The closest water body to the Site is the Ottawa River, located approximately 0.08 kilometres (km) east of the Site, at its closest point, and surrounds the entire island. On-site infiltration of water is interpreted to occur in areas of permeable ground surface. Site drainage likely flows east or northeast towards the Ottawa River

4.1.4 Geology

4.1.4.1 Surficial Geology

Geological maps that classify the overburden at the Site were not available for Petrie Island (OGS, 2017). Based on Golders soil samples collected in 2020 as part of the subsurface investigation (*2020 Golder Landfill Review and Screening Level Risk Assessment*), overburden consisted as sand and clayey sand, and silty clay.

4.1.4.2 Bedrock Geology

Geological maps of the area classify the bedrock under the Site as limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group, Simcoe Group, and the Shadow Lake Formation (OGS, 2017).

4.1.5 Hydrogeology

On a local and regional scale, groundwater is interpreted to reflect local topography. Groundwater flow at the Site is expected to flow to the east or northeast, towards the Ottawa River. It is also likely water in the area flows radially across the island.

4.1.6 Fill Materials

The Site is located on the beach area on Petrie Island. Based on historical review, the beach sand is considered to be fill material of unknown quality.

4.1.7 Water Bodies and Areas of Natural Significance

The closest permanent waterbody is the Ottawa River, located adjacent to the Site.

When completing a Phase One ESA, considerations are made for the following MNRF-maintained areas of natural significance:

- Provincial Parks and conservation reserves;
- Areas of Natural and Scientific Interest (ANSIs);
- Provincially Significant Wetlands (PSWs);
- Areas identified by MNRF as significant habitat of a threatened or endangered species or areas of habitat of a species classified under section 7 of the Endangered Species Act; and,
- Areas set apart under the Wilderness Areas Act.

A PSW is located within the Phase One Study Area, to the east near the Ottawa River, as displayed in Figure 4, appended to this report.

4.1.8 Well Records

McIntosh Perry performed a well record search utilizing the ERIS Water Well Information System data (based on MECP GIS data). Two (2) well records from within the Phase One Study Area were returned from this search. One of the well records was listed for 795 Trim Road, Ottawa, which is believed to actually service the Petrie Island Beach house, to the southwest of the Site.

4.1.9 Site Operating Records

Site operating records were not available for the Site.

5.0 INTERVIEWS

McIntosh Perry personnel conducted an interview with Brian Greenberg, the property manager associated with the Site in order to obtain information about the subject property pertaining to items of actual and/or potential environmental concern. Information collected during this interview was used to corroborate data from other sources, and is presented in Appendix C.

The information obtained from the interview is summarized as follows:

Table 2: Interview Record

Potential Environmental Concerns	Interview Comments
Accidents/Spills	None observed and none reported by the Site Representatives.
Previous Use of Site	Beach/community use.
Adjacent Properties	Beach/community use.
Fuel Handling/Storage	Jerry cans are stored on-Site to fuel the Canoe Club motorboats (motor boats are stored at the Marina, in close proximity to the Site), although none were present at the Site visit.
Maintenance/Operational Areas	None present.
Hazardous Materials Storage	Various household building maintenance chemicals (e.g., paints, cleaning materials, etc.) were observed in the sea can furthest to the south.
Salt Storage	None observed and none reported by Site representative.
Fuel Storage Tanks	None observed and none reported by the Site Representatives.
Odours	None observed and none reported by the Site Representatives.
Potable Water	The Site is not serviced with a potable water source.
Septic and Wastewater Discharges	The Site is not serviced with septic/wastewater discharges.
Pesticides	None observed and none reported by the Site Representatives.
Mould	None observed and none reported by the Site Representatives.
Heating and Cooling Systems	None present.
Major Mechanical Equipment	None observed and none reported by the Site Representatives.
Waste Oils, Solvents, Batteries	None observed and none reported by the Site Representatives.
PCBs	None observed and none reported by the Site Representatives.
Asbestos	None observed and none reported by the Site Representatives.
Lead Paint	None observed and none reported by the Site Representatives.
ODS	None observed and none reported by the Site Representatives.
Electromagnetic Radiation	None observed and none reported by the Site Representatives.
UFFI	None observed and none reported by the Site Representatives.
Mercury	None observed and none reported by the Site Representatives.
Radon Gas	None observed and none reported by the Site Representatives.
Soil and Groundwater Conditions	No known impacts.
Wells	None observed and none reported by the Site Representatives.

Table 2: Interview Record	
Potential Environmental Concerns	**Interview Comments**
Waste Disposal and Recycling	Garbage, recycling and compost wastes generated at the Site are disposed of at garbage cans maintained by the City of Ottawa.
Fill Material	None reported by the Site Representatives, although the beach sand is likely imported fill of unknown quality.
Floor Drains/OWS (Discharge Locations)	None observed and none reported by the Site Representatives.
Other	None.

Note that statements made by those interviewed were not made categorically and are limited to personal knowledge of, and experience with, the subject property. The significance of environmental concerns that have been identified by other methods was not reduced based on the interview statements.

6.0 SITE RECONNAISSANCE

The objectives of the site reconnaissance were as follows:

- To identify potential environmental concerns associated with current and past uses of the Site;
- To identify Potentially Contaminating Activities (PCAs) on, in, or under the Site;
- To identify, as practical, current and past uses, activities, and PCAs in the vicinity of the Site; and,
- To identify details of potential contaminant pathways on, in, or under the Site and potential environmental concerns and contaminants of potential concern.

6.1 General Requirements

McIntosh Perry conducted the Site reconnaissance on August 24, 2022 (from approximately 10:00 am to 11:15 am). Monica Black of McIntosh Perry inspected all areas of the Site and observed other properties in the Study Area from publicly accessible locations.

Weather conditions at the time of the Site visit were sunny and approximately 25 degrees Celsius, with low wind.

The Site is not considered an Enhanced Investigation Property under the requirements of O.Reg. 153/04. The Site is currently developed with three existing sea cans, occupied by the Petrie Island Canoe Club. The building is currently under ownership from the City of Ottawa, based on the GeoWarehouse Property Report. Surrounding land use is primarily beach/Parkland, and the Ottawa River. Land use in the vicinity is shown on Figure 3.

Photographs of the Site are included in Appendix D. A brief description is included with each photograph, including location and orientation where applicable.

Field assessment and reporting for this report was conducted by Monica Black, B.Sc., of McIntosh Perry. Monica is a Junior Project Manager, Environmental, and has experience conducting and managing Phase I and II ESAs for residential, commercial and industrial properties across Ontario.

Senior review for this report was provided by Meghan Coyle, P.Geo. Meghan has over 15-years experience in undertaking and reporting Phase I/One and II/Two ESAs for residential, commercial and institutional sites for public and private sector clients throughout Ontario. Meghan is a Qualified Person (QP) under O.Reg. 153/04.

McIntosh Perry is licensed to practice engineering and geoscience in the Province of Ontario. McIntosh Perry holds Certificates of Authorization with the Professional Engineers of Ontario (PEO) and Professional Geoscientists Ontario (PGO) and is a full member of the Association of Consulting Engineering Companies (ACEC).

6.2 Specific Observations at the Phase One Property

6.2.1 Structures and Other Improvements

The Site is currently occupied by three (3) sea cans, which is used for boat storage for the Petrie Island Canoe Club.

6.2.2 Below Ground Structures

No below ground structures were observed.

6.2.3 Storage Tanks

No fuel storage tanks (above or below ground) were observed during the Site visit.

6.2.4 Lead containing Paint

Based on the approximate age of the Site Buildings (approximately 2016), it is unlikely for the presence of paints with high concentrations of lead to be present within the Site Buildings; analytical testing would be required to confirm this.

6.2.5 Hazardous Materials

Chemicals observed during the Site reconnaissance were limited to chemicals related to building maintenance (e.g., paints, cleaning materials, etc.). These chemicals were observed in the sea can located furthest to the south and were observed to be generally in good condition. No staining or evidence of spills were observed in the chemical storage areas on-Site.

6.2.6 Potable and Non-Potable Water Sources

The Site building does not have running water.

6.2.7 Underground Service Trenches

Underground service trenches for water were not observed.

6.2.8 Exit and Entry Points

All exit and entry points to the Site were inspected. No concerns were identified.

6.2.9 Existing and Former Heating Systems

The Site Building does not utilize heating systems.

6.2.10 Cooling Systems

The Site Building does not utilize cooling systems.

6.2.11 Drains, Pits, and Sumps

Drains, pits and sumps are not present in the Site buildings.

6.2.12 Unidentified Substances

No unidentified substances were observed at the Site.

6.2.13 Stains and/or Corrosion Near Drains, Pits, and Sumps

No stains and/or corrosion were observed.

6.2.14 Well Details

No wells were observed at the Site.

6.2.15 Details of Sewage Works

Wastewater is not generated within the Site Building.

6.2.16 Ground Surface Details

The Site building (sea cans) are located in the sand/beach area. A gravel parking lot and some grassed area is located to the south of the Site.

6.2.17 Current and Former Railway Lines

No current or former railway lines were encountered at the Site or adjacent properties.

6.2.18 Staining to Soil, Vegetation, or Pavement

No evidence of staining to the soil, vegetation or pavement was identified at the time of the Site visit.

6.2.19 Stressed Vegetation

No vegetation, stressed or otherwise, were observed at the Site.

6.2.20 Fill and Debris

The Site is located on the beach area on Petrie Island. Based on historical review, the beach sand is considered to be fill material of unknown quality.

6.2.21 Mould

No mould-like substances were observed at the Site.

6.2.22 Asbestos-containing materials

No asbestos containing materials were observed on Site. Based on the approximate age of the Site Building (approximately 2016), it is unlikely for ACMs to be present within the Site Building(s).

6.2.23 Generators and other large mechanical equipment

No generators or other large mechanical equipment was observed during the Site visit.

6.3 Surrounding Properties

Surrounding land use in the vicinity of the Site generally consisted of the following:

- North – parkland (Stuemer Park), surrounded by beach area and the Ottawa River.
- South – forested area and a walking trail that goes around the perimeter of the historical landfill and the Ottawa River.
- East – parkland/beach area and the Ottawa River.
- West – parkland/beach area, gravel parking lots and the Ottawa River.

7.0 REVIEW AND EVALUATION OF INFORMATION

The following sections provide a review, evaluation and an interpretation of the information from the records review, interviews and site reconnaissance.

7.1 Current and Past Uses of Phase One Property

The Site is currently occupied by the Petrie Island Canoe Club, and the sea cans on-Site are used for boat storage. Based on a review of aerial photographs and historical information, the entirety of Petrie Island was utilized as sand/gravel operation between 1994 and 2004. The present-day beach/parkland on Petrie Island was developed in approximately 2004.

7.2 Potentially Contaminating Activities

A total of 2 PCAs were identified at the Site and within the Phase One ESA Study Area. As summary of identified PCAs is presented in Table 4 below.

Table 3: Potentially Contaminating Activities

No.	Potential Contaminating Activity (PCA)	Location of PCA	Proximity of PCA to Phase One ESA Property	Time Frame Associated with PCA	Information Source	Does the PCA warrant an area of potential environmental concern (APEC)
1	Importation of Fill Material of Unknown Quality – PCA #30, O.Reg.153/04	The entirety of Petrie Island	On-Site	Historic	ERIS and previous reports	**Yes – on-Site**
2	Waste Disposal and Waste Management, including landfilling, PCA #58, O.Reg.153/04	Petrie Island	Approximately 80 m south of the Site	Historic	Previous reports	**Yes – due to known contamination at the former landfill, close proximity to the Site and potential cross-gradient groundwater flow direction**

7.3 Areas of Potential Environmental Concern (APEC)

Of the 2 PCAs identified for the Phase One Property and Phase One Study Area, both are deemed to represent APECs.

7.4 Phase One Conceptual Site Model

This Phase One Conceptual Site Model is prepared as part of a Phase One Environmental Site Assessment (Phase One ESA) for the Phase One Property identified in Section 1.1.1 of this report, addressed as 585 Kirkwood Avenue, Ottawa, Ontario (hereinafter referred to as the "Phase One Property" or the "Site"). A Site Location Plan is presented on Figure 1.

The Site is a mainly rectangular shaped and is approximately 0.3 hectares in size and is located on Petrie Island. Based on the records review, Petrie Island appears to have been first developed around 1958. The Site itself has been occupied by the Petrie Island Canoe Club since 2012, where the beach was developed around 2003. It is our understanding that a 280 m^2 building is to be constructed for boat storage at the Petrie Island Canoe Club.

The legal description of the Site is as follows:

PT LT PETRIE ISLANDS CON 1OS CUMBERLAND (AKA LEONARD GROUP OF ISLANDS,) OPPOSITE LTS 28,29,30 CON 1 OS AND E OF NLY EXT OF WLY LIMIT OF TRIM RD AS IN RR85361; S/T & T/W RR85361; DESCRIPTION MAY NOT BE ACCEPTABLE IN FUTURE AS IN RR85361; S/T RR15741B, RR19542B; CUMBERLAND. S/T AN EASEMENT IN GROSS OVER PARTS 1 AND 2 PLAN 4R21787 A S IN OC734980

PIN 145380083

Land use at the Site is predominantly some residential with some commercial properties.

7.4.1 Areas Where Potentially Contaminating Activities Have Occurred

A total of 2 PCAs were identified for the Phase One ESA Property and surrounding properties within the Phase One Study Area based on a records and previous report review as part of this Phase One ESA, summarized in Table 4.

7.4.2 Areas of Potential Environmental Concern

Of the 2 PCAs identified for the Phase One Study area, both were identified to represent APECs in relation to the Site.

7.4.3 Contaminants of Potential Concern

Contaminants of potential concern include metals, PAHs, PHCs, and VOCs.

7.4.4 Potential for Underground Utilities to Affect Contaminant Distribution and Transport

In general, there is the potential for underground service trenches to serve as preferential contaminant transport pathways.

7.4.5 Geological and Hydrogeological Information

Geological maps of the area classify the overburden at the Site as modern alluvial deposits of clay, silt, sand, gravel, and potentially organic remains (OGS, 2017).

Geological maps of the area classify the bedrock under the Site as predominantly dolostone and sandstone of the Beekmantown Group (OGS, 2017).

The Site occurs within the Rideau Falls – Rideau River watershed. The Ottawa River is located approximately 1.5 kilometres northwest of the Site, at its closest point. Site drainage is presumed to consist of overland flow to municipal sewers along Kirkwood Avenue, as well as within areas of permeable ground surface surrounding the Site building.

7.4.6 Uncertainty or Absence of Information

No uncertainty or absence of information noted in the Phase One ESA is considered to have the potential to affect the validity of this conceptual site model.

8.0 CONCLUSIONS

Based on a review of historical information, the following PCAs have been identified in proximity to the Site:

- The historical landfill (Petrie Island Landfill) located immediately south of the Site between the 1950s-1970s.; and
- The presence of imported fill of unknown quality (beach sand) used to construct the beach around 1976, and the presence of a gravel/sand operation on Petrie Island.

Based on historical review and the ERIS report, the Grandmaitres ran a sand/gravel operation at Petrie Island (Sand Extraction from Petrie (petrieisland.org); which included dredging extracted sand from under the Ottawa River. It is in our opinion that the dredging of the Ottawa River to obtain said qualifies as importation fill of unknown quality, which is identified as PCA#30 in Table 2 – Potentially Contaminating Activities of O.Reg.153/04, as amended. Any on-Site PCA is automatically considered an APEC, as per O.Reg.153/04.

Additionally, the former landfill also represents an APEC to the Site. Multiple soil exceedances, such as various metal parameters, PHC parameters, and semi-VOC parameters that were identified in the *2020 Golder Landfill Review and Screening Level Risk Assessment* and limited groundwater samples were collected during the investigation. Additionally, groundwater contamination was identified in *2002 Paterson Petrie Island Beach House Project – Phase I/II Report,* but the location of this was not provided. Groundwater flow in the area has not confirmed and has potential to flow towards the Site. It is in our opinion that further investigation is required at the Site to determine the impact of the historical landfill in relation to the Site.

Based on the PCAs identified at these properties, they are considered to represent APECs at the Site.

8.1 Is a Phase 2 ESA Required?

Based on the above noted information, ***a Phase Two ESA is a required for this Site, as per O.Reg.153/04, if an RSC was to be completed.*** *Because no change in land use is occurring an RSC is not required.*

It is understood that structural foundation will likely be required for the new boat storage facility. It also understood that this property is currently owned by the City of Ottawa and being leased by the Client. Therefore, McIntosh Perry recommends a limited Phase II ESA/sampling program in the area of proposed construction to ensure potentially contaminated soil and/or groundwater (in relation to the off-site landfill) will not be encountered during construction. At the time of writing this Phase I ESA report, the construction plans are not yet finalized. Therefore, the sampling program could coincide with construction activities to ensure target areas are sampled.

9.0 LIMITATIONS

The information presented in this report is based on the historical data obtained from readily available public records, information provided by others and direct visual observation made by personnel with McIntosh Perry as identified herein. This assessment did not include such tasks as sample gathering, laboratory testing, or intrusive investigations. Recommendations contained within our report reflect our informed opinion based on the information gathered during our investigation. The findings cannot be extended to components of the building or portions of the Site that were not reviewed or that were concealed or unavailable for direct observation at the time of our visit.

This report describes the potential for significant negative environmental conditions being present on the property and is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for significant environmental conditions to exist on the property. Where this potential exists, the further reduction or elimination of uncertainty requires the performance of a Phase II Environmental Site Assessment (ESA), i.e., sample gathering, laboratory testing and intrusive investigation.

No legal survey, soil test, detailed structural engineering investigation, or quantity survey compilation have been made. No responsibility, therefore, is assumed concerning these matters, or for any failure to carry out those technical or engineering procedures required to discover any inherent or hidden condition of this property since such investigation work was not included in the terms of reference governing this study.

This Phase I/One ESA is not an audit of environmental management practices and does not identify geotechnical conditions or geologic hazards of the Site.

The conclusions and recommendations detailed in this report are based upon the information available at the time of preparation of the report. No investigative method eliminates the possibility of obtaining imprecise or incomplete information. Professional judgement was exercised in gathering and analyzing the information obtained and in the formulation of our conclusions and recommendations. The recommendations are not intended to be utilized as a detailed specification for any remedial work that may be required. McIntosh Perry accepts no responsibility for interpretation of our recommendations, or actions taken based on them without our consultation and supervision.

McIntosh Perry does not certify or warrant the environmental status of the property nor the building on the property.

Information provided by McIntosh Perry is intended for Client use only. McIntosh Perry will not provide results or information to any party other than the Client, unless the Client, in writing, requests that information be provided to a third party or unless disclosure by McIntosh Perry is required by law. Any use by a third party, of reports or documents authored by McIntosh Perry, or any reliance by a third party, or decisions made by a third party, on the findings described in reports or documents authored by McIntosh Perry, is the sole responsibility of such third parties. McIntosh Perry accepts no responsibility for damages suffered by any third party as a result of decisions made or work carried out based on reports or documents authored by McIntosh Perry.

McIntosh Perry makes no representations concerning the legal and medical significance of our findings. With respect to regulatory compliance requirements, regulations change from time to time and interpretation of their meaning and intent may also change. McIntosh Perry accepts no responsibility for any legal interpretation of the Regulations, or the consequent financial effect on transactions, property values, or requirements for follow-up actions and costs.

The liability of McIntosh Perry or its staff is limited to the fees paid or actual damages incurred by the Client, whichever is less. McIntosh Perry is not responsible for consequential or indirect damages. All claims by the Client shall be deemed relinquished if not made within two years after last date of services provided.

Please note that the passage of time affects the information provided in the report. Environmental conditions of a Site can change. Opinions relating to the site conditions are based upon information that existed at the time that the conclusions were formulated.

The Client expressly agrees that it has entered into this agreement with McIntosh Perry, both on its own behalf and as agent on behalf of its employees and principals.

The Client expressly agrees that McIntosh Perry's employees and principals shall have no personal liability to the Client in respect of a claim, whether in contract, tort and/or any other cause of action in law. Accordingly, the Client expressly agrees that it will bring no proceedings and take no action in any court of law against any of McIntosh Perry's employees or principals in their personal capacity.

We trust that this information is satisfactory for your present requirements. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Respectfully submitted,

McIntosh Perry Consulting Engineers Ltd.

Monica Black, B.Sc.
Junior Project manager, Environmental

Meghan Coyle, P.Geo.
Practice Area Lead, Remediation

\\mcintoshperry.local\share\ottawa\01 project - proposals\2023 jobs\cco\cco-23-0977 csv_petrie island canoe club_1009 tweddle road\13 - phase one esa\05 report\final\cco-22-3082_phase one esa_petrie island canoe club_20.oct.22.docx

10.0 REFERENCES

City of Ottawa Mapping Software – GeoOttawa (website: https://maps.ottawa.ca/geoottawa/)

ERIS, 2022. Site-Specific Search Report Results.

Golder: Landfill Review and Screening Level Risk Assessment, Former Petrie Island Landfill, 2020.

Natural Resources Canada (NRCAN), 2011. Geobase online mapping tool: Hydro Network GIS Data accessed through <http://geobase.ca/geobase/en/viewer.jsp?group=nhn>.

Ontario Geologic Survey (OGS), 2017 GIS Data for bedrock and surficial geology stratigraphy.

Ontario Ministry of Environment, Conservation and Parks (MECP), Ontario Regulation (O.Reg.) 153/04; Records of Site Condition – Part XV.1 of the Act (i.e. The Environmental Protection Act), as amended.

Ontario Geological Survey (OGS), 2019 – Google EarthTM (website: http://www.mndmf.gov.on.ca /mines/ogs_earth _e.asp).

Ontario Ministry of Natural Resources and Forestry, Areas of Natural and Scientific Interest, 2019.

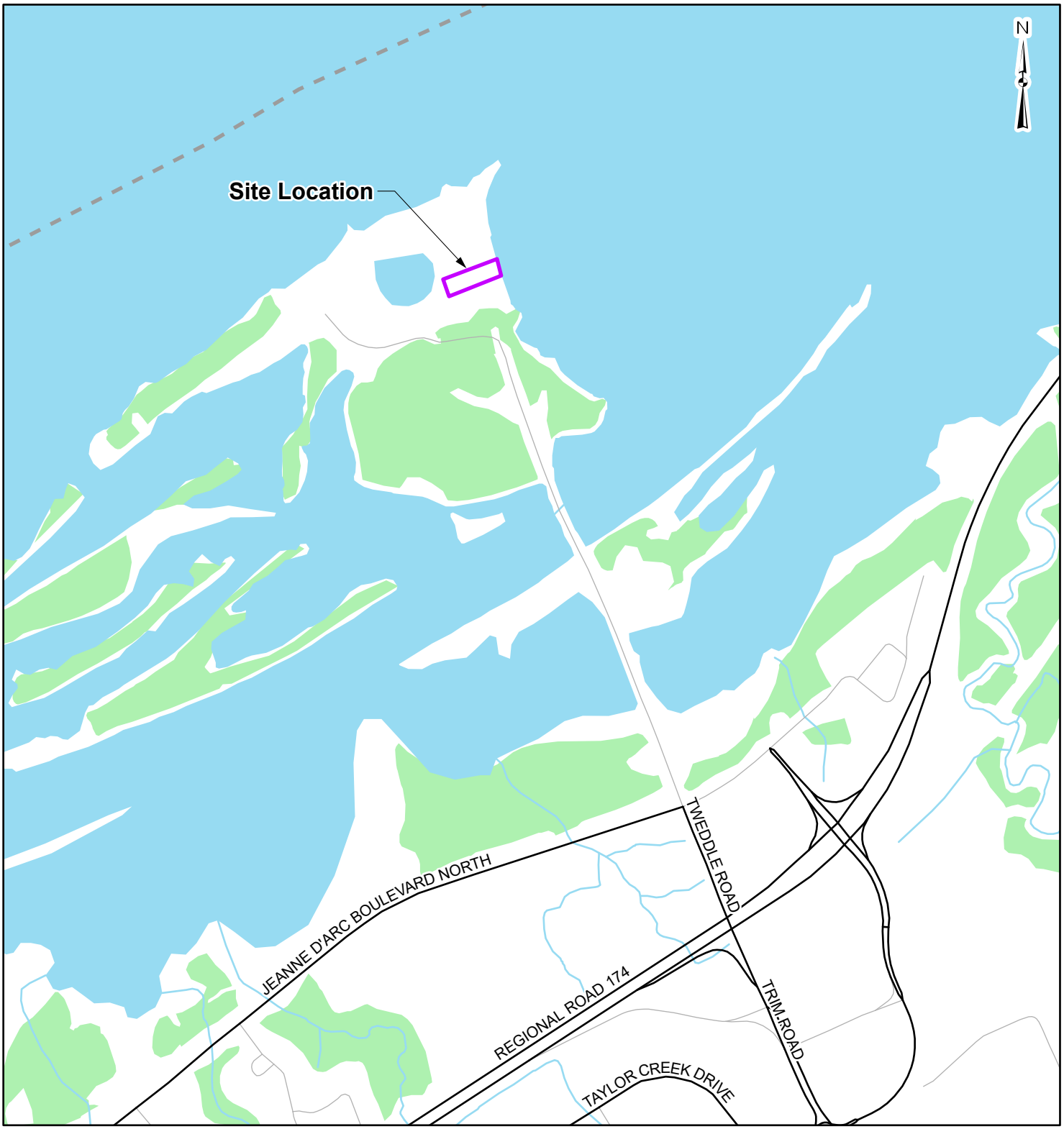
Paterson: Petrie Island Beach House Project- Phase I/II, 2002.

Sand Extraction from Petrie (petrieisland.org) (http://www.petrieisland.org/grandmaitre/sandextraction.htm).

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
795 TRIM ROAD, ORLEANS, ONTARIO

FIGURES

McINTOSH PERRY



300 150 0 300

Scale 1:10,000 Metres

LEGEND

- Local Road
- Major Road
- Watercourse
- Waterbody
- Wooded Area
- Approximate Site Boundary

REFERENCE

GIS data provided by the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry, 2022.

CLIENT:
CSV ARCHITECTS C/O DARRYL HOOD

PROJECT:
795 TRIM ROAD
PHASE I ENVIRONMENTAL SITE ASSESSMENT

TITLE:
SITE LOCATION

McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com

PROJECT NO: CCO-23-0977	
Date	Sep., 01, 2022
GIS	AH
Checked By	MB

FIGURE: 1

LEGEND

Approximate Site Boundary

50 25 0 50

Scale 1:2,000 Metres

REFERENCE

GIS data provided by the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry, 2022.

CLIENT:
CSV ARCHITECTS C/O DARRYL HOOD

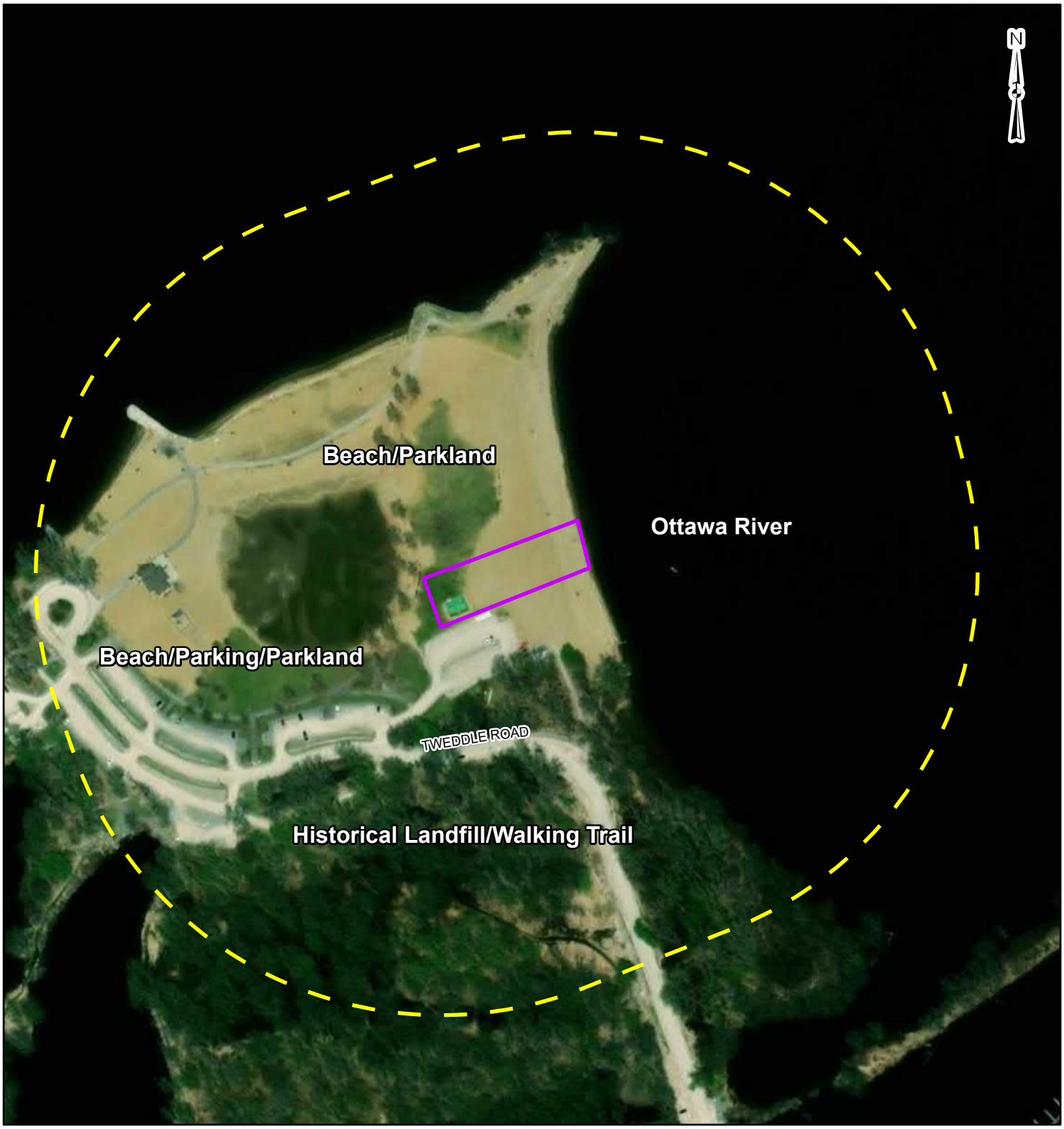
PROJECT:
795 TRIM ROAD
PHASE I ENVIRONMENTAL SITE ASSESSMENT

TITLE:
SITE LAYOUT

McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com

PROJECT NO:CCO-23-0977	
Date	Sep., 01, 2022
GIS	AH
Checked By	MB

FIGURE: 2



LEGEND

- Approximate Site Boundary
- 250m Buffer

100 50 0 100

Scale 1:3,500 Metres

REFERENCE

GIS data provided by the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry, 2022.

CLIENT: CSV ARCHITECTS C/O DARRYL HOOD

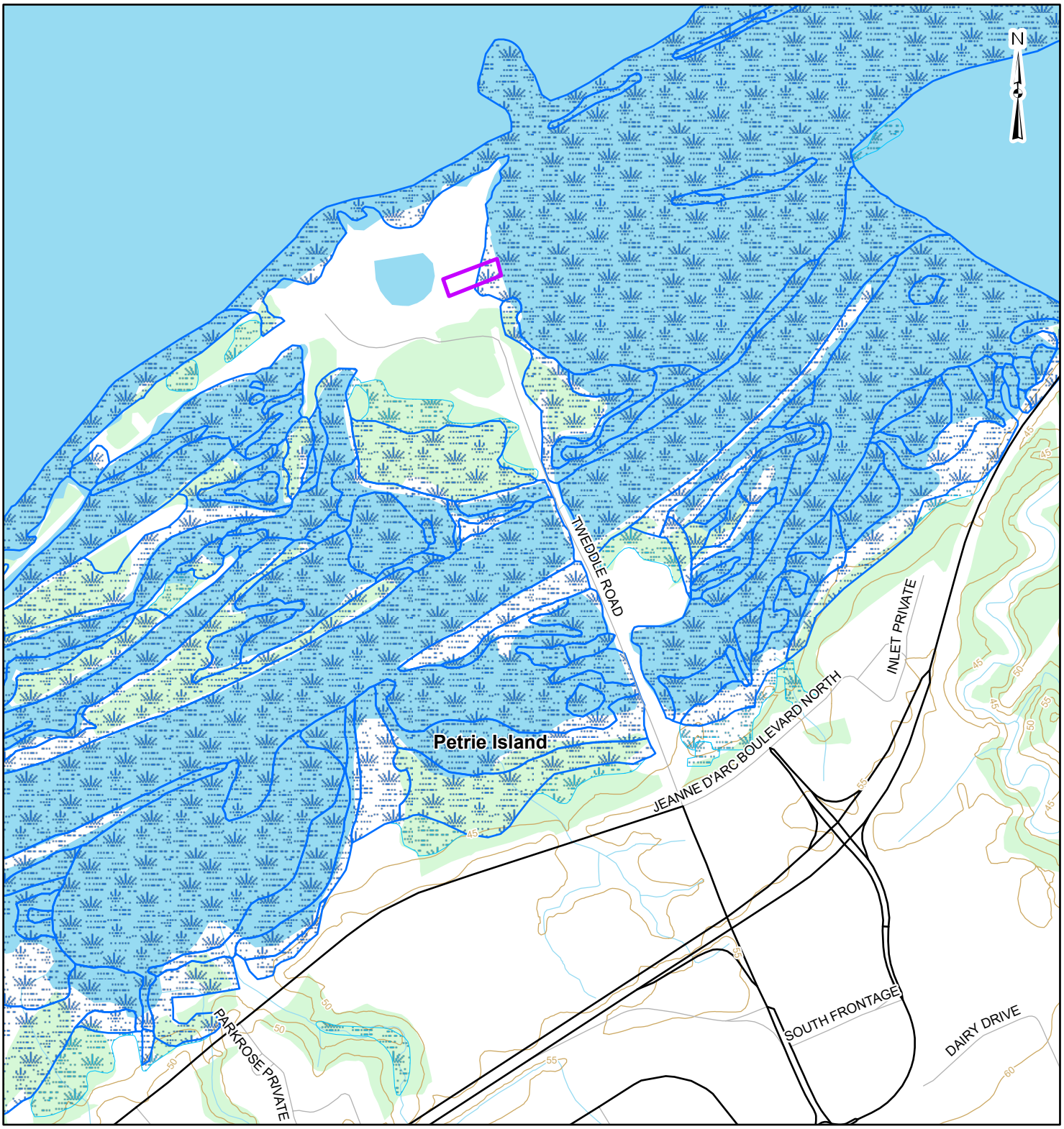
PROJECT: 795 TRIM ROAD
PHASE I ENVIRONMENTAL SITE ASSESSMENT

TITLE: SURROUNDING LAND USE

McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com

PROJECT NO: CCO-23-0977	
Date	Sep., 01, 2022
GIS	AH
Checked By	MB

FIGURE: 3



250 125 0 250

Scale 1:10,000 Metres

LEGEND

- Approximate Site Boundary
- Contour (masl)
- Local Road
- Major Road
- Watercourse
- Waterbody
- Unevaluated Wetland
- Provincially Significant Wetland
- Wooded Area

REFERENCE

GIS data provided by the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry, 2022.

CLIENT: CSV ARCHITECTS C/O DARRYL HOOD

PROJECT: 795 TRIM ROAD
PHASE I ENVIRONMENTAL SITE ASSESSMENT

TITLE: DRAINAGE AND TOPOGRAPHY

McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com

PROJECT NO:	CCO-23-0977
Date	Sep., 01, 2022
GIS	AH
Checked By	MB

FIGURE: 4

LEGEND

- Approximate Site Boundary
- 250m Buffer
- PCA 1 and APEC 1
- PCA 2 and APEC 2

1 Historical Landfill (Petrie Island Landfill)

2 Imported Fill of unknown quality (Petrie Island)

REFERENCE

GIS data provided by the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry, 2022.

80 40 0 80

Scale 1:3,000 Metres

CLIENT: CSV ARCHITECTS C/O DARRYL HOOD

PROJECT: 795 TRIM ROAD
PHASE I ENVIRONMENTAL SITE ASSESSMENT

TITLE: POTENTIALLY CONTAMINATING ACTIVITIES (PCA'S) AND AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC'S)

McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A1L0
Tel: 613-836-2184 Fax: 613-836-3742
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PROJECT NO: CCO-23-0977		FIGURE: 5
Date	Sep., 02, 2022	
GIS	AH	
Checked By	MB	

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PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
795 TRIM ROAD, ORLEANS, ONTARIO

APPENDIX A: ERIS REPORT

McINTOSH PERRY

DATABASE REPORT

Project Property:	*Phase One ESA - Canoe Club* *795 Trim Rd* *Orléans ON K4A 3P4*
Project No:	*PCO-23-0977*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*22060201166*
Requested by:	*McIntosh Perry Consulting Engineers*
Date Completed:	*August 10, 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:	*Phase One ESA - Canoe Club* *795 Trim Rd Orléans ON K4A 3P4*
Project No:	*PCO-23-0977*

Order Information:

Order No:	*22060201166*
Date Requested:	*June 2, 2022*
Requested by:	*McIntosh Perry Consulting Engineers*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	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	1	1	2
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	2	2
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
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	4	1	5
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
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	0	0
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	2	0	2
	Total:		7	4	11

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		795 TRIM RD con 9 OTTAWA ON ***Well ID:*** 1534548	W/136.2	3.31	13
2	WWIS		795 TRIM ROAD OTTAWA ON ***Well ID:*** 1536848	W/137.6	3.33	20
3	CA	ROGER GRANDMAITRE LTEE.	795 TRIM ROAD LOT 30 CONC. 1 CUMBERLAND TWP. ON K4A 3P4	W/161.3	3.33	22
3	GEN	ROGER GRANDMAITRE LTD.	795 TRIM RD., CUMBERLAND TWP. CP 521 ORLEANS ON K4A 3P4	W/161.3	3.33	22
3	GEN	ROGER GRANDMAITRE LIMITED	795 TRIM ROAD CUMBERLAND TWP. ON K4A 3P4	W/161.3	3.33	23
3	GEN	ROGER GRANDMAITRE LTD. 32-182	795 TRIM RD., CUMBERLAND TWP. CP 521 ORLEANS ON K4A 3P4	W/161.3	3.33	23
3	GEN	GOLDER ASSOCIATES INC.	795 Trim Rd Ottawa ON K4A 3P4	W/161.3	3.33	23

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
4	CA	City of Ottawa	781 Trim Rd Ottawa ON K4A 3P4	SSW/64.9	3.41	24
4	ECA	City of Ottawa	781 Trim Rd Ottawa ON K2G 6J8	SSW/64.9	3.41	24
4	ECA	City of Ottawa	781 Trim Rd Ottawa ON K2G 6J8	SSW/64.9	3.41	24
5	GEN	City of Ottawa	777 Trim Road Ottawa ON K4A 3P4	SE/159.1	3.06	24

Executive Summary: Summary By Data Source

CA - Certificates of Approval

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

Site	Address	Distance (m)	Map Key
ROGER GRANDMAITRE LTEE.	795 TRIM ROAD LOT 30 CONC. 1 CUMBERLAND TWP. ON K4A 3P4	161.3	3
City of Ottawa	781 Trim Rd Ottawa ON K4A 3P4	64.9	4

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Jun 30, 2022 has found that there are 2 ECA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
City of Ottawa	781 Trim Rd Ottawa ON K2G 6J8	64.9	4
City of Ottawa	781 Trim Rd Ottawa ON K2G 6J8	64.9	4

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Feb 28, 2022 has found that there are 5 GEN site(s) within approximately 0.25 kilometers of the project property.

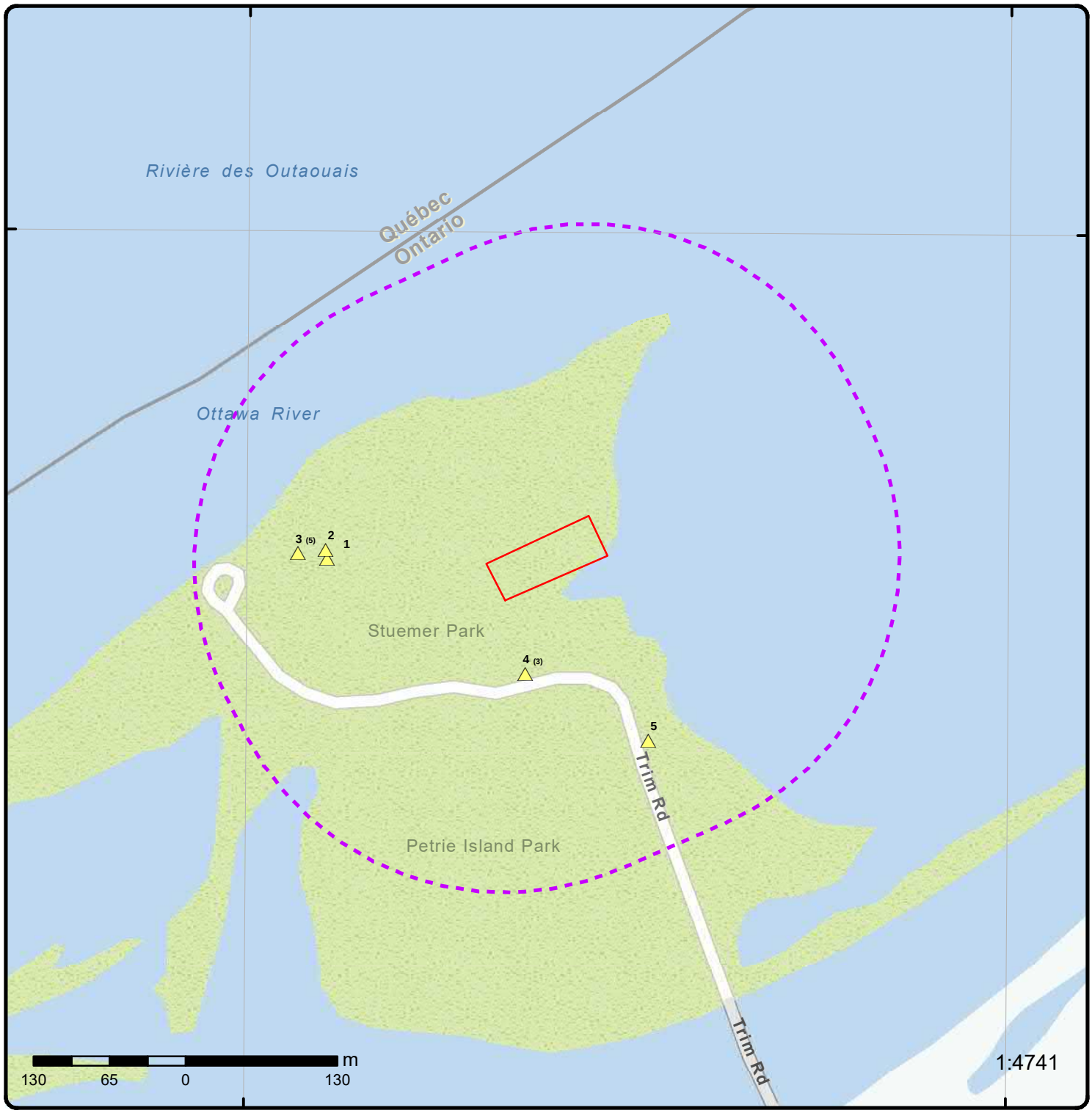
Site	Address	Distance (m)	Map Key
ROGER GRANDMAITRE LIMITED	795 TRIM ROAD CUMBERLAND TWP. ON K4A 3P4	161.3	3
ROGER GRANDMAITRE LTD. 32-182	795 TRIM RD., CUMBERLAND TWP. CP 521 ORLEANS ON K4A 3P4	161.3	3

Site	Address	Distance (m)	Map Key
GOLDER ASSOCIATES INC.	795 Trim Rd Ottawa ON K4A 3P4	161.3	3
ROGER GRANDMAITRE LTD.	795 TRIM RD., CUMBERLAND TWP. CP 521 ORLEANS ON K4A 3P4	161.3	3
City of Ottawa	777 Trim Road Ottawa ON K4A 3P4	159.1	5

WWIS - Water Well Information System

A search of the WWIS database, dated Jan 31, 2022 has found that there are 2 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	795 TRIM RD con 9 OTTAWA ON ***Well ID:*** 1534548	136.2	1
	795 TRIM ROAD OTTAWA ON ***Well ID:*** 1536848	137.6	2



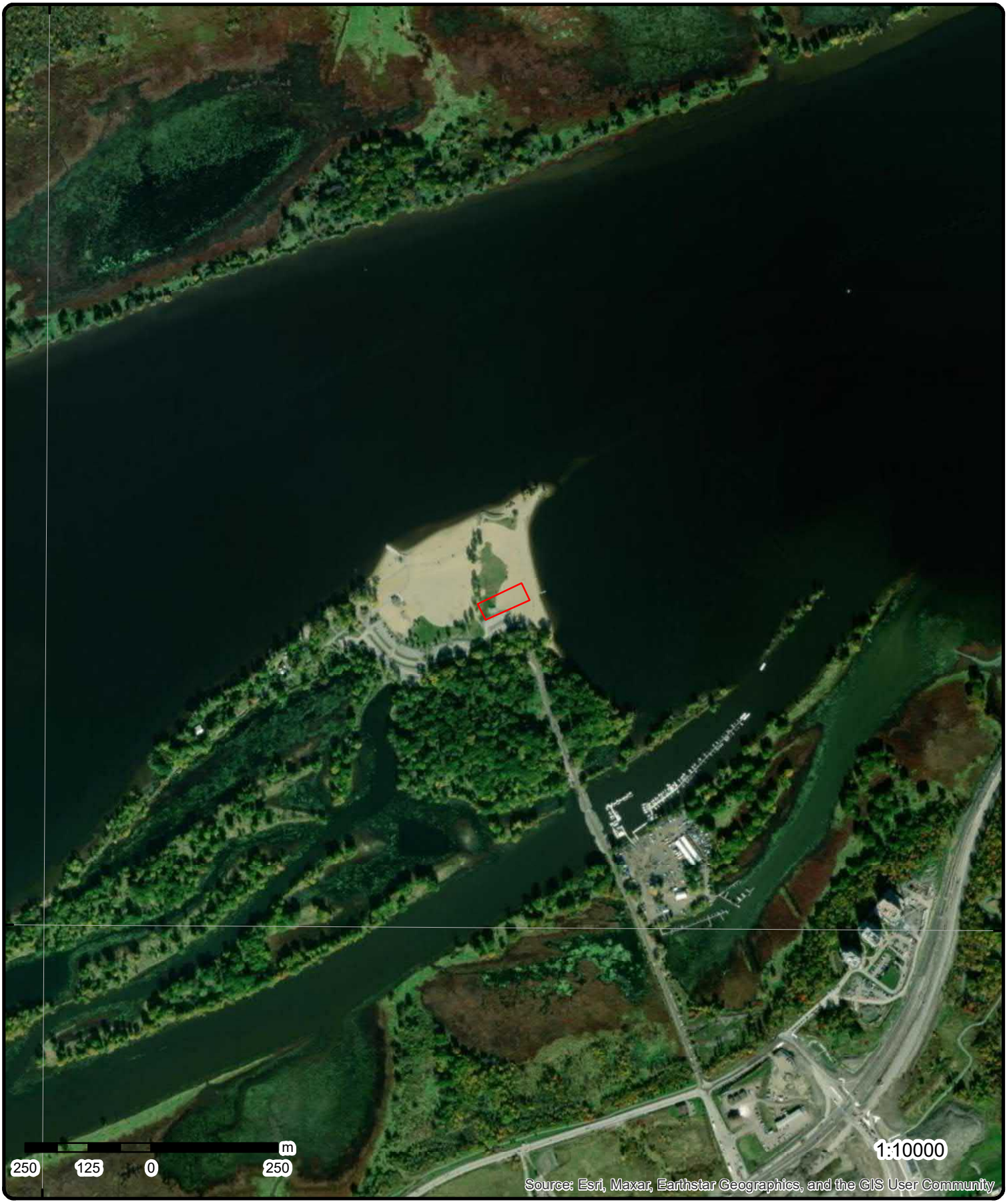
Map: 0.25 Kilometer Radius

Order Number: 22060201166

Address: 795 Trim Rd, Orléans, 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)

75°30'W



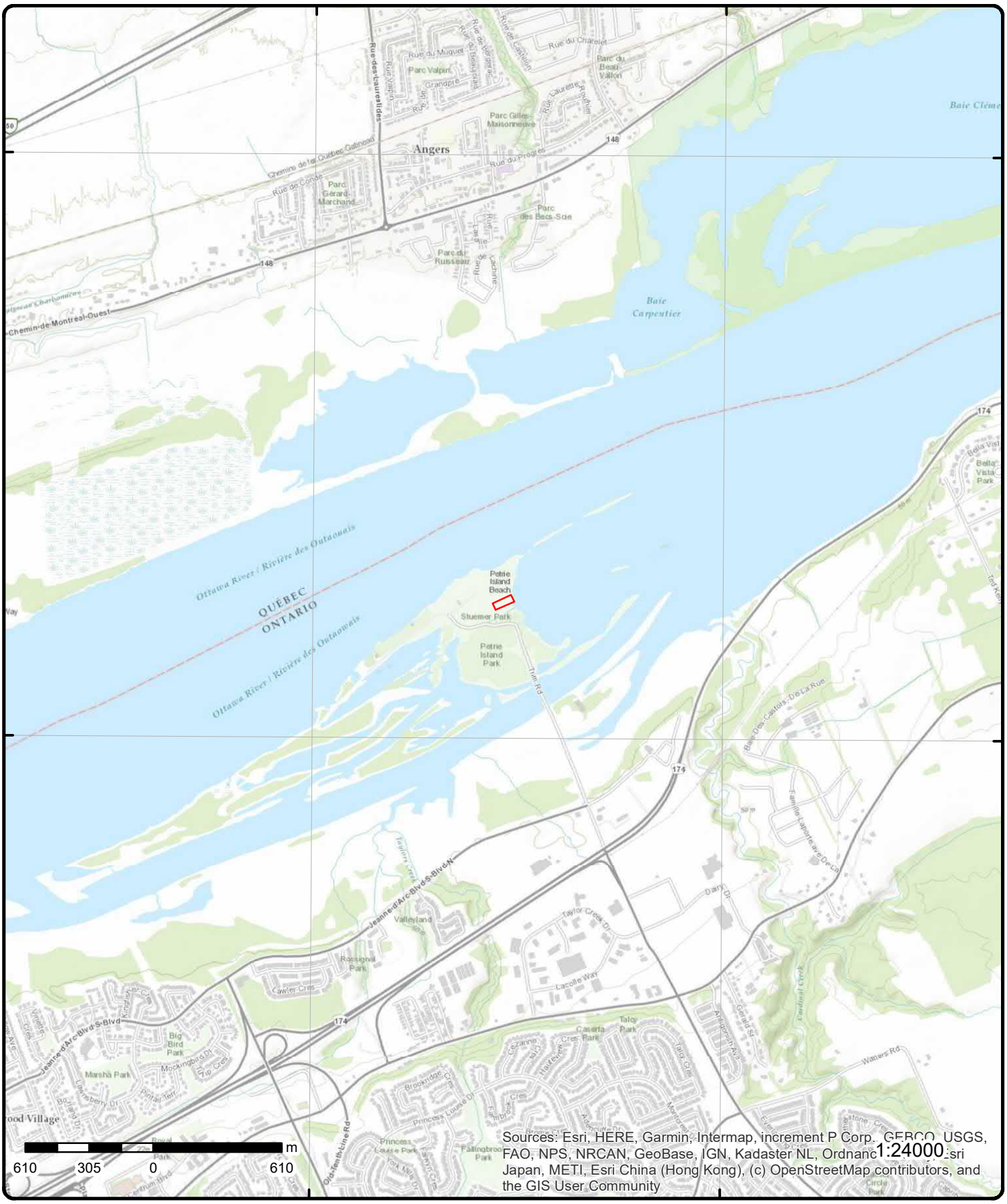
Aerial

Year: 2021

Address: 795 Trim Rd, Orléans, ON

Source: ESRI World Imagery

Order Number: 22060201166



Topographic Map

Address: 795 Trim Rd, ON

Source: ESRI World Topographic Map

Order Number: 22060201166

ERIS

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	W/136.2	46.8 / 3.31	795 TRIM RD con 9 OTTAWA ON	WWIS

Well ID:	1534548	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Public	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Water Supply	**Date Received:**	31-Mar-2004 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z04869	**Contractor:**	1119
Tag:	A004735	**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	09
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: CUMBERLAND TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534548.pdf

Additional Detail(s) (Map)

Well Completed Date: 2004/02/23
Year Completed: 2004
Depth (m): 73.8
Latitude: 45.5058090296003
Longitude: -75.4907784568415
Path: 153\1534548.pdf

Bore Hole Information

Bore Hole ID:	11104818	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	461661.00
Code OB Desc:		**North83:**	5039259.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	5
Date Completed:	23-Feb-2004 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	wwr

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	932955021
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	66.4000015258789
Formation End Depth:	73.80000305175781
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	932955020
Layer:	3
Color:	
General Color:	
Mat1:	12
Most Common Material:	STONES
Mat2:	10
Mat2 Desc:	COARSE SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	12.199999809265137
Formation End Depth:	66.4000015258789
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	932955018
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	10.699999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	932955019
Layer:	2
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	

Mat3 Desc:
Formation Top Depth: 10.699999809265137
Formation End Depth: 12.199999809265137
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933248672
Layer: 1
Plug From: 68.30000305175781
Plug To: 65.19999694824219
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933248673
Layer: 2
Plug From: 65.19999694824219
Plug To: 0.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961534548
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11109239
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930837304
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 68.30000305175781
Depth To: 73.80000305175781
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930837303
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0.0
Depth To: 68.9000015258789
Casing Diameter: 15.880000114440918
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID:	11117357
Pump Set At:	25.899999618530273
Static Level:	-0.20999999344348907
Final Level After Pumping:	0.38999998569488525
Recommended Pump Depth:	70.0
Pumping Rate:	100.0
Flowing Rate:	
Recommended Pump Rate:	100.0
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	6
Pumping Duration MIN:	0
Flowing:	

Draw Down & Recovery

Pump Test Detail ID:	11122944
Test Type:	Recovery
Test Duration:	30
Test Level:	0.11999999731779099
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11123199
Test Type:	Draw Down
Test Duration:	60
Test Level:	4.019999980926514
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11123197
Test Type:	Draw Down
Test Duration:	40
Test Level:	4.0
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11123205
Test Type:	Recovery
Test Duration:	10
Test Level:	0.18000000715255737
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11123189
Test Type:	Draw Down
Test Duration:	3
Test Level:	2.869999885559082
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID: 11122945
Test Type: Recovery
Test Duration: 40
Test Level: 0.10000000149011612
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11122946
Test Type: Recovery
Test Duration: 50
Test Level: 0.05999999865889549
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11122947
Test Type: Recovery
Test Duration: 60
Test Level: 0.019999999552965164
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123186
Test Type: Recovery
Test Duration: 0
Test Level: 0.38999998569488525
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123190
Test Type: Draw Down
Test Duration: 4
Test Level: 3.059999942779541
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123195
Test Type: Draw Down
Test Duration: 25
Test Level: 3.880000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123196
Test Type: Draw Down
Test Duration: 30
Test Level: 3.9600000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123187
Test Type: Draw Down

Test Duration: 1
Test Level: 1.7400000095367432
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123198
Test Type: Draw Down
Test Duration: 50
Test Level: 4.019999980926514
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123200
Test Type: Recovery
Test Duration: 1
Test Level: 0.1899999976158142
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123202
Test Type: Recovery
Test Duration: 3
Test Level: 0.18000000715255737
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123206
Test Type: Recovery
Test Duration: 15
Test Level: 0.17000000178813934
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123207
Test Type: Recovery
Test Duration: 20
Test Level: 0.17000000178813934
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123194
Test Type: Draw Down
Test Duration: 20
Test Level: 3.819999933242798
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123203
Test Type: Recovery
Test Duration: 4
Test Level: 0.18000000715255737
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123201
Test Type: Recovery
Test Duration: 2
Test Level: 0.18000000715255737
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123208
Test Type: Recovery
Test Duration: 25
Test Level: 0.1599999964237213
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123185
Test Type: Draw Down
Test Duration: 0
Test Level: -0.20999999344348907
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123188
Test Type: Draw Down
Test Duration: 2
Test Level: 2.509999990463257
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123192
Test Type: Draw Down
Test Duration: 10
Test Level: 3.5999999046325684
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123193
Test Type: Draw Down
Test Duration: 15
Test Level: 3.75
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123191
Test Type: Draw Down
Test Duration: 5
Test Level: 3.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11123204

Test Type:	Recovery
Test Duration:	5
Test Level:	0.18000000715255737
Test Level UOM:	m

Water Details

Water ID:	934046339
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	71.0
Water Found Depth UOM:	m

Water Details

Water ID:	934046340
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	71.5999984741211
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	11109238
Diameter:	15.239999771118164
Depth From:	0.0
Depth To:	73.80000305175781
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	11104818	**Tag No:**	A004735
Depth M:	73.8	**Contractor:**	1119
Year Completed:	2004	**Path:**	153\1534548.pdf
Well Completed Dt:	2004/02/23	**Latitude:**	45.5058090296003
Audit No:	Z04869	**Longitude:**	-75.4907784568415

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2 | ***1 of 1*** | ***W/137.6*** | ***46.8 / 3.33*** | ***795 TRIM ROAD OTTAWA ON*** | ***WWIS***

Well ID:	1536848	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Quality	**Date Received:**	01-Dec-2006 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z55509	**Contractor:**	1119
Tag:		**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: OTTAWA CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1536848.pdf

Additional Detail(s) (Map)

Well Completed Date: 2006/11/03
Year Completed: 2006
Depth (m): 73.15
Latitude: 45.5058809809679
Longitude: -75.4907918831264
Path: 153\1536848.pdf

Bore Hole Information

Bore Hole ID:	11691942	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	461660.00
Code OB Desc:		**North83:**	5039267.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	03-Nov-2006 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 933071092
Layer: 1
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 73.1500015258789
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933286644
Layer: 2
Plug From: 2.130000114440918
Plug To: 1.8300000429153442
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933286645

Layer: 3
Plug From: 1.8300000429153442
Plug To: 0.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933286643
Layer: 1
Plug From: 73.1500015258789
Plug To: 2.130000114440918
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961536848
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 11696808
Casing No: 1
Comment:
Alt Name:

Links

Bore Hole ID: 11691942
Depth M: 73.15
Year Completed: 2006
Well Completed Dt: 2006/11/03
Audit No: Z55509
Tag No:
Contractor: 1119
Path: 153\1536848.pdf
Latitude: 45.5058809809679
Longitude: -75.4907918831264

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3 | ***1 of 5*** | ***W/161.3*** | ***46.8 / 3.33*** | ***ROGER GRANDMAITRE LTEE. 795 TRIM ROAD LOT 30 CONC. 1 CUMBERLAND TWP. ON K4A 3P4*** | ***CA***

Certificate #: 4-0036-89-010
Application Year: 89
Issue Date: 6/14/89
Approval Type: Industrial wastewater
Status: Nullity, Letter of Concurrence issued
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: DREDGING OF OTTAWA RIVER
Contaminants:
Emission Control:

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3 | ***2 of 5*** | ***W/161.3*** | ***46.8 / 3.33*** | ***ROGER GRANDMAITRE LTD. 795 TRIM RD., CUMBERLAND TWP. CP 521 ORLEANS ON K4A 3P4*** | ***GEN***

Generator No: ON1217900
Status:

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

SIC Code: 9911
SIC Description: IND. MACH. RENTAL
Approval Years: 89
PO Box No:
Country:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

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3 | 3 of 5 | W/161.3 | 46.8 / 3.33

ROGER GRANDMAITRE LIMITED
795 TRIM ROAD
CUMBERLAND TWP. ON K4A 3P4

GEN

Generator No: ON1217900
SIC Code: 9911
SIC Description: IND. MACH. RENTAL
Approval Years: 92,93,97,98,99,00,01,02,03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

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3 | 4 of 5 | W/161.3 | 46.8 / 3.33

ROGER GRANDMAITRE LTD. 32-182
795 TRIM RD., CUMBERLAND TWP. CP 521
ORLEANS ON K4A 3P4

GEN

Generator No: ON1217900
SIC Code: 9911
SIC Description: IND. MACH. RENTAL
Approval Years: 94,95,96
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

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3 | 5 of 5 | W/161.3 | 46.8 / 3.33

GOLDER ASSOCIATES INC.
795 Trim Rd
Ottawa ON K4A 3P4

GEN

Generator No: ON7955140
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		Light fuels			

4	1 of 3	SSW/64.9	46.9 / 3.41	City of Ottawa 781 Trim Rd Ottawa ON K4A 3P4	CA

Certificate #: 0910-6W9K6L
Application Year: 2006
Issue Date: 12/18/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

4	2 of 3	SSW/64.9	46.9 / 3.41	City of Ottawa 781 Trim Rd Ottawa ON K2G 6J8	ECA

Approval No: 5638-6VZS6Y
Approval Date: 2006-12-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: City of Ottawa
Address: 781 Trim Rd
Full Address:
Full PDF Link:
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

4	3 of 3	SSW/64.9	46.9 / 3.41	City of Ottawa 781 Trim Rd Ottawa ON K2G 6J8	ECA

Approval No: 0910-6W9K6L
Approval Date: 2006-12-18
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: 781 Trim Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6041-6VYKAW-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

5	1 of 1	SE/159.1	46.5 / 3.06	City of Ottawa 777 Trim Road Ottawa ON K4A 3P4	GEN

Generator No:	ON4981954	***Status:***	
SIC Code:	913910	***Co Admin:***	
SIC Description:	Other Local Municipal and Regional Public Administration	***Choice of Contact:***	
Approval Years:	07,08	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	221
Waste Class Desc:	LIGHT FUELS

Unplottable Summary

Total: 6 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
GEN	Hydro One Networks Inc	Navin DS Trim Road	Ottawa ON	
GEN	Hydro One Networks Inc	Navin DS Trim Road	Ottawa ON	
GEN	Hydro One Networks Inc	Navin DS Trim Road	Ottawa ON	
GEN	Hydro One Networks Inc	Navin DS Trim Road	Ottawa ON	
SPL	Glen Tay Transportation GP Inc.	and Trim Road	Ottawa ON	
WWIS		TRIM RD	OTTAWA ON	

Unplottable Report

Site: ***Hydro One Networks Inc***
Navin DS Trim Road Ottawa ON

Database: ***GEN***

Generator No: ON2571108
SIC Code: 221122
SIC Description: Electric Power Distribution
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: ***Hydro One Networks Inc***
Navin DS Trim Road Ottawa ON

Database: ***GEN***

Generator No: ON2571108
SIC Code: 221122
SIC Description: Electric Power Distribution
Approval Years: 2009
PO Box No:
Country:

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: ***Hydro One Networks Inc***
Navin DS Trim Road Ottawa ON

Database: ***GEN***

Generator No: ON2571108
SIC Code: 221122
SIC Description: Electric Power Distribution
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: ***Hydro One Networks Inc***
Navin DS Trim Road Ottawa ON

Database: ***GEN***

Generator No: ON2571108
SIC Code: 221122
SIC Description: Electric Power Distribution
Approval Years: 2010
PO Box No:
Country:

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

Detail(s)

Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES

Site: ***Glen Tay Transportation GP Inc. and Trim Road Ottawa ON***

Database: ***SPL***

Ref No:	5226-9MB49B	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2014/07/23	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Collision/Accident	***Sector Type:***	Truck - Transport/Hauling
Incident Event:		***Agency Involved:***	
Contaminant Code:	99	***Nearest Watercourse:***	Great Lakes - St. Lawrence; Lower Ottawa River; Rideau River; Ottawa River
Contaminant Name:	SAND/GRAVEL	***Site Address:***	and Trim Road
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:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	Priority Field Response (ERP Callout)	***Easting:***	
Dt MOE Arvl on Scn:	2014/07/24	***Site Geo Ref Accu:***	
MOE Reported Dt:	2014/07/23	***Site Map Datum:***	
Dt Document Closed:	2014/11/21	***SAC Action Class:***	Land Spills
Incident Reason:	Operator/Human Error	***Source Type:***	
Site Name:	Regional Rd 174 Eastbound<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Glen Tay Transportation: ukn diesel to ditch		
Contaminant Qty:	200 kg		

Site: ***TRIM RD OTTAWA ON***

Database: ***WWIS***

Well ID:	1536378	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	06-Jun-2006 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	Yes
Audit No:	Z45502	***Contractor:***	6894
Tag:		***Form Version:***	3
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	15000		
Site Info:			

Bore Hole Information

Bore Hole ID:	11550444	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	

Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02-May-2006 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Annular Space/Abandonment Sealing Record

Plug ID: 933294616
Layer: 1
Plug From: 0.0
Plug To: 0.6100000143051147
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933294617
Layer: 2
Plug From: 2.0999999046325684
Plug To: 0.6100000143051147
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961536378
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11560051
Casing No: 1
Comment:
Alt Name:

Hole Diameter

Hole ID: 11681151
Diameter:
Depth From: 80.0
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11681150
Diameter: 2.0999999046325684
Depth From:
Depth To: 0.0
Hole Depth UOM: m
Hole Diameter UOM: cm

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-Mar 2022

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-May 31, 2022

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2020

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-May 31, 2022

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 -Apr 2022

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Jun 2022

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 - Jun 30, 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: Feb 28, 2022

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011- Jun 30, 2022

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994 - Jun 30, 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- Jun 30, 2022

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Mar 31, 2022

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: 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, 2021

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Jun 2022

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2019

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

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

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

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

Government Publication Date: Feb 28, 2022

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Feb 28, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing 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: Feb 28, 2022

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Mar 21, 2022

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Feb 2022

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

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 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-May 31, 2022

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-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 - Jun 30, 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- Jun 30, 2022

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994 - Jun 30, 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-Jun 2022

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-May 31, 2022

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

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

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2020

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970 - 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: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011- Jun 30, 2022

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

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 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: Jan 31, 2022

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
795 TRIM ROAD, ORLEANS, ONTARIO

APPENDIX B: CORRESPONDENCE

McINTOSH PERRY

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

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

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

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

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

Ontario

August 12, 2022

Benjamin Edwards
McIntosh Perry Consulting Engineers
115 Walgreen Road
Carp, Ontario K0A 1L0
b.edwards@mcintoshperry.com

Dear Benjamin Edwards:

RE: **MECP FOI A-2022-06123 / Your Reference CCO-23-0977 – Acknowledgement Letter**

The Ministry is in receipt of your request made pursuant to the Freedom of Information and Protection of Privacy Act and has received your payment in the amount of $5.00 (non-refundable application fee).

The search will be conducted on the following: 795 Trim Road Orleans. If there is any discrepancy, please contact us immediately.

Please note the file number that has been assigned to your request. This number should be referred to in all future communications with our office.

Also, the Ministry's Freedom of Information and Protection of Privacy Office (MECP Access and Privacy Office) is currently providing requesters with decisions/records via email. This allows requesters to obtain decisions containing records in a more timely and efficient way.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search and preparation time.

Due to the COVID-19 outbreak, requesters may experience some delays with FOI requests at this time.

If you have any questions, please contact Rose D'Souza at 416-276-6548 or Rose.D'Souza7@ontario.ca.

Yours truly,
MECP Access and Privacy Office

Monica Black

From: Public Information Services <publicinformationservices@tssa.org>
Sent: August 12, 2022 1:31 PM
To: Benjamin Edwards
Subject: RE: Records for Site in Orleans, ON

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

NO RECORD FOUND IN CURRENT DATABASE

Hello,

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

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

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

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

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

Accessing the Service Prepayment Portal:

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

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

Kind Regards,
Sherees

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

From: Benjamin Edwards <b.edwards@mcintoshperry.com>
Sent: August 12, 2022 10:32 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Records for Site in Orleans, ON

Hello,

We are preparing a Phase One Environmental Site Assessment for a property located in Orleans, ON, and are inquiring If you have any records pertaining to the following site:

795 Trim Road, Orleans, Ontario, ON, K4A 3P4

If you have any questions please let me know.

Thank you,

Ben

Benjamin Edwards
Environmental Scientist
T. 343.317.7242
b.edwards@mcintoshperry.com | www.mcintoshperry.com

McINTOSH PERRY

Turning Possibilities Into Reality

Good morning Tyler

I apologize for our delay responding to this request. It had been mis-filed in our inbox and I noticed this morning that we never responded.

As per your request, ERU reviewed Historic Land Use Inventory (HLUI), proximity of the subject lands(s) to known former landfills and known risk management areas and ERU files as part of this environmental screening.

Please note the following from review of our available files/resources:

- The HLUI report for a 250 m radius around the subject lands is attached.
    - the lands south of Petrie Island beach are identified as a former landfill (Cu-13) under the City's Old Landfill Management Strategy (OLMS). The estimated footprint of the old landfill is shown in the image at the bottom of this email. ERU has completed several studies related to the old landfill and our unit has also been responsible for periodic inspections and removal of surface debris from the old landfill area. The Petrie Island area is also identified as being used historically for aggregate (sand and gravel) operations.
- ERU has copies of the following reports for Petrie Island:
    - Environmental and Geotechnical Investigations to support the original development of Petrie Island Beach

- Paterson, 2002. Geotechnical Investigation, Beach House Project, Petrie Island, Ottawa, Ontario (dated June 27, 2002)
- Paterson, 2002. Phase I-II Environmental Site Assessment, Beach House Project, Petrie Island, Ottawa, Ontario (dated July 22, 2002)

o Environmental Reports stemming from OLMS and related to assessment and/or management of Landfill Cu-13

- Paterson, 2004. Old Landfill Management Data Gap Analysis, Petrie Island Landfill Site (Cu-13), Ottawa, Ontario (dated January 21, 2004)
- Paterson, 2004. Abandonment of Existing Monitoring Wells, Former Landfill Site at Petrie Island, Ottawa, Ontario (dated June 11, 2004)
- Golder, 2005. Former Landfill Surface Waste, Petrie Island (Cu-13), Ottawa, Ontario (July 22, 2005)
- AMEC, 2007. Monitoring Well Sampling and Decommissioning, Old Landfill Management Strategy, Cu-13 Petrie Island Dump, Ottawa, Ontario (dated December 21, 2007)
- Golder, 2020. Landfill Review and Screening Level Risk Assessment, Former Petrie Island Landfill, Cu-13 (dated July 2020)

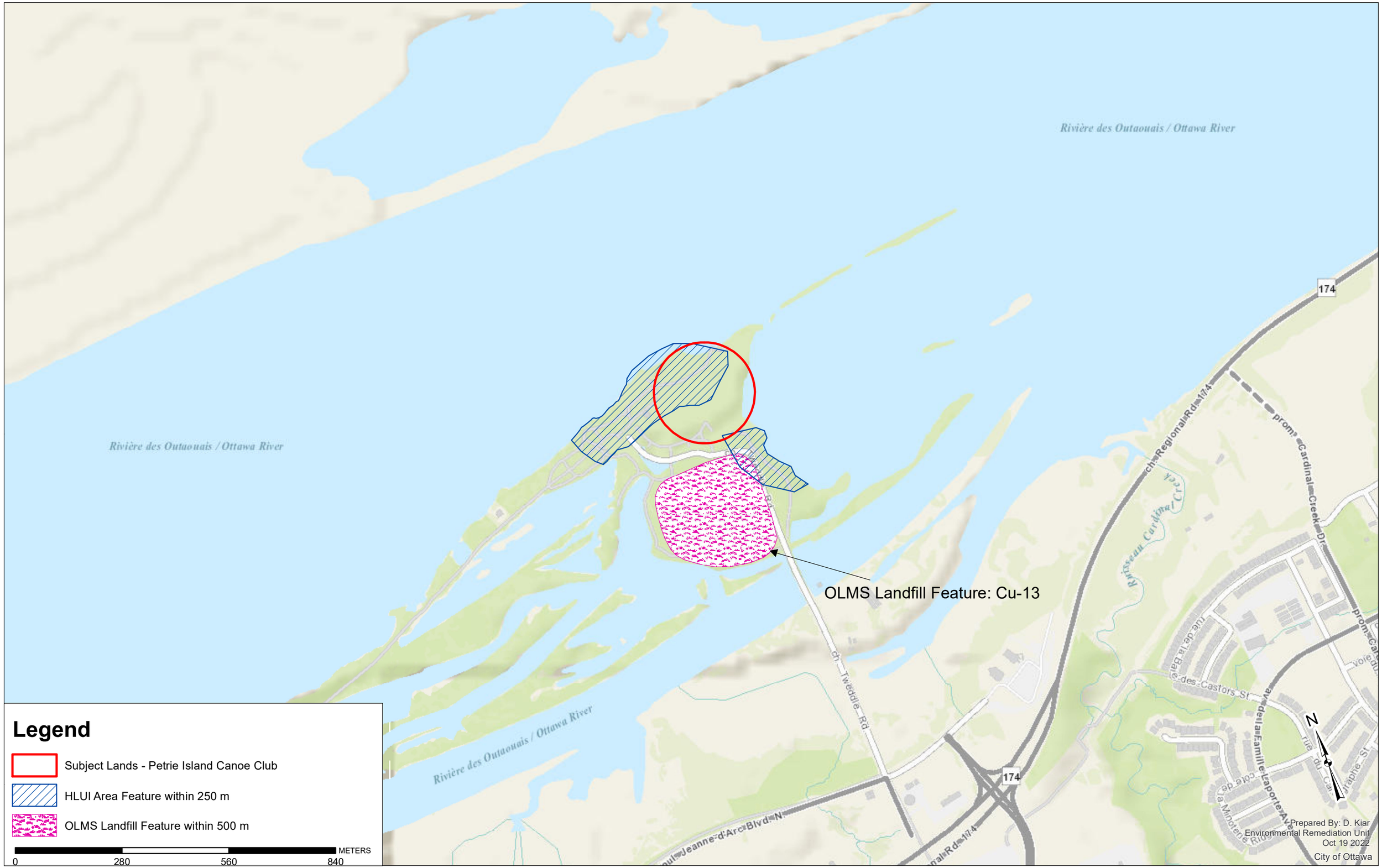
If your project should uncover contamination during the proposed work, excavated/removed material must be handled, transported and disposed of in accordance with all applicable regulations/legislation, and at the project's expense. Workers should be aware of the conditions and wear appropriate personal protective equipment as necessary. The City's Environmental Remediation Unit (eru-uae@ottawa.ca) should also be notified if/when contamination is identified during construction or investigation works on City-owned property (including municipal right-of-ways).

Thank you

David Kiar | Advisor, Environmental Remediation
Environmental Remediation Unit
Corporate Real Estate Office
Planning, Infrastructure and Economic Development

City of Ottawa, 110 Laurier Avenue West - 5th Floor West, Ottawa, ON K1P 1J1
Ph. 613.580.2424 x23251 | CELL: 613.868.8145 | david.kiar@ottawa.ca

HISTORIC LAND USE INVENTORY (HLUI) - REPORT REFERENCE MAP



Legend

- Subject Lands - Petrie Island Canoe Club
- HLUI Area Feature within 250 m
- OLMS Landfill Feature within 500 m

METERS

0 280 560 840

HLUI SUMMARY REPORT
AREA FEATURES

HISTORIC LANDFILL FEATURE	The historic landfills identified within the HLUI are referenced from the City's Old Landfill Management Strategy report (OLMS, 2004). Contact the City's Environmental Remediation Unit (ERU-UAE@ottawa.ca) if you would like more information about the old landfill sites identified in the OLMS report.
ALIAS	Petrie Island Dump
Common Name	Petrie Island
Common Name French	Île Petrie
HLUI	6470
NAME	Petrie Island Dump
OPERATIONAL PERIOD	1950 - mid 1970
OWNER	City of Ottawa
OWNER CATEGORY	City
Sie Name French	Dépotoire de l'île Petrie
SITE ID	Cu-13
Site ID French	Cu-13
Unique ID	Petrie Island DumpCu-13

Prepared By: *D.Kiar*
City of Ottawa
Environmental Remediation Unit
2022-10-20

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
795 TRIM ROAD, ORLEANS, ONTARIO

APPENDIX C: INTERVIEW RECORDS

McINTOSH PERRY

Phase I ESA Interviews

Interviewer (MPCE) Monica Black MPCE Project No. 23-0977

Interviewee Hector Carranco

Relationship to Subject Property Manager of Petrie Island Canoe Club Time Associated with Property: since 2022

↗ sea-cans present since 2016

Date August 23, 2022 Date Property was developed: 2013 program started

Potential Item of Concern	Interview Comments
Accidents/Spills	None
Previous Use of Site	beach for the previous 25 years
Adjacent Properties	
Fuel Handling/Storage	jerry cans stored inside sea-cans for the motor boats ↳ motor boats stored @ nearby marina
Maintenance/ Operational Areas	None
Hazardous Materials Storage	None
Salt Storage	None

* Hector was also reaching out to someone who might have more info

Potential Item of Concern	Interview Comments
Fuel Storage Tanks	NO FST → Fuel is contained in jerry cans
Odours	None
Potable Water	None → site is not serviced w/ potable water
Septic and Wastewater Discharges	None → outhouses provided by the City in areas nearby the canoe club
Pesticides	None
Mould	None
Heating and Cooling Systems	None
Major Mechanical Equipment	None
Waste Oils, Solvents, Batteries	None
PCBs	None
Asbestos	likely none present due to age of canoe club/sea cans (2013)
Lead Paint	↳ same as above

Potential Item of Concern	Interview Comments
Ozon Depleting Substances (ODS)	None
Electromagnetic Radiation	None
Urea-formaldehyde foam insulation (UFFI)	None
Mercury	None
Radon Gas	None
Soil and Groundwater Conditions	None
Wells	None
Waste Disposal and Recycling	garbage bins that the city takes care of ↳ on the beach/near the canoe club
Fill Material	the beach sand
Floor Drains/OWS (discharge locations)	none
Other	

Future use of property: Petrie Island Canoe Club

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
795 TRIM ROAD, ORLEANS, ONTARIO

APPENDIX D: SITE PHOTOGRAPHS

McINTOSH PERRY

Photo 1: The sea cans (Site Buildings) occupied by the Petrie Island Canoe Club, located at 795 Trim Road, Orleans.

Photo 2: The sea cans (Site Buildings) consisting of boat and paddle storage for the Petrie Island Canoe Club.

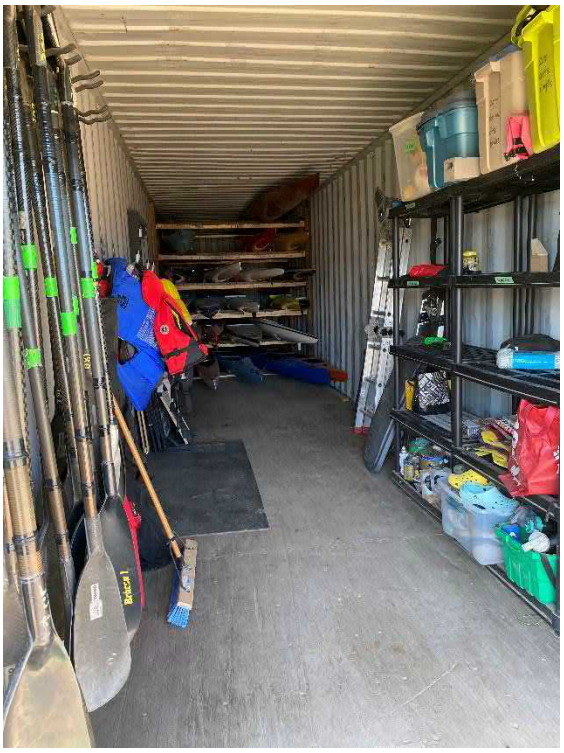


Photo 3: Interior of sea can, located furthest south, closest to the parking area, consisting of boat and paddle storage.

Photo 4: Interior of the middle sea can, consisting of boat storage.

Photo 5: Interior of sea can, located furthest north, consisting of boat and paddle storage.

Photo 6: Stuemer Park and beach area, located to the north of the Site.

Photo 7: Beach area and the Ottawa River, located to the east of the Site.

Photo 8: Gravel parking area, located to the south of the Site.

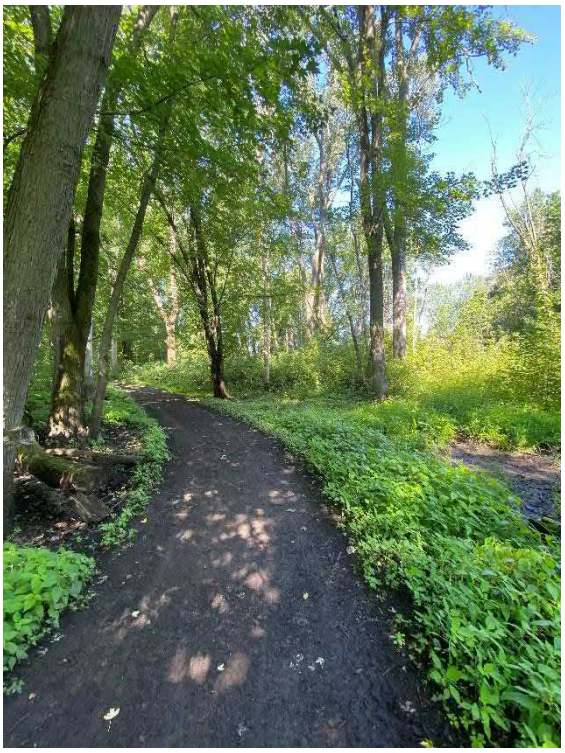


Photo 9: Walking trail located around the perimeter of the historical landfill (Petrie Island Landfill).

Photo 10: Walking trail, followed by parking lots, located to the southwest of the Site.