



February 2015

## REPORT ON

# Phase I Environmental Site Assessment 130 Huntmar Drive Ottawa (Kanata), Ontario

**Submitted to:**

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Urbandale Corporation (on behalf of Urbandale Construction Ltd.)  
2193 Arch Street  
Ottawa, Ontario  
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REPORT



**Report Number: 1406495**

**Distribution:**

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## **Executive Summary**

Golder Associates Ltd. (Golder) was retained by Urbandale Corporation (Urbandale) on behalf of Urbandale Construction Ltd. to conduct a Phase I Environmental Site Assessment (Phase I ESA) at the property located at 130 Huntmar Drive, Ottawa (Kanata), Ontario (the “Site”) to meet the requirements for a Phase I ESA as stipulated in the Ontario Regulation 153/04 (O. Reg. 153/04) as amended. The Site is undeveloped and there are no buildings located on the Site. The total area of the Site is approximately 21 hectares (51.9 acres).

This Phase I ESA was completed in accordance with the Ontario Regulation (O. Reg.) 153/04 (as amended). It is understood that this Phase I ESA is being carried out for Site Plan Approval purposes with the City of Ottawa (the City) and that a Record of Site Condition (RSC) pursuant to *O. Reg. 153/04 – Records of Site Condition – Part XV.1*, made under the *Environmental Protection Act*, will not be filed for the Site.

*The Executive Summary highlights key points from the report only; for complete information and findings, as well as the limitations, the reader should examine the complete report.*

The Phase I ESA was completed in accordance with the requirements of Schedule D of O. Reg.153/04 as amended and included a review of available current and historical information regarding the Site and surrounding properties, a Site reconnaissance, interviews, evaluation of readily available information, and reporting, subject to the limitations outlined in Section 8.0 of this report. The Site is not considered an enhanced investigation property as defined by O. Reg. 153/04.

Based on the information provided by the Site owner and the City of Ottawa geo-map, the legal description of the Site is Concession 1, Part Lot 1, Township of March, Ottawa, Ontario. The Site’s municipal address is 130 Huntmar Drive, Ottawa (Kanata), Ontario.

At the time of the Site visit on September 11, 2014, the Site was undeveloped with no buildings located on the Site. The property was vacant but under agricultural use. Historically, the Site was used for agricultural purposes.

At the time of the Phase I ESA, the neighbouring properties within the Phase One Study Area were used for commercial, agricultural, industrial and residential purposes.

Two off-Site potential contaminating activities (PCAs) were identified for the Study Area, but do not represent APECs for the Site. The gas station northwest of the Site was constructed in 2010 and therefore not considered likely to have contaminated the Site due to its age. And, the Maple Grove public works yard southeast of the Site is down-gradient of the Site, and therefore not expected to have impacted the Site. Based on the information collected as part of this Phase One ESA, no Areas of Potential Environmental Concern (APECs) were identified on the Site.

At the time of preparation of this report, formal response from the City of Ottawa had not been received by Golder. When a formal response is received it will be reviewed by Golder. If, in Golder’s opinion, the responses contain any issues of potential environmental concern with respect to the Site, a copy will be forwarded to Urbandale (with a brief discussion) so that it can be appended to this report.



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## 1.0 INTRODUCTION

### 1.1 Site Information

Golder Associates Ltd. (Golder) was retained by Urbandale Corporation (Urbandale) on behalf of Urbandale Construction Ltd. to conduct a Phase I Environmental Site Assessment (Phase I ESA) at the following property:

<b>Municipal Address</b>	130 Huntmar Drive, Ottawa (Kanata), Ontario
<b>Property Identification Number</b>	045090137
<b>Legal Description</b>	Concession 1, Part Lot 1, Township of Marsh, Ottawa, Ontario

The Site location is provided on Figure 1. A Site plan is provided on Figure 2. A plan of survey for the Site is provided in Appendix A.

For purposes of describing locations in this report, we have identified a Project North, such that Huntmar Drive runs north-south.

Authorization to proceed with this investigation was received from Ms. Mary Jarvis of Urbandale on August 8, 2014. The contact information for the Site owner is:

<b>Site Owner / Client</b>	<b>Address</b>	<b>Contact Information</b>
Urbandale Corporation	2193 Arch Street Ottawa, Ontario K1G 2H5	Ms. Mary Jarvis Office: (613) 731-6331 Email: mjarvis@urbandale.com



## **2.0 SCOPE OF INVESTIGATION**

A Phase One ESA is a preliminary qualitative assessment of the environmental condition of a property, based on a review of current activities and historical information for the Site and a review of relevant and readily available environmental information for the surrounding properties located within a 250 metre (m) radius of the boundary of the Site (collectively referred to as the “Phase One Study Area”). The boundaries of the Phase One Study Area are presented in Figure 2.

According to Ontario Regulation (O. Reg.) 153/04 *Records of Site Condition*, the objectives of a Phase One ESA are to:

- 1) Develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Site;
- 2) Determine the need for a Phase Two Environment Site Assessment (ESA);
- 3) Provide a basis for carrying out a Phase Two ESA, if needed;
- 4) Provide adequate preliminary information about environmental conditions in the land or water on, in or under the Site for the conduct of a risk assessment following completion of a Phase Two ESA, if needed; and,
- 5) Identify and report on evidence of actual and/or potential contamination on the Site from current and historical activities at the Site or from adjacent properties.



### 3.0 HISTORICAL RECORDS REVIEW

#### 3.1 General

##### 3.1.1 Phase One Study Area Determination

For the purpose of this Phase One ESA, the Phase One Study Area is the area within a 250 m radius of the boundaries of the Site. Based on Golder’s review of the historical and current information compiled as part of this Phase One ESA for the area surrounding the Site and observations of neighbouring properties made during the Site visit, it was concluded that an assessment of information pertaining to properties within 250 m of the Site would be sufficient to achieve the objectives of the Phase One ESA.

##### 3.1.2 First Developed Use Determination

The date of first developed use of the Site was determined based on review of the chain of title information and aerial photographs. The Site has been owned by private individuals from 1828 to 2004 and used for agricultural purposes. According to the Owner, the Site has historically been used for agriculture.

Based on the available information, there is no developed use of the Site.

##### 3.1.3 Review of Fire Insurance Maps and Reports

Opta Information Intelligence (Opta) was contacted by Golder and requested to review their records for any information (i.e., fire insurance plans or reports) relating to the Site. Golder was informed by Opta on August 29, 2014 that no records were found pertaining to the Site.

##### 3.1.4 Chain of Title

Chain of title information for the Site was obtained from Wentzell Titles. Previous owners of the Site have included:

<b>Owner</b>	<b>Dates of Ownership</b>
Crown	Prior to July 4, 1828
Joshua Smith	July 1828 to September 1828
John Bradley John Burrows	September 1828 to March 1855
William Bradley	March 1855
George Burrows	March 1855
John Bradley	March 1855
Benjamin Burroughs	March 1874 to January 1893
Thomas James	January 1893 May 1917
Thomas S. James	May 1917 to December 1969
Arthur P.J. Van Goal Mary Van Goal	December 1969 to June 1979
Arthur Van Goal	June 1979 to July 2004
Huntmar Development Corp.	July 2004 to November 2010
Urbandale Construction Limited	Purchased in 2010 (Current Owner)



The current owner (Urbandale Development Corporation.) has owned the Site since November 23, 2010.

### **3.1.5 City Directories**

A review of historical city directories for the years 1964, 1969, 1974, 1979, 1984, 1990, 1995/96, 2000/01, 2005/06 and 2011 was completed by EcoLog ERIS for the Site and surrounding properties (within 250 m) along Huntmar Drive, Maple Grove Drive and Palladium Drive.

Based on Golder's review of the city directory information, the following summarizes the noteworthy findings of the city directory review.

#### **Site**

- The Site was not listed in the city directories.

#### **Surrounding Area**

- The properties searched were not listed in the city directories prior to the 1995/96 search or in the 2000/01 search;
- 173 Huntmar Drive, 180 Huntmar Drive and 210 Huntmar Drive were listed as residential (one tenant) in the directory search from 1995/96;
- 173 Huntmar Drive and 210 Huntmar Drive were listed as residential (one tenant) in the directory search from 2005/06; and,
- 180 Huntmar Drive was listed as *Nautical Lands Group* and 173 Huntmar Drive was listed as residential (1 tenant) in the listing from 2011. Nautical Lands Group constructs retirement residences.

### **3.1.6 Environmental Reports**

Golder was not provided with any previous environmental reports for the Site or neighbouring properties.

## **3.2 Environmental Source Information**

### **3.2.1 EcoLog ERIS Report**

Golder contracted EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS) to conduct a search of environmental sources, including federal, provincial and private sector databases, for information on the Site and Study Area. The EcoLog ERIS report is provided in Appendix C.

The databases searches included the following databases:

Anderson's Waste Disposal Sites; Certificates of Approval; Environmental Registry; TSSA Commercial Fuel Oil Tanks; Coal Gasification Plants; TSSA Fuel Storage Tanks; National Defence & Canadian Forces Fuel Storage Tanks, Spills, and Waste Disposal Sites; National PCB Inventory; National Pollutant Release Inventory; Ontario Inventory of PCB Storage Sites; Ontario Regulation 347 Waste Receivers Summary; Record of Site Condition; Retail Fuel Storage Tanks; Private and Retail Fuel Storage Tanks; Ontario Spills; Anderson's Storage Tanks; Waste Disposal Sites – MOE CA Inventory; Waste Disposal Sites – MOE 1991 Historical Approval Inventory; Water Well Information Systems, Databases; Boreholes; and the Ontario Regulation 347 Waste Generators Summary.



## ***On-Site***

The following record was identified for the Site:

- One water well information record was identified for the Site. The water well record is for domestic water use and was constructed September 30, 1976. It is indicated in the record that the static water level is at a depth of 31.3 metres below ground surface (mbgs) (70 ft.). It is reported that clay is present at a depth of 17.4 mbgs (57 ft.), fine sand at 17.7 mbgs (58 ft.) and limestone at 36.6 mbgs (120 ft.).

## ***Surrounding Properties within 250 m of the Site***

Noteworthy records reported for the Phase One ESA Study Area (excluding the Site) included the following:

- Twenty-two borehole records were identified for the Study Area. Borehole records indicate that there were nineteen boreholes drilled beyond the southeast corner of the Site (property that is currently the City of Ottawa Maple Grove Depot) from 1990 to 2002. The boreholes located in that area indicate that the stratigraphy of the soil is generally topsoil (bottom depth 0.2 – 0.6 m) and silty clay (bottom depth 1.5 – 5.8 m). Some boreholes had a layer of brown silt-sand under the topsoil layer (approximately 0.3 – 0.4 m thick) and others had this layer under the sandy silt. It was noted in the borehole logs that there was trace organics and boulders in some of the boreholes.
- Two borehole records were reported for the area beyond the northwest corner of the Site from 1970 and 1962. The record from 1970 did not include soil stratigraphy, and the record from 1962 indicated that there was a clay layer to a depth of 3.7 mbgs (12.2 ft.), sand to 5.4 mbgs (17.7 ft.), gravel to 5.7 mbgs (18.6 ft.) and limestone bedrock at the bottom depth of 6.4 mbgs (21 ft.).
- A borehole record from 1970, indicating a borehole was drilled at the Site boundary near the unnamed road north of Aquilo Crescent. No stratigraphy was provided for that location.
- It was reported that nine water wells were advanced within the Study Area between 1962 and 2002 for domestic and commercial purposes to a depth ranging between 19.8 and 79.2 mbgs (65 and 260 ft.). Stratigraphy of the wells generally comprised of clay, sand, gravel and limestone. Depth to bedrock and groundwater ranged from 3.65 to 33.5 mbgs (12 to 110 ft.) and 0 to 8.5 mbgs (0 to 28 ft.) respectively.
- Two certificates of approval (C of As) were issued within the Study Area:
  - One C of A was issued to Palladium Corporation, certificate number 7-0960-94, in 1994 for municipal water. The C of A address is listed in the record as Palladium Drive/Cyclone Taylor, Kanata, Ontario, which is located north of the Site; and,
  - One C of A was issued to Ultramar Ltd. (certificate number 8060-888QC8) for industrial sewage works. The address provided is 225 Huntmar Drive, Ottawa, Ontario, which is northwest of the Site. The certificate was issued in 2010.
- One environmental compliance approval (ECA) was issued for the property at 123 Huntmar Drive, Ottawa, Ontario to Mattamy (Fairwinds North) Limited for municipal and private sewage in 2012 (C of A number 7381-8W4R26).



## PHASE I ENVIRONMENTAL SITE ASSESSMENT 130 HUNTMAR DRIVE, OTTAWA (KANATA), ON

- There are multiple records for the Regional Municipality of Ottawa at 1655 Maple Grove Road, Kanata, Ontario, which is the City of Ottawa Maple Grove Road Depot (public works yard):
  - The private and retail fuel storage tanks database indicates that there is one record for a private fuelling facility with the capacity of 50,000 L (Licence No. 0076359371);
  - Three records of fuel storage tanks are reported for three active fuel aboveground storage tanks (ASTs). The ASTs have volumes of 4,682 L and 23,021 L for diesel and 9,176 for other fuels. All tanks were installed in 2005, are constructed from steel and have a reported status of active;
  - Four records identifying TSSA expired facilities are reported. There are two records for FS piping and two records for FS Liquid Fuel Tank identified. All records were reported as being expired;
  - A spill was reported to the MOE on 3/2/2005 after diesel fuel was spilled to Maple Grove Avenue due to a pipe or hose leak. It was reported that there was a possible impact to land;
  - The database of historic fuel storage tanks identified two records indicating that there is a licensed self-service gasoline station at the Maple Grove depot; and,
  - A search of the Ontario Regulation 347 Waste Generators database indicates that there are fourteen waste generator records listed for the depot at 1655 Maple Grove Road. Records are identified for the years 1992 – 2012, and 2014. Waste classes included are: petroleum distillates, waste oils & lubricants, brines (chlor – alkali wastes), inorganic laboratory chemicals, halogenated pesticides, pharmaceuticals, organic laboratory chemicals, non-halogenated pesticides, pathological wastes, light fuels, oil skimmings & sludges, waste compressed gases, paint/pigment/coating residues, aliphatic solvents, wastes containing other reactive anions, detergents and soaps, and transfer station oils wastes.
- Fuel storage tank records were identified for CST Canada Co. at 225 Huntmar Drive, Ottawa, Ontario. The records identified are for gasoline fuel tanks with volumes of 50,000 L, 50,000 L and 35,000 L and a 25,000 L diesel storage tank. All tanks are double walled underground storage tanks (USTs) and were installed in 2010. This is an Ultramar retail fuel station.
- There is a waste generator record for waste crankcase oils & lubricants, waste oils/sludges (petroleum based) for the City of Ottawa Police Services at 211 Huntmar Drive, Kanata, Ontario for 2014.
- The Ontario Regulation 347 Waste Generators Summary indicates that there are three records for SkyWave Mobile Communications and Trillium Photonics Inc. at 750 Palladium Drive, Kanata, Ontario:
  - SkyWave Mobile Communications has records from 2012 and 2014 for acid solutions (containing heavy metals), alkaline solvents (containing heavy metals), aliphatic solvents and residues, miscellaneous waste organic chemicals, miscellaneous waste and inorganic chemicals, waste compressed gases including cylinders, and other specified inorganic sludges, slurries or solids; and,
  - Trillium Photonics Ltd. has records from 2002 to 2004 and no waste classes were provided.



## PHASE I ENVIRONMENTAL SITE ASSESSMENT 130 HUNTMAR DRIVE, OTTAWA (KANATA), ON

- The Ontario Regulation 347 Waste Generators Summary indicates that there are four records for DRS Technologies Canada Ltd. and Dundee Reality Management Group at 700 Palladium Drive, Kanata, Ontario:
  - DRS Technologies Canada Ltd. has records for 2006, 2011 and 2012 for inorganic laboratory chemicals, organic laboratory chemicals, and waste compressed gases. DRS Technologies provides electrical equipment and component manufacturing; and,
  - Dundee Reality Management Corporation has a record of being a waste generator from 2005 and 2006 for the following waste classes: acid waste (heavy metals), paint/pigment/coating residues and graphic art wastes.
- A search of the TSSA historic incidents database indicates that there are three records identified within the Study Area. All records are for natural gas pipeline strikes on construction sites:
  - 162 Harmattan Ave., Stittsville, Ontario (3/3/2008);
  - 138 Harmattan Ave., Kanata, Ontario (11/1/2007); and,
  - 202 Mistral Way, Kanata, Ontario (4/17/2008).
- There was one permit to take water (PTTW) issued to Mattamy (Fairwinds) Limited in 2011 (EBR Registry No. 011-3719) for north of Maple Grove Road and West of Huntmar Drive, Lot 1, Concession 1, Ottawa, Ontario.
- Manufacturing within the Study Area includes:
  - Graphic design services, printing and management consulting services at Brian Strevens Communications, 259 Helm Circle, Stittsville, ON (2005);
  - 750 Palladium Drive lists the following manufacturing services:
    - Vocantas Inc.: telephone apparatus manufacturing, research and development in the physical, engineering and life sciences and other scientific and technical consulting services (established 2003);
    - Spirent Communications (two records for this company): research and development in the physical, engineering and life sciences (established 1973);
    - Rohde & Schwartz Canada Inc.: professional machinery, equipment and supplies wholesaler-distributors, electronic components, navigational and communications equipment and supplies wholesaler-distributor (established 1970);
    - Trigence Corp.: software publishers (established 2002); and,
    - AppZero Corp.: software publishers (established 2002).

Based on review of the EcoLog ERIS report, no potentially contaminating activities (PCAs) or areas of potential environmental concern (APECs) were identified on-Site. Two off-Site potential contaminating activities (PCAs) were identified for the Study Area, but do not represent APECs for the Site. The gas station northwest of the Site was constructed in 2010 and therefore not considered likely to have contaminated the Site due to its age.





And, the Maple Grove public works yard southeast of the Site is down-gradient of the Site, and therefore not expected to have impacted the Site. Groundwater flow in the Study Area is expected to be southeast towards Poole Creek, which flows to the Carp River.

### **3.2.2 Ministry of the Environment**

The local district office of the Ministry of the Environment and Climate Change (MOE) was contacted to determine if the MOE has maintained a file with respect to the Site. Specifically, the MOE was asked to respond in writing to the following questions:

- Has the MOE ever issued any approvals, permits or licences for the Site?
- Has the MOE ever issued any control orders or violation notices with respect to the Site?

A response was received from Johanne Veilleux from the MOE Ottawa District Office on August 27, 2014. The MOE indicated that there are no active orders outstanding, nor have there been any approvals issued for the Site.

### **3.2.3 City of Ottawa Correspondence**

A request was submitted to the City of Ottawa (refer to copy of correspondence in Appendix B), to conduct a search within their Historical Land Use Inventory (HLUI) and environmental (i.e., violations, sewer-use infractions, spills or leaks, waste disposal sites, etc.) databases for information concerning the Site and surrounding area. The request was submitted on August 20, 2014. The HLUI database contains information about the land uses within the City of Ottawa.

At the time of the preparation of this report, a response has not been received from the City of Ottawa. When a response is received, it will be reviewed and appended to this report with a discussion of the results if it is expected to change the recommendation(s) provided in Section 7.0.

### **3.2.4 City of Ottawa Documents Review**

Prior to the 2001 amalgamation, the City did not have a consolidated database of environmental concerns for City properties and typically referred all inquiries to the *1988 Mapping and Assessment of Former Industrial Sites, City of Ottawa, Intera Technologies Ltd.* (hereafter known as the “1988 Intera Report”). This report describes an inventory and assessment study of former industrial sites that were active in the former (prior to the 2001 amalgamation) City of Ottawa from 1850 to 1984 that likely produced or handled hazardous wastes and materials. The sites were subsequently screened to identify higher priority sites which were subdivided into Group I, Group II and Group III sites. The Site is not located within the boundaries of the former City of Ottawa, and thus is not included in the 1988 Intera Report.

The review of the *2004 City of Ottawa Waste Disposal Sites Inventory* as described in the report entitled “*Old Landfill Management Strategy, Phase 1-Identification of Sites, City of Ottawa, Ontario*”, completed by Golder for the City of Ottawa, dated October 2004 indicated that the Site is not registered as an active or closed waste disposal site, and no active or closed waste disposal sites are located within 500 m. It is considered that the presence of former active or closed waste disposal sites outside 500 m of the Site is not an issue of potential environmental concern for the Site.





### **3.2.5 Ministry of Natural Resources**

An information request was sent to the MNR on August 20, 2014. Records requested included any information relating to areas of natural significance in the vicinity of the Site, as well as any other environmental concerns that may be related to the Site and surrounding area.

The MNR responded on September 5, 2014 via email (refer to copy of correspondence in Appendix B) and indicated that there is a potential for presence of two Species at Risk (SAR), including:

- Blanding's Turtle (Threatened)
- Butternut (Endangered)

The two SAR are also listed as receiving general habitat protection.

Additionally, two Special Concern Species have been documented to occur either on the site or nearby:

- Milksnake (Special Concern)
- Snapping Turtle (Special Concern)

A review of the habitats on Site, including well-maintained industrial buildings and associated parking areas, indicates a low likelihood that any of these species may be present at the Site. In the event that any SARs are identified during Site works, all work should cease immediately and the MNR should be contacted to obtain guidance on next-steps.

The MNR did not identify any other significant natural features within the vicinity of the Phase I study area.

### **3.2.6 Technical Standards and Safety Authority, Fuel Safety Division Records**

The Technical Standards and Safety Authority (TSSA) maintains records related to registered underground storage tanks (USTs) for petroleum-related products. The TSSA was contacted to establish the status of the Site and to identify outstanding instructions, incident reports, fuel oil spills or contamination records. On September 19, 2014 TSSA reported via e-mail that there were no records on file pertaining to the Site. On September 18, 2014, TSSA reported via e-mail that there were records on file pertaining to the Study Area. There were four active USTs and an active cylinder exchange facility located at 225 Huntmar Drive (the gas station) and three active aboveground storage tanks (ASTs) at 1655 Maple Grove Road (the City of Ottawa Maple Grove Depot).

## **3.3 Physical Setting Sources**

### **3.3.1 Aerial Photographs**

Aerial photographs of the Site and neighbouring properties obtained from EcoLog ERIS for the years 1947, 1955, 1968, 1978, 1985 and 1999, as well as a Bing image for 2013, were reviewed by Golder. The information obtained from the aerial photographs was limited by the quality and scale of the available aerial photographs. The earliest aerial photograph available was from 1947.

Information obtained from the review of the aerial photographs is summarized in the table below. Copies of the aerial photographs are presented in Appendix D.



**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
130 HUNTMAR DRIVE, OTTAWA (KANATA), ON**

Year	Site	Surrounding Area
1947 (1:20,000)	The Site is comprised of agricultural facilities and fields. There are barns visible on the Site, east of 180 Huntmar Drive.	<b>North:</b> Agricultural fields and a farm. <b>East:</b> Agricultural fields and the Carp River. <b>South:</b> Agricultural fields and Poole Creek. <b>West:</b> Agricultural fields and a farm.
1955 (1:35,000)	As per the 1947 aerial photograph.	As per the 1947 aerial photograph.
1968 (1:15,000)	A small structure is visible east of the barns.	<b>North:</b> The layout of the property north of the Site has changed. There appears to now be a shorter driveway and the original structures are gone. <b>Other:</b> As per the 1955 aerial photograph.
1978 (1:15,000)	The agricultural buildings east of 180 Huntmar Drive are not clear. There appears to be a disturbance in the agricultural field where the structures were located.	<b>East:</b> A property has been developed east of the site, north of Maple Grove Road. <b>Other:</b> As per the 1968 aerial photograph.
1985 (1:40,000)	The structure east of the former barns is no longer located on the Site. The Site is a field.	<b>North:</b> Highway 417 is visible beyond the Study Area. <b>Other:</b> As per the 1978 aerial photograph.
1999 (1:20,000)	As per the 1985 aerial photograph.	<b>North:</b> Cyclone Taylor Boulevard, Palladium Drive, and Frank Finnigan Way have been constructed. The outline of the Canadian Tire Centre is visible. Parking lots for the Canadian Tire Centre are located along part of the northern Site boundary and north of the other agricultural property at 210 Huntmar Drive. <b>East:</b> The City of Ottawa Maple Grove Depot has been constructed at part of the eastern Site boundary. <b>Other:</b> As per the 1985 aerial photograph.
2013 (Bing Image)	As per the 1999 aerial photograph.	<b>North:</b> There are multiple small structures or industrial equipment located at 210 Huntmar Drive along the northern Site boundary. <b>East:</b> Commercial/industrial development east of the Study Area. <b>South:</b> A storm water pond is visible. Significant residential development has been constructed south of Maple Grove Road. <b>West:</b> Residential development has been constructed, and more properties are being developed. There is a new police station built northwest of the Site, and a gas station is at the intersection of Palladium Drive and Huntmar Drive and many car dealerships to the northwest of the police station, just outside of the study area.



**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
130 HUNTMAR DRIVE, OTTAWA (KANATA), ON**

Based on the aerial photographs, the Site appears to have included agricultural fields since at least 1947. The surrounding properties primarily included agricultural fields and associated structures. Significant developed was noted off-Site, within the Study Area between 1985 and 2013, with the development along Palladium Drive and residential development east and south of the Site. There was no indication that the fill was imported to the Site.

**3.3.2 Topography, Hydrology and Geology**

The following records were reviewed to identify topographic, geologic and hydrogeological conditions at the Site. A topographic map (Ontario Base Map) showing the Site area and the location of any water bodies is provided in Appendix C. Additional information on Site features, as observed at the time of the Site visit, is provided in Section 6.

<b>Topic</b>	<b>Conditions</b>	<b>Comment / Source</b>
<b>Topography of Site and Surrounding Area</b>	The topography of the Site and surrounding areas was generally flat.	Site and surrounding area observations
<b>Overburden Soils</b>	Clay, silty clay and silt, commonly calcareous and fossiliferous; overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform and blue-gray.	Map 1506A, <i>Surficial Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001.
<b>Type of Bedrock</b>	Ottawa Formation: dark grey, almost black, limestone.	Map 1508A. <i>Generalized Bedrock Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001.
<b>Depth to Bedrock</b>	Well record indicates that there is limestone present at a depth of 36.6 m (120 ft.).	EcoLog ERIS Report
<b>Inferred Near Surface Groundwater Flow</b>	Local groundwater is anticipated to flow in a southeasterly direction, towards Poole Creek.	Site and surrounding area observations, Topographic Map
<b>Site Grade Relative to the Adjoining Properties</b>	The Site's topography is at grade with respect to properties located adjacent to the Site.	Site observations
<b>Depth to Groundwater</b>	Depth to groundwater is approximately 31.3 mbgs (70 ft.).	EcoLog ERIS Report, water well records.



### 3.3.3 Fill Materials

Topic	Conditions	Comment / Source
Fill Materials	No fill materials were observed or reported.	Site observations

### 3.3.4 Water Bodies and Areas of Natural Significance

Topic	Conditions	Comment / Source
Nearest Open Water Body	Poole Creek is approximately 160 m southeast of the Site.	Topographic Map
Areas of Natural Significance (ANSI)	None identified within the Phase One Study Area.	Ministry of Natural Resources

### 3.3.5 Well Records

Topic	Conditions	Comment / Source
Water Wells on Site (location, stratigraphy of the overburden, from ground surface to bedrock, depth to water table, drilling date, use)	One water well information record was identified for the Site. The water well record is for domestic water use and was constructed September 30, 1976. It is indicated in the record that the static water level is at 31.3 mbgs (70 ft.). It is reported that clay is present at 17.4 mbgs (57 ft.), fine sand at 17.7 mbgs (58 ft.) and limestone at 36.6 mbgs (120 ft.).	EcoLog ERIS Report, water well records
Water Wells on the Neighbouring Properties (location, stratigraphy of the overburden, from ground surface to bedrock, depth to bedrock, depth to water table, drilling rate, use)	It was reported in the EcoLog ERIS report that nine water wells were advanced in the Study Area in between 1962 and 2002 for domestic and commercial purposes to a depth of between 19.8 and 79.2 mbgs (65 and 260 ft.). Stratigraphy of the wells generally comprised of clay, sand, gravel and limestone. Depth to bedrock and groundwater ranged from 3.65 to 33.5 mbgs (12 to 110 ft.) and 0 to 8.5 mbgs (0 to 28 ft.) respectively.	EcoLog ERIS Report

## 3.4 Site Operating Records

At the time of the Site visit, the Site was undeveloped. No Site operating records were provided to Golder for review.



## **4.0 INTERVIEWS**

Golder was unaccompanied at the time of the Site visit. Ms. Mary Jarvis (hereinafter referred to as the “Site representative”) responded to a detailed environmental questionnaire on August 25, 2014. Pursuant to the requirements O. Reg. 153/04, the Site representative was interviewed as the “current owner” with knowledge of current Site operations.

Relevant information obtained by interviews is provided in the Section 6.0.



## 5.0 SITE RECONNAISSANCE

### 5.1 General Requirements

Ms. Jillian Lackey (Environmental Consultant) with Golder visited the Site for one and a half hours on September 11, 2014 at 11:00 am. The Site visit consisted of a walk-around the Site along with a cursory inspection of surrounding properties from the Site and publicly accessible areas. The weather conditions were sunny and the temperature was approximately 20°C. The Site was undeveloped and used for agriculture (crop production) at the time of the Site visit.

Photographs of relevant features noted during the Site visit are provided in Appendix E.

### 5.2 Specific Observations at Site

The specific observations made during the Site visit are presented in the following sections.

Topic	Observations	Source
<b><u>Structures</u> Number and Age of Buildings on the Site</b>	No buildings or structures were present at the Site.	Site observations
<b>General Descriptions of Each Building (including improvements)</b>	No buildings or structures were present at the Site.	Site observations
<b>Building Areas</b>	No buildings or structures were present at the Site.	Site observations
<b>Number of Floors (include all levels, whether above or below ground)</b>	No buildings or structures were present at the Site.	Site observations
<b>Number, Age, and Depth of Levels Below Ground Level</b>	No buildings or structures were present at the Site.	Site observations
<b>Number and Details of all Aboveground Storage Tanks (ASTs)</b>	No ASTs were observed or reported on the Site.	Site observations and Site Representative
<b>Number and Details of all Underground Storage Tanks (USTs)</b>	No USTs were observed or reported on the Site.	EcoLog ERIS report and Site Representative
<b><u>Underground Utilities</u> Potable and Non-Potable Water Sources</b>	No active water source is reportedly available at the Site.	Site Representative



**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
130 HUNTMAR DRIVE, OTTAWA (KANATA), ON**

<b>Topic</b>	<b>Observations</b>	<b>Source</b>
<b>Utility Lines Present (i.e., Electrical, Natural Gas, other)</b>	No utility drawings are available for the Site. Given Golder's understanding of the Site, the absence of these layout drawings does not represent a significant limitation to the Phase One ESA.	Site Representative
<b>Sanitary/Process Wastewater Receptor</b>	No sanitary or process wastewater is generated on-Site.	Site observations
<b>Sanitary Sewer Connection</b>	No sanitary sewer connection is available at the Site.	Site observations, Site representative
<b>Septic Systems</b>	None identified.	Site observations, Site representative
<b>Storm Water Flow</b>	Infiltration on the Site. The Site has drainage ditches along the southern boundary along Maple Grove Road and the western boundary along Huntmar Drive.	Site observations
<b>Storm Sewer Connection</b>	No storm sewer connection is available at the Site.	Site observations, Site representative
<b><u>Interior of Structures</u> Entry and Exit Points for Site Buildings</b>	No buildings or structures were present at the Site.	Site observations
<b>Existing and Former Heating System(s) (include fuel type / source)</b>	As no buildings or structures were present at the Site there were no existing heating systems observed or reported.	Site observations, Site representative
<b>Existing and Former Cooling System(s) (include fuel type / source)</b>	As no buildings or structures were present at the Site there were no existing cooling systems observed or reported.	Site observations, Site representative
<b>Drains, Pits, and Sumps (include current use, if any, and former use)</b>	As no buildings or structures were present at the Site there were no drains, pits, or sumps observed or reported.	Site observations, Site representative
<b>Unidentified Substances</b>	None identified.	Site observations
<b>Floor Stains or Corrosion Located near a Potential Discharge Location</b>	None identified.	Site observations
<b><u>Miscellaneous Exterior</u> Location of any Current and Former Wells</b>	None identified. A well record was identified in the EcoLog ERIS report, but it was not located during the Site Reconnaissance.	Site observations, EcoLog ERIS Report



**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
130 HUNTMAR DRIVE, OTTAWA (KANATA), ON**

<b>Topic</b>	<b>Observations</b>	<b>Source</b>
<b>Ground Cover (i.e., grass, gravel, soil, or pavement, etc.)</b>	The Site is an agricultural field, planted with Soy Beans at the time of the Site visit.	Site observations
<b>Current or Former Railway Lines or Spurs</b>	None observed or reported.	Site observations and aerial photographs
<b>Presence of Stained Soil, Vegetation, or Pavement</b>	None observed. Significant vegetation. The Site was planted with Soy Beans at the time of the Site visit. Additional vegetation was present along the Site boundaries (trees, bushes, vines, etc.).	Site observations
<b>Presence of Stressed Vegetation</b>	None observed. All vegetation appeared to be growing.	Site observations
<b>Areas Where Fill and/or Debris Materials Appear to Have Been Placed</b>	None identified.	Site observations
<b>Potentially Contaminating Activity</b>	None identified.	Site observations
<b>Unidentified Substances</b>	None identified.	Site observations

**5.2.1 Enhanced Investigation Property**

The Site is not considered to be an enhanced investigation property; however the investigation was conducted in a manner consistent with the requirements for enhanced investigation properties as described in subsection 13(3) of O. Reg. 153/04. Relevant information is reported in the following table:

<b>Topic</b>	<b>Observations</b>	<b>Source</b>
<b>Operations at the property, including processing or manufacturing</b>	The Site is used solely for agriculture. No processing or manufacturing processes were observed or reported.	Site observations, Site Representative
<b>Hazardous materials used or stored at the Site</b>	None observed or reported.	Site observations
<b>Products manufactured at the Site</b>	None observed or reported.	Site observations
<b>By-products and wastes at the Site</b>	None observed or reported.	Site observations





**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
130 HUNTMAR DRIVE, OTTAWA (KANATA), ON**

<b>Topic</b>	<b>Observations</b>	<b>Source</b>
<b>Raw materials handling and storage locations at the Site</b>	None observed or reported.	Site observations
<b>Location and contents of drums, totes and bins at the Site</b>	None observed or reported.	Site observations
<b>The location, installation date, source of incoming liquid and effluent discharge location for all oil-water separators</b>	None observed or reported.	Site observations
<b>All vehicle and equipment maintenance areas, including the locations of maintenance, fluid storage, and waste storage areas</b>	None observed or reported.	Site observations
<b>Details of all spills including the dates, locations, materials involved, and volumes of material spilled</b>	None observed or reported.	Site observations
<b>Details of liquid discharge points such as water and French drains, including their locations</b>	None observed or reported.	Site observations
<b>Details of all hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks</b>	None observed or reported.	Site observations



### **5.3 Surrounding Land Use**

During the Site visit, a visual reconnaissance of the outdoor operations in the Phase One Study Area was carried out from the Site and publicly accessible areas.

The surrounding properties include residential, commercial, industrial and agricultural land uses, as illustrated on Figure 2.

**North:** The area north of the Site was developed and included the parking area for the Canadian Tire Centre, and a residence that had construction equipment and supplies stored in a lot behind the house.

**East:** Agricultural/vacant lands and the City of Ottawa Maple Grove Depot are located east of the Site. The Maple Grove Depot has parking areas for road maintenance equipment storage, ASTs and equipment repair garages located on the property.

**South:** Residential properties and a storm water management pond are located south of the Site, on the south side of Maple Grove Road. The Maple Grove municipal pumping station is also located south of the Site.

**West:** A residence is located east of the Site and the Site wraps around three sides of the residential property. Agricultural fields and a newer residential development are located west of Huntmar Drive.

### **5.4 Written Description of Investigation**

At the time of the Site reconnaissance, conducted on September 11, 2014, the Site consisted of approximately 21 hectares (51.9 acres) of undeveloped land. No buildings or structures were observed on the Site. The surrounding properties within the Phase One Study Area included residential, commercial, industrial and agricultural land uses.

There were no findings from the Site and area reconnaissance that indicate a PCA on-Site. No additional information was obtained relevant to APECs on-Site.



## 6.0 REVIEW AND EVALUATION OF INFORMATION

### 6.1 Current and Past Uses of the Site

The following summarizes the current and past uses of the Site:

Year(s)	Name of Owner(s)	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Prior to July 4, 1828	Crown	Undeveloped	Agricultural or other use	No aerial photograph coverage available prior to 1947.
July 1828 to September 1828	Joshua Smith	Undeveloped	Agricultural or other use	No aerial photograph coverage available prior to 1947.
September 1828 to March 1855	John Bradley John Burrows	Undeveloped	Agricultural or other use	No aerial photograph coverage available prior to 1947.
March 1855	William Bradley	Undeveloped	Agricultural or other use	No aerial photograph coverage available prior to 1947.
March 1855	George Burrows	Undeveloped	Agricultural or other use	No aerial photograph coverage available prior to 1947.
March 1855	John Bradley	Undeveloped	Agricultural or other use	No aerial photograph coverage available prior to 1947.
March 1874 to January 1893	Benjamin Burroughs	Undeveloped	Agricultural or other use	No aerial photograph coverage available prior to 1947.
January 1893 May 1917	Thomas James	Undeveloped	Agricultural or other use	No aerial photograph coverage available prior to 1947.
May 1917 to December 1969	Thomas S. James	Undeveloped	Agricultural or other use	Aerial images from 1947, 1955, and 1968 show the Site and Study Area as agricultural land.
December 1969 to June 1979	Arthur P.J. Van Goal Mary Van Goal	Undeveloped	Agricultural or other use	The aerial image from 1978 shows the Site and Study Area as agricultural land. Construction on Highway 417 is visible north of the Study Area.
June 1979 to July 2004	Arthur Van Goal	Undeveloped	Agricultural or other use	The aerial images from 1985 shows the Site and Study Area as agricultural land. The Aerial image from 1999 shows construction on Palladium drive, north of the Study Area. The Maple Grove Depot has been constructed east of the Site, within the Study Area.



**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
130 HUNTMAR DRIVE, OTTAWA (KANATA), ON**

Year(s)	Name of Owner(s)	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
July 2004 to November 2010	Huntmar Development Corp.	Undeveloped	Agricultural or other use	No aerial image available for the time period.
Purchased in 2010 (Current Owner)	Urbandale Construction Limited	Undeveloped	Agricultural or other use	The aerial image from 2013 shows that the Study Area has been built up with significant residential development to the south and west of the Site. North of the Site has been developed with commercial properties, including the Canadian Tire Centre (stadium), parking areas, a gas station, and car dealerships.

The Site has remained undeveloped and utilized for agricultural purposes since prior to 1947 up to the present. No buildings or structures were noted on the Site. There are no indications that the Site had any industrial use or any of the following commercial uses: vehicle garage, bulk liquid dispensing facility, or dry cleaning facility.

## 6.2 Potentially Contaminating Activity

Potentially contaminating activities, which if currently or historically carried out at a site, may contribute to an area of potential environmental concern (APEC). Based on the information obtained as part of this Phase One ESA, the following PCAs were identified:

Location	Potentially Contaminating Activity	Information Source	Rationale for Potential Contribution of the PCA to an APEC
Phase One Study Area (outside of Site)	<b>#28: Gasoline and Associated Products Stored in Fixed Tanks</b> – A gas station with USTs is located approximately 180 m northwest (up-gradient) of the Site (225 Huntmar Drive).	EcoLog ERIS report, aerial photographs, and Site observations.	The gas station was constructed in 2010 there are no spill reports for it, and due to its age, it is unlikely to influence groundwater quality on Site.
	<b>#52: Storage, Maintenance, Fuelling and Repair of Equipment, Vehicles, and Material Used to Maintain Transportation Systems</b> – The City of Ottawa Maple Grove Depot (approximately 10 m east of the Site).	EcoLog ERIS report, aerial photographs, and Site observations.	This PCA is downstream of the Site and therefore unlikely to influence soil or groundwater on Site.

## 6.3 Areas of Potential Environmental Concern

Based on the information obtained as part of this Phase One ESA, no APECs were identified on the Site.



## **6.4 Conceptual Site Model**

The following key Site features (as required by O. Reg. 153/04) are presented in Figures 1 and 2:

- Existing buildings and structures;
- Water bodies and areas of natural significance located in the Phase One Study Area;
- Drinking water wells on the Site;
- Roads (including names) within the Phase One Study Area;
- Uses of properties adjacent to the Site; and,
- Location of identified PCAs in the Phase One Study Area (including any storage tanks).

The following describes the Phase One ESA conceptual site model for the Site based on the information obtained and reviewed as part of this Phase One ESA:

- The Site is approximately 21 hectares (51.9 acres) in area and no buildings were present;
- No water bodies or areas of natural significance were identified on the Site. Poole Creek crosses the southeast corner of the Study Area and it is expected that groundwater flows to Poole Creek, which flows to the Carp River;
- One water well information record was identified for the Site. The water well record is for domestic water use and was constructed September 30, 1976. No other sources of potable water are located on-Site. This well was not located during the Site Reconnaissance;
- At the time of the Phase One ESA, the Site was undeveloped and utilized for agricultural purposes. Historically, the Site has been used for agricultural purposes since at least 1947 (aerial images). There is no indications that the Site had any industrial use or any of the following commercial uses: vehicle garage, bulk liquid dispensing facility, or dry cleaning facility;
- At the time of the Phase One ESA, the neighbouring properties within the Study Area consisted of residential, commercial, industrial and agricultural land uses. There is evidence that neighbouring properties in the Study Area are, or have been, used for an industrial use, specifically a vehicle garage and bulk liquid dispensing facility;
- No PCAs were identified on the Site;
- No underground utilities are known to be present at the Site;
- Soil at the Site consists primarily of clay, silty clay and silt, commonly calcareous and fossiliferous; overlain by thin sands; and,
- Local and regional groundwater is anticipated to flow in a southeast to east direction towards Poole Creek (located approximately 150 m southeast of the Site).

### **6.4.1 Uncertainty and Absence of Information**

Responses to Golder's requests for information from the City of Ottawa were not available at the time issue of this report.

There were no material deviations to the Phase One ESA requirements set out in O. Reg. 153/04 that would cause uncertainty or absence of information that would affect the validity of the Phase One Conceptual Site Model or the findings of this Phase One ESA.



## **7.0 CONCLUSIONS**

### **7.1 Need for a Phase II ESA**

Based on the information obtained and reviewed as part of this Phase One ESA, no APECs were identified in association with the Site. Accordingly, a Phase II ESA is not required to support the submission of a RSC for the Site.

### **7.2 Record of Site Condition Based on Phase One Environmental Site Assessment Alone**

As indicated above, no APECs were identified in association with the Site. There is evidence that the neighbouring properties in the Study Area were, or are, used for an industrial use, specifically: a vehicle garage and a bulk liquid dispensing facility, but it is not anticipated that these activities will have an impact on the soil or groundwater at the Site for the reasons cited in Section 6.2.



## 8.0 REFERENCES

The following documents and/or data were cited in this report:

Source	Date
Ontario Regulation 153/04 as amended	October 31, 2011
Canadian Standards Association Document Z768-01 'Phase One – Environmental Site Assessments'	November 2001
Map 1506A, <i>Surficial Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001.	2001
Map 1508A, <i>Generalized Bedrock Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001	2001
<i>Golder Associates Ltd. GIS Database</i> (Reference - Digital Basemap Data supplied by DMTI Spatial Inc., Canmap, 2006).	2006
Aerial Photographs – obtained from EcoLog Eris	1947, 1955, 1968, 1978, 1985, 1999
Bing Images	2013
Fire Insurance Plan, Property Underwriters' Plans and Reports, obtained by Opta on behalf of Golder.	FIP – none PURs – none PUPs – none
City Directories, obtained by EcoLog ERIS	1964, 1969, 1974, 1979, 1984, 1990, 1995/96, 2000/01, 2005/06 and 2011
EcoLog ERIS report	August 26, 2014
Ontario Ministry of the Environment Information request	August 27, 2014
City of Ottawa	August, 2013
Ministry of Natural Resources	September 5, 2014
Technical Standards and Safety Authority	September 17, 2014 September 19, 2014



## **9.0 LIMITATIONS AND USE OF REPORT**

This report (the "Report") was prepared for the exclusive use of Urbandale Corporation (Urbandale) on behalf of Urbandale Construction for the express purpose of providing advice with respect to the environmental condition of the Site. In evaluating the Site, Golder Associates Ltd. (Golder) has relied in good faith on information provided by others as noted in the Report. We have assumed that the information provided is factual and accurate. We accept no responsibility for any deficiency, misstatement or inaccuracy contained in this Report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted, or incomplete or inaccurate historical information from the various agencies. Any use which a third party makes of this Report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third party. If a third party requires reliance on this Report, prior written authorization from Golder is required. Golder disclaims any responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

The scope and the period of Golder's assessment are described in this Report, and are subject to restrictions, assumptions and limitations. Except as noted herein, the work was conducted in accordance with the scope of work and terms and conditions of Golder's proposal. Golder did not perform a complete assessment of all possible conditions or circumstances that may exist at the Site referenced in the Report. Conditions may therefore exist which were not detected given the limited nature of the assessment. Golder was retained to undertake with respect to the Site and additional environmental studies and actions may be required. In addition, it is recognized that the passage of time affects the information provided in the Report. Golder's opinions are based upon information that existed at the time of the writing of the Report. It is understood that the services provided for in the scope of work allowed Golder to form no more than an opinion of the actual conditions at the Site at the time the Site was visited, and cannot be used to assess the effect of any subsequent changes in any laws, regulations, the environmental quality of the Site or its surroundings. Asbestos and mould surveys were not performed. If a service is not expressly indicated, do not assume it has been provided.

The results of an assessment of this nature should in no way be construed as a warranty that the Site is free from any and all contamination from past or current practices.





## **10.0 STATEMENT OF COMPLETION**

The undersigned confirm that this Phase One Environmental Site Assessment was conducted in a manner consistent with the expected standard of care for the consulting industry in Ontario and meets the requirements for Phase One ESAs as set out in O. Reg. 153/04.



## **11.0 QUALIFICATIONS OF THE ASSESSORS**

### ***Jillian Lackey, M.A.Sc., E.I.T., Junior Environmental Consultant***

Jillian Lackey is a Junior Environmental Consultant with Golder Associates in Ottawa. She has a Bachelor degree in Civil Engineering (environmental stream) and a Master's degree in Civil Engineering (environmental focus). She is responsible for conducting numerous environmental site assessment Phase I's in accordance with the federal and provincial requirements (Reg. 153/04) including conducting contaminated site investigations, interviews, site visits, obtaining and reviewing historical and regulatory records, report writing, project management and proposal preparation.

### ***Don Plenderleith, M.Sc., P. Eng., PMP, Principal – Senior Reviewer***

Mr. Don Plenderleith is an Environmental Engineer, Principal and senior project manager at Golder, with 24 years of experience in conducting Environmental Site Assessment and remediation of contaminated sites. His site experience includes: Phase I and II ESAs and site remediation projects at commercial and industrial properties, military bases, abandoned mine sites, railway yards, navigational sites, correctional facilities and research labs. Mr. Plenderleith is fully familiar with the CSA Standard Z768-01 Phase I ESAs and the Ontario Regulation 153/04, as amended requirements for Phase I ESAs. He is a Qualified Professional as defined under Ontario Environmental Regulation.



## **12.0 CLOSURE**

We trust that the information presented in this report meets your current requirements. Should you have any questions or concerns, please do not hesitate to contact the undersigned.

### **GOLDER ASSOCIATES LTD.**

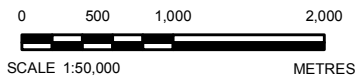
Jillian Lackey, M.A.Sc., E.I.T.  
Junior Environmental Consultant

Don Plenderleith, M.Sc., P.Eng., P.M.P.  
Principal/Senior Project Manager

JL/DP/BGS/md/hw

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CLIENT  
**URBANDALE CONSTRUCTION LTD.**

PROJECT  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

TITLE  
**KEY PLAN**

CONSULTANT	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP



**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

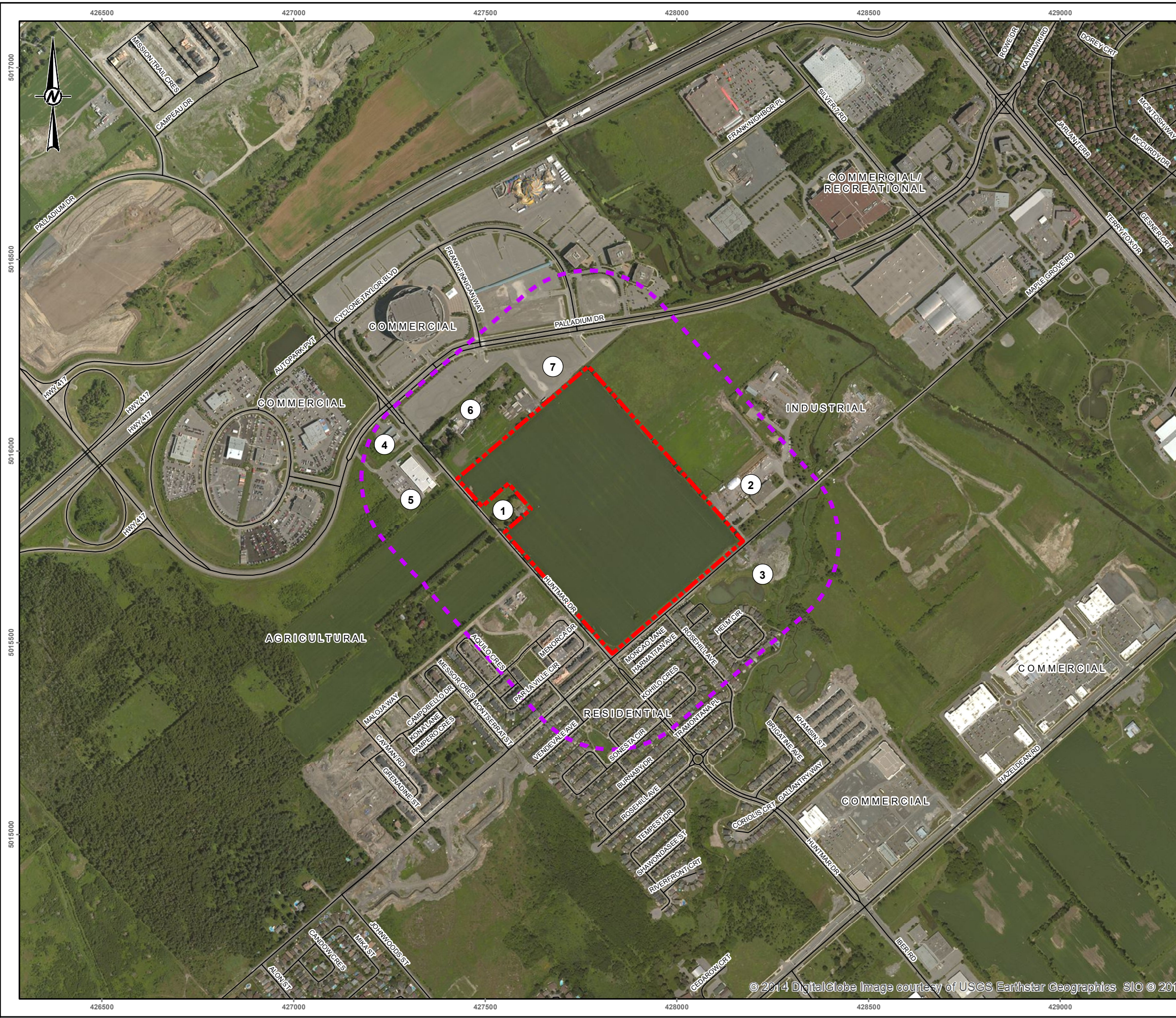
**REFERENCE**  
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 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

PROJECT	PHASE	Rev.	FIGURE
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**LEGEND**

- ROADWAY
- PHASE I ESA STUDY AREA
- SITE BOUNDARY

**KEY**

1. AST ON RESIDENTIAL PROPERTY AT 180 HUNTMAR DRIVE
2. CITY OF OTTAWA MAPLE GROVE DEPOT
3. STORMWATER POND
4. GAS STATION WITH USTS
5. OTTAWA POLICE SERVICE
6. RESIDENTIAL BUILDING WITH CONSTRUCTION EQUIPMENT STORED AT REAR
7. CANADIAN TIRE CENTRE PARKING LOT

**NOTES**

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**

LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28



CLIENT  
 URBANDALE CONSTRUCTION LTD.

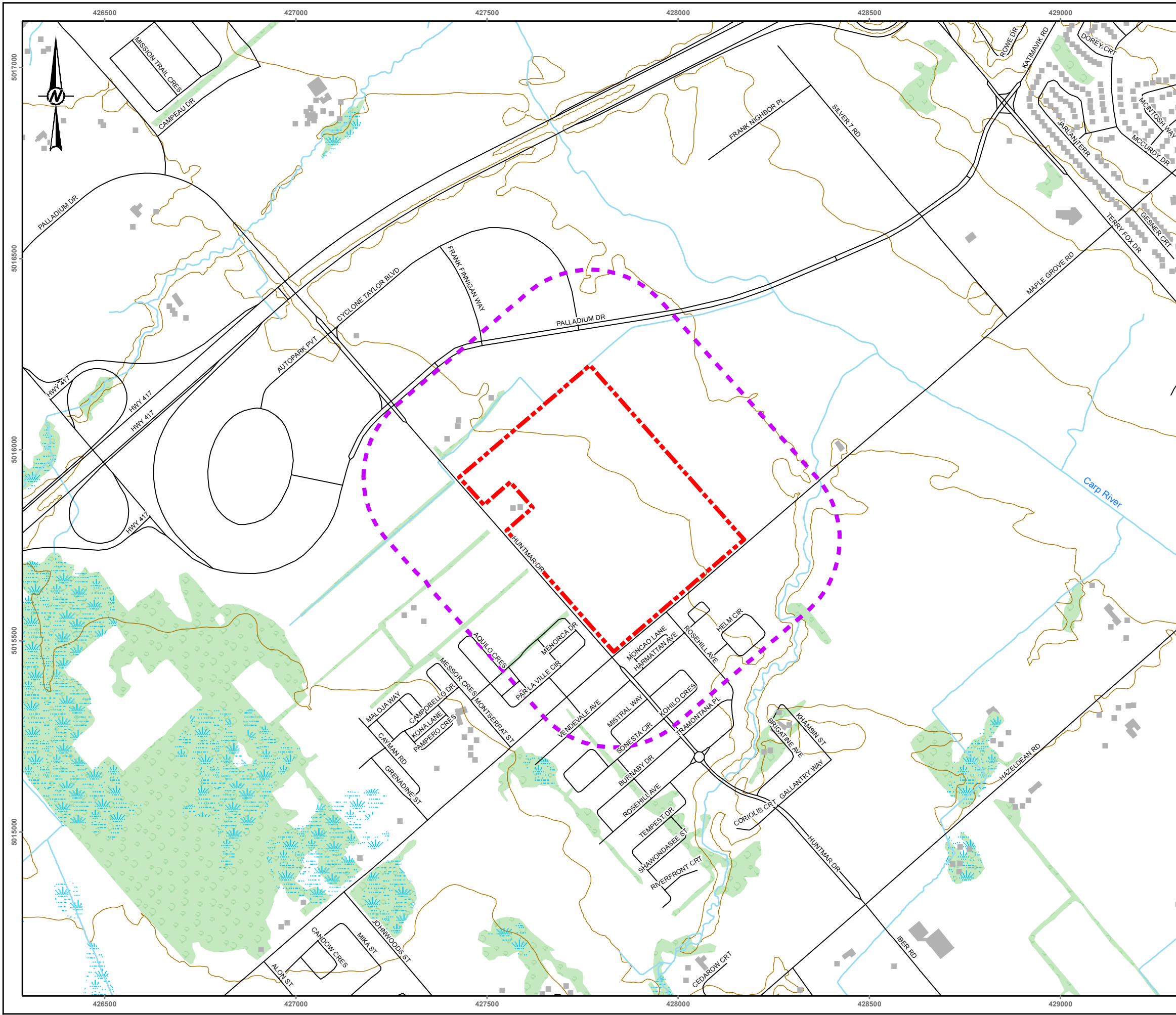
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 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO

**TITLE**  
 SITE PLAN

CONSULTANT	YYYY-MM-DD	2014-08-21
PREPARED	JEM	
DESIGN	JL	
REVIEW	BGS	
APPROVED	DHP	

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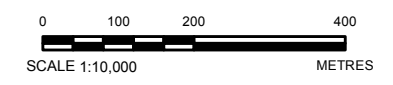




- LEGEND**
- BUILDING POINT
  - ROADWAY
  - WATERCOURSE
  - TOPOGRAPHIC CONTOUR, metres
  - WETLAND
  - WOODED AREA
  - BUILDING FOOTPRINT
  - PHASE I ESA STUDY AREA
  - SITE BOUNDARY

**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER  
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 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28



**CLIENT**  
 URBANDALE CONSTRUCTION LTD.

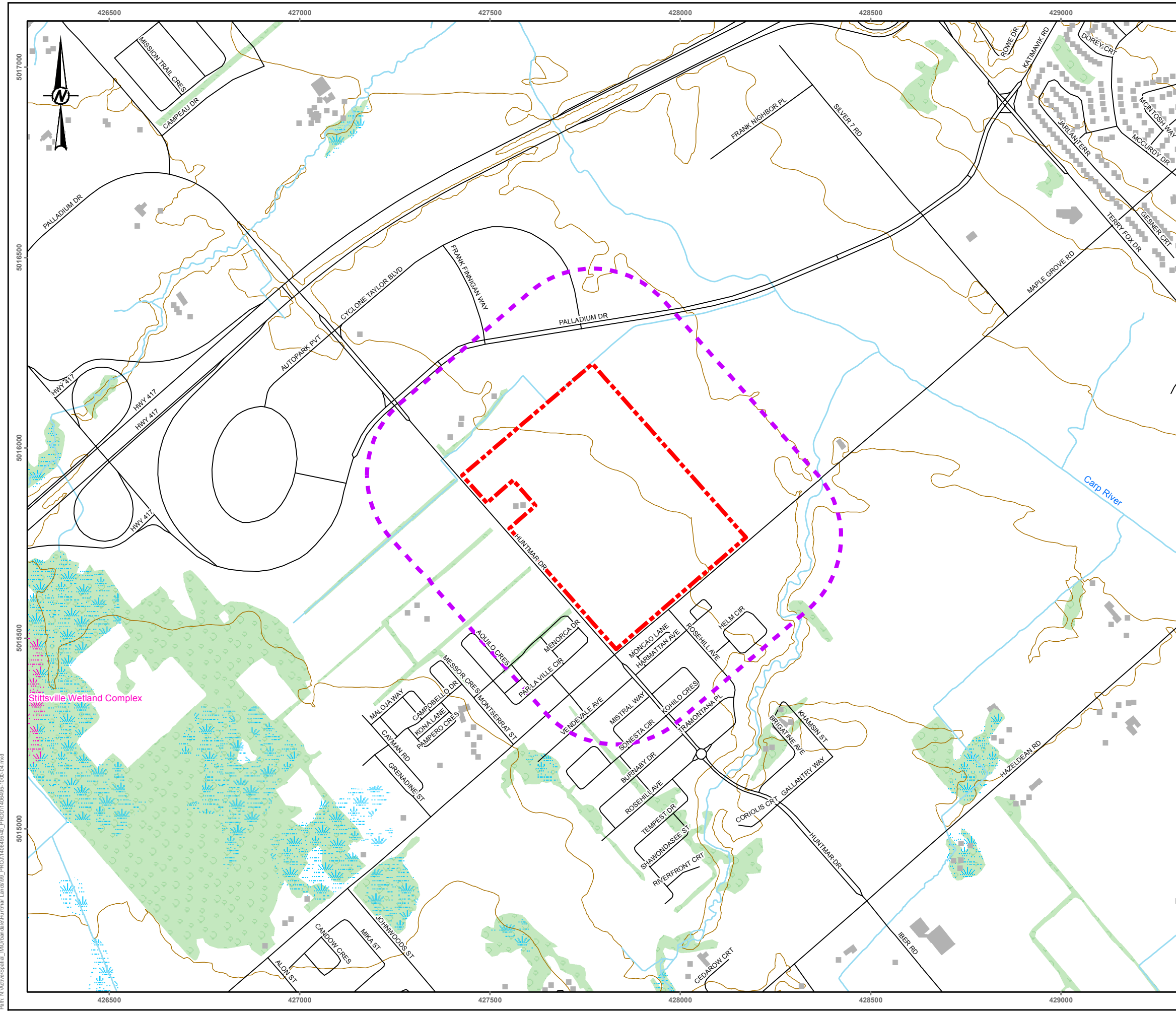
**PROJECT**  
 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO

**TITLE**  
 TOPOGRAPHIC MAP

CONSULTANT	DATE	REVISION
	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP

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- LEGEND**
- BUILDING POINT
  - ROADWAY
  - WATERCOURSE
  - TOPOGRAPHIC CONTOUR, metres
  - EVALUATED-OTHER
  - NOT EVALUATED PER OWES
  - WOODED AREA
  - BUILDING FOOTPRINT
  - PHASE I ESA STUDY AREA
  - SITE BOUNDARY

**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER  
 LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28



**CLIENT**  
 URBANDALE CONSTRUCTION LTD.

**PROJECT**  
 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO

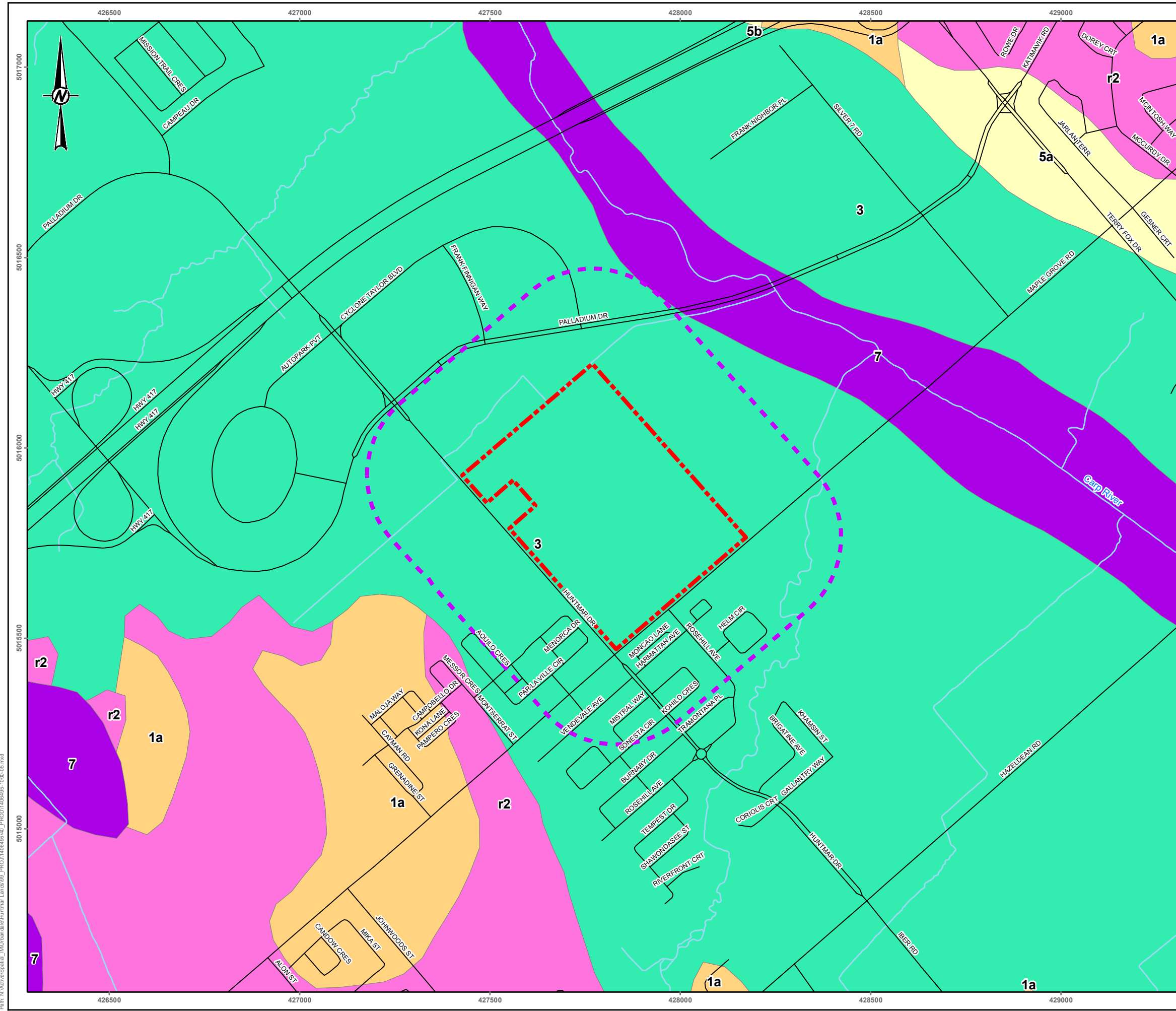
**TITLE**  
**AREAS OF NATURAL AND SCIENTIFIC INTEREST (ANSI)**

CONSULTANT	YYYY-MM-DD	
	2014-08-21	
	JEM	PREPARED
	JL	DESIGN
	BGS	REVIEW
	DHP	APPROVED

P:\In\Active\Spatial\_1\MI\Urbandale\Urban\_Land\99\_P\PROJ\1406495\_1000\_04.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SIZE HAS BEEN MODIFIED FROM 25mm



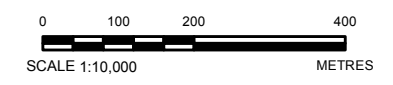


**LEGEND**

- ROADWAY
- WATERCOURSE
- PHASE I ESA STUDY AREA
- SITE BOUNDARY
- 7. ORGANIC DEPOSITS: MUCK & PEAT
- 5a: NEARSHORE SEDIMENTS: GRAVEL, SAND & BOULDERS
- 5b: NEARSHORE SEDIMENTS: FINE TO MEDIUM GRAINED SAND
- 3. OFFSHORE MARINE DEPOSITS: CLAY, SILTY CLAY & SILT
- 1a. TILL, PLAIN WITH LOCAL RELIEF <5 m
- r2. BEDROCK: LIMESTONE, DOLOMITE, SANDSTONE & LOCAL SHALE

**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES. © QUEENS PRINTER 2014  
 BELANGER, J. R. 2008 URBAN GEOLOGY OF THE NATIONAL CAPITAL AREA, GEOLOGICAL SURVEY OF CANADA, OPEN FILE 5311, 1 DVD.  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28



**CLIENT**  
 URBANDALE CONSTRUCTION LTD.

**PROJECT**  
 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO

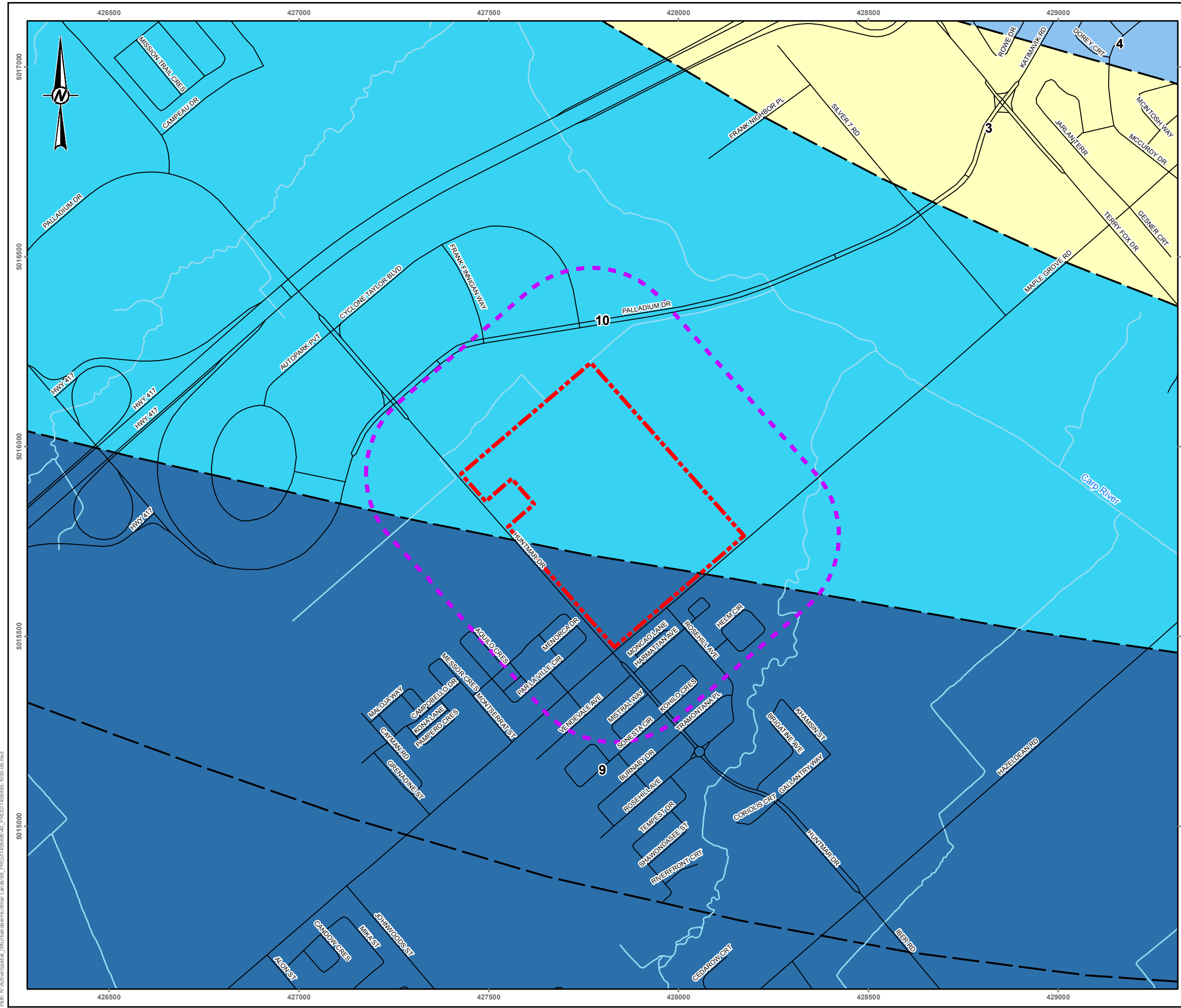
**TITLE**  
 SURFICIAL GEOLOGY

<b>CONSULTANT</b>	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM 28mm





- LEGEND**
- ROADWAY
  - WATERCOURSE
  - PHASE I ESA STUDY AREA
  - SITE BOUNDARY
  - 10: VERULAM FORMATION - LIMESTONE AND SHALE
  - 9: BOBCAYGEON FORMATION - LIMESTONE, WITH MINOR SHALES IN UPPER PART
  - 4: MARCH FORMATION - SANDSTONE, DOLOMITIC SANDSTONE, DOLOSTONE
  - 3: NEPEAN FORMATION - SANDSTONE, MINOR CONGLOMERATE

**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES. © QUEENS PRINTER 2014  
 ARMSTRONG, D.K. AND DODGE, J.E.P. PALEOZOIC GEOLOGY MAP OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE-DATA 219  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28



**CLIENT**  
 URBANDALE CONSTRUCTION LTD.

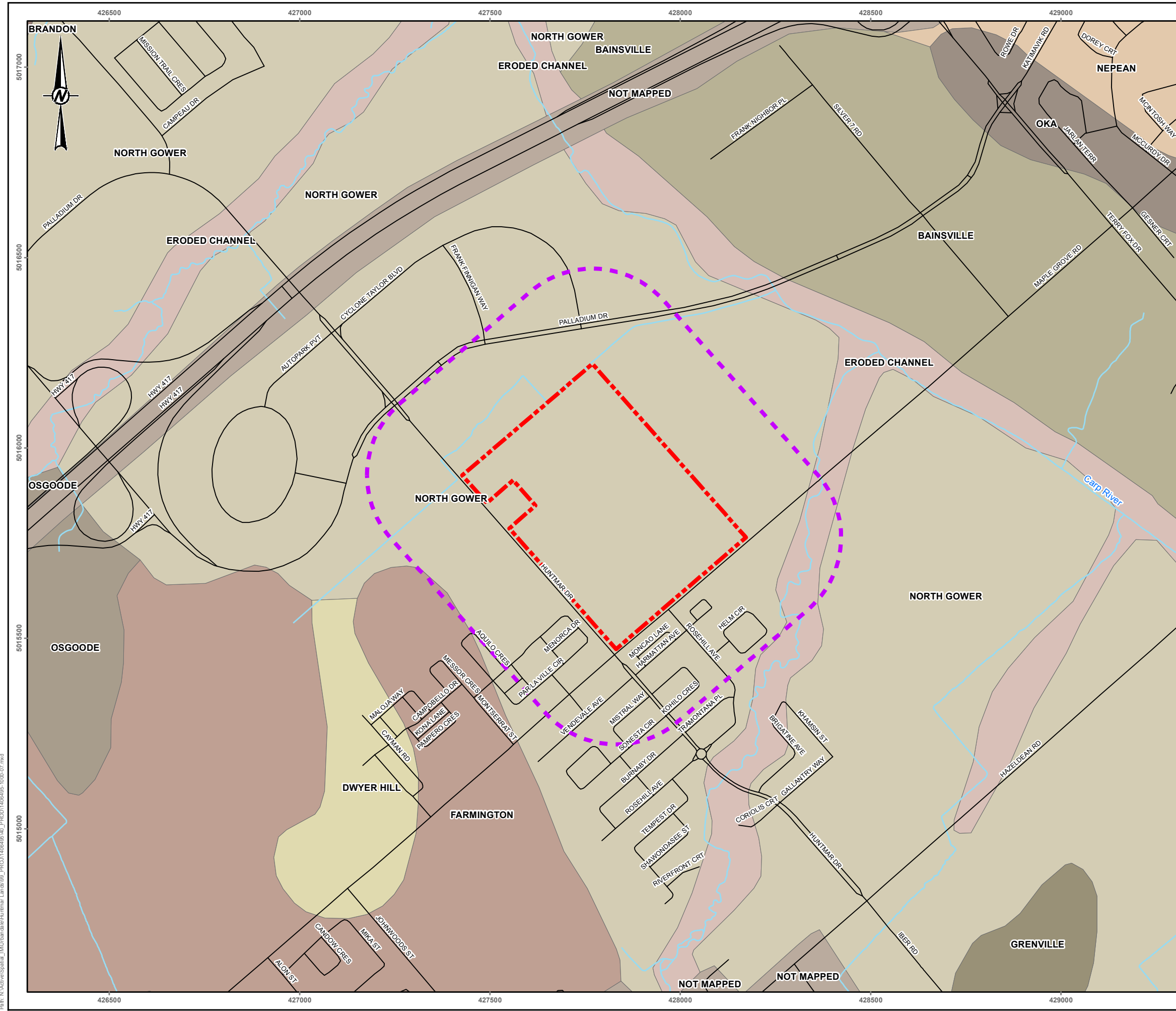
**PROJECT**  
 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO

**TITLE**  
 BEDROCK GEOLOGY

<b>CONSULTANT</b>	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP

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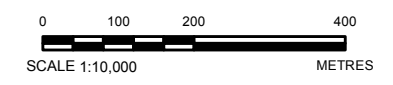
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM 25mm



- LEGEND**
- ROADWAY
  - WATERCOURSE
  - BAINSVILLE
  - BRANDON
  - DWYER HILL
  - ERODED CHANNEL
  - FARMINGTON
  - GRENVILLE
  - NEPEAN
  - NORTH GOWER
  - NOT MAPPED
  - OKA
  - ORGANIC
  - OSGOODE
  - PHASE I ESA STUDY AREA
  - SITE BOUNDARY

**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER  
 LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28



**CLIENT**  
 URBANDALE CONSTRUCTION LTD.

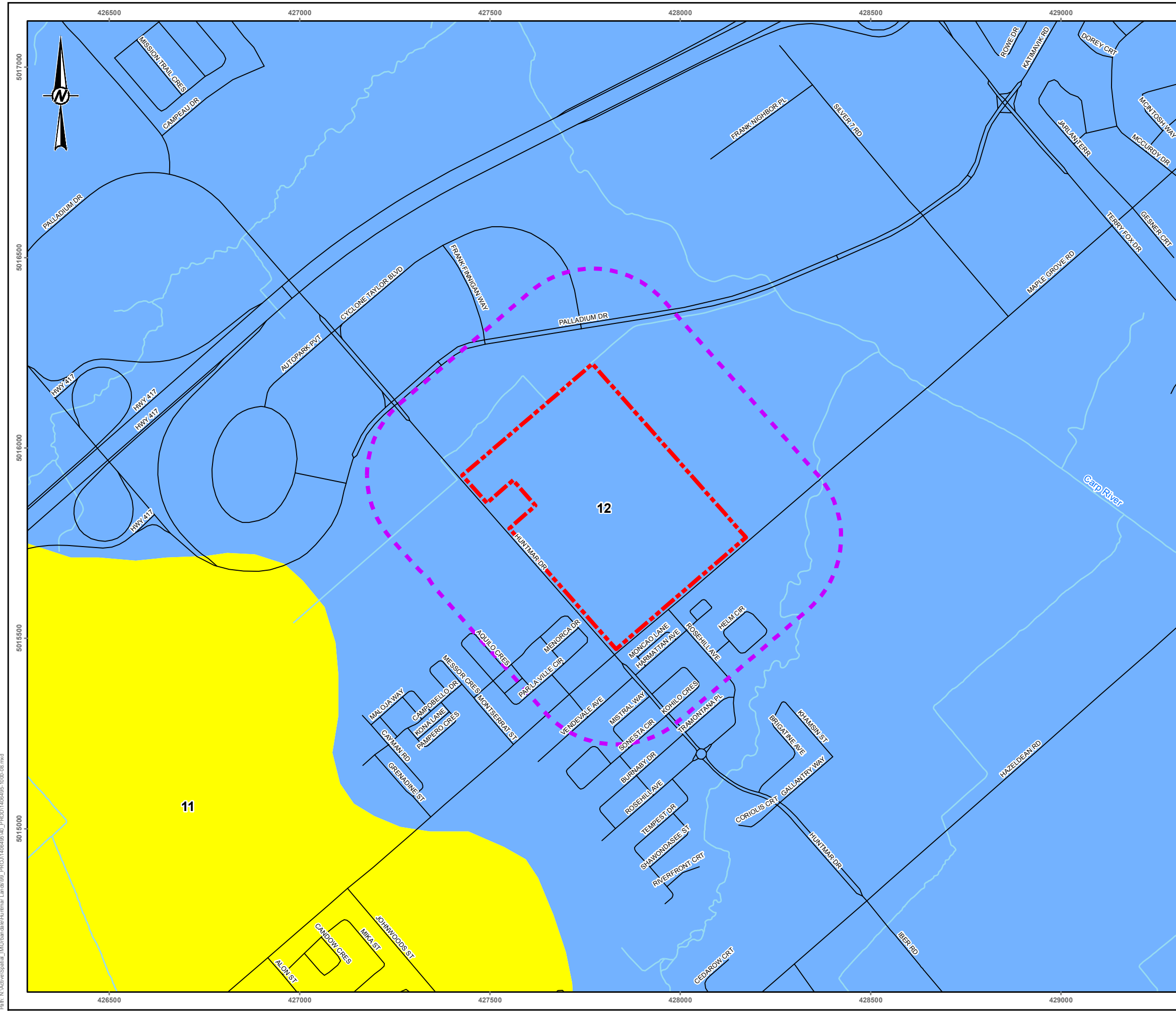
**PROJECT**  
 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO

**TITLE**  
 SURVEY SOIL COMPLEX (ONTARIO SOILS)

CONSULTANT	YYYY-MM-DD	
	2014-08-21	
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM 28mm



**LEGEND**

- ROADWAY
- WATERCOURSE
- 11: SAND PLAINS
- 12: CLAY PLAINS
- PHASE I ESA STUDY AREA
- SITE BOUNDARY

**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDR ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDR ASSOCIATES LTD. UNDER  
 LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014  
 CHAPMAN, L.J. AND PUTNAM, D.F. 2007. PHYSIOGRAPHY OF SOUTHERN ONTARIO; ONTARIO  
 GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE-DATA 228  
 PROJECTION: TRANSVERSE MERCATOR. DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28



**CLIENT**  
 URBANDALE CONSTRUCTION LTD.

**PROJECT**  
 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO

**TITLE**  
 PHYSIOGRAPHY MAP

CONSULTANT	YYYY-MM-DD	2014-08-21
PREPARED	JEM	
DESIGN	JL	
REVIEW	BGS	
APPROVED	DHP	

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM 26mm



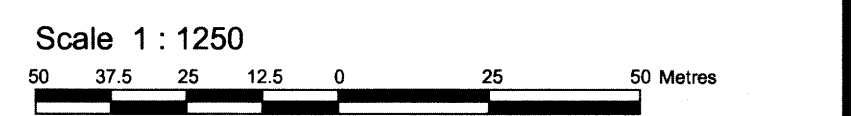
# **APPENDIX A**

## **Plan of Survey**



SCHEDULE			
PART	LOT	CONCESSION	PIN
1	PART OF 1	1	ALL OF 04509-0136

PLAN OF SURVEY OF  
**PART OF LOT 1  
CONCESSION 1**  
Geographic Township of March  
**CITY OF OTTAWA**  
Surveyed by Annis, O'Sullivan, Vollebek Ltd.



Metric  
DISTANCES AND COORDINATES SHOWN ON THIS PLAN  
ARE IN METRES AND CAN BE CONVERTED TO FEET BY  
DIVIDING BY 0.3048.

Surveyor's Certificate  
I CERTIFY THAT:  
1. This survey and plan are correct and in accordance with the Surveys Act, the Surveyors Act, the Land Titles Act and the regulations made under them.  
2. The survey was completed on the 17th day of July, 2013.

*Edward M. Lancaster*  
Date: July 17, 2013  
Edward M. Lancaster  
Ontario Land Surveyor

- Notes & Legend
- Denotes Survey Monument Planted
  - Denotes Survey Monument Found
  - SIB Denotes Standard Iron Bar
  - SSIB Denotes Short Standard Iron Bar
  - IB Denotes Iron Bar
  - (WIT) Denotes Witness
  - (AOG) Denotes Annis, O'Sullivan, Vollebek Ltd.
  - Meas. Denotes Measured
  - CLF Denotes Chain Link Fence
  - (P1) Denotes Registered Plan 4M-818
  - (P2) Denotes Plan 5R-13274
  - (P3) Denotes Plan 5R-4074
  - (P4) Denotes Plan 5R-2195

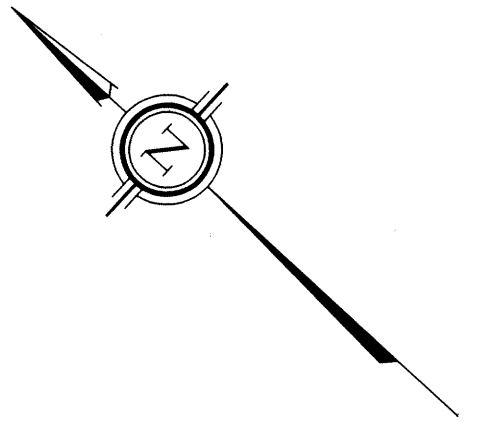
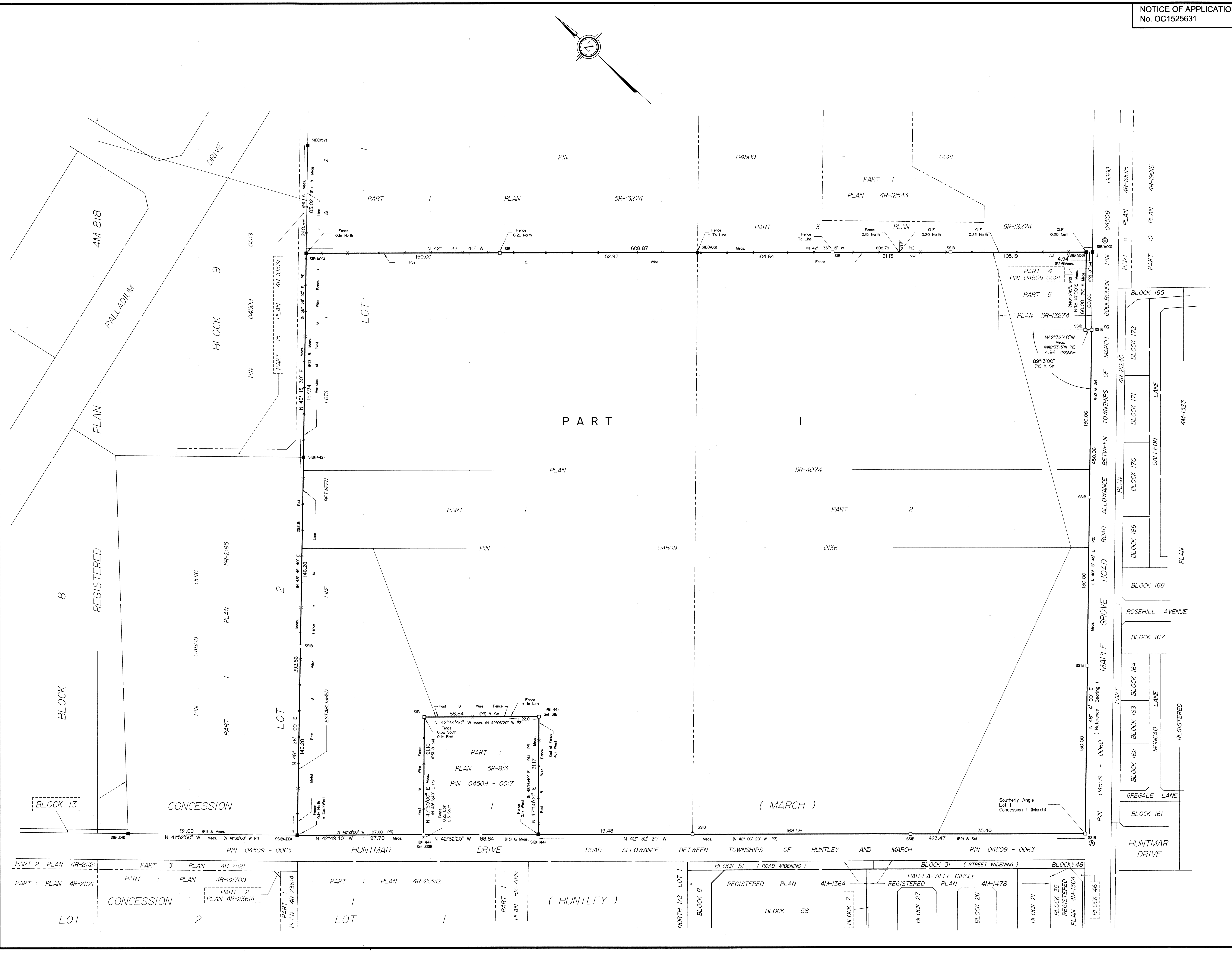
Distances shown on this plan are ground distances and can be converted to grid distances by multiplying by the combined scale factor of 0.99991.

Bearings are MTM grid, derived from observed reference points A and B, shown hereon, having a bearing of N 48°14'00" E and are referred to the Central Meridian of MTM Zone 9 (78°30' West Longitude) NAD-83 (original).

Coordinate values are to urban accuracy in accordance with O. Reg. 216/10.

Point A Northing 5016728.00 Easting 350270.94  
Point B Northing 5017027.79 Easting 350606.57

Caution: Coordinates cannot, in themselves, be used to re-establish corners or boundaries shown on this plan.





# **APPENDIX B**

## **Regulatory Requests and Responses**



## **City of Ottawa Request**

**DATE** August 20, 2014

**TO** City of Ottawa  
Development Approvals Division

**PROJECT No.** 1406495

**FAX No.** +1 613 592 9601

**TOTAL PAGES** 6 (Including cover sheet)

**FROM** Jillian Lackey

**EMAIL** jillian\_lackey@golder.com

**RE: INFORMATION REQUEST – PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

To whom it may concern,

We are in the process of preparing a Phase I Environmental Site Assessment for the above noted property and are requesting that the City provide information from their files with respect to this property.

As per your requirements we have included the Request for Information – Phase I Environmental Site Assessment form, a disclaimer form, property owner authorization and key plan.

The information that we are requesting includes, but is not limited to, the following:

- Active Orders under the Environmental Protection Act (EPA), the Ontario Water Resources Act (OWRA), and the Pesticides Act (PA)
- Approvals
- Reports relating to environmental concerns
- Records of non-compliance or regulatory concerns
- Dumping infractions, spills or discharges to the environment
- Violations of sewer use or environmental by-laws
- Historic information related to landfill or dumpsites on or in proximity to the property
- Any other environmental information

**Golder Associates Ltd.**

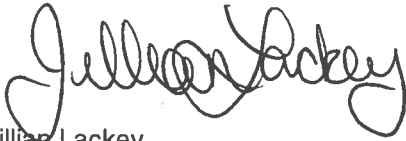
32 Steacie Drive, Kanata, Ontario, Canada K2K 2A9  
Tel: +1 (613) 592 9600 Fax: +1 (613) 592 9601 www.golder.com

**Golder Associates: Operations in Africa, Asia, Australasia, Europe, North America and South America**



Your usual prompt attention to this matter is appreciated. Should you have any questions please contact our office.

**GOLDER ASSOCIATES LTD.**



Jillian Lackey  
Junior Environmental Consultant

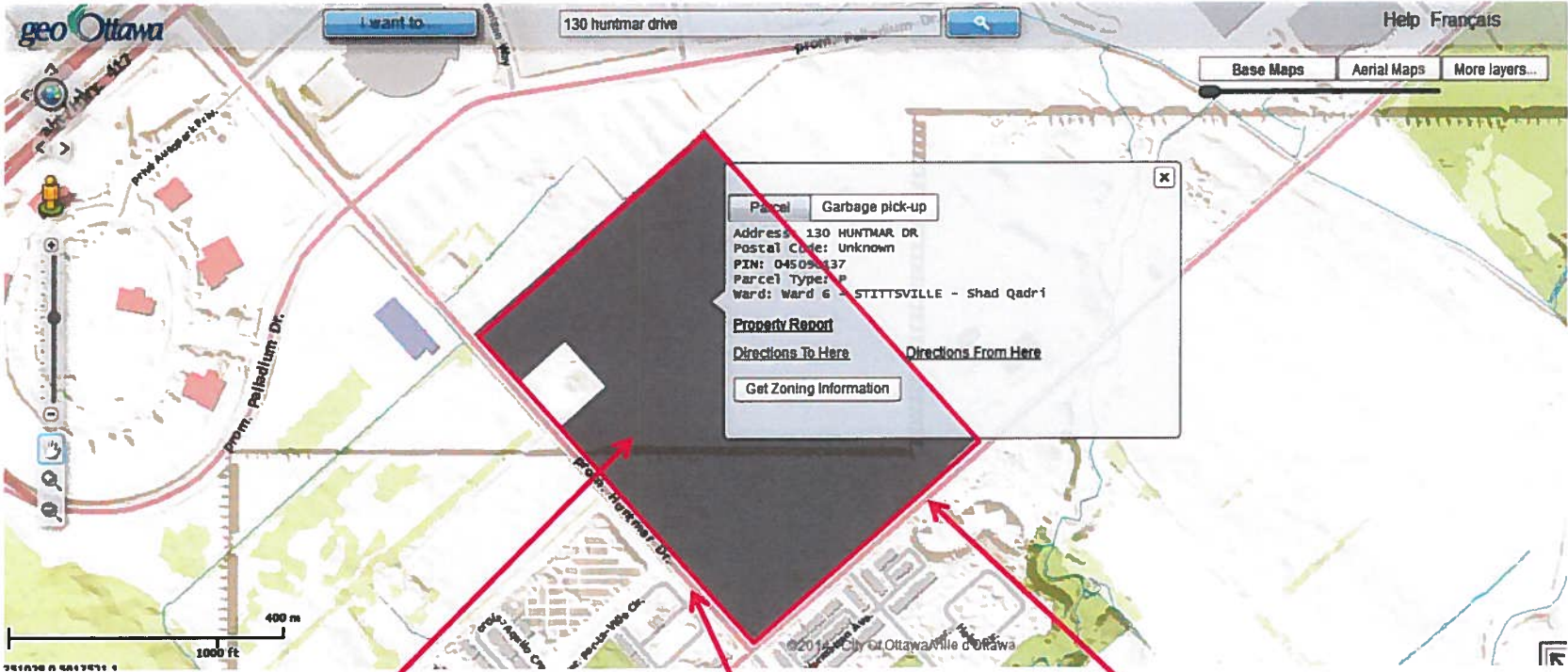
JL

Hard copy to follow by mail:  Yes  No

Please advise immediately if any pages are not received. The document(s) included in this transmission are intended only for the recipient(s) names above and contain privileged and confidential information. Any unauthorized disclosure, dissemination or copying of this transmission is strictly prohibited. If you have received this transmission in error, please immediately notify our receptionist by telephone and destroy this transmission. Thank you.

c:\users\j\lackey\desktop\1406495\_urbandale kanata\city of ottawa request-kanata.docx

130 Huntmar Road, Kanata, ON



Location of Site

Huntmar Drive

Maple Grove Road

# CONFIDENTIAL

File No.: 1406495

Deadline for Response: August 20, 2014

Phase 1 – Environmental Site Assessment

## Request for Information

(Informal Request)\*

### 1. REQUESTER INFORMATION

- a) Name of Requester: Jillian Lackey
- b) Address of Requester: 32 Steacie Drive, Kanata, ON, K2K 2A9
- c) Telephone Number: 613-592-9600 x 4362
- d) Site Address: Lot- \_\_\_\_\_ Concession: \_\_\_\_\_  
Street: 130 Huntmar Drive City/Town: Kanata  
Postal Code: \_\_\_\_\_
- e) Legal Plan Attached: Yes ( ) No ( X )
- f) Site Owner: Urbandale Corporation
- g) Adjacent Property Owners: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- h) Date of Ownership: \_\_\_\_\_  
Previous Owner(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- i) Type of Site: ( ) vacant, ( ) residential, ( ) commercial,  
( X ) other (specify) Recreational
- j) Requestors relationship to Site: Consultant
- k) Date of Previous Request: -
- l) Date of Previous ESA: -
- m) Information Requested: As per cover sheet

### 2. CONFIDENTIALITY

- a) Consent Required: ( X ) Owner ( ) Tenant ( ) Purchaser ( ) Legal\*\*
- b) Consent Obtained: ( X ) Owner ( ) Tenant ( ) Purchaser ( ) Legal\*\*

\*(If formal MFIPPA request, please forward to Corporate Access and Privacy Coordinator, Clerk's Department)

\*\* (Consent letters must contain the information required, give authorization to requestor, and be dated and signed)

# DISCLAIMER

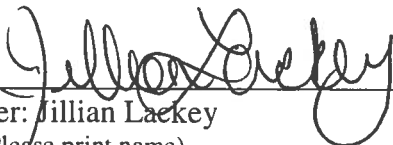
For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the HISTORICAL LAND USE INVENTORY ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

*The City, in providing information from the HLUI, to Golder Associates Ltd. ("the Requester") does so only under the following conditions and understanding:*

1. This is a free service offered by the City.
2. The information which is contained in the HLUI has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided "as is".
3. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information to be provided by the City to the Requester is provided on the assumption that no person shall rely on it without undertaking independent verification of it for any purpose whatsoever and all liability to any such person is denied.
4. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
5. Copyright is reserved to the City.
6. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
7. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
8. All information collected under this request and all records provided in response to this request are subject to the provisions of the *Municipal Freedom of Information and Protection of Privacy Act*, R.S.O. 1990,c. M56, as amended.

Signed: \_\_\_\_\_

  
Per: Jillian Laekey  
(Please print name)

Title: Junior Environmental Consultant  
Company: Golder Associates Ltd.

Dated: August 20, 2014

This form has been prepared by Golder Associates, for client use, with regard to submissions to the City of Ottawa ("City") for environmental related information on the property noted below. It will be used by Golder Associates, who have been retained to carry out a Phase I Environmental Site Assessment.

This form is to be completed by the property owner/agent and forwarded to Golder Associates Ltd. who will then append it with a request for information to the City. The intent of the form is to notify the City that Golder Associates Ltd. is authorised to access the requested environmental information.

.....

**Property Location Information:**

Civic Address 130 Huntman Drive  
Kanata, Ontario, Canada

Legal Description Part of Lot 1, Concession 1  
(March), being part 1 on  
Plan 4R-27576

**Property Contact Information:**

Owner Urbandale Construction Ltd.

Phone Number 613-731-6331

Fax Number 613-731-9226

Owner Representative Mary Jarvis

Owner Representative Signature (Mary Jarvis)

Date Aug. 20, 2014



## **MNR Request and Response**

*Natural. Valued. Protected.*

## Natural Heritage Information Centre

## Land Information Ontario

Natural Heritage Information Centre: <http://nhic.mnr.gov.on.ca/>

Biodiversity Explorer (mapping): <https://www.biodiversityexplorer.mnr.gov.on.ca/nhicWEB/main.jsp>

Land Information Ontario: <http://www.mnr.gov.on.ca/en/Business/LIO/index.html>

Ontario Geospatial Data Exchange: [http://www.mnr.gov.on.ca/en/Business/LIO/2ColumnSubPage/STEL02\\_167959.html](http://www.mnr.gov.on.ca/en/Business/LIO/2ColumnSubPage/STEL02_167959.html)

LIO Make-a-Map: [http://www.mnr.gov.on.ca/en/Business/LIO/2ColumnSubPage/STDPROD\\_068999.html](http://www.mnr.gov.on.ca/en/Business/LIO/2ColumnSubPage/STDPROD_068999.html)

Ontario Maps: [http://www.mnr.gov.on.ca/en/Business/LIO/2ColumnSubPage/STDPROD\\_068512.html](http://www.mnr.gov.on.ca/en/Business/LIO/2ColumnSubPage/STDPROD_068512.html)

The **Natural Heritage Information Centre** (NHIC) compiles, maintains and distributes information on natural species, plant communities and spaces of conservation concern in Ontario. This information is stored in a spatial database used for tracking this information. The Centre also has a library with conservation-related literature, reports, books, and maps, which are accessible for conservation applications, land use planning, and natural resource management. The NHIC website makes much of this information available through the internet.

### Natural Heritage Information Centre

300 Water Street, 2nd Floor, North Tower  
P.O. Box 7000, Peterborough, ON, K9J 8M5  
Tel.:(705) 755-2159 Fax:(705) 755-2168

**Land Information Ontario** (LIO) manages key provincial datasets. LIO makes these and hundreds of other data sets available to registered users at no charge. LIO also coordinates public and private sector organizations to collect high resolution satellite imagery for Ontario providing significant cost savings for all partners. Technical bulletins, newsletters and more are available online. More details regarding Ontario imagery and data can be searched, ordered and accessed online.

LIO's Ontario Geospatial Data Exchange (OGDE) allows more than 400 public sector organizations to easily share and use digital geographic information under a single legal agreement. Membership is available to eligible public organizations at no costs.

Through the website, Maps & Map Tools are made available, including online mapping software: LIO Make-a-Map.

### Land Information Ontario

[lio@ontario.ca](mailto:lio@ontario.ca)

LIO Support Team: (705) 755-1878

Or for specifics, see online at:

[http://www.mnr.gov.on.ca/en/Business/LIO/2ColumnSubPage/STDPROD\\_068510.html](http://www.mnr.gov.on.ca/en/Business/LIO/2ColumnSubPage/STDPROD_068510.html)

Additional Information pertaining to NHIC, LIO and other Natural Heritage and Data and Information tools is available in the **MNR Kemptville Information Request Guide (2012)**.

*Natural. Valued. Protected.*

# Endangered Species Act, 2007 & Species At Risk in Ontario

## Background

Endangered Species Act: [http://www.e-laws.gov.on.ca/html/statutes/english/elaws\\_statues-07e06\\_e.htm](http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statues-07e06_e.htm)

Species at Risk in Ontario List: [www.mnr.gov.on.ca/en/Business/Species/2ColumnSubPage/246809.html](http://www.mnr.gov.on.ca/en/Business/Species/2ColumnSubPage/246809.html)

The Endangered Species Act (ESA) 2007 protects both species and habitat. Section 9 of the ESA “prohibits killing, harming, harassing, capturing, possessing, collecting, buying, selling, trading, leasing or transporting species that are listed as threatened, endangered or extirpated”. Section 10 of the ESA, 2007 prohibits damaging or destroying habitat of endangered or threatened species. Protected habitat is either based on general definition in the Act or prescribed through a regulation. The ESA 2007 defines general habitat as an area on which the species depends, directly or indirectly, to carry on its life processes, including reproduction, rearing, hibernation, migration or feeding.

It is important to be aware that changes may occur in both species and habitat protection. The ESA applies to listed species on the Species at Risk in Ontario List (SARO). The Committee on the Status of Species in Ontario (COSSARO) meets regularly to evaluate species for listing and/or re-evaluate species already listed. As a result, species’ designations may change that could in turn change the level of protection they receive under the ESA 2007. Also, habitat protection provisions for a species may change e.g. if a species-specific habitat regulation comes into effect. The regulation would establish the area that is protected as habitat for the species.

Information with respect to SAR can be found in the online database at the Natural Heritage Information Centre (NHIC) - <http://nhic.mnr.gov.on.ca/nhic.cfm> . The NHIC compiles, maintains and distributes information on species at risk and updates its information on a regular basis. We encourage you to routinely check the NHIC database to obtain the most up to date SAR information for proposed work locations. However, while the NHIC database is the best available source of data, even when there are no known occurrences documented at a site, there is a possibility that SAR may occur at a proposed work location.

All data represents the MNR’s best current available information, it is important to note that a lack of occurrence at a site does not mean that there are no Species at Risk (SAR) at the location. The MNR continues to encourage ecological site assessments to determine the potential for other SAR occurrences. When a SAR does occur on a proposed site, it is recommended that the proponent contact the MNR for technical advice and to discuss what activities can occur without contravention of the Act. If an activity is proposed that will contravene the Act (such as Section 9 or 10), the proponent must contact the MNR to discuss the potential for application of certain permits (Section 17) or agreement (Regulation 242/08). For specific questions regarding the Endangered Species Act (2007) or species at risk, please contact a district Species at Risk Biologist at [sar.kemptville@ontario.ca](mailto:sar.kemptville@ontario.ca).





**Ministry of Natural Resources**

Kemptville District  
P.O. Box 2002  
10 Campus Drive  
Kemptville, ONK0G 1J0

Tel.: (613) 258-8204  
Fax.: (613) 258-3920

**Ministère des Richesses naturelles**

District de Kemptville  
CP 2002  
10 Campus Drive  
Kemptville, ONK0G 1J0

Tél.: (613) 258-8204  
Télééc.: (613) 258-3920

Fri. Sep 5, 2014

Gwendolyn Weeks  
Golder  
32 Steacie Drive  
Kanata, Ontario  
K2A 2A9  
(613) 592-9600  
gwendolyn\_weeks@golder.com

Attention: Gwendolyn Weeks

Subject: Information Request - Developments  
Project Name: 130 Huntmar Dr  
Site Address: 130 Huntmar Dr.  
Our File No. 2014\_MAR-2774

**Natural Heritage Values**

The Ministry of Natural Resources (MNR) Kemptville District has carried out a preliminary review of the area in order to identify any potential natural resource and natural heritage values.

The MNR works closely with partner agencies and local municipalities in order to establish concurrent approval process and to achieve streamlined and efficient service delivery. The MNR strongly encourages all proponents to contact partner agencies (e.g. MOE, Conservation Authority, etc.) and appropriate municipalities early on in the planning process. This provides the proponent with early knowledge regarding agency requirements and approval timelines.

Natural heritage features and values contribute to the province's rich biodiversity and provide habitat for a variety of species. The following Natural Heritage values were identified:

- ANSI, Earth Science, QUEENSWAY EXTENSION SANDSTONE (Provincial)
- Fish Nursery, Pumpkinseed Nursery Area (Non-Sensitive)
- Fish Nursery, Rock Bass Nursery Area (Non-Sensitive)
- Fish Nursery, White Sucker Nursery Area (Non-Sensitive)
- Municipal Drain, Carp River Municipal Drain (Non-Sensitive)
- Unevaluated Wetland (Not evaluated per OWES)

Municipal Official Plans contain additional information related to natural heritage features. Please see the local municipal Official Plan for more information such as specific policies and direction pertaining to activities which may impact natural heritage features. For planning advice or Official Plan interpretation, please contact the local municipality.

Where natural values and natural hazards exist (e.g., floodplains), there may be additional approvals and permitting required from the local Conservation Authority. The MNR strongly recommends contacting the local Conservation Authority for further information and approvals. Please see the MNR Kemptville Information Guide (2012) for contact information pertaining to Conservation Authorities located within the Kemptville District area.

For additional information and online mapping tools, please see the Natural Heritage Information Centre (NHIC), where additional data and files can be downloaded in both list and digital format. In addition sensitive species information can be requested and accessed through the NHIC at [NHICrequests@ontario.ca](mailto:NHICrequests@ontario.ca).

In Addition, the following Fish species were identified: banded killifish, blackchin shiner, blacknose shiner, bluntnose minnow, brassy minnow, brook stickleback, brown bullhead, burbot, Carps and Minnows, central mudminnow, common shiner, creek chub, eastern blacknose dace, emerald shiner, fathead minnow, finescale dace, golden shiner, Iowa darter, johnny darter, johnny darter/tesselated darter, logperch, longnose dace, mimic shiner, mottled sculpin, Moxostoma sp., muskellunge, northern hog sucker, northern pike, northern redbelly dace, Notropis sp., pearl dace, pumpkinseed, Rhinichthys sp., rock bass, smallmouth bass, tessellated darter, trout-perch, white sucker, yellow perch.

## Water

Where the site is adjacent to or contains a watercourse or waterbodies, additional considerations apply. If any in-water works are to occur, there are timing restriction periods for which work in water can take place (see below). Appropriate measures should be taken to minimize and mitigate impact on water quality and fish habitat, including:

- including the installation of sediment and erosion control measures;
- avoiding removal alteration or covering of substrates used for fish spawning, feeding, overwintering or nursery areas; and
- debris control measures should be put in place to manage falling debris (e.g. spalling).

A work permit from the MNR may be required pending further details regarding the proposed works. No encroachment on the bed or banks of the waterbody (e.g. abutments, embankments, etc.) is permitted until MNR approval and clearance has been issued. In order for MNR staff to determine when a work permit is required, additional information can include:

- Detailed drawings (existing and proposed)
- Location mapping
- Registered Plan survey
- Site photographs
- Public Lands Act Forms - application forms, ownership form and landowner notification form.

The MNR does not have any water quality or quantity data available. We recommend that the Ministry of the Environment be contacted for such data along with the local Conservation Authority. For further information regarding fish habitat and protocols, please refer to the following interagency document, *Fish Habitat Referral Protocol for Ontario* at: <http://www.mnr.gov.ca/264110.pdf>

Timing restriction periods in MNR Kemptville District\*:

- Warmwater → March 15 – June 30
- March 15 – July 15 for St. Lawrence River & Ottawa River
- Coldwater → October 1 – May 31
- Mixed lakes → October 1 – June 30 (Big Rideau & Charleston)

\* Please note: Additional timing restrictions may apply as it relates to Endangered and Threatened Species, including works in both water and wetland areas.

	FISH SPECIES	TIMING WINDOW
<i>Spring:</i>	Walleye	March 15 to May 31
	Northern Pike	March 15 to May 31
	Lake Sturgeon	May 1 to June 30
	Muskellunge	March 15 to May 31
	Largemouth/Smallmouth Bass	May 1 to July 15
	Rainbow Trout	March 15 to June 15
	Other/Unknown Spring Spawning Species	March 15 to July 15

	FISH SPECIES	TIMING WINDOW
<i>Fall:</i>	Lake Trout	October 1 to May 31
	Brook Trout	October 1 to May 31
	Pacific Salmon	September 15 to May 31
	Lake Whitefish	October 15 to May 31
	Lake Herring	October 15 to May 31
	Other/Unknown Fall Spawning Species	October 1 to May 31

Additional approvals and permits may be required for the proposed works as it relates to the Fisheries Act. Please contact your local Conservation Authority and the Department of Fisheries and Oceans to determine requirements and next steps. Where the Fisheries Act is triggered and habitat compensation, mitigation measures or best management practices are being considered; as the MNR is charged with the management of Provincial fish populations, the MNR requests ongoing involvement in such discussions in order to ensure population conservation. Furthermore, local Conservation Authorities may also have additional approvals for works in and adjacent to water and wetland features. Finally, Transport Canada's Navigable Waters Protection Division may require review and approval of the proposed project. Please contact these local agencies directly for more information.

As per the Natural Heritage Reference Manual (Section 13; OMNR 2010) the MNR strongly recommends that an Ecological Site Assessment be carried out to more thoroughly determine the presence of natural heritage features, and Species at Risk and their habitat located on site. The

MNR can provide survey methodology for particular species at risk and their habitats. In addition, the local planning authority may have more details pertaining to the requirements of the assessment process, which will result in allow for the municipality to make planning decisions which are consistent with the Provincial Policy Statement (2005).

### Species at Risk

With the new Endangered Species Act (ESA, 2007) in effect, it is important to understand which species and habitats exist in the area and the implications of the legislation. A review of the Natural Heritage Information Centre (NHIC) and internal records indicate that there is a potential for the following Threatened (THR) and/or Endangered (END) species on the site or in proximity to it:

- Blanding's Turtle (THR)
- Butternut (END)

All Endangered and Threatened species receive individual protection under section 9 of the ESA and receive general habitat protection under Section 10 of the ESA, 2007. Thus any potential works should consider disturbance of possible important habitat (e.g. nesting sites). Please note that as of June 30, 2013 general habitat protection applies to all Threatened and Endangered species. The habitat of these listed species is protected from damage and destruction and certain activities may require authorization(s) under the ESA. Please keep this date in mind when planning any species and habitat surveys

Species receiving General Habitat protection:

- Blanding's Turtle (THR)
- Butternut (END)

If the proposed activity is known to have an impact on the species mentioned above or any other SAR, an authorization under the Endangered Species Act, 2007 (ESA) may be required. It is recommended that MNR Kemptville be contacted prior to any activities being carried out to discuss potential survey and mitigation measures to avoid contravention of the ESA.

In Addition, one or more Special Concern species has been documented to occur either on the site or nearby. Species listed as Special Concern are not protected under the ESA, 2007. However, please note that some of these species may be protected under the Fish and Wildlife Conservation Act. Species of Special Concern for consideration:

- Milksnake (SC)
- Snapping Turtle (SC)

If any of these or any other species at risk are discovered throughout the course of the work, and/or should any species at risk or their habitat be potentially impacted by on site activities, MNR should be contacted immediately and operations be modified to avoid any negative impacts to species at risk or their habitat until further direction is provided by MNR.

Please note that information regarding species at risk is based on documented occurrences only and does not include an interpretation of potential habitat within or in proximity to the site in question. Although this data represents the MNR's best current available information, it is important to note that a lack of information for a site does not mean that additional features and

values are not present. i.e.: Species at Risk (SAR) or their habitat could still be present at the location or in the immediate area. It is the responsibility of the proponent to ensure that species at risk are not killed, harmed, or harassed; or their habitat is not damaged or destroyed through the activities carried out on the site. The MNR continues to strongly encourage ecological site assessments to determine the potential for SAR habitat and occurrences. When a SAR or potential habitat for a SAR does occur on a site, it is recommended that the proponent contact the MNR for technical advice and to discuss what activities can occur without contravention of the Act. If an activity is proposed that will contravene the ESA (such as Section 9 or 10), the proponent must contact the MNR to discuss the potential for a permit (Section 17). For specific questions regarding the Endangered Species Act (2007) or SAR, please contact a district Species at Risk Biologist at [sar.kemptville@ontario.ca](mailto:sar.kemptville@ontario.ca). For more information regarding the ESA (2007), please see attached ESA Information Sheet.

As of July 1, 2013, the approvals processes for a number of activities that have the potential to impact SAR or their habitat were changed in an effort to streamline approvals processes while continuing to protect and sustainably manage Ontario's natural resources. For those activities that require registration with the Ministry, businesses and individuals will be able to do so through a new online system. The online system will also include information to help guide individuals and businesses through the new processes. For further information on which activities are authorized through this new online registration process and how to apply, please refer to the following website: [http://www.mnr.gov.on.ca/en/About/2ColumnSubPage/STDPROD\\_104342.html](http://www.mnr.gov.on.ca/en/About/2ColumnSubPage/STDPROD_104342.html). General inquiries may be directed towards Kemptville District MNR, while questions and comments involving the new online forms can be directed to the Registry Approvals Service Centre (RASC) at 1-855-613-4256 or [mnr.rasc@ontario.ca](mailto:mnr.rasc@ontario.ca).

Please note: The advice in this letter may become invalid if:

- The Committee on the Status of Species at Risk in Ontario (COSSARO) re-assesses the status of the above-named species OR adds a species to the SARO List such that the section 9 and/or 10 protection provisions apply to those species.
- Additional occurrences of species are discovered.
- Habitat protection comes into force for one of the above-mentioned species through the creation of a habitat regulation (see general habitat protection above).

This letter is valid until: Sat. Sep 5, 2015

MNR is streamlining and automating its approvals processes for natural resource-related activities. Some activities that may otherwise contravene the ESA may be eligible to proceed without a permit from MNR provided that regulatory conditions are met for the ongoing protection of species at risk and their habitats. There are regulatory provisions for projects that have attained a specified level of approval prior to, or shortly after, the specified species or its habitat became protected under the ESA. There requirements include registering the activity with the Ministry of Natural Resources, taking steps to immediately minimize adverse effects on species and habitat, and developing a mitigation plan. Anyone intending to use this regulatory provision is strongly advised to review Ontario Regulation 242/08 under the Endangered Species Act, 2007 for the full legal requirements.

For more information please check out the following link <http://www.ontario.ca/environment-and-energy/development-and-infrastructure-projects-and-endangered-or-threatened-species>

The MNR would like to advise, by way of this letter, that we continue to be circulated on information with regards to this project. If you have any questions or require clarification please do not hesitate to contact me.

Sincerely,

Lisa McShane  
Management Biologist  
[lisa.mcshane@ontario.ca](mailto:lisa.mcshane@ontario.ca)

Encl.\n-ESA Infosheet\n-NHIC/LIO Infosheet



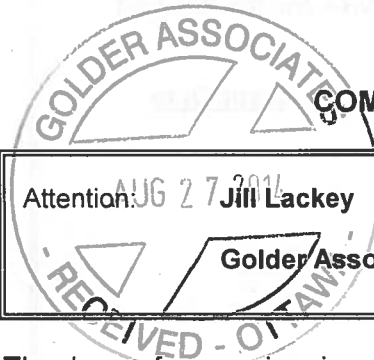
## **MOE Response**

Ministry of the Environment  
and Climate Change  
Ottawa District Office  
2430 Don Reid Drive, Suite 103  
Ottawa Ontario  
K1H 1E1  
613-521-3450 or 1-800-860-2195  
Fax: 613-521-5437

Ministère de l'Environnement et de  
l'Action en matière de changement climatique  
Bureau du district d'Ottawa  
2430, promenade Don Reid, Unité 103  
Ottawa (Ontario)  
K1H 1E1  
613-521-3450 ou 1-800-860-2195  
Télééc. : 613-521-5437



OTT File No: 28



**INDEX REVIEW REPORT  
COMMERCIAL/INDUSTRIAL/AGRICULTURAL**

Attention: <b>Jill Lackey</b> Golder Associates	Your File:  Date Received: August 19, 2014
--	--

Thank you for your inquiry requesting a search of records from the Ministry of the Environment and Climate Change (ministry). The ministry encourages you to use the available on-line resources to access publically-available information which may assist with your inquiry.

<b><u>PROPERTY OWNER AND LOCATION</u></b>		
Location:	Municipality:	<b>Ottawa</b>
	Address:	<b>130 Huntmar Drive, Kanata</b> Lot                      Concession

<b><u>INDEX OF NAMES FOR ORDERS</u></b>
We have searched the <i>Ottawa District Index Record of Active Orders</i> under the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and the Pesticides Act (PA) issued to: and the following information has been found:
<input checked="" type="checkbox"/> No Active Orders are outstanding
<b>Please Note:</b> <i>For information related to any ministry Orders issued to the property in question, please request this information from the property owner. If you would like further information regarding a specific Order issued, please contact the Ottawa District Office.</i>
Date of Search: August 25, 2014

<b><u>RECORD OF SITE CONDITION</u></b>
For information on <b>Records of Site Condition</b> filed on the Environmental Site Registry since October 1, 2004, please use the following link: <a href="http://www.ene.gov.on.ca/environment/en/subject/brownfields/STDPROD_075742.html">http://www.ene.gov.on.ca/environment/en/subject/brownfields/STDPROD_075742.html</a>



## INDEX REVIEW REPORT COMMERCIAL/INDUSTRIAL/AGRICULTURAL

### INDEX OF NAMES FOR APPROVALS ISSUED SINCE 1999

A search of the Index Record of names of all persons to whom approvals have been issued, maintained by the Director, Approvals Branch and the Regional Director, *Eastern Region*, and the District Manager, *Ottawa District*, under Section 19 EPA and Section 13 OWRA and the following information has been provided :

<u>Type</u>	<u>Number</u>	<u>Issued To</u>	<u>Issue Date</u>
Section 9 EPA (Air)			
Section 39 EPA (Waste Management)			
Section 52 OWRA (Water)			
Section 53 OWRA (Municipal/Private/ Industrial Sewage)			
Other			

The ministry's **Access Environment** is an on-line, map-based search tool designed to allow the public, quick and easy access to MOE approvals and registration information from December 1999 onward. Access Environment currently displays Environmental Compliance Approvals (ECA), Renewable Energy Approvals (REA) and registrations on the Environmental Activity and Sector Registry (EASR). ECAs include all Certificates of Approval (CofAs) previously issued under the Environmental Protection Act (EPA) and approvals previously issued under s.53 of the Ontario Water Resources Act (OWRA). You can access this information from the MOE website or at the following link:

[www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en](http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en)

Copies of ECAs prior to 1999 can be obtained through a request to the ministry's Information Unit at the Environmental Approvals, Access and Service Integration Branch – the form is available at: <http://www.ontario.ca/environment-and-energy/request-copy-environmental-compliance-approval>

**Please Note:**

- 1) The information provided above is based solely on the address(es) and name(s) of the present and past owners provided by you.
- 2) The Index Record of Names to whom approvals have been issued, maintained by the Regional Director and District Manager, has been searched back to 1999.
- 3) A search of our records does **NOT** indicate whether there are:
  - other uses for which an approval may have been required, **nor**
  - other uses on the property or in the vicinity that may affect the suitability of the property, for the use proposed to be made of it.If a comprehensive knowledge of the property and the nearby lands and their environmental condition is required, you must examine them and other relevant records yourself, with the aid of a qualified person, if needed.

No Approvals have been issued.

Date of Search: August 25, 2014

**INDEX REVIEW REPORT  
COMMERCIAL/INDUSTRIAL/AGRICULTURAL**

Additional site information related to the **location of landfill sites** in the province can be found at the following link:

<http://www.ontario.ca/environment-and-energy/small-landfill-sites>

<http://www.ontario.ca/environment-and-energy/map-large-landfill-sites>

The ministry's **Hazardous Waste Information Network (HWIN)** can also be accessed to search for information on generators, carriers, and receivers of subject waste in the province at the following link: [www.hwin.ca](http://www.hwin.ca)

The ministry's **Environmental Compliance Reports** provide information about contaminant discharges to water and emissions to air that exceed limits found in legislation, environmental approvals, orders and/or policies/guidelines and can be accessed at the following link: <http://www.ontario.ca/environment-and-energy/environmental-compliance-reports>

Information on **environmental penalties**, which are monetary penalties that can be imposed by the ministry for some industrial spills, can be assessed at the following link:

<http://www.ontario.ca/government/search-results?query=Environmental+penalties&op=Search>

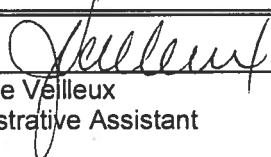
Additional ministry information can be accessed through the **Government of Ontario's Open Data Catalogue**: <http://www.ontario.ca/government/open-data-ontario>

The ministry also encourages you to consider best practices and standards of care used within the legal community and through your associations as a guide to obtaining information related to specific property for any legal purpose.

We trust this information will help meet your requirements quickly and effectively.

Please advise your colleagues that responses to requests for searches always take some time. As a result the Ministry of the Environment and Climate Change may not be able to meet deadlines imposed by other parties on real estate and other transactions.

Thank you for your inquiry.

Signature:	
Contact Name:	Johanne Veilleux
Title:	Administrative Assistant
Address:	Ministry of the Environment and Climate Change 2430 Don Reid Drive, Unit 103 Ottawa, ON K1H 1E1
Phone:	(613) 521-3450 Ext 221
Date:	August 25, 2014
	E&OE

**Please Note:** If you would like to receive an email with all the environmental links above, please contact me at [johanne.veilleux@ontario.ca](mailto:johanne.veilleux@ontario.ca) and I will be pleased to send them to you.



## **TSSA Request and Response**

## Dumas, Melissa

---

**From:** squibell@tssa.org on behalf of Public Information Services  
<publicinformationsservices@tssa.org>  
**Sent:** Wednesday, September 17, 2014 9:44 AM  
**To:** Lackey, Jillian  
**Subject:** Re: TSSA Search - Kanata, Ontario

Hi Jillian

Thank you for re-submitting your request.

I have searched the below noted address (addresses) and I have located the following record:

225 Huntmar Dr, Ottawa has record of 4 active underground tanks and an active cylinder exchange facility.

1655 Maple Grove Rd, Kanata has record of 3 active aboveground tanks.

For a more detailed report including underground fuel storage tank details and copies of all inspection reports, please submit your request in writing to Public Information Services via e-mail ([publicinformationsservices@tssa.org](mailto:publicinformationsservices@tssa.org)) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a cheque made payable to TSSA.

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.

Thank you and have a great day!

Regards,

Sarah Quibell

Public Information Services

TECHNICAL STANDARDS & SAFETY AUTHORITY  
"Putting Public Safety First"  
14th Floor, Centre Tower  
3300 Bloor Street West  
Toronto, ON M8X 2X4

[www.tssa.org](http://www.tssa.org)

Toll-Free: 1-877-682-8772

On Tue, Sep 16, 2014 at 10:38 PM, Lackey, Jillian <[Jillian\\_Lackey@golder.com](mailto:Jillian_Lackey@golder.com)> wrote:

Hello,

Could you please perform a TSSA database search for any underground storage tanks, registered fuel tanks, outstanding instructions, incident reports, fuel oil spills or contaminations records for the following properties:

1. 210 Huntmar Drive, Kanata, Ontario
2. 211 Huntmar Drive, Kanata, Ontario
3. 173 Huntmar Drive, Kanata, Ontario
4. 895 Palladium Drive, Kanata, Ontario
5. 1660 Maple Grove Road, Kanata, Ontario
6. 180 Huntmar Drive, Kanata, Ontario
7. 225 Huntmar Drive, Kanata, Ontario
8. 1655 Maple Grove Road, Kanata, Ontario

Kindest Regards,  
Jill

---

**Jillian Lackey** | Junior Environmental Consultant | **Golder Associates Ltd.**

32 Steacie Drive, Kanata, Ontario, Canada K2K 2A9

**T:** [+1 \(613\) 592 9600](tel:+16135929600) | **D:** [+1 \(613\) 592 9600 x4362](tel:+16135929600x4362) | **F:** [+1 \(613\) 592 9601](tel:+16135929601) | **C:** [+1 \(613\) 790 2812](tel:+16137902812) | **E:**

[Jillian\\_Lackey@golder.com](mailto:Jillian_Lackey@golder.com) | [www.golder.com](http://www.golder.com)

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## Dumas, Melissa

---

**From:** plal@tssa.org on behalf of Public Information Services  
<publicinformationservices@tssa.org>  
**Sent:** Friday, September 19, 2014 10:18 AM  
**To:** Lackey, Jillian  
**Subject:** Re: FW: TSSA Search - 130 Huntmar Drive, Kanata, Ontario

Hi Jillian:

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail ([publicinformationservices@tssa.org](mailto:publicinformationservices@tssa.org)) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Thank you and have a great day!

Prem  
Public Information Services

"Putting Public Safety First"

Technical Standards and Safety Authority  
14th Floor, Centre Tower  
3300 Bloor Street West  
Toronto, ON M8X 2X4

Toll-Free: 1-877-682-8772  
Email: [publicinformationservices@tssa.org](mailto:publicinformationservices@tssa.org)  
Web Site: [www.tssa.org](http://www.tssa.org)

On Thu, Sep 18, 2014 at 7:48 PM, Lackey, Jillian <[Jillian\\_Lackey@golder.com](mailto:Jillian_Lackey@golder.com)> wrote:

Hello,

I submitted the request below last week and do not think that I have received a response yet. Was one sent? I may have missed it.

Kindest Regards,

Jill

---

From: Lackey, Jillian  
Sent: Friday, September 12, 2014 1:14 PM  
To: TSSA Public Information Services  
Subject: TSSA Search - 130 Huntmar Drive, Kanata, Ontario

Hello,

Could you please perform a TSSA database search for any underground storage tanks, registered fuel tanks, outstanding instructions, incident reports, fuel oil spills or contaminations records for the property located at **130 Huntmar Drive**, Kanata, Ontario.

Kindest Regards,

Jill

---

**Jillian Lackey** | Junior Environmental Consultant | **Golder Associates Ltd.**  
32 Steacie Drive, Kanata, Ontario, Canada K2K 2A9  
**T:** [+1 \(613\) 592 9600](tel:+16135929600) | **D:** [+1 \(613\) 592 9600 x4362](tel:+16135929600x4362) | **F:** [+1 \(613\) 592 9601](tel:+16135929601) | **C:** [+1 \(613\) 790 2812](tel:+16137902812) | **E:**  
[Jillian\\_Lackey@golder.com](mailto:Jillian_Lackey@golder.com) | [www.golder.com](http://www.golder.com)

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# **APPENDIX C**

## **EcoLog ERIS Report, HEIRS Report**

**ERIS**  
ENVIRONMENTAL RISK INFORMATION SERVICE



# DATABASE REPORT



**Project Property:** *Urbandale Kanata Phase 1  
130 Huntmar Drive  
Kanata ON  
1406495*

**P.O. Number**

**Report Type:** *Quote - Custom-Build Your Own Report*

**Order #:** *20140820021*

**Requested by:** *Golder Associates Ltd.*

**Date:** *August 26, 2014*

**Ecolog ERIS Ltd.**  
Environmental Risk Information  
Service Ltd. (ERIS)  
A division of Glacier Media Inc.  
P: 1.866.517.5204  
E: info@erisinfo.com  
**www.erisinfo.com**

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## **Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY**

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

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# Executive Summary

## **Property Information:**

**Project Property:** *Urbandale Kanata Phase 1  
130 Huntmar Drive Kanata ON*

**P.O. Number:** *1406495*

## **Order Information:**

**Order No.:** *20140820021*

**Date Requested:** *27/08/2014*

**Requested by:** *Golder Associates Ltd.*

**Report Type:** *Quote - Custom-Build Your Own Report*

## **Additional Products:**

**Aerial Photographs** *National Collection - Digital (PDF)*

# Executive Summary: Report Summary

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.25km</b>	<b>Total</b>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking &amp; Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	22	22
CA	<i>Certificates of Approval</i>	Y	0	2	2
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	1	1
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	3	3
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EXP	<i>List of TSSA Expired Facilities</i>	Y	0	4	4
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries &amp; Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	7	7
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	2	2
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	22	22
HINC	<i>TSSA Historic Incidents</i>	Y	0	3	3
IAFT	<i>Indian &amp; Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defence &amp; Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defence &amp; Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence &amp; Canadian Forces Waste Disposal Sites</i>	Y	0	0	0

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.25km</b>	<b>Total</b>
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
OGW	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	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	1	1
PTTW	Permit to Take Water	Y	0	1	1
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	7	7
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA 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	1	9	10
<b>Total:</b>			1	85	86

# Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist m</i>	<i>Elev diff m</i>	<i>Page Number</i>
<a href="#">1</a>	WWIS		lot 1 con 1 ON	-/0.0	101.55	<a href="#">20</a>

# Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist m</i>	<i>Elev diff m</i>	<i>Page Number</i>
<a href="#">2</a>	BORE		ON	SSW/4.3	102.44	<a href="#">20</a>
<a href="#">3</a>	WWIS		lot 1 con 1 ON	SW/36.0	102.30	<a href="#">21</a>
<a href="#">4</a>	WWIS		lot 1 con 1 ON	SSW/42.0	103.00	<a href="#">21</a>
<a href="#">5</a>	SPL	City of Ottawa	1655 Maplegrove Ave Ottawa ON	SE/8.9	100.19	<a href="#">21</a>
<a href="#">6</a>	BORE		ON	E/19.4	98.00	<a href="#">22</a>
<a href="#">7</a>	BORE		ON	ENE/74.0	96.94	<a href="#">22</a>
<a href="#">8</a>	BORE		ON	E/3.9	97.00	<a href="#">23</a>
<a href="#">9</a>	BORE		ON	E/50.6	96.92	<a href="#">23</a>
<a href="#">10</a>	PTTW	Mattamy (Fairwinds) Limited	North of Maple Grove Road and West of Huntmar Drive Lot: 1, Concession: 1 Ottawa ON	S/6.0	102.00	<a href="#">24</a>
<a href="#">11</a>	ECA	Mattamy (Fairwinds North) Limited	123 Huntmar Dr Ottawa ON K2S 1B9	SW/150.1	103.00	<a href="#">24</a>
<a href="#">12</a>	WWIS		lot 2 con 1 ON	WNW/45.3	100.00	<a href="#">24</a>
<a href="#">13</a>	HINC		162 HARMATTAN AVENUE STITTSVILLE ON K2S 0G3	SE/95.6	99.83	<a href="#">25</a>
<a href="#">14</a>	BORE		ON	E/85.9	96.00	<a href="#">25</a>
<a href="#">15</a>	BORE		ON	E/59.8	96.00	<a href="#">26</a>
<a href="#">16</a>	HINC		138 HARMATTAN AVENUE KANATA ON	SSE/97.0	101.00	<a href="#">26</a>
<a href="#">17</a>	BORE		ON	WNW/33.1	100.83	<a href="#">26</a>



<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist m</b>	<b>Elev diff m</b>	<b>Page Number</b>
<a href="#">18</a>	BORE		ON	E/123.7	95.60	<a href="#">27</a>
<a href="#">19</a>	BORE		ON	ENE/162.8	95.00	<a href="#">28</a>
<a href="#">20</a>	WWIS		lot 1 con 1 ON	NE/221.7	95.00	<a href="#">28</a>
<a href="#">20</a>	WWIS		lot 1 con 1 ON	NE/221.7	95.00	<a href="#">29</a>
<a href="#">20</a>	WWIS		lot 1 con 1 ON	NE/221.7	95.00	<a href="#">29</a>
<a href="#">20</a>	WWIS		lot 1 con 1 ON	NE/221.7	95.00	<a href="#">30</a>
<a href="#">20</a>	WWIS		lot 1 con 1 ON	NE/221.7	95.00	<a href="#">31</a>
<a href="#">21</a>	BORE		ON	E/149.5	95.00	<a href="#">31</a>
<a href="#">22</a>	BORE		ON	ENE/203.2	95.00	<a href="#">32</a>
<a href="#">23</a>	BORE		ON	E/139.8	95.00	<a href="#">32</a>
<a href="#">24</a>	EHS		173 Huntmar Drive Ottawa ON K2S 1B9	WSW/232.8	103.00	<a href="#">33</a>
<a href="#">25</a>	BORE		ON	NE/241.0	95.00	<a href="#">33</a>
<a href="#">26</a>	BORE		ON	ENE/238.3	95.00	<a href="#">33</a>
<a href="#">27</a>	EXP	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">34</a>
<a href="#">27</a>	EXP	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON	E/137.7	95.00	<a href="#">34</a>
<a href="#">27</a>	EXP	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">34</a>
<a href="#">27</a>	EXP	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON	E/137.7	95.00	<a href="#">34</a>
<a href="#">27</a>	FST	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">35</a>
<a href="#">27</a>	FST	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">35</a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist m</b>	<b>Elev diff m</b>	<b>Page Number</b>
<a href="#">27</a>	FST	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">35</a>
<a href="#">27</a>	FSTH	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">36</a>
<a href="#">27</a>	FSTH	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">36</a>
<a href="#">27</a>	GEN	OTTAWA-CALRLETON, REG. MUN. OF 29-602	1655 MAPLE GROVE, KANATA C/O 111 LISGAR ST., CARTIER SQUARE OTTAWA ON K2V 1B7	E/137.7	95.00	<a href="#">36</a>
<a href="#">27</a>	GEN	City of Ottawa	1655 Maple Grove Rd Ottawa ON K2V 1B7	E/137.7	95.00	<a href="#">36</a>
<a href="#">27</a>	GEN	OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON	E/137.7	95.00	<a href="#">37</a>
<a href="#">27</a>	GEN	OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">37</a>
<a href="#">27</a>	GEN	OTTAWA-(SEE & USE ON0136225)ICIPALITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">38</a>
<a href="#">27</a>	GEN	OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">39</a>
<a href="#">27</a>	GEN	OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">40</a>
<a href="#">27</a>	GEN	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">41</a>
<a href="#">27</a>	GEN	OTTAWA, CITY OF	1655 MAPLE ROAD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">41</a>
<a href="#">27</a>	GEN	City of Ottawa	1655 Maplegrove Road Kanata ON K2V 1B7	E/137.7	95.00	<a href="#">42</a>
<a href="#">27</a>	PRT	REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : DO	1655 MAPLE GROVE RD KANATA ON K2V 1B7	E/137.7	95.00	<a href="#">43</a>
<a href="#">28</a>	GEN	OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	E/139.2	95.00	<a href="#">43</a>
<a href="#">28</a>	GEN	OTTAWA-CARLETON, REG. MUN. OF	1655 MAPLE GROVE KANATA ON K2V 1B7	E/139.2	95.00	<a href="#">44</a>
<a href="#">28</a>	GEN	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	1655 MAPLE GROVE KANATA ON K2V 1B7	E/139.2	95.00	<a href="#">45</a>
<a href="#">28</a>	GEN	OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	E/139.2	95.00	<a href="#">45</a>
<a href="#">29</a>	BORE		ON	ENE/233.0	95.00	<a href="#">46</a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist m</b>	<b>Elev diff m</b>	<b>Page Number</b>
<a href="#">30</a>	CA	PALLADIUM CORPORATION	PALLADIUM DR./CYCLONE TAYLOR KANATA CITY ON	N/108.8	96.00	<a href="#">46</a>
<a href="#">31</a>	BORE		ON	ENE/244.3	95.00	<a href="#">46</a>
<a href="#">32</a>	BORE		ON	ENE/223.6	95.00	<a href="#">47</a>
<a href="#">33</a>	SCT	Brian Strevens Communications	259 Helm Cir Stittsville ON K2S 0G2	SE/192.1	100.00	<a href="#">47</a>
<a href="#">34</a>	HINC		202 MISTRAL WAY KANATA ON	S/129.5	102.00	<a href="#">48</a>
<a href="#">35</a>	GEN	CITY OF OTTAWA POLICE SERVICES	211 HUNTMAR DRIVE KANATA ON	W/121.6	101.00	<a href="#">48</a>
<a href="#">36</a>	BORE		ON	E/186.0	94.46	<a href="#">48</a>
<a href="#">37</a>	BORE		ON	ENE/221.0	95.00	<a href="#">49</a>
<a href="#">38</a>	GEN	SkyWave Mobile Communications	750 Palladium Drive Kanata ON	N/173.4	96.00	<a href="#">49</a>
<a href="#">38</a>	GEN	SkyWave Mobile Communications	750 Palladium Drive Kanata ON	N/173.4	96.00	<a href="#">50</a>
<a href="#">38</a>	GEN	Trillium Photonics Inc.	750 Palladium Drive Ottawa ON K2V 1C7	N/173.4	96.00	<a href="#">50</a>
<a href="#">38</a>	SCT	Vocantas Inc.	750 Palladium Dr Suite 200 Kanata ON K2V 1C7	N/173.4	96.00	<a href="#">50</a>
<a href="#">38</a>	SCT	Spirent Communications	750 Palladium Dr Kanata ON K2V 1C7	N/173.4	96.00	<a href="#">51</a>
<a href="#">38</a>	SCT	Rohde & Schwarz Canada Inc.	750 Palladium Dr Suite 102 Kanata ON K2V 1C7	N/173.4	96.00	<a href="#">51</a>
<a href="#">38</a>	SCT	Trigence Corp.	750 Palladium Dr Suite 210 Ottawa ON K2V 1C7	N/173.4	96.00	<a href="#">51</a>
<a href="#">38</a>	SCT	AppZero Corp.	750 Palladium Dr Suite 210 Kanata ON K2V 1C7	N/173.4	96.00	<a href="#">51</a>
<a href="#">38</a>	SCT	Spirent Communications - DSL Division	750 Palladium Dr Kanata ON K2V 1C7	N/173.4	96.00	<a href="#">52</a>
<a href="#">39</a>	BORE		ON	E/217.7	95.00	<a href="#">52</a>
<a href="#">40</a>	EHS		700 palladium drive n/a ON K2V 1C6	NNE/224.9	95.00	<a href="#">52</a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist m</b>	<b>Elev diff m</b>	<b>Page Number</b>
<a href="#">40</a>	EHS		700 Palladium Drive Kanata ON K2V 1C6	NNE/224.9	95.00	<a href="#">52</a>
<a href="#">40</a>	GEN	DRS Technologies Canada Ltd	700 PALLADIUM DRIVE KANATA ON K2V 1C6	NNE/224.9	95.00	<a href="#">53</a>
<a href="#">40</a>	GEN	DRS TECHNOLOGIES INC.	700 PALLADIUM DRIVE KANATA ON K2V 1C6	NNE/224.9	95.00	<a href="#">53</a>
<a href="#">40</a>	GEN	DRS Technologies Canada	700 Palladium Drive Kanata ON K2V 1C6	NNE/224.9	95.00	<a href="#">53</a>
<a href="#">40</a>	GEN	Dundee Reality Management Corp.	700 Palladium Dr Kanata ON K2V 1C6	NNE/224.9	95.00	<a href="#">53</a>
<a href="#">41</a>	BORE		ON	WNW/177.2	101.00	<a href="#">54</a>
<a href="#">41</a>	WWIS		lot 2 con 1 ON	WNW/177.2	101.00	<a href="#">54</a>
<a href="#">42</a>	CA	Ultramar Ltd.	225 Huntmar Dr Ottawa ON K2S 1B9	WNW/211.0	101.00	<a href="#">55</a>
<a href="#">43</a>	FST	CST CANADA CO	225 HUNTMAR DR OTTAWA ON K2S 1B9	WNW/214.5	101.00	<a href="#">55</a>
<a href="#">43</a>	FST	CST CANADA CO	225 HUNTMAR DR OTTAWA ON K2S 1B9	WNW/214.5	101.00	<a href="#">55</a>
<a href="#">43</a>	FST	CST CANADA CO	225 HUNTMAR DR OTTAWA ON K2S 1B9	WNW/214.5	101.00	<a href="#">56</a>
<a href="#">43</a>	FST	CST CANADA CO	225 HUNTMAR DR OTTAWA ON K2S 1B9	WNW/214.5	101.00	<a href="#">56</a>

# Executive Summary: Summary By Data Source

## **BORE - Borehole**

A search of the BORE database, dated 1875-Aug 2011 has found that there are 22 BORE site(s) within approximately 0.25 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance m</u></b>	<b><u>Map Key</u></b>
ON		4.3	<a href="#"><u>2</u></a>
ON		19.4	<a href="#"><u>6</u></a>
ON		74.0	<a href="#"><u>7</u></a>
ON		3.9	<a href="#"><u>8</u></a>
ON		50.6	<a href="#"><u>9</u></a>
ON		85.9	<a href="#"><u>14</u></a>
ON		59.8	<a href="#"><u>15</u></a>
ON		33.1	<a href="#"><u>17</u></a>
ON		123.7	<a href="#"><u>18</u></a>
ON		162.8	<a href="#"><u>19</u></a>
ON		149.5	<a href="#"><u>21</u></a>
ON		203.2	<a href="#"><u>22</u></a>
ON		139.8	<a href="#"><u>23</u></a>
ON		241.0	<a href="#"><u>25</u></a>
ON		238.3	<a href="#"><u>26</u></a>
ON		233.0	<a href="#"><u>29</u></a>
ON		244.3	<a href="#"><u>31</u></a>
ON		223.6	<a href="#"><u>32</u></a>
ON		186.0	<a href="#"><u>36</u></a>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	ON	221.0	<a href="#">37</a>
	ON	217.7	<a href="#">39</a>
	ON	177.2	<a href="#">41</a>

### **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.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
PALLADIUM CORPORATION	PALLADIUM DR./CYCLONE TAYLOR KANATA CITY ON	108.8	<a href="#">30</a>
Ultramar Ltd.	225 Huntmar Dr Ottawa ON K2S 1B9	211.0	<a href="#">42</a>

### **ECA - Environmental Compliance Approval**

A search of the ECA database, dated Oct 31, 2011-Jul 2014 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
Mattamy (Fairwinds North) Limited	123 Huntmar Dr Ottawa ON K2S 1B9	150.1	<a href="#">11</a>

### **EHS - ERIS Historical Searches**

A search of the EHS database, dated 1999-Mar 2013 has found that there are 3 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	173 Huntmar Drive Ottawa ON K2S 1B9	232.8	<a href="#">24</a>
	700 palladium drive n/a ON K2V 1C6	224.9	<a href="#">40</a>
	700 Palladium Drive Kanata ON K2V 1C6	224.9	<a href="#">40</a>

### **EXP - List of TSSA Expired Facilities**

A search of the EXP database, dated Current to May 2013 has found that there are 4 EXP site(s) within approximately 0.25 kilometers of the project property.



<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON	137.7	<a href="#">27</a>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON	137.7	<a href="#">27</a>

### **FST - Fuel Storage Tank**

A search of the FST database, dated 2010-May 2013 has found that there are 7 FST site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
CST CANADA CO	225 HUNTMAR DR OTTAWA ON K2S 1B9	214.5	<a href="#">43</a>
CST CANADA CO	225 HUNTMAR DR OTTAWA ON K2S 1B9	214.5	<a href="#">43</a>
CST CANADA CO	225 HUNTMAR DR OTTAWA ON K2S 1B9	214.5	<a href="#">43</a>
CST CANADA CO	225 HUNTMAR DR OTTAWA ON K2S 1B9	214.5	<a href="#">43</a>

### **FSTH - Fuel Storage Tank - Historic**

A search of the FSTH database, dated Pre-Jan 2010\* has found that there are 2 FSTH site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	137.7	<a href="#">27</a>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE	1655 MAPLE GROVE RD KANATA ON K2V 1B7	137.7	<a href="#">27</a>

### **GEN - Ontario Regulation 347 Waste Generators Summary**

A search of the GEN database, dated 1986-Apr 2014 has found that there are 22 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
OTTAWA-CARLETON, REG. MUN. OF 29-602	1655 MAPLE GROVE, KANATA C/O 111 LISGAR ST., CARTIER SQUARE OTTAWA ON K2V 1B7	137.7	<a href="#">27</a>
City of Ottawa	1655 Maple Grove Rd Ottawa ON K2V 1B7	137.7	<a href="#">27</a>
OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON	137.7	<a href="#">27</a>
OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
OTTAWA-(SEE & USE ON0136225)ICIPALITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
OTTAWA, CITY OF	1655 MAPLE ROAD KANATA ON K2V 1B7	137.7	<a href="#">27</a>
City of Ottawa	1655 Maplegrove Road Kanata ON K2V 1B7	137.7	<a href="#">27</a>
OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	139.2	<a href="#">28</a>
OTTAWA-CARLETON, REG. MUN. OF	1655 MAPLE GROVE KANATA ON K2V 1B7	139.2	<a href="#">28</a>
OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	1655 MAPLE GROVE KANATA ON K2V 1B7	139.2	<a href="#">28</a>
OTTAWA, CITY OF	1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	139.2	<a href="#">28</a>
CITY OF OTTAWA POLICE SERVICES	211 HUNTMAR DRIVE KANATA ON	121.6	<a href="#">35</a>
SkyWave Mobile Communications	750 Palladium Drive Kanata ON	173.4	<a href="#">38</a>
SkyWave Mobile Communications	750 Palladium Drive Kanata ON	173.4	<a href="#">38</a>
Trillium Photonics Inc.	750 Palladium Drive Ottawa ON K2V 1C7	173.4	<a href="#">38</a>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
DRS Technologies Canada Ltd	700 PALLADIUM DRIVE KANATA ON K2V 1C6	224.9	<a href="#">40</a>
DRS TECHNOLOGIES INC.	700 PALLADIUM DRIVE KANATA ON K2V 1C6	224.9	<a href="#">40</a>
DRS Technologies Canada	700 Palladium Drive Kanata ON K2V 1C6	224.9	<a href="#">40</a>
Dundee Reality Management Corp.	700 Palladium Dr Kanata ON K2V 1C6	224.9	<a href="#">40</a>

### **HINC - TSSA Historic Incidents**

A search of the HINC database, dated 2006-June 2009 has found that there are 3 HINC site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	162 HARMATTAN AVENUE STITTSVILLE ON K2S 0G3	95.6	<a href="#">13</a>
	138 HARMATTAN AVENUE KANATA ON	97.0	<a href="#">16</a>
	202 MISTRAL WAY KANATA ON	129.5	<a href="#">34</a>

### **PRT - Private and Retail Fuel Storage Tanks**

A search of the PRT database, dated 1989-1996\* has found that there are 1 PRT site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : DO	1655 MAPLE GROVE RD KANATA ON K2V 1B7	137.7	<a href="#">27</a>

### **PTTW - Permit to Take Water**

A search of the PTTW database, dated 1994-Jul 2014 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
Mattamy (Fairwinds) Limited	North of Maple Grove Road and West of Huntmar Drive Lot: 1, Concession: 1 Ottawa ON	6.0	<a href="#">10</a>

### **SCT - Scott's Manufacturing Directory**

A search of the SCT database, dated 1992-Mar 2011 has found that there are 7 SCT site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
Brian Strevens Communications	259 Helm Cir Stittsville ON K2S 0G2	192.1	<a href="#">33</a>
Vocantas Inc.	750 Palladium Dr Suite 200 Kanata ON K2V 1C7	173.4	<a href="#">38</a>
Spirent Communications - DSL Division	750 Palladium Dr Kanata ON K2V 1C7	173.4	<a href="#">38</a>
Spirent Communications	750 Palladium Dr Kanata ON K2V 1C7	173.4	<a href="#">38</a>
Rohde & Schwarz Canada Inc.	750 Palladium Dr Suite 102 Kanata ON K2V 1C7	173.4	<a href="#">38</a>
Trigence Corp.	750 Palladium Dr Suite 210 Ottawa ON K2V 1C7	173.4	<a href="#">38</a>
AppZero Corp.	750 Palladium Dr Suite 210 Kanata ON K2V 1C7	173.4	<a href="#">38</a>

### **SPL - Ontario Spills**

A search of the SPL database, dated 1988-Feb 2014 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

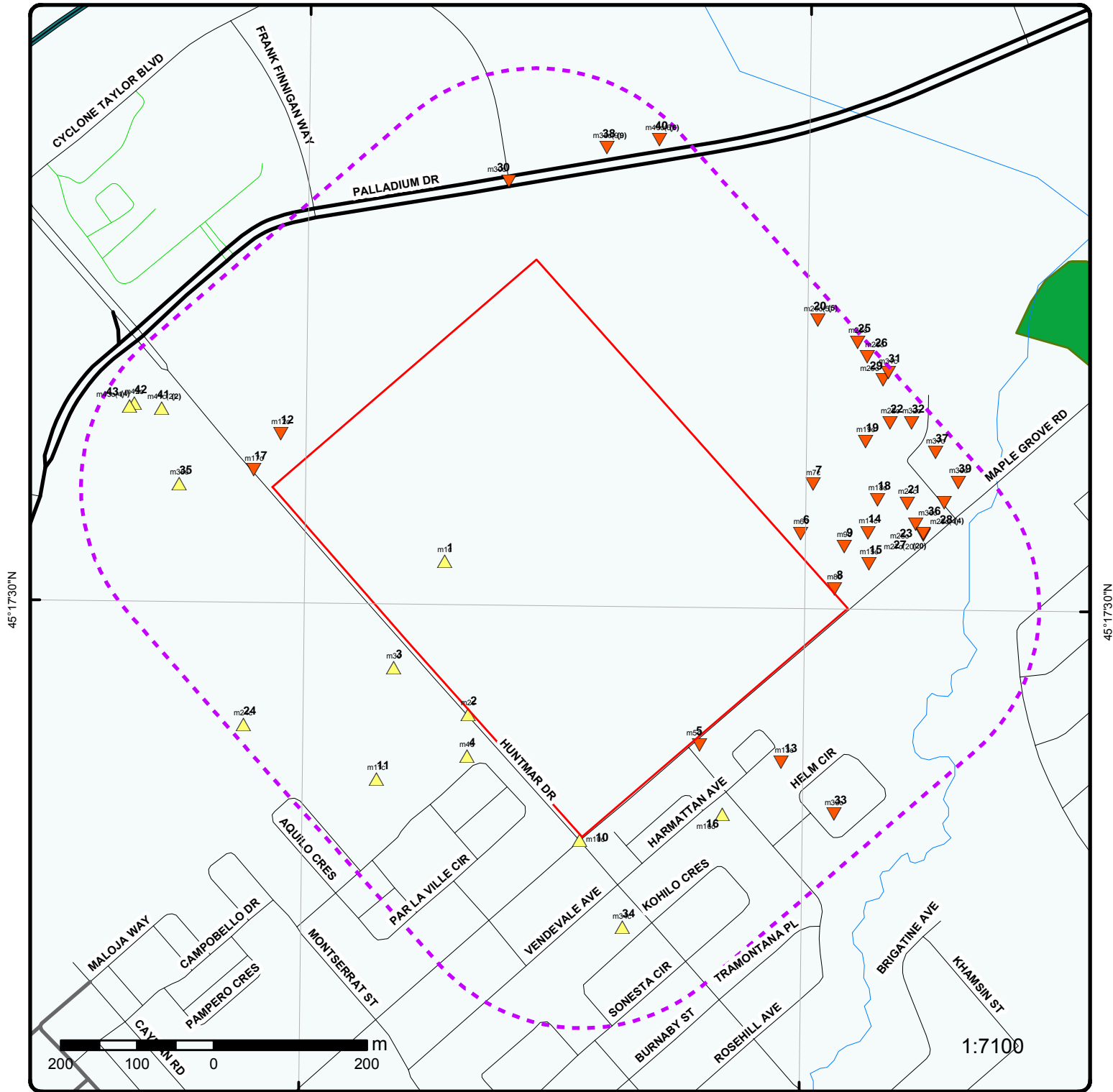
<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
City of Ottawa	1655 Maplegrove Ave Ottawa ON	8.9	<a href="#">5</a>

### **WWIS - Water Well Information System**

A search of the WWIS database, dated 1955-Mar 2014 has found that there are 10 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	lot 1 con 1 ON	0.0	<a href="#">1</a>
	lot 1 con 1 ON	36.0	<a href="#">3</a>
	lot 1 con 1 ON	42.0	<a href="#">4</a>
	lot 2 con 1 ON	45.3	<a href="#">12</a>
	lot 1 con 1 ON	221.7	<a href="#">20</a>
	lot 1 con 1 ON	221.7	<a href="#">20</a>
	lot 1 con 1 ON	221.7	<a href="#">20</a>
	lot 1 con 1 ON	221.7	<a href="#">20</a>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	lot 1 con 1 ON	221.7	<a href="#"><u>20</u></a>
	lot 2 con 1 ON	177.2	<a href="#"><u>41</u></a>



# Map

Order No: 20140820021

Address: 130 Huntmar Drive, Kanata, ON

Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range
Eris Sites with Lower Elevation	Local road	Abandoned Line	Park or Sports Field
Eris Sites with Unknown Elevation	Trail		Other Recreation Area
	Proposed Road		
	Ferry Route/Ice Road		



75°55'W

45°18'N

45°18'N

45°17'N

45°17'N



# Aerial

Order No: 20140820021

Address: 130 Huntmar Drive, Kanata, ON

Source: ESRI World Imagery, Updated December 2012

© Ecolog ERIS Ltd

# Detail Report

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<u>1</u>	1 of 1	-/0.0	101.6	<b>lot 1 con 1 ON</b>	<b>WWIS</b>
Well ID: 1515641		Lot: 001		Concession Name: CON	
Concession: 01		Municipality: MARCH TOWNSHIP		Northing Nad83: 5015822	
County: OTTAWA-CARLETON		Utm Reliability: margin of error : 30 m - 100 m		Construction Date: 30-SEP-76	
Easting Nad83: 427650.6		Well Depth: 120 ft		Static Water Level: 70 ft	
Zone: 18		Clear/Cloudy: CLEAR		Final Well Status: Water Supply	
Primary Water Use: Domestic		Flowing (y/n): N		Elevation Reliability:	
Sec. Water Use:		Elevation Reliability:		Overburden/Bedrock: Bedrock	
Pump Rate: 4 GPM		Casing Material: FRESH			
Flow Rate:					
Specific Capacity:					
Construction Method: Rotary (Air)					
Elevation (m): 101.18					
Depth to Bedrock: 58					
Water Type: FRESH, Not stated					
--- Details ---					
Thickness: BLUE		Original Depth: 57 ft			
Material Colour: CLAY		Material: 57 ft			
+					
Thickness:		Original Depth: 58 ft			
Material Colour: FINE SAND		Material: 1 ft			
+					
Thickness:		Original Depth: 120 ft			
Material Colour: LIMESTONE		Material: 62 ft			
<u>2</u>	1 of 1	SSW/4.3	102.4	<b>ON</b>	<b>BORE</b>
Borehole ID: 609636		Type: Borehole			
Use:		Status:			
Drill Method:		UTM Zone: 18			
Easting: 427681.000		Northing: 5015622.000			
Location Accuracy:		Orig. Ground Elev m: 102.400002			
Elev. Reliability Note:		DEM Ground Elev m: 101.500000			
Total Depth m: -999.000000		Primary Name:			
Township:		Concession:			
Lot:		Municipality:			
Completion Date: 1970-AUG		Static Water Level:			
Primary Water Use:		Sec. Water Use:			
--- Details ---					
Stratum ID: 218383688		Top Depth m: 0			
Bottom Depth m: 2.700000		Stratum Desc: UNSPECIFIED. SEISMIC VELOCITY = 1200.			
+					
Stratum ID: 218383689		Top Depth m: 2.700000			
Bottom Depth m: 15.500000		Stratum Desc: UNSPECIFIED. SEISMIC VELOCITY =			

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
					5500.
+					
Stratum ID:	218383690			Top Depth m:	15.500000
Bottom Depth m:				Stratum Desc:	BEDROCK. SEISMIC VELOCITY = 20500. BEDROCK. SEISMIC VELOCITY = 17000. 0001802203600000005
<u>3</u>	1 of 1	SW/36.0	102.3	lot 1 con 1 ON	WWIS
Well ID:	1533696			Lot:	001
Concession:	01			Concession Name:	CON
County:	OTTAWA-CARLETON			Municipality:	HUNTLEY TOWNSHIP
Easting Nad83:	427584			Northing Nad83:	5015683
Zone:	18			Utm Reliability:	margin of error : 300 m - 1 km
Primary Water Use:				Construction Date:	02-OCT-02
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:	Other Method			Flowing (y/n):	
Elevation (m):	101.21			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	No formation data
Water Type:				Casing Material:	
<u>4</u>	1 of 1	SSW/42.0	103.0	lot 1 con 1 ON	WWIS
Well ID:	1513317			Lot:	001
Concession:	01			Concession Name:	CON
County:	OTTAWA-CARLETON			Municipality:	HUNTLEY TOWNSHIP
Easting Nad83:	427679.6			Northing Nad83:	5015567
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	28-MAR-73
Sec. Water Use:				Well Depth:	108 ft
Pump Rate:	20 GPM			Static Water Level:	0 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	101.49			Elevation Reliability:	
Depth to Bedrock:	55			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	GREY			Original Depth:	35 ft
Material Colour:	CLAY			Material:	35 ft
+					
Thickness:	GREY			Original Depth:	55 ft
Material Colour:	CLAY			Material:	20 ft
+					
Thickness:	GREY			Original Depth:	108 ft
Material Colour:	LIMESTONE			Material:	53 ft
<u>5</u>	1 of 1	SE/8.9	100.2	City of Ottawa	SPL



Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
				<b>1655 Maplegrove Ave Ottawa ON</b>	
Ref No.:		2732-6A4MKW			
Incident Dt:		3/2/2005			
MOE Reported Dt:		3/2/2005			
Contaminant Name:		DIESEL FUEL			
Contaminant Quantity:					
Incident Summary:		Maplegrove Ave - diesel to grd			
Incident Cause:		Pipe Or Hose Leak			
Incident Reason:		Equipment Failure			
Nature of Impact:		Soil Contamination			
Receiving Medium:		Land			
Environmental Impact:		Possible			

<u>6</u>	1 of 1	E/19.4	98.0	ON	BORE
Borehole ID:	807499			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428116.055			Northing:	5015858.488
Location Accuracy:				Orig. Ground Elev m:	97.699997
Elev. Reliability Note:				DEM Ground Elev m:	97
Total Depth m:	1.500000			Primary Name:	AH 6
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-19			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593118			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593119			Top Depth m:	0.200000
Bottom Depth m:	1.500000			Stratum Desc:	Grey-Brown Weathered Crust Silty Clay Occasional: Sa

<u>7</u>	1 of 1	ENE/74.0	96.9	ON	BORE
Borehole ID:	807482			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428131.905			Northing:	5015922.687
Location Accuracy:				Orig. Ground Elev m:	97.199997
Elev. Reliability Note:				DEM Ground Elev m:	96.400002
Total Depth m:	5.800000			Primary Name:	BH 4
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-19			Static Water Level:	1.200000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593069			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	218593070			Top Depth m:	0.200000
Bottom Depth m:	3.300000			Stratum Desc:	Grey-Brown Stiff to Very Stiff Weathered Crust Silty Clay Occasional: Sa
+					
Stratum ID:	218593071			Top Depth m:	3.300000
Bottom Depth m:	5.800000			Stratum Desc:	Grey Firm Silty Clay Trace: Org M Occasional: Sa
<b>8</b>	<b>1 of 1</b>	<b>E/3.9</b>	<b>97.0</b>	<b>ON</b>	<b>BORE</b>
Borehole ID:	807495			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428159.831			Northing:	5015786.180
Location Accuracy:				Orig. Ground Elev m:	98.099998
Elev. Reliability Note:				DEM Ground Elev m:	97.199997
Total Depth m:	1.500000			Primary Name:	AH 4
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-19			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593110			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593111			Top Depth m:	0.200000
Bottom Depth m:	1.500000			Stratum Desc:	Grey-Brown Weathered Crust Silty Clay Occasional: Sa
<b>9</b>	<b>1 of 1</b>	<b>E/50.6</b>	<b>96.9</b>	<b>ON</b>	<b>BORE</b>
Borehole ID:	807498			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428172.774			Northing:	5015841.934
Location Accuracy:				Orig. Ground Elev m:	97.400002
Elev. Reliability Note:				DEM Ground Elev m:	96.500000
Total Depth m:	1.500000			Primary Name:	AH 5
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-19			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593116			Top Depth m:	0
Bottom Depth m:	0.600000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593117			Top Depth m:	0.600000
Bottom Depth m:	1.500000			Stratum Desc:	Grey-Brown Weathered Crust Silty Clay Occasional: Sa

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<a href="#">10</a>	1 of 1	S/6.0	102.0	<b>Mattamy (Fairwinds) Limited North of Maple Grove Road and West of Huntmar Drive Lot: 1, Concession: 1 Ottawa ON</b>	<b>PTTW</b>

Year: 2011  
 EBR Registry No.: 011-3719  
 Ministry Ref. No.: 3640-8HCJ8K  
 Type: Instrument Decision  
 Instrument Type: (OWRA s. 34) - Permit to take water  
 Proposal Date: May 30, 2011  
 Location: Area 1- Fairwinds Phase 1,2,3 North - North of Maple Grove Road and West of Huntmar Drive Lot: 1, Concession: 1, Ottawa  
 Proponent Address: 123 Huntmar Drive Kanata Ontario Canada K2S 1B9

<a href="#">11</a>	1 of 1	SW/150.1	103.0	<b>Mattamy (Fairwinds North) Limited 123 Huntmar Dr Ottawa ON K2S 1B9</b>	<b>ECA</b>
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CofA Number: 7381-8W4R26  
 Date: 8/14/2012  
 Status: Approved  
 Project Type: Municipal and Private Sewage

<a href="#">12</a>	1 of 1	WNW/45.3	100.0	<b>lot 2 con 1 ON</b>	<b>WWIS</b>
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Well ID:	1513570	Lot:	002
Concession:	01	Concession Name:	CON
County:	OTTAWA-CARLETON	Municipality:	MARCH TOWNSHIP
Easting Nad83:	427436.6	Northing Nad83:	5015989
Zone:	18	Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic	Construction Date:	25-SEP-73
Sec. Water Use:		Well Depth:	260 ft
Pump Rate:	5 GPM	Static Water Level:	28 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Air Percussion	Flowing (y/n):	N
Elevation (m):	100.51	Elevation Reliability:	
Depth to Bedrock:	69	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	FRESH, MINERIAL

--- Details ---

Thickness:	BROWN	Original Depth:	25 ft
Material Colour:	CLAY	Material:	25 ft
+			
Thickness:	BLUE	Original Depth:	62 ft
Material Colour:	CLAY	Material:	37 ft
+			
Thickness:	BLUE	Original Depth:	69 ft
Material Colour:	CLAY, STONES	Material:	7 ft
+			
Thickness:	BLACK	Original Depth:	90 ft
Material Colour:	LIMESTONE	Material:	21 ft
+			

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:	GREY			Original Depth:	130 ft
Material Colour:	LIMESTONE			Material:	40 ft
+					
Thickness:	BLACK			Original Depth:	260 ft
Material Colour:	LIMESTONE			Material:	130 ft

**13**      **1 of 1**                      **SE/95.6**                      **99.8**                      **162 HARMATTAN AVENUE**                      **HINC**  
**STITTSVILLE ON K2S 0G3**

External File Num: FS INC 0803-01084  
Date of Occurrence: 3/3/2008  
Fuel Occurrence Type: Pipeline Strike  
Fuel Type Involved: Natural Gas  
Status Desc: Completed - Causal Analysis(End)  
Job Type Desc: Incident/Near-Miss Occurrence (FS)  
Oper. Type Involved: Construction Site (pipeline strike)  
Service Interruptions: Yes  
Property Damage: No  
Fuel Life Cycle Stage: Transmission, Distribution and Transportation  
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No  
Training:No Management:No Human Factors:No

Reported Details:  
Fuel Category: Gaseous Fuel  
Occurrence Type: Incident  
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)  
County Name: Ottawa  
Approx. Quant. Rel:  
Nearby body of water:  
Enter Drainage Syst.:  
Approx. Quant. Unit:  
Environmental Impact:

**14**      **1 of 1**                      **E/85.9**                      **96.0**                      **ON**                      **BORE**

Borehole ID: 807480                      Type: Borehole  
Use: Geotechnical/Geological Investigation                      Status:  
Drill Method: Hollow stem auger                      UTM Zone: 18  
Easting: 428204.011                      Northing: 5015859.851  
Location Accuracy:                      Orig. Ground Elev m: 97.199997  
Elev. Reliability Note:                      DEM Ground Elev m: 96.099998  
Total Depth m: 5.800000                      Primary Name: BH 3  
Township:                      Concession:  
Lot:                      Municipality:  
Completion Date: 1990-JUN-18                      Static Water Level: 1.200000  
Primary Water Use:                      Sec. Water Use:

--- Details ---

Stratum ID: 218593057                      Top Depth m: 0  
Bottom Depth m: 0.200000                      Stratum Desc: Topsoil

+

Stratum ID: 218593058                      Top Depth m: 0.200000  
Bottom Depth m: 4                      Stratum Desc: Grey-Brown Stiff to Very Stiff  
Weathered Crust Silty Clay Occasional:  
Sa

+



Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	218593059			Top Depth m:	4
Bottom Depth m:	5.800000			Stratum Desc:	Grey Firm Silty Clay Occasional: Sa

**15**      **1 of 1**                      **E/59.8**                      **96.0**                      **ON**                      **BORE**

Borehole ID:	807492	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	
Drill Method:	Hollow stem auger	UTM Zone:	18
Easting:	428205.288	Northing:	5015819.331
Location Accuracy:		Orig. Ground Elev m:	97.500000
Elev. Reliability Note:		DEM Ground Elev m:	96.599998
Total Depth m:	1.500000	Primary Name:	AH 3
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	1990-JUN-19	Static Water Level:	
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	218593103	Top Depth m:	0
Bottom Depth m:	0.200000	Stratum Desc:	Topsoil
+			
Stratum ID:	218593104	Top Depth m:	0.200000
Bottom Depth m:	1.500000	Stratum Desc:	Grey-Brown Weathered Crust Silty Clay Occasional: Sa

**16**      **1 of 1**                      **SSE/97.0**                      **101.0**                      **138 HARMATTAN AVENUE**                      **HINC**  
**KANATA ON**

External File Num:	FS INC 0711-06712			
Date of Occurrence:	11/1/2007			
Fuel Occurrence Type:	Pipeline Strike			
Fuel Type Involved:	Natural Gas			
Status Desc:	Completed - Causal Analysis(End)			
Job Type Desc:	Incident/Near-Miss Occurrence (FS)			
Oper. Type Involved:	Construction Site (pipeline strike)			
Service Interruptions:	Yes			
Property Damage:	No			
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation			
Root Cause:	Root Cause: Equipment/Material/Component:No    Procedures:Yes    Maintenance:No    Design:No Training:No    Management:No    Human Factors:No			

Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

**17**      **1 of 1**                      **WNW/33.1**                      **100.8**                      **ON**                      **BORE**

Borehole ID:	609642	Type:	Borehole
Use:		Status:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Drill Method: Easting: 427401.000 Location Accuracy: Elev. Reliability Note: Total Depth m: -999.000000 Township: Lot: Completion Date: 1970-AUG Primary Water Use:				UTM Zone: 18 Northing: 5015942.000 Orig. Ground Elev m: 102.699997 DEM Ground Elev m: 101 Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	
--- Details ---					
Stratum ID: 218383702				Top Depth m: 0	
Bottom Depth m: 2.400000				Stratum Desc: UNSPECIFIED. SEISMIC VELOCITY = 1400.	
+					
Stratum ID: 218383703				Top Depth m: 2.400000	
Bottom Depth m: 13.700000				Stratum Desc: UNSPECIFIED. SEISMIC VELOCITY = 4600.	
+					
Stratum ID: 218383704				Top Depth m: 13.700000	
Bottom Depth m:				Stratum Desc: BEDROCK. SEISMIC VELOCITY = 15000. BEDROCK. SEISMIC VELOCITY = 17000. 0001802203600000005	
<u>18</u>	1 of 1	E/123.7	95.6	ON	BORE
Borehole ID: 807477 Use: Geotechnical/Geological Investigation Drill Method: Hollow stem auger Easting: 428216.524 Location Accuracy: Elev. Reliability Note: Total Depth m: 5.800000 Township: Lot: Completion Date: 1990-JUN-18 Primary Water Use:				Type: Borehole Status: UTM Zone: 18 Northing: 5015902.614 Orig. Ground Elev m: 96.900002 DEM Ground Elev m: 95.599998 Primary Name: BH 2 Concession: Municipality: Static Water Level: 1.300000 Sec. Water Use:	
--- Details ---					
Stratum ID: 218593047				Top Depth m: 0	
Bottom Depth m: 0.200000				Stratum Desc: Topsoil	
+					
Stratum ID: 218593048				Top Depth m: 0.200000	
Bottom Depth m: 0.500000				Stratum Desc: Brown Silt - Sand	
+					
Stratum ID: 218593049				Top Depth m: 0.500000	
Bottom Depth m: 3.500000				Stratum Desc: Grey-Brown Stiff to Very Stiff Weathered Crust Silty Clay Occasional: Sa	
+					
Stratum ID: 218593050				Top Depth m: 3.500000	
Bottom Depth m: 5.800000				Stratum Desc: Grey Firm Silty Clay Occasional: Sa	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<a href="#">19</a>	1 of 1	ENE/162.8	95.0	ON	BORE
Borehole ID: 807484		Use: Geotechnical/Geological Investigation		Type: Borehole	
Drill Method: Hollow stem auger		Easting: 428200.695		Status: UTM Zone: 18	
Location Accuracy: Elev. Reliability Note:		Total Depth m: 5.800000		Northing: 5015978.902	
Township:		Lot:		Orig. Ground Elev m: 96.599998	
Completion Date: 1990-JUN-19		Primary Water Use:		DEM Ground Elev m: 95.500000	
				Primary Name: BH 5	
				Concession:	
				Municipality:	
				Static Water Level: 1.300000	
				Sec. Water Use:	
--- Details ---					
Stratum ID: 218593075		Bottom Depth m: 0.200000		Top Depth m: 0	
+				Stratum Desc: Topsoil	
Stratum ID: 218593076		Bottom Depth m: 1		Top Depth m: 0.200000	
+				Stratum Desc: Brown Silt - Sand	
Stratum ID: 218593077		Bottom Depth m: 3		Top Depth m: 1	
+				Stratum Desc: Grey-Brown Stiff to Very Stiff Weathered Crust Silty Clay Occasional: Sa	
Stratum ID: 218593078		Bottom Depth m: 5.800000		Top Depth m: 3	
				Stratum Desc: Grey Firm Silty Clay Trace: Org M Occasional: Sa	
<a href="#">20</a>	1 of 5	NE/221.7	95.0	lot 1 con 1 ON	WWIS
Well ID: 1524694		Concession: 01		Lot: 001	
County: OTTAWA-CARLETON		Easting Nad83: 428138.6		Concession Name: CON	
Zone: 18		Primary Water Use: Commerical		Municipality: MARCH TOWNSHIP	
Sec. Water Use:		Pump Rate: 80 GPM		Northing Nad83: 5016137	
Flow Rate:		Flow Rate:		Utm Reliability: unknown UTM	
Specific Capacity:		Construction Method: Rotary (Air)		Construction Date:	
Elevation (m): 94.81		Depth to Bedrock:		Well Depth: 95 ft	
Water Type: FRESH				Static Water Level: 9 ft	
				Clear/Cloudy: CLEAR	
				Final Well Status: Water Supply	
				Flowing (y/n): N	
				Elevation Reliability:	
				Overburden/Bedrock: Overburden	
				Casing Material: FRESH	
--- Details ---					
Thickness: GREY		Material Colour: CLAY, PACKED		Original Depth: 27 ft	
+				Material: 27 ft	
Thickness: BLUE		Material Colour: CLAY		Original Depth: 54 ft	
+				Material: 27 ft	
Thickness: GREY				Original Depth: 80 ft	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Material Colour:	GRAVEL, STONES, PACKED			Material:	26 ft
+					
Thickness:	BROWN			Original Depth:	95 ft
Material Colour:	COARSE SAND, COARSE GRAVEL, SILT			Material:	15 ft

<a href="#">20</a>	2 of 5	NE/221.7	95.0	lot 1 con 1 ON	WWIS
Well ID:	1527811			Lot:	001
Concession:	01			Concession Name:	CON
County:	OTTAWA-CARLETON			Municipality:	MARCH TOWNSHIP
Easting Nad83:	428138.6			Northing Nad83:	5016137
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	25-JUN-92
Sec. Water Use:	Commerical			Well Depth:	65 ft
Pump Rate:	40 GPM			Static Water Level:	-36 ft
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Rotary (Air)			Flowing (y/n):	Y
Elevation (m):	94.81			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	BROWN			Original Depth:	65 ft
Material Colour:	FINE SAND, COARSE GRAVEL			Material:	12 ft
+					
Thickness:	BLUE			Original Depth:	10 ft
Material Colour:	CLAY, DENSE			Material:	6 ft
+					
Thickness:	GREY			Original Depth:	28 ft
Material Colour:	CLAY, SOFT			Material:	18 ft
+					
Thickness:	GREY			Original Depth:	53 ft
Material Colour:	CLAY, DENSE			Material:	25 ft
+					
Thickness:	BROWN			Original Depth:	4 ft
Material Colour:	CLAY, SAND, PACKED			Material:	4 ft

<a href="#">20</a>	3 of 5	NE/221.7	95.0	lot 1 con 1 ON	WWIS
Well ID:	1527812			Lot:	001
Concession:	01			Concession Name:	CON
County:	OTTAWA-CARLETON			Municipality:	MARCH TOWNSHIP
Easting Nad83:	428138.6			Northing Nad83:	5016137
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Not Used			Construction Date:	23-JUN-92
Sec. Water Use:				Well Depth:	250 ft
Pump Rate:	50 GPM			Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Quality
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	94.81			Elevation Reliability:	
Depth to Bedrock:	110			Overburden/Bedrock:	Bedrock

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Water Type:	SALTY			Casing Material:	
--- Details ---					
Thickness:	GREY			Original Depth:	250 ft
Material Colour:	LIMESTONE, SANDSTONE, HARD			Material:	140 ft
+					
Thickness:	BROWN			Original Depth:	80 ft
Material Colour:	FINE SAND, MEDIUM GRAVEL			Material:	16 ft
+					
Thickness:	BLACK			Original Depth:	64 ft
Material Colour:	TILL, PACKED			Material:	14 ft
+					
Thickness:	BROWN			Original Depth:	11 ft
Material Colour:	CLAY, PACKED			Material:	11 ft
+					
Thickness:	GREY			Original Depth:	50 ft
Material Colour:	CLAY, DENSE			Material:	39 ft
+					
Thickness:	GREY			Original Depth:	110 ft
Material Colour:	FINE SAND, SILT			Material:	30 ft

<a href="#">20</a>	<b>4 of 5</b>	<b>NE/221.7</b>	<b>95.0</b>	<b>lot 1 con 1 ON</b>	<b>WWIS</b>
Well ID:	1520879			Lot:	001
Concession:	01			Concession Name:	CON
County:	OTTAWA-CARLETON			Municipality:	MARCH TOWNSHIP
Easting Nad83:	428138.6			Northing Nad83:	5016137
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	29-AUG-86
Sec. Water Use:				Well Depth:	138 ft
Pump Rate:	15 GPM			Static Water Level:	5 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	94.81			Elevation Reliability:	
Depth to Bedrock:	12			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BLACK			Original Depth:	130 ft
Material Colour:	GRANITE, SANDSTONE, MEDIUM-GRAINED			Material:	5 ft
+					
Thickness:	BLACK			Original Depth:	125 ft
Material Colour:	GRANITE, GRANITE, HARD			Material:	50 ft
+					
Thickness:	GREY			Original Depth:	75 ft
Material Colour:	GRANITE, HARD			Material:	63 ft
+					
Thickness:	GREY			Original Depth:	12 ft
Material Colour:	CLAY, PACKED			Material:	12 ft
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:	WHITE			Original Depth:	138 ft
Material Colour:	SANDSTONE, HARD			Material:	8 ft
<b>20</b>	<b>5 of 5</b>	<b>NE/221.7</b>	<b>95.0</b>	<b>lot 1 con 1 ON</b>	<b>WWIS</b>
Well ID:	1524697			Lot:	001
Concession:	01			Concession Name:	CON
County:	OTTAWA-CARLETON			Municipality:	MARCH TOWNSHIP
Easting Nad83:	428138.6			Northing Nad83:	5016137
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Commerical			Construction Date:	14-JUL-90
Sec. Water Use:				Well Depth:	100 ft
Pump Rate:	10 GPM			Static Water Level:	16 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	94.81			Elevation Reliability:	
Depth to Bedrock:	31			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BROWN			Original Depth:	4 ft
Material Colour:	FILL, PACKED			Material:	4 ft
+					
Thickness:	BROWN			Original Depth:	10 ft
Material Colour:	MUCK, WATER-BEARING			Material:	6 ft
+					
Thickness:	BROWN			Original Depth:	20 ft
Material Colour:	COARSE SAND, BOULDERS, COARSE GRAVEL			Material:	10 ft
+					
Thickness:	BLACK			Original Depth:	31 ft
Material Colour:	HARDPAN, BOULDERS, PACKED			Material:	11 ft
+					
Thickness:	GREY			Original Depth:	100 ft
Material Colour:	LIMESTONE, MEDIUM-GRAINED, HARD			Material:	69 ft
<b>21</b>	<b>1 of 1</b>	<b>E/149.5</b>	<b>95.0</b>	<b>ON</b>	<b>BORE</b>
Borehole ID:	807474			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428255.308			Northing:	5015897.893
Location Accuracy:				Orig. Ground Elev m:	96.699997
Elev. Reliability Note:				DEM Ground Elev m:	95.199997
Total Depth m:	5.800000			Primary Name:	BH 1
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-19			Static Water Level:	1.300000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593040			Top Depth m:	3.500000

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth m:	5.800000			Stratum Desc:	Grey Firm Silty Clay Trace: Org M Occasional: Sa
+					
Stratum ID:	218593038			Top Depth m:	0.200000
Bottom Depth m:	0.500000			Stratum Desc:	Brown Silt - Sand
+					
Stratum ID:	218593039			Top Depth m:	0.500000
Bottom Depth m:	3.500000			Stratum Desc:	Grey-Brown Stiff to Very Stiff Weathered Crust Silty Clay Occasional: Sa
+					
Stratum ID:	218593037			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil

<u>22</u>	1 of 1	ENE/203.2	95.0	ON	BORE
Borehole ID:	807501			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428232.781			Northing:	5016003.803
Location Accuracy:				Orig. Ground Elev m:	96.400002
Elev. Reliability Note:				DEM Ground Elev m:	95.400002
Total Depth m:	1.500000			Primary Name:	AH 7
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-19			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593126			Top Depth m:	0
Bottom Depth m:	0.400000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593127			Top Depth m:	0.400000
Bottom Depth m:	1.100000			Stratum Desc:	Brown Silt - Sand
+					
Stratum ID:	218593128			Top Depth m:	1.100000
Bottom Depth m:	1.500000			Stratum Desc:	Brown Silt - Sand

<u>23</u>	1 of 1	E/139.8	95.0	ON	BORE
Borehole ID:	807490			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428266.154			Northing:	5015871.193
Location Accuracy:				Orig. Ground Elev m:	96.699997
Elev. Reliability Note:				DEM Ground Elev m:	95.400002
Total Depth m:	1.500000			Primary Name:	AH 2
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-19			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					



Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	218593097			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593098			Top Depth m:	0.200000
Bottom Depth m:	0.400000			Stratum Desc:	Brown sand silt
+					
Stratum ID:	218593099			Top Depth m:	0.400000
Bottom Depth m:	1.500000			Stratum Desc:	Grey-Brown Weathered Crust Silty Clay

**24**      **1 of 1**                      **WSW/232.8**      **103.0**                      **173 Huntmar Drive**                      **EHS**  
**Ottawa ON K2S 1B9**

Order No.:                      20110103013  
Report Date:                      1/7/2011  
Report Type:                      Custom Report  
Search Radius (km):              0.25  
Addit. Info Ordered:

**25**      **1 of 1**                      **NE/241.0**      **95.0**                      **ON**                      **BORE**

Borehole ID:	805029	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	
Drill Method:	Hollow stem auger	UTM Zone:	18
Easting:	428190.319	Northing:	5016108.084
Location Accuracy:		Orig. Ground Elev m:	96.199997
Elev. Reliability Note:		DEM Ground Elev m:	95.099998
Total Depth m:	1.500000	Primary Name:	AH.7
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	1992-MAR-25	Static Water Level:	
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	218582909	Top Depth m:	0
Bottom Depth m:	0.700000	Stratum Desc:	Dark Brown Fill-Misc Silty Clay With: Brk Frag W Constr Debris
+			
Stratum ID:	218582910	Top Depth m:	0.700000
Bottom Depth m:	1.500000	Stratum Desc:	Brown sand silt

**26**      **1 of 1**                      **ENE/238.3**      **95.0**                      **ON**                      **BORE**

Borehole ID:	805836	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	
Drill Method:	Other Method	UTM Zone:	18
Easting:	428202.822	Northing:	5016089.852
Location Accuracy:		Orig. Ground Elev m:	
Elev. Reliability Note:		DEM Ground Elev m:	95
Total Depth m:	1.200000	Primary Name:	TP 02-1
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	2002-MAY-15	Static Water Level:	
Primary Water Use:		Sec. Water Use:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
--- Details ---					
Stratum ID:	218586461			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Dark Brown Topsoil Sand
+					
Stratum ID:	218586462			Top Depth m:	0.200000
Bottom Depth m:	1.200000			Stratum Desc:	Fill-Misc Silt - Sand at 0.8m piping and water level encountered
<a href="#">27</a>	1 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE 1655 MAPLE GROVE RD KANATA ON K2V 1B7</b>	<b>EXP</b>
Instance ID: TSSA Program Area: Maximum Hazard Rank: Instance Number: 11112268 Instance Type: FS Liquid Fuel Tank Status: EXPIRED Description:					
<a href="#">27</a>	2 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE 1655 MAPLE GROVE RD KANATA ON</b>	<b>EXP</b>
Instance ID: 69244 TSSA Program Area: Maximum Hazard Rank: Instance Number: 11112284 Instance Type: FS Piping Status: EXPIRED Description: FS Piping					
<a href="#">27</a>	3 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE 1655 MAPLE GROVE RD KANATA ON K2V 1B7</b>	<b>EXP</b>
Instance ID: TSSA Program Area: Maximum Hazard Rank: Instance Number: 11112239 Instance Type: FS Liquid Fuel Tank Status: EXPIRED Description:					
<a href="#">27</a>	4 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA CARLETON ATTN : MARC LEVESQUE 1655 MAPLE GROVE RD KANATA ON</b>	<b>EXP</b>
Instance ID: 70274					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
TSSA Program Area: Maximum Hazard Rank: Instance Number: 11112254 Instance Type: FS Piping Status: EXPIRED Description: FS Piping					
<a href="#">27</a>	5 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA            CARLETON ATTN : MARC LEVESQUE            1655 MAPLE GROVE RD            KANATA ON K2V 1B7</b>	FST
Instance Number: 60508341 Cont Name: Instance Type: FS Liquid Fuel Tank Fuel Type: Diesel Status Name: Active Capacity: 4682 Tank Material: Steel Corrosion Protection: Tank Type: Liquid Fuel Double Wall AST Install Year: 2005 Expired Date: Parent Facility Type: FS PRIVATE FUEL OUTLET - SELF SERVE Facility Type:					
<a href="#">27</a>	6 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA            CARLETON ATTN : MARC LEVESQUE            1655 MAPLE GROVE RD            KANATA ON K2V 1B7</b>	FST
Instance Number: 60508340 Cont Name: Instance Type: FS Liquid Fuel Tank Fuel Type: Other Status Name: Active Capacity: 9176 Tank Material: Steel Corrosion Protection: Tank Type: Liquid Fuel Double Wall AST Install Year: 2005 Expired Date: Parent Facility Type: FS PRIVATE FUEL OUTLET - SELF SERVE Facility Type:					
<a href="#">27</a>	7 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA            CARLETON ATTN : MARC LEVESQUE            1655 MAPLE GROVE RD            KANATA ON K2V 1B7</b>	FST
Instance Number: 60508339 Cont Name: Instance Type: FS Liquid Fuel Tank Fuel Type: Diesel Status Name: Active Capacity: 23021					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Tank Material: Steel Corrosion Protection: Tank Type: Liquid Fuel Double Wall AST Install Year: 2005 Expired Date: Parent Facility Type: FS PRIVATE FUEL OUTLET - SELF SERVE Facility Type:					
<a href="#">27</a>	8 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA            CARLETON ATTN : MARC LEVESQUE            1655 MAPLE GROVE RD            KANATA ON K2V 1B7</b>	FSTH
License Issue Date: 3/19/1992 Tank Status As Of: August 2007 Facility Type: Gasoline Station - Self Serve				Tank Status: Licensed Operation Type: Private Fuel Outlet	
<a href="#">27</a>	9 of 20	E/137.7	95.0	<b>REGIONAL MUNICIPALITY OF OTTAWA            CARLETON ATTN : MARC LEVESQUE            1655 MAPLE GROVE RD            KANATA ON K2V 1B7</b>	FSTH
License Issue Date: 3/19/1992 Tank Status As Of: December 2008 Facility Type: Gasoline Station - Self Serve				Tank Status: Licensed Operation Type: Private Fuel Outlet	
<a href="#">27</a>	10 of 20	E/137.7	95.0	<b>OTTAWA-CALRLETON, REG. MUN. OF            29-602            1655 MAPLE GROVE, KANATA C/O 111            LISGAR ST., CARTIER SQUARE            OTTAWA ON K2V 1B7</b>	GEN
SIC Code: 8371 SIC Description: TRANSPORTATION ADMIN Generator #: ON0303121 Approval Yrs: 94,95  --- Details --- Waste Code: 213 Waste Description: PETROLEUM DISTILLATES + Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					
<a href="#">27</a>	11 of 20	E/137.7	95.0	<b>City of Ottwa            1655 Maple Grove Rd            Ottawa ON K2V 1B7</b>	GEN
SIC Code: 913150 SIC Description: Generator #: ON8083606 Approval Yrs: 2011					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<a href="#">27</a>	12 of 20	E/137.7	95.0	OTTAWA, CITY OF 1655 MAPLE GROVE ROAD KANATA ON	GEN

SIC Code: 913910  
SIC Description: Other Municipal Public Administration  
Generator #: ON0136225  
Approval Yrs: 03,04,05,06,07,08

--- Details ---

Waste Code: 133  
Waste Description: BRINES, CHLOR-ALKALI WASTES  
+  
Waste Code: 148  
Waste Description: INORGANIC LABORATORY CHEMICALS  
+  
Waste Code: 242  
Waste Description: HALOGENATED PESTICIDES  
+  
Waste Code: 261  
Waste Description: PHARMACEUTICALS  
+  
Waste Code: 263  
Waste Description: ORGANIC LABORATORY CHEMICALS  
+  
Waste Code: 269  
Waste Description: NON-HALOGENATED PESTICIDES  
+  
Waste Code: 312  
Waste Description: PATHOLOGICAL WASTES  
+  
Waste Code: 254  
Waste Description: TRANSFER STATION OILS WASTES  
+  
Waste Code: 221  
Waste Description: LIGHT FUELS  
+  
Waste Code: 251  
Waste Description: OIL SKIMMINGS & SLUDGES  
+  
Waste Code: 252  
Waste Description: WASTE OILS & LUBRICANTS  
+  
Waste Code: 331  
Waste Description: WASTE COMPRESSED GASES  
+  
Waste Code: 145  
Waste Description: PAINT/PIGMENT/COATING RESIDUES  
+  
Waste Code: 212  
Waste Description: ALIPHATIC SOLVENTS  
+  
Waste Code: 213  
Waste Description: PETROLEUM DISTILLATES

<a href="#">27</a>	13 of 20	E/137.7	95.0	OTTAWA, CITY OF 1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	GEN
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SIC Code:  
SIC Description:

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance m</b>	<b>Elevation m</b>	<b>Site</b>	<b>DB</b>
Generator #:		ON0136225			
Approval Yrs:		As of April 2014			
--- Details ---					
Waste Code:		135			
Waste Description:		Wastes containing other reactive anions			
+					
Waste Code:		221			
Waste Description:		Light fuels			
+					
Waste Code:		262			
Waste Description:		Detergents and soaps			
+					
Waste Code:		251			
Waste Description:		Waste oils/sludges (petroleum based)			
+					
Waste Code:		148			
Waste Description:		Misc. wastes and inorganic chemicals			
+					
Waste Code:		252			
Waste Description:		Waste crankcase oils and lubricants			
+					
Waste Code:		263			
Waste Description:		Misc. waste organic chemicals			
+					
Waste Code:		145			
Waste Description:		Wastes from the use of pigments, coatings and paints			
+					
Waste Code:		212			
Waste Description:		Aliphatic solvents and residues			
+					
Waste Code:		133			
Waste Description:		Brine, chlor-alkali sludges			
+					
Waste Code:		213			
Waste Description:		Petroleum distillates			
+					
Waste Code:		254			
Waste Description:		Oily water/waste oil from waste transfer/processing sites			
+					
Waste Code:		331			
Waste Description:		Waste compressed gases including cylinders			

[27](#)

14 of 20

E/137.7

95.0

**OTTAWA-(SEE & USE  
ON0136225)ICIPALITY OF  
1655 MAPLE GROVE ROAD  
KANATA ON K2V 1B7**

GEN

SIC Code: 8371  
SIC Description: TRANSPORTATION ADMIN.  
Generator #: ON0303121  
Approval Yrs: 00,01

--- Details ---

Waste Code: 145  
Waste Description: PAINT/PIGMENT/COATING RESIDUES  
+  
Waste Code: 148  
Waste Description: INORGANIC LABORATORY CHEMICALS  
+  
Waste Code: 212







Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Waste Description:		WASTE COMPRESSED GASES			
<a href="#">27</a>	17 of 20	E/137.7	95.0	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF 1655 MAPLE GROVE ROAD KANATA ON K2V 1B7	GEN
SIC Code:		8371			
SIC Description:		TRANSPORTATION ADMIN.			
Generator #:		ON0303121			
Approval Yrs:		99			
--- Details ---					
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
+					
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		212			
Waste Description:		ALIPHATIC SOLVENTS			
+					
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
+					
Waste Code:		221			
Waste Description:		LIGHT FUELS			
+					
Waste Code:		242			
Waste Description:		HALOGENATED PESTICIDES			
+					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
+					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
+					
Waste Code:		261			
Waste Description:		PHARMACEUTICALS			
+					
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		269			
Waste Description:		NON-HALOGENATED PESTICIDES			
+					
Waste Code:		312			
Waste Description:		PATHOLOGICAL WASTES			
+					
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
<a href="#">27</a>	18 of 20	E/137.7	95.0	OTTAWA, CITY OF 1655 MAPLE ROAD KANATA ON K2V 1B7	GEN
SIC Code:		8373			
SIC Description:		ENVIRON. ADMIN.			
Generator #:		ON0136225			
Approval Yrs:		00,01,02			

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
--- Details ---					
	Waste Code:	213			
	Waste Description:	PETROLEUM DISTILLATES			
	+				
	Waste Code:	221			
	Waste Description:	LIGHT FUELS			
	+				
	Waste Code:	242			
	Waste Description:	HALOGENATED PESTICIDES			
	+				
	Waste Code:	251			
	Waste Description:	OIL SKIMMINGS & SLUDGES			
	+				
	Waste Code:	252			
	Waste Description:	WASTE OILS & LUBRICANTS			
	+				
	Waste Code:	261			
	Waste Description:	PHARMACEUTICALS			
	+				
	Waste Code:	263			
	Waste Description:	ORGANIC LABORATORY CHEMICALS			
	+				
	Waste Code:	269			
	Waste Description:	NON-HALOGENATED PESTICIDES			
	+				
	Waste Code:	312			
	Waste Description:	PATHOLOGICAL WASTES			
	+				
	Waste Code:	331			
	Waste Description:	WASTE COMPRESSED GASES			
	+				
	Waste Code:	145			
	Waste Description:	PAINT/PIGMENT/COATING RESIDUES			
	+				
	Waste Code:	148			
	Waste Description:	INORGANIC LABORATORY CHEMICALS			
	+				
	Waste Code:	212			
	Waste Description:	ALIPHATIC SOLVENTS			

<a href="#">27</a>	19 of 20	E/137.7	95.0	City of Ottawa 1655 Maplegrove Road Kanata ON K2V 1B7	GEN
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SIC Code: 913910  
 SIC Description: Other Local Municipal and Regional Public Administration  
 Generator #: ON8761705  
 Approval Yrs: 05,06

--- Details ---

Waste Code: 331  
 Waste Description: WASTE COMPRESSED GASES  
 +  
 Waste Code: 269  
 Waste Description: NON-HALOGENATED PESTICIDES  
 +  
 Waste Code: 312  
 Waste Description: PATHOLOGICAL WASTES  
 +  
 Waste Code: 262

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Waste Description:		DETERGENTS/SOAPS			
+					
Waste Code:		112			
Waste Description:		ACID WASTE - HEAVY METALS			
+					
Waste Code:		122			
Waste Description:		ALKALINE WASTES - OTHER METALS			
+					
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
+					
Waste Code:		147			
Waste Description:		CHEMICAL FERTILIZER WASTES			
+					
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		212			
Waste Description:		ALIPHATIC SOLVENTS			
+					
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
+					
Waste Code:		221			
Waste Description:		LIGHT FUELS			
+					
Waste Code:		241			
Waste Description:		HALOGENATED SOLVENTS			
+					
Waste Code:		242			
Waste Description:		HALOGENATED PESTICIDES			
+					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
+					
Waste Code:		261			
Waste Description:		PHARMACEUTICALS			
+					
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			

[27](#)      20 of 20      E/137.7      95.0      REGIONAL MUNICIPALITY OF OTTAWA  
CARLETON ATTN : DO  
1655 MAPLE GROVE RD  
KANATA ON K2V 1B7      PRT

Location ID:                    19972  
Type:                            private  
Expiry Date:  
Capacity (L):                50000.00  
Licence #:                    0076359371

[28](#)      1 of 4      E/139.2      95.0      OTTAWA, CITY OF  
1655 MAPLE GROVE ROAD  
KANATA ON K2V 1B7      GEN

SIC Code:                      913910  
SIC Description:            Other Local Municipal and Regional Public Administration  
Generator #:                ON0136225

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance m</b>	<b>Elevation m</b>	<b>Site</b>	<b>DB</b>
Approval Yrs:		2011			
--- Details ---					
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		133			
Waste Description:		BRINES, CHLOR-ALKALI WASTES			
+					
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
+					
Waste Code:		262			
Waste Description:		DETERGENTS/SOAPS			
+					
Waste Code:		212			
Waste Description:		ALIPHATIC SOLVENTS			
+					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
+					
Waste Code:		221			
Waste Description:		LIGHT FUELS			
+					
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
+					
Waste Code:		135			
Waste Description:		REACTIVE ANION WASTES			
+					
Waste Code:		254			
Waste Description:		TRANSFER STATION OILS WASTES			
+					
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
+					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			

[28](#)

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E/139.2

95.0

OTTAWA-CARLETON, REG. MUN. OF  
1655 MAPLE GROVE  
KANATA ON K2V 1B7

GEN

SIC Code: 8371  
SIC Description: TRANSPORTATION ADMIN  
Generator #: ON0303121  
Approval Yrs: 92,93,96,97

--- Details ---  
Waste Code: 213  
Waste Description: PETROLEUM DISTILLATES  
+  
Waste Code: 251  
Waste Description: OIL SKIMMINGS & SLUDGES  
+  
Waste Code: 252  
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<a href="#">28</a>	3 of 4	E/139.2	95.0	<b>OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF 1655 MAPLE GROVE KANATA ON K2V 1B7</b>	GEN
SIC Code:		8371			
SIC Description:		TRANSPORTATION ADMIN.			
Generator #:		ON0303121			
Approval Yrs:		98			
--- Details ---					
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
+					
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
+					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			

<a href="#">28</a>	4 of 4	E/139.2	95.0	<b>OTTAWA, CITY OF 1655 MAPLE GROVE ROAD KANATA ON K2V 1B7</b>	GEN
SIC Code:		913910			
SIC Description:		Other Local Municipal and Regional Public Administration			
Generator #:		ON0136225			
Approval Yrs:		2012			
--- Details ---					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
+					
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
+					
Waste Code:		212			
Waste Description:		ALIPHATIC SOLVENTS			
+					
Waste Code:		262			
Waste Description:		DETERGENTS/SOAPS			
+					
Waste Code:		254			
Waste Description:		TRANSFER STATION OILS WASTES			
+					
Waste Code:		135			
Waste Description:		REACTIVE ANION WASTES			
+					
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		221			
Waste Description:		LIGHT FUELS			
+					
Waste Code:		133			
Waste Description:		BRINES, CHLOR-ALKALI WASTES			
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Waste Code: 251					
Waste Description: OIL SKIMMINGS & SLUDGES					
+					
Waste Code: 145					
Waste Description: PAINT/PIGMENT/COATING RESIDUES					
+					
Waste Code: 213					
Waste Description: PETROLEUM DISTILLATES					
<a href="#">29</a>	1 of 1	ENE/233.0	95.0	ON	BORE
Borehole ID: 805019		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status:			
Drill Method: Hollow stem auger		UTM Zone: 18			
Easting: 428223.402		Northing: 5016058.972			
Location Accuracy:		Orig. Ground Elev m: 97			
Elev. Reliability Note:		DEM Ground Elev m: 95.300003			
Total Depth m: 2.700000		Primary Name: BH.92-5			
Township:		Concession:			
Lot:		Municipality:			
Completion Date: 1992-MAR-24		Static Water Level:			
Primary Water Use:		Sec. Water Use:			
--- Details ---					
Stratum ID: 218582885		Top Depth m: 0			
Bottom Depth m: 1.200000		Stratum Desc: Grey-Brown to Brown Fill-Misc Silty Clay Trace: Gr Tr Cob			
+					
Stratum ID: 218582886		Top Depth m: 1.200000			
Bottom Depth m: 2.400000		Stratum Desc: Brown Loose sand silt Trace: Cl			
+					
Stratum ID: 218582887		Top Depth m: 2.400000			
Bottom Depth m: 2.700000		Stratum Desc: Brown Loose Sand Occasional: Cl Occ Si			
<a href="#">30</a>	1 of 1	N/108.8	96.0	PALLADIUM CORPORATION PALLADIUM DR./CYCLONE TAYLOR KANATA CITY ON	CA
Certificate #: 7-0960-94-					
Application Year: 94					
Issue Date: 10/5/1994					
Approval Type: Municipal water					
Status: Approved					
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
<a href="#">31</a>	1 of 1	ENE/244.3	95.0	ON	BORE



Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Borehole ID:	805837			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Other Method			UTM Zone:	18
Easting:	428230.170			Northing:	5016068.345
Location Accuracy:				Orig. Ground Elev m:	
Elev. Reliability Note:				DEM Ground Elev m:	95.099998
Total Depth m:	1.100000			Primary Name:	TP 02-2
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	2002-MAY-15			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218586463			Top Depth m:	0
Bottom Depth m:	0.300000			Stratum Desc:	Dark Brown Topsoil Sand
+					
Stratum ID:	218586464			Top Depth m:	0.300000
Bottom Depth m:	1.100000			Stratum Desc:	Fill-Misc Silt - Sand at 0.8m piping and water level encountered

<a href="#">32</a>	1 of 1	ENE/223.6	95.0	ON	BORE
Borehole ID:	805025			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428260.581			Northing:	5016003.285
Location Accuracy:				Orig. Ground Elev m:	96.599998
Elev. Reliability Note:				DEM Ground Elev m:	95.400002
Total Depth m:	1.500000			Primary Name:	AH.3
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1992-MAR-25			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218582902			Top Depth m:	0
Bottom Depth m:	0.100000			Stratum Desc:	Dark Brown Fill-Misc Silt - Sand With: Gr
+					
Stratum ID:	218582903			Top Depth m:	0.100000
Bottom Depth m:	0.600000			Stratum Desc:	Fill-Misc Boulders With: Cob
+					
Stratum ID:	218582904			Top Depth m:	0.600000
Bottom Depth m:	1			Stratum Desc:	Grey-Brown Fill-Misc Silty Clay Trace: Gr
+					
Stratum ID:	218582905			Top Depth m:	1
Bottom Depth m:	1.500000			Stratum Desc:	Brown sand silt

<a href="#">33</a>	1 of 1	SE/192.1	100.0	Brian Strevens Communications 259 Helm Cir Stittsville ON K2S 0G2	SCT
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Established: 01-JAN-05  
Plant Size (ft²):

Map Key	Number of Records	Direction/Distance m	Elevation m	Site	DB
<i>Employment:</i>					
--- Details ---					
	SIC/NAICS Code:	541430			
	Description:	Graphic Design Services			
	+				
	SIC/NAICS Code:	541619			
	Description:	Other Management Consulting Services			
	+				
	SIC/NAICS Code:	541430			
	Description:	Graphic Design Services			
	+				
	SIC/NAICS Code:	323119			
	Description:	Other Printing			
<a href="#">34</a>	1 of 1	S/129.5	102.0	202 MISTRAL WAY KANATA ON	HINC
	External File Num:	FS INC 0804-01835			
	Date of Occurrence:	4/17/2008			
	Fuel Occurrence Type:	Pipeline Strike			
	Fuel Type Involved:	Natural Gas			
	Status Desc:	Completed - Causal Analysis(End)			
	Job Type Desc:	Incident/Near-Miss Occurrence (FS)			
	Oper. Type Involved:	Construction Site (pipeline strike)			
	Service Interruptions:	Yes			
	Property Damage:	No			
	Fuel Life Cycle Stage:	Transmission, Distribution and Transportation			
	Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training:Yes Management:No Human Factors:No			
	Reported Details:				
	Fuel Category:	Gaseous Fuel			
	Occurrence Type:	Incident			
	Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
	County Name:	Ottawa			
	Approx. Quant. Rel:				
	Nearby body of water:				
	Enter Drainage Syst.:				
	Approx. Quant. Unit:				
	Environmental Impact:				
<a href="#">35</a>	1 of 1	W/121.6	101.0	CITY OF OTTAWA POLICE SERVICES 211 HUNTMAR DRIVE KANATA ON	GEN
	SIC Code:				
	SIC Description:				
	Generator #:	ON4421972			
	Approval Yrs:	As of April 2014			
	--- Details ---				
	Waste Code:	252			
	Waste Description:	Waste crankcase oils and lubricants			
	+				
	Waste Code:	251			
	Waste Description:	Waste oils/sludges (petroleum based)			
<a href="#">36</a>	1 of 1	E/186.0	94.5		BORE

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<b>ON</b>					
Borehole ID:	807488			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428303.230			Northing:	5015899.001
Location Accuracy:				Orig. Ground Elev m:	96
Elev. Reliability Note:				DEM Ground Elev m:	94.599998
Total Depth m:	1.500000			Primary Name:	AH 1
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-19			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593090			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593091			Top Depth m:	0.200000
Bottom Depth m:	1.500000			Stratum Desc:	Grey-Brown Weathered Crust Silty Clay Occasional: Sa
<b>37</b>	<b>1 of 1</b>	<b>ENE/221.0</b>	<b>95.0</b>	<b>ON</b>	<b>BORE</b>
<b>ON</b>					
Borehole ID:	805024			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	428292.007			Northing:	5015964.204
Location Accuracy:				Orig. Ground Elev m:	96.800003
Elev. Reliability Note:				DEM Ground Elev m:	95
Total Depth m:	1.500000			Primary Name:	AH.2
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1992-MAR-25			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218582900			Top Depth m:	0.400000
Bottom Depth m:	0.700000			Stratum Desc:	Grey-Brown Fill-Misc Silty Clay Trace: Gr
+					
Stratum ID:	218582901			Top Depth m:	0.700000
Bottom Depth m:	1.500000			Stratum Desc:	Brown sand silt
+					
Stratum ID:	218582898			Top Depth m:	0
Bottom Depth m:	0.100000			Stratum Desc:	Brown Fill-Misc Silt - Sand With: Gr
+					
Stratum ID:	218582899			Top Depth m:	0.100000
Bottom Depth m:	0.400000			Stratum Desc:	Fill-Misc Sandstone Sandstone Boulders
<b>38</b>	<b>1 of 9</b>	<b>N/173.4</b>	<b>96.0</b>	<b>SkyWave Mobile Communications 750 Palladium Drive Kanata ON</b>	<b>GEN</b>

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
SIC Code:		443130			
SIC Description:		Camera and Photographic Supplies Stores			
Generator #:		ON7662848			
Approval Yrs:		2012			

<a href="#">38</a>	2 of 9	N/173.4	96.0	<b>SkyWave Mobile Communications 750 Palladium Drive Kanata ON</b>	<b>GEN</b>
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SIC Code:  
SIC Description:  
Generator #: ON7662848  
Approval Yrs: As of April 2014

--- Details ---

Waste Code: 112  
Waste Description: Acid solutions - containing heavy metals  
+  
Waste Code: 121  
Waste Description: Alkaline slutions - containing heavy metals  
+  
Waste Code: 212  
Waste Description: Aliphatic solvents and residues  
+  
Waste Code: 263  
Waste Description: Misc. waste organic chemicals  
+  
Waste Code: 148  
Waste Description: Misc. wastes and inorganic chemicals  
+  
Waste Code: 331  
Waste Description: Waste compressed gases including cylinders  
+  
Waste Code: 146  
Waste Description: Other specified inorganic sludges, slurries or solids

<a href="#">38</a>	3 of 9	N/173.4	96.0	<b>Trillium Photonics Inc. 750 Palladium Drive Ottawa ON K2V 1C7</b>	<b>GEN</b>
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SIC Code:  
SIC Description:  
Generator #: ON5192611  
Approval Yrs: 02,03,04

<a href="#">38</a>	4 of 9	N/173.4	96.0	<b>Vocantas Inc. 750 Palladium Dr Suite 200 Kanata ON K2V 1C7</b>	<b>SCT</b>
--------------------	--------	---------	------	---	------------

Established: 01-AUG-03  
Plant Size (ft²):  
Employment:

--- Details ---

SIC/NAICS Code: 541710  
Description: Research and Development in the Physical, Engineering and Life Sciences  
+  
SIC/NAICS Code: 334210

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance m</b>	<b>Elevation m</b>	<b>Site</b>	<b>DB</b>
<i>Description:</i>		Telephone Apparatus Manufacturing			
+					
<i>SIC/NAICS Code:</i>		541690			
<i>Description:</i>		Other Scientific and Technical Consulting Services			
<a href="#"><u>38</u></a>	<b>5 of 9</b>	<b>N/173.4</b>	<b>96.0</b>	<b>Spirent Communications 750 Palladium Dr Kanata ON K2V 1C7</b>	<b>SCT</b>
<i>Established:</i>		01-NOV-73			
<i>Plant Size (ft²):</i>		15000			
<i>Employment:</i>					
--- Details ---					
<i>SIC/NAICS Code:</i>		541710			
<i>Description:</i>		Research and Development in the Physical, Engineering and Life Sciences			
<a href="#"><u>38</u></a>	<b>6 of 9</b>	<b>N/173.4</b>	<b>96.0</b>	<b>Rohde &amp; Schwarz Canada Inc. 750 Palladium Dr Suite 102 Kanata ON K2V 1C7</b>	<b>SCT</b>
<i>Established:</i>		01-JUL-70			
<i>Plant Size (ft²):</i>		10000			
<i>Employment:</i>					
--- Details ---					
<i>SIC/NAICS Code:</i>		417930			
<i>Description:</i>		Professional Machinery, Equipment and Supplies Wholesaler-Distributors			
+					
<i>SIC/NAICS Code:</i>		417320			
<i>Description:</i>		Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors			
+					
<i>SIC/NAICS Code:</i>		417230			
<i>Description:</i>		Industrial Machinery, Equipment and Supplies Wholesaler-Distributors			
+					
<i>SIC/NAICS Code:</i>		417320			
<i>Description:</i>		Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors			
<a href="#"><u>38</u></a>	<b>7 of 9</b>	<b>N/173.4</b>	<b>96.0</b>	<b>Trigence Corp. 750 Palladium Dr Suite 210 Ottawa ON K2V 1C7</b>	<b>SCT</b>
<i>Established:</i>		2002			
<i>Plant Size (ft²):</i>					
<i>Employment:</i>		12			
--- Details ---					
<i>SIC/NAICS Code:</i>		511210			
<i>Description:</i>		Software Publishers			
<a href="#"><u>38</u></a>	<b>8 of 9</b>	<b>N/173.4</b>	<b>96.0</b>	<b>AppZero Corp. 750 Palladium Dr Suite 210 Kanata ON K2V 1C7</b>	<b>SCT</b>
<i>Established:</i>		01-AUG-02			
<i>Plant Size (ft²):</i>					
<i>Employment:</i>					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
--- Details ---					
SIC/NAICS Code:		511210			
Description:		Software Publishers			
<a href="#">38</a>	9 of 9	N/173.4	96.0	Spirent Communications - DSL Division 750 Palladium Dr Kanata ON K2V 1C7	SCT
Established:		1973			
Plant Size (ft²):		10000			
Employment:		75			
<a href="#">39</a>	1 of 1	E/217.7	95.0	ON	BORE
Borehole ID:		805022		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status:	
Drill Method:		Hollow stem auger		UTM Zone:	18
Easting:		428322.006		Northing:	5015925.649
Location Accuracy:				Orig. Ground Elev m:	96.300003
Elev. Reliability Note:				DEM Ground Elev m:	93.699997
Total Depth m:		0.600000		Primary Name:	AH.1
Township:				Concession:	
Lot:				Municipality:	
Completion Date:		1992-MAR-25		Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:		218582894		Top Depth m:	0
Bottom Depth m:		0.100000		Stratum Desc:	Brown Fill-Misc Sand - Gravel
+					
Stratum ID:		218582895		Top Depth m:	0.100000
Bottom Depth m:		0.600000		Stratum Desc:	Concrete With: Blds
<a href="#">40</a>	1 of 6	NNE/224.9	95.0	700 palladium drive n/a ON K2V 1C6	EHS
Order No.:		20071210040w			
Report Date:		12/10/2007			
Report Type:		USA - Online Mapless			
Search Radius (km):		0.25			
Addit. Info Ordered:					
<a href="#">40</a>	2 of 6	NNE/224.9	95.0	700 Palladium Drive Kanata ON K2V 1C6	EHS
Order No.:		20071207002			
Report Date:		12/10/2007			
Report Type:		USA - Site Report			
Search Radius (km):		0.25			
Addit. Info Ordered:					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<a href="#">40</a>	3 of 6	NNE/224.9	95.0	DRS Technologies Canada Ltd 700 PALLADIUM DRIVE KANATA ON K2V 1C6	GEN
SIC Code:		335990			
SIC Description:		All Other Electrical Equipment and Component Manufacturing			
Generator #:		ON4250781			
Approval Yrs:		2012			
<a href="#">40</a>	4 of 6	NNE/224.9	95.0	DRS TECHNOLOGIES INC. 700 PALLADIUM DRIVE KANATA ON K2V 1C6	GEN
SIC Code:		335990			
SIC Description:					
Generator #:		ON4250781			
Approval Yrs:		2011			
<a href="#">40</a>	5 of 6	NNE/224.9	95.0	DRS Technologies Canada 700 Palladium Drive Kanata ON K2V 1C6	GEN
SIC Code:		334511			
SIC Description:		Navigational and Guidance Instruments Manufacturin			
Generator #:		ON4222135			
Approval Yrs:		06			
--- Details ---					
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
+					
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
<a href="#">40</a>	6 of 6	NNE/224.9	95.0	Dundee Reality Management Corp. 700 Palladium Dr Kanata ON K2V 1C6	GEN
SIC Code:		551113			
SIC Description:		Holding Companies			
Generator #:		ON4064784			
Approval Yrs:		05,06			
--- Details ---					
Waste Code:		112			
Waste Description:		ACID WASTE - HEAVY METALS			
+					
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
+					
Waste Code:		265			
Waste Description:		GRAPHIC ART WASTES			



Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<a href="#">41</a>	1 of 2	WNW/177.2	101.0	ON	BORE
Borehole ID:	609644			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	427281.000			Northing:	5016022.000
Location Accuracy:				Orig. Ground Elev m:	102.099998
Elev. Reliability Note:				DEM Ground Elev m:	100.800003
Total Depth m:	21			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1962-OCT			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218383708			Top Depth m:	0
Bottom Depth m:	12.200000			Stratum Desc:	CLAY.
+					
Stratum ID:	218383709			Top Depth m:	12.200000
Bottom Depth m:	17.700001			Stratum Desc:	SAND.
+					
Stratum ID:	218383710			Top Depth m:	17.700001
Bottom Depth m:	18.600000			Stratum Desc:	GRAVEL.
+					
Stratum ID:	218383711			Top Depth m:	18.600000
Bottom Depth m:	21			Stratum Desc:	LIMESTONE. 0005800103SEISMIC VELOCITY = 4600. BEDROCK. SEISMIC VELOCITY = 15000. BEDROC

<a href="#">41</a>	2 of 2	WNW/177.2	101.0	lot 2 con 1 ON	WWIS
Well ID:	1503018			Lot:	002
Concession:	01			Concession Name:	CON
County:	OTTAWA-CARLETON			Municipality:	HUNTLEY TOWNSHIP
Easting Nad83:	427280.6			Northing Nad83:	5016022
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Livestock			Construction Date:	19-OCT-62
Sec. Water Use:	Domestic			Well Depth:	69 ft
Pump Rate:	7 GPM			Static Water Level:	20 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	100.83			Elevation Reliability:	
Depth to Bedrock:	61			Overburden/Bedrock:	Bedrock
Water Type:	SULPHUR			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	61 ft
Material Colour:	GRAVEL			Material:	3 ft
+					
Thickness:				Original Depth:	40 ft
Material Colour:	CLAY			Material:	40 ft
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:				Original Depth:	69 ft
Material Colour:	LIMESTONE			Material:	8 ft
+					
Thickness:				Original Depth:	58 ft
Material Colour:	FINE SAND			Material:	18 ft

<a href="#">42</a>	1 of 1	WNW/211.0	101.0	Ultramar Ltd. 225 Huntmar Dr Ottawa ON K2S 1B9	CA
Certificate #:	8060-888QC8				
Application Year:	2010				
Issue Date:	9/8/2010				
Approval Type:	Industrial Sewage Works				
Status:	Approved				
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

<a href="#">43</a>	1 of 4	WNW/214.5	101.0	CST CANADA CO 225 HUNTMAR DR OTTAWA ON K2S 1B9	FST
Instance Number:	64499870				
Cont Name:					
Instance Type:	FS Liquid Fuel Tank				
Fuel Type:	Gasoline				
Status Name:	Active				
Capacity:	50000				
Tank Material:	Fiberglass (FRP)				
Corrosion Protection:					
Tank Type:	Double Wall UST				
Install Year:	2010				
Expired Date:					
Parent Facility Type:	FS GASOLINE STATION - SELF SERVE				
Facility Type:	FS Liquid Fuel Tank				

<a href="#">43</a>	2 of 4	WNW/214.5	101.0	CST CANADA CO 225 HUNTMAR DR OTTAWA ON K2S 1B9	FST
Instance Number:	64499873				
Cont Name:					
Instance Type:	FS Liquid Fuel Tank				
Fuel Type:	Diesel				
Status Name:	Active				
Capacity:	25000				
Tank Material:	Fiberglass (FRP)				
Corrosion Protection:					
Tank Type:	Double Wall UST				
Install Year:	2010				

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<i>Expired Date:</i>					
<i>Parent Facility Type:</i>		FS GASOLINE STATION - SELF SERVE			
<i>Facility Type:</i>		FS Liquid Fuel Tank			

<a href="#">43</a>	3 of 4	WNW/214.5	101.0	CST CANADA CO 225 HUNTMAR DR OTTAWA ON K2S 1B9	FST
<i>Instance Number:</i>		64499871			
<i>Cont Name:</i>					
<i>Instance Type:</i>		FS Liquid Fuel Tank			
<i>Fuel Type:</i>		Gasoline			
<i>Status Name:</i>		Active			
<i>Capacity:</i>		50000			
<i>Tank Material:</i>		Fiberglass (FRP)			
<i>Corrosion Protection:</i>					
<i>Tank Type:</i>		Double Wall UST			
<i>Install Year:</i>		2010			
<i>Expired Date:</i>					
<i>Parent Facility Type:</i>		FS GASOLINE STATION - SELF SERVE			
<i>Facility Type:</i>		FS Liquid Fuel Tank			

<a href="#">43</a>	4 of 4	WNW/214.5	101.0	CST CANADA CO 225 HUNTMAR DR OTTAWA ON K2S 1B9	FST
<i>Instance Number:</i>		64499872			
<i>Cont Name:</i>					
<i>Instance Type:</i>		FS Liquid Fuel Tank			
<i>Fuel Type:</i>		Gasoline			
<i>Status Name:</i>		Active			
<i>Capacity:</i>		35000			
<i>Tank Material:</i>		Fiberglass (FRP)			
<i>Corrosion Protection:</i>					
<i>Tank Type:</i>		Double Wall UST			
<i>Install Year:</i>		2010			
<i>Expired Date:</i>					
<i>Parent Facility Type:</i>		FS GASOLINE STATION - SELF SERVE			
<i>Facility Type:</i>		FS Liquid Fuel Tank			

# Unplottable Summary

DB	Company Name/Site Name	Address	City	Postal
CA	PALLADIUM CORPORATION	PALLADIUM DR.,PT.LOT 2/CON.2	KANATA CITY ON	
CA	City of Ottawa	Huntmar Dr Carp River Bridge to Old Carp Road, Kanata Ward and West Carleton War	Ottawa ON	
CA	Palladium Drive (Ottawa) Properties Inc.		Ottawa ON	
CA	TERRACE INVESTMENTS LTD.-PT.LOT 2/CONC.I	HUNTMAR RD./STM-WATER DET.POND	KANATA CITY ON	
CA	PALLADIUM CORPORATION	PT.LOT 2/CON.1,HUNTMAR RD. SWM	KANATA CITY ON	
CA	KANATA HYDRO	MAPLE GROVE ROAD	KANATA CITY ON	
CA	KANATA HYDRO	MAPLE GROVE ROAD	KANATA CITY ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
CA	BASUTA CORPORATION	PALLADIUM DR.,PT.LOT 1/C-2,SWM	KANATA CITY ON	
CA	KANATA RESEARCH PARK CORP.	PT.LOTS 8&9/C-4, HELMSDALE,SWM	KANATA ON	
CA	PALLADIUM CORPORATION	PT.LOT 2/CON.1,PALLADIUM DR.	KANATA CITY ON	
EBR	Mattamy Homes Limited	Maple Grove Road, Part of Lot 26, Concession 12	OTTAWA GOULBOURN ON	
ECA	Mattamy (Fairwinds North) Limited	Maple Grove Road at Huntmar Road, Part of Lot 27 and 28, Concession 12	Stittsville, City of Ottawa ON	
ECA	Mattamy (Fairwinds North) Limited	Maple Grove Road	Ottawa ON	
ECA	Ultramar Ltd.	Part 1, Reference Plan 4R-23561	Ottawa ON	
HINC		HUNTMAR RD.	KANATA ON	



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# Unplottable Report

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

**Database:**  
**CA**

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

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**Site:** **City of Ottawa**  
**Huntmar Dr Carp River Bridge to Old Carp Road, Kanata Ward and West Carleton War Ottawa ON**

**Database:**  
**CA**

Certificate #: 0586-6T6PLK  
Application Year: 2006  
Issue Date: 9/1/2006  
Approval Type: Municipal and Private Sewage Works  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

---

**Site:** **Palladium Drive (Ottawa) Properties Inc.**  
**Ottawa ON**

**Database:**  
**CA**

Certificate #: 6298-6XBLN3  
Application Year: 2007  
Issue Date: 2/1/2007  
Approval Type: Industrial Sewage Works  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:



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**Site:** TERRACE INVESTMENTS LTD.-PT.LOT 2/CONC.I  
HUNTMAR RD./STM-WATER DET.POND KANATA CITY ON

**Database:**  
CA

Certificate #: 3-0503-92-  
Application Year: 92  
Issue Date: 6/22/1992  
Approval Type: Municipal sewage  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

---

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

**Database:**  
CA

Certificate #: 3-0330-94-  
Application Year: 94  
Issue Date: 4/29/1994  
Approval Type: Municipal sewage  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

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**Site:** KANATA HYDRO  
MAPLE GROVE ROAD KANATA CITY ON

**Database:**  
CA

Certificate #: 7-0345-86-  
Application Year: 86  
Issue Date: 6/9/1986  
Approval Type: Municipal water  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

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**Site:** KANATA HYDRO  
MAPLE GROVE ROAD KANATA CITY ON

**Database:**  
CA

Certificate #: 3-0477-86-  
Application Year: 86  
Issue Date: 9/8/1986

Approval Type: Municipal sewage  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

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

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

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

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

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

Certificate #: 6046-4FFRDH  
Application Year: 01  
Issue Date: 2/1/01  
Approval Type: Municipal & Private sewage  
Status: Approved  
Application Type: Notice  
Client Name: Nortel Networks Corporation  
Client Address: 2 Constellation Crescent  
Client City: Nepean  
Client Postal Code: K2G 5J9

*Project Description:* This proposal is for modifications to the existing storm sewer and stormwater management system to accommodate an additional 1.0 hectares parking lot. Runoff from this new area will be attenuated by underground storage. No increase in the site release rate is proposed. Modifications to the wet pond outlet structure are proposed to increase the permanent pond volume.

*Contaminants:*  
*Emission Control:*

---

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

**Database:  
CA**

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

---

**Site: KANATA RESEARCH PARK CORP.  
PT.LOTS 8&9/C-4, HELMSDALE,SWM KANATA ON**

**Database:  
CA**

*Certificate #:* 3-1056-98-  
*Application Year:* 98  
*Issue Date:* 9/18/1998  
*Approval Type:* Municipal sewage  
*Status:* Approved  
*Application Type:*  
*Client Name:*  
*Client Address:*  
*Client City:*  
*Client Postal Code:*  
*Project Description:*  
*Contaminants:*  
*Emission Control:*

---

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

**Database:  
CA**

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

---

**Site:** **Mattamy Homes Limited**  
**Maple Grove Road, Part of Lot 26, Concession 12 OTTAWA GOULBOURN ON**

**Database:**  
**EBR**

Year: 2013  
EBR Registry No.: 011-9579  
Ministry Ref. No.: MNR INST 44/13  
Type: Instrument Proposal  
Instrument Type: (ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species  
Proposal Date: July 10, 2013  
Location: Maple Grove Road, Part of Lot 26, Concession 12 CITY OF OTTAWA GOULBOURN  
Proponent Address: 50 Hines Road, Suite 100, Ottawa Ontario, Canada K2K 2M5

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**Site:** **Mattamy (Fairwinds North) Limited**  
**Maple Grove Road at Huntmar Road, Part of Lot 27 and 28, Concession 12 Stittsville, City of Ottawa ON**

**Database:**  
**ECA**

CofA Number: 1716-9CHP4Z  
Date: 04-NOV-13  
Status: Approved  
Project Type: Municipal and Private Sewage

---

**Site:** **Mattamy (Fairwinds North) Limited**  
**Maple Grove Road Ottawa ON**

**Database:**  
**ECA**

CofA Number: 7045-8X5HLB  
Date: 9/6/2012  
Status: Approved  
Project Type: Municipal and Private Sewage

---

**Site:** **Ultramar Ltd.**  
**Part 1, Reference Plan 4R-23561 Ottawa ON**

**Database:**  
**ECA**

CofA Number: 1928-8W2Q6W  
Date: 7/10/2012  
Status: Approved  
Project Type: Industrial Sewage

---

**Site:** **HUNTMAR RD. KANATA ON**

**Database:**  
**HINC**

External File Num: FS INC 0712-07659  
Date of Occurrence: 12/10/2007  
Fuel Occurrence Type: Pipeline Strike  
Fuel Type Involved: Natural Gas  
Status Desc: Completed - Causal Analysis(End)  
Job Type Desc: Incident/Near-Miss Occurrence (FS)  
Oper. Type Involved: Construction Site (pipeline strike)  
Service Interruptions: No  
Property Damage: Yes  
Fuel Life Cycle Stage: Transmission, Distribution and Transportation  
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No  
Design:No Training:Yes Management:Yes Human Factors:Yes  
Reported Details:  
Fuel Category: Gaseous Fuel  
Occurrence Type: Incident

*Affiliation:* Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)  
*County Name:* Ottawa  
*Approx. Quant. Rel:*  
*Nearby body of water:*  
*Enter Drainage Syst.:*  
*Approx. Quant. Unit:*  
*Environmental Impact:*

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**Site:** **223 KOHILO CRESCENT KANATA ON**

**Database:**  
**HINC**

*External File Num:* FS INC 0708-04657  
*Date of Occurrence:* 8/7/2007  
*Fuel Occurrence Type:* Pipeline Strike  
*Fuel Type Involved:* Natural Gas  
*Status Desc:* Completed - No Action Required  
*Job Type Desc:* Incident/Near-Miss Occurrence (FS)  
*Oper. Type Involved:* Construction Site (pipeline strike)  
*Service Interruptions:* No  
*Property Damage:* No  
*Fuel Life Cycle Stage:* Transmission, Distribution and Transportation  
*Root Cause:*  
*Reported Details:*  
*Fuel Category:* Gaseous Fuel  
*Occurrence Type:* Incident  
*Affiliation:* Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)  
*County Name:* Ottawa  
*Approx. Quant. Rel:*  
*Nearby body of water:*  
*Enter Drainage Syst.:*  
*Approx. Quant. Unit:*  
*Environmental Impact:*

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**Site:** **ULTRAMAR  
OTTAWA ON**

**Database:**  
**NATE**

*File No.:* 446220  
*Spill Date:* 871020  
*Lead Agency:*  
*DOE on Scene:*  
*Reported By:* Province  
*Material Reaction:*  
*Basin:* St. Lawrence River Drainage  
*Air:*  
*Land:* Y  
*Fresh Water:*  
*Ground Water:*  
*Salt Water:*  
*Other Environment:*  
*Waterbody:*  
*Cause:* Overflow  
*Reason:* Unknown  
*Source:* Other Industrial Plant  
*Sector:* General Manufacturing  
*Ship No.:*  
*Ship Name:*  
*Clean Up By:* polluter  
*Disposal Method:* other  
*Recovery %:* 80.00  
*Act Invoked:* None

Enforcement Resp:  
Fish Kill: N  
Oiled Birds: N  
Other Kill: N  
Vegetation Damage: N  
Property Damage: N  
Drinking Water: N  
Income Loss: N  
Other Consequences: N  
No. of Injuries:  
No. of Evacuations:  
Fine: 0.00  
No. of Dead:  
Cleanup Cost: 0.00  
Material: fuel oil no. 2  
Amount (ton): 0.19  
Volume (L): 0.00  
Concentration: 0.00  
Phase:  
Additional Info:

---

**Site:** **ULTRAMAR  
OTTAWA ON**

**Database:**  
**NEES**

Incident Date: 10/20/87  
Contaminant: fuel oil no. 2  
Amount: 0.19  
Units: Tonnes (Metric)  
Quantity:  
Cause: Overflow  
Source: Other Industrial Plant  
Reason: Unknown  
Sector: General Manufacturing

---

**Site:** **1534524 Ontario Inc.  
Maple Grove Road Lot 26, Concession 2 Ottawa ON**

**Database:**  
**PTTW**

Year: December 17, 2013  
EBR Registry No.: 012-0686  
Ministry Ref. No.: 1527-9EFLU5  
Type: Instrument Decision  
Instrument Type: (OWRA s. 34) - Permit to take water  
Proposal Date: December 17, 2013  
Location: Maple Grove Road Lot 26, Concession 2, Geographic Township of Goulbourn City of Ottawa,  
Ontario CITY OF OTTAWA  
Proponent Address: 237 Somerset Street West, Ottawa Ontario, Canada K2P 0J3

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**Site:** **Mattamy (Fairwinds) Limited  
Lot 1, Concession 1 Ottawa ON**

**Database:**  
**PTTW**

Year: 2008  
EBR Registry No.: 010-3712  
Ministry Ref. No.: 3833-7F3JSF  
Type: Instrument Proposal  
Instrument Type: (OWRA s. 34) - Permit to take water  
Proposal Date: July 15, 2008  
Location: Lot 1, Concession 1 Geo. Twp. of Huntley, City of Ottawa  
Proponent Address: 123 Huntmar Drive Kanata Ontario Canada K2S 1B9

**Site:** ULTRAMAR LTÉE  
OTTAWA OTTAWA ON

**Database:**  
RST

Facility: Oils-Fuel  
Description:

**Site:** 888342 ONTARIO LTD.  
AT THE PALLADIUM SITE KANATA CITY ON

**Database:**  
SPL

Ref No.: 104324  
Incident Dt: 8/23/1994  
MOE Reported Dt: 8/23/1994  
Contaminant Name:  
Contaminant Quantity:  
Incident Summary: 888342 ONTARIO LTD.:45 L HYDRAULIC OIL TO GROUND, CONTAINED & CLEANED UP.  
Incident Cause: PIPE/HOSE LEAK  
Incident Reason: MATERIAL FAILURE  
Nature of Impact:  
Receiving Medium: LAND  
Environmental Impact: NOT ANTICIPATED

**Site:** TRANSPORT TRUCK  
HUNTMAR ROAD KANATA CITY ON

**Database:**  
SPL

Ref No.: 104127  
Incident Dt: 8/18/1994  
MOE Reported Dt: 8/18/1994  
Contaminant Name:  
Contaminant Quantity:  
Incident Summary: GILES LEBLANC CARTAGE: 20 L DIESEL FUEL TO LAND  
Incident Cause: OTHER CONTAINER LEAK  
Incident Reason: DAMAGE BY MOVING EQUIPMENT  
Nature of Impact: Soil contamination  
Receiving Medium: LAND  
Environmental Impact: CONFIRMED

**Site:**  
ON

**Database:**  
WWIS

Well ID:	1534247	Lot:	002
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	MARCH TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	19-JUN-03
Sec. Water Use:		Well Depth:	95 ft
Pump Rate:	20 GPM	Static Water Level:	10 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Air Percussion	Flowing (y/n):	N



<i>Elevation (m):</i>		<i>Elevation</i>	
<i>Depth to Bedrock:</i>	19	<i>Reliability:</i>	
<i>Water Type:</i>	FRESH	<i>Overburden/Bedrock:</i>	Bedrock
		<i>Casing Material:</i>	FRESH, MINERIAL

--- Details ---

<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	2 ft
<i>Material Colour:</i>	SAND, STONES, FILL	<i>Material:</i>	2 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	19 ft
<i>Material Colour:</i>	SAND, STONES, CLAY	<i>Material:</i>	17 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	24 ft
<i>Material Colour:</i>	SANDSTONE, FRACTURED	<i>Material:</i>	5 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	63 ft
<i>Material Colour:</i>	SANDSTONE	<i>Material:</i>	39 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	95 ft
<i>Material Colour:</i>	GRANITE, QUARTZITE, GRANITE	<i>Material:</i>	32 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

<i>Well ID:</i>	1533315	<i>Lot:</i>	002
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	MARCH TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	30-OCT-02
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	100 ft
<i>Pump Rate:</i>	15 GPM	<i>Static Water Level:</i>	8 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	0	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	FRESH	<i>Casing Material:</i>	FRESH

--- Details ---

<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	37 ft
<i>Material Colour:</i>	SANDSTONE	<i>Material:</i>	37 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	100 ft
<i>Material Colour:</i>	SANDSTONE	<i>Material:</i>	63 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

<i>Well ID:</i>	1521400	<i>Lot:</i>	002
<i>Concession:</i>		<i>Concession Name:</i>	

<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	MARCH TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	09-JUN-87
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	65 ft
<i>Pump Rate:</i>	75 GPM	<i>Static Water Level:</i>	10 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	8	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	FRESH	<i>Casing Material:</i>	FRESH

--- Details ---

<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	5 ft
<i>Material Colour:</i>	SAND, FILL	<i>Material:</i>	5 ft
+			
<i>Thickness:</i>	BLACK	<i>Original Depth:</i>	8 ft
<i>Material Colour:</i>	TOPSOIL	<i>Material:</i>	3 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	30 ft
<i>Material Colour:</i>	LIMESTONE, HARD	<i>Material:</i>	22 ft
+			
<i>Thickness:</i>	RED	<i>Original Depth:</i>	33 ft
<i>Material Colour:</i>	SANDSTONE, MEDIUM-GRAINED, HARD	<i>Material:</i>	3 ft
+			
<i>Thickness:</i>	WHITE	<i>Original Depth:</i>	65 ft
<i>Material Colour:</i>	QUARTZITE	<i>Material:</i>	32 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

<i>Well ID:</i>	1521756	<i>Lot:</i>	002
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	HUNTLEY TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	09-SEP-87
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	275 ft
<i>Pump Rate:</i>	4 GPM	<i>Static Water Level:</i>	6 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	7	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	FRESH	<i>Casing Material:</i>	FRESH, MINERIAL

--- Details ---

Thickness:	GREY	Original Depth:	275 ft
Material Colour:	GRANITE, QUARTZ, HARD	Material:	25 ft
+			
Thickness:	GREY	Original Depth:	250 ft
Material Colour:	GRANITE, QUARTZ, HARD	Material:	243 ft
+			
Thickness:	BROWN	Original Depth:	1 ft
Material Colour:	TOPSOIL, PACKED	Material:	1 ft
+			
Thickness:	BROWN	Original Depth:	7 ft
Material Colour:	SAND, MEDIUM SAND, FINE SAND	Material:	6 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1523932	Lot:	002
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	HUNTLEY TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	09-AUG-89
Sec. Water Use:		Well Depth:	85 ft
Pump Rate:	20 GPM	Static Water Level:	
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Air Percussion	Flowing (y/n):	N
Elevation (m):		Elevation Reliability:	
Depth to Bedrock:	9	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	FRESH, MINERIAL

--- Details ---

Thickness:	BROWN	Original Depth:	9 ft
Material Colour:	SAND, GRAVEL, TILL	Material:	9 ft
+			
Thickness:	GREY	Original Depth:	85 ft
Material Colour:	LIMESTONE, HARD	Material:	76 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1533592	Lot:	001
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	MARCH TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	02-OCT-02
Sec. Water Use:		Well Depth:	450 ft
Pump Rate:	8 GPM	Static Water Level:	10 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply

<i>Construction Method:</i>	Air Percussion	<i>Status:</i>	
<i>Elevation (m):</i>		<i>Flowing (y/n):</i>	N
<i>Depth to Bedrock:</i>	7	<i>Elevation</i>	
<i>Water Type:</i>	FRESH	<i>Reliability:</i>	
		<i>Overburden/Bedrock:</i>	Bedrock
		<i>Casing Material:</i>	FRESH, MINERIAL

--- Details ---

<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	7 ft
<i>Material Colour:</i>	SAND, BOULDERS	<i>Material:</i>	7 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	270 ft
<i>Material Colour:</i>	GRANITE, QUARTZ, LAYERED	<i>Material:</i>	80 ft
+			
<i>Thickness:</i>	GREEN	<i>Original Depth:</i>	340 ft
<i>Material Colour:</i>	QUARTZ, SOFT	<i>Material:</i>	70 ft
+			
<i>Thickness:</i>	WHITE	<i>Original Depth:</i>	450 ft
<i>Material Colour:</i>	QUARTZITE, QUARTZ, LAYERED	<i>Material:</i>	110 ft
+			
<i>Thickness:</i>	WHITE	<i>Original Depth:</i>	190 ft
<i>Material Colour:</i>	QUARTZ, SOFT	<i>Material:</i>	183 ft

**Site:** ON **Database:** WWIS

<i>Well ID:</i>	1532468	<i>Lot:</i>	002
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	HUNTLEY TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	29-OCT-01
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	295 ft
<i>Pump Rate:</i>	4 GPM	<i>Static Water Level:</i>	12 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Rotary (Air)	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation</i>	
<i>Depth to Bedrock:</i>	0	<i>Reliability:</i>	
<i>Water Type:</i>	Not stated	<i>Overburden/Bedrock:</i>	Mixed in a Layer
		<i>Casing Material:</i>	FRESH, MINERIAL

--- Details ---

<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	2 ft
<i>Material Colour:</i>	TOPSOIL, SHALE	<i>Material:</i>	2 ft
+			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	50 ft
<i>Material Colour:</i>	LIMESTONE	<i>Material:</i>	48 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	295 ft
<i>Material Colour:</i>	LIMESTONE, LAYERED	<i>Material:</i>	245 ft

**Site:** **Database:** WWIS

**ON**

<i>Well ID:</i>	1532467	<i>Lot:</i>	002
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	HUNTLEY TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Commerical	<i>Construction Date:</i>	01-NOV-01
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	295 ft
<i>Pump Rate:</i>	3 GPM	<i>Static Water Level:</i>	12 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Rotary (Air)	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	5	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	Not stated	<i>Casing Material:</i>	FRESH, MINERIAL

## --- Details ---

<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	5 ft
<i>Material Colour:</i>	TOPSOIL, STONES, CLAY	<i>Material:</i>	5 ft
+			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	295 ft
<i>Material Colour:</i>	LIMESTONE, LAYERED, LIMESTONE	<i>Material:</i>	289 ft
+			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	6 ft
<i>Material Colour:</i>	SHALE	<i>Material:</i>	1 ft

**Site:****ON****Database:**  
**WWIS**

<i>Well ID:</i>	1528867	<i>Lot:</i>	002
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	MARCH TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	17-JAN-96
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	120 ft
<i>Pump Rate:</i>	5 GPM	<i>Static Water Level:</i>	7 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	12	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	Not stated	<i>Casing Material:</i>	FRESH

## --- Details ---

<i>Thickness:</i>	GREY	<i>Original Depth:</i>	12 ft
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Material Colour:	CLAY	Material:	12 ft
+			
Thickness:	GREY	Original Depth:	62 ft
Material Colour:	SHALE, LIMESTONE	Material:	50 ft
+			
Thickness:	RED	Original Depth:	95 ft
Material Colour:	LIMESTONE	Material:	33 ft
+			
Thickness:	GREY	Original Depth:	120 ft
Material Colour:	LIMESTONE	Material:	25 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1527821	Lot:	002
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	MARCH TOWNSHIP
Zone:	18	Northing	
Primary Water Use:	Domestic	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:	15 GPM	Construction	26-SEP-92
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	50 ft
Construction Method:	Air Percussion	Static Water	18 ft
Elevation (m):		Level:	
Depth to Bedrock:	7	Clear/Cloudy:	CLEAR
Water Type:	FRESH	Final Well	Water Supply
		Status:	
		Flowing (y/n):	N
		Elevation	
		Reliability:	
		Overburden/Bedrock:	Bedrock
		Casing	FRESH, MINERIAL
		Material:	

--- Details ---

Thickness:	GREY	Original Depth:	50 ft
Material Colour:	SANDSTONE, QUARTZITE, HARD	Material:	5 ft
+			
Thickness:	BROWN	Original Depth:	45 ft
Material Colour:	SANDSTONE, HARD	Material:	3 ft
+			
Thickness:		Original Depth:	7 ft
Material Colour:	FILL	Material:	7 ft
+			
Thickness:	BROWN	Original Depth:	14 ft
Material Colour:	SANDSTONE, HARD	Material:	7 ft
+			
Thickness:	GREY	Original Depth:	42 ft
Material Colour:	SANDSTONE, QUARTZITE, HARD	Material:	28 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1527820	Lot:	002
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	MARCH TOWNSHIP
Zone:	18	Northing	
		Nad83:	
		Utm Reliability:	unknown UTM

<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	06-OCT-92
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	85 ft
<i>Pump Rate:</i>	20 GPM	<i>Static Water Level:</i>	20 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Recharge Well
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	3	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	FRESH	<i>Casing Material:</i>	FRESH, MINERAL

--- Details ---

<i>Thickness:</i>	GREY	<i>Original Depth:</i>	85 ft
<i>Material Colour:</i>	SANDSTONE, QUARTZITE, HARD	<i>Material:</i>	30 ft
+			
<i>Thickness:</i>		<i>Original Depth:</i>	2 ft
<i>Material Colour:</i>	FILL, PACKED	<i>Material:</i>	2 ft
+			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	3 ft
<i>Material Colour:</i>	SAND, PACKED	<i>Material:</i>	1 ft
+			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	7 ft
<i>Material Colour:</i>	SANDSTONE, SAND, LAYERED	<i>Material:</i>	4 ft
+			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	18 ft
<i>Material Colour:</i>	SANDSTONE, HARD	<i>Material:</i>	11 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	47 ft
<i>Material Colour:</i>	SANDSTONE, QUARTZITE, HARD	<i>Material:</i>	29 ft
+			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	55 ft
<i>Material Colour:</i>	SANDSTONE, HARD	<i>Material:</i>	8 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

<i>Well ID:</i>	1526863	<i>Lot:</i>	002
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	MARCH TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	12-SEP-86
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	85 ft
<i>Pump Rate:</i>	15 GPM	<i>Static Water Level:</i>	5 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	5	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	FRESH	<i>Casing Material:</i>	FRESH



--- Details ---

Thickness:	BROWN	Original Depth:	5 ft
Material Colour:	SAND	Material:	5 ft
+			
Thickness:	GREY	Original Depth:	85 ft
Material Colour:	GRANITE	Material:	80 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1526859	Lot:	002
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	MARCH TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	12-JUN-86
Sec. Water Use:		Well Depth:	105 ft
Pump Rate:	15 GPM	Static Water Level:	3 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Air Percussion	Flowing (y/n):	N
Elevation (m):		Elevation Reliability:	
Depth to Bedrock:	2	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	FRESH

--- Details ---

Thickness:	RED	Original Depth:	2 ft
Material Colour:	TOPSOIL, SANDY	Material:	2 ft
+			
Thickness:	RED	Original Depth:	105 ft
Material Colour:	GRANITE	Material:	103 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1518217	Lot:	001
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	OTTAWA CITY
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	21-MAR-83
Sec. Water Use:	Livestock	Well Depth:	167 ft
Pump Rate:	20 GPM	Static Water Level:	25 ft
Flow Rate:		Clear/Cloudy:	
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Cable Tool	Flowing (y/n):	N
Elevation (m):		Elevation Reliability:	

Depth to Bedrock:	52	Overburden/Bedrock:	Bedrock
Water Type:	FRESH, Not stated	Casing Material:	MINERIAL

--- Details ---

Thickness:	GREY	Original Depth:	15 ft
Material Colour:	CLAY	Material:	15 ft
+			
Thickness:	GREY	Original Depth:	35 ft
Material Colour:	CLAY, BOULDERS, HARDPAN	Material:	20 ft
+			
Thickness:	GREY	Original Depth:	52 ft
Material Colour:	BOULDERS, HARDPAN	Material:	17 ft
+			
Thickness:	GREY	Original Depth:	167 ft
Material Colour:	LIMESTONE	Material:	115 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1523480	Lot:	001
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	MARCH TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	16-MAY-89
Sec. Water Use:		Well Depth:	47 ft
Pump Rate:	150 GPM	Static Water Level:	3 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Rotary (Air)	Flowing (y/n):	N
Elevation (m):		Elevation Reliability:	
Depth to Bedrock:	16	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	FRESH, MINERIAL

--- Details ---

Thickness:	BROWN	Original Depth:	6 ft
Material Colour:	SAND, SILT	Material:	6 ft
+			
Thickness:	GREY	Original Depth:	16 ft
Material Colour:	CLAY, STONES	Material:	10 ft
+			
Thickness:	BROWN	Original Depth:	22 ft
Material Colour:	LIMESTONE	Material:	6 ft
+			
Thickness:	BROWN	Original Depth:	23 ft
Material Colour:	LIMESTONE, FRACTURED	Material:	1 ft
+			
Thickness:	BROWN	Original Depth:	47 ft
Material Colour:	LIMESTONE	Material:	24 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

<i>Well ID:</i>	1525114	<i>Lot:</i>	001
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	HUNTLEY TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	11-OCT-90
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	75 ft
<i>Pump Rate:</i>	12 GPM	<i>Static Water Level:</i>	14 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Cable Tool	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	0	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	FRESH	<i>Casing Material:</i>	FRESH
<i>--- Details ---</i>			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	3 ft
<i>Material Colour:</i>	ROCK, SILT, LOOSE	<i>Material:</i>	3 ft
<i>+</i>			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	75 ft
<i>Material Colour:</i>	LIMESTONE, HARD	<i>Material:</i>	72 ft

**Site:** ON **Database:** WWIS

<i>Well ID:</i>	1525458	<i>Lot:</i>	001
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	HUNTLEY TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	07-MAY-91
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	105 ft
<i>Pump Rate:</i>	7 GPM	<i>Static Water Level:</i>	31 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Rotary (Air)	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	4	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	FRESH	<i>Casing Material:</i>	FRESH, MINERIAL
<i>--- Details ---</i>			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	4 ft
<i>Material Colour:</i>	SAND, FILL	<i>Material:</i>	4 ft
<i>+</i>			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	105 ft
<i>Material Colour:</i>	LIMESTONE, SANDSTONE, LAYERED	<i>Material:</i>	101 ft

**Site:**  
**MANOTICK ON**

**Database:**  
**WWIS**

Well ID:	7052938	Lot:	001
Concession:		Concession	CON
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:	375636	Municipality:	MARCH TOWNSHIP
Zone:	18	Northing	5146584
Primary Water Use:	Domestic	Nad83:	
Sec. Water Use:		Utm Reliability:	margin of error : 10 - 30 m
Pump Rate:	60 LPM	Construction	
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	24.38 m
Construction Method:	Rotary (Air)	Static Water	2.26 m
Elevation (m):		Level:	
Depth to Bedrock:		Clear/Cloudy:	
Water Type:	FRESH	Final Well	Water Supply
		Status:	
		Flowing (y/n):	N
		Elevation	
		Reliability:	
		Overburden/Bedrock:	
		Casing	FRESH, MINERIAL
		Material:	
--- Details ---			
Thickness:	BROWN	Original Depth:	4.87 m
Material Colour:	TILL, HARD	Material:	4.87 m
+			
Thickness:	GREY	Original Depth:	24.38 m
Material Colour:	LIMESTONE, LAYERED, HARD	Material:	19.51 m

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1526858	Lot:	001
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	MARCH TOWNSHIP
Zone:	18	Northing	
Primary Water Use:	Domestic	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:	5 GPM	Construction	12-JUN-86
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	265 ft
Construction Method:	Air Percussion	Static Water	10 ft
Elevation (m):		Level:	
Depth to Bedrock:	7	Clear/Cloudy:	CLEAR
Water Type:	FRESH	Final Well	Water Supply
		Status:	
		Flowing (y/n):	N
		Elevation	
		Reliability:	
		Overburden/Bedrock:	Bedrock
		Casing	FRESH
		Material:	
--- Details ---			
Thickness:	RED	Original Depth:	265 ft

Material Colour:	GRANITE	Material:	258 ft
+			
Thickness:	BROWN	Original Depth:	7 ft
Material Colour:	TOPSOIL, SANDY	Material:	7 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1528635	Lot:	001
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	HUNTLEY TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	06-DEC-93
Sec. Water Use:		Well Depth:	195 ft
Pump Rate:	5 GPM	Static Water Level:	10 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Air Percussion	Flowing (y/n):	N
Elevation (m):		Elevation Reliability:	
Depth to Bedrock:	3	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	FRESH, MINERIAL

--- Details ---

Thickness:	BROWN	Original Depth:	3 ft
Material Colour:	FILL, PACKED	Material:	3 ft
+			
Thickness:	GREY	Original Depth:	165 ft
Material Colour:	LIMESTONE, MEDIUM-GRAINED, HARD	Material:	162 ft
+			
Thickness:	GREY	Original Depth:	195 ft
Material Colour:	LIMESTONE, QUARTZ, HARD	Material:	30 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1530972	Lot:	001
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	MARCH TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	24-NOV-99
Sec. Water Use:		Well Depth:	177 ft
Pump Rate:	10 GPM	Static Water Level:	40 ft
Flow Rate:		Clear/Cloudy:	CLOUDY
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Air Percussion	Flowing (y/n):	N
Elevation (m):		Elevation Reliability:	
Depth to Bedrock:	99	Overburden/Bedrock:	Bedrock

Water Type: FRESH  
 drock: FRESH, MINERIAL  
 Casing: FRESH, MINERIAL  
 Material:

--- Details ---

Thickness:	GREY	Original Depth:	177 ft
Material Colour:	SANDSTONE, HARD	Material:	13 ft
+			
Thickness:	BROWN	Original Depth:	25 ft
Material Colour:	CLAY, STONES	Material:	25 ft
+			
Thickness:	GREY	Original Depth:	164 ft
Material Colour:	LIMESTONE, SANDSTONE	Material:	65 ft
+			
Thickness:	GREY	Original Depth:	99 ft
Material Colour:	CLAY, STONES	Material:	74 ft

**Site:**  
**ON**

**Database:**  
**WWIS**

Well ID:	1531460	Lot:	001
Concession:		Concession:	CON
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	MARCH TOWNSHIP
Zone:	18	Northing:	
Primary Water Use:	Domestic	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:	25 GPM	Construction:	26-SEP-00
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	42 ft
Construction Method:	Air Percussion	Static Water:	10 ft
Elevation (m):		Level:	
Depth to Bedrock:	17	Clear/Cloudy:	CLEAR
Water Type:	FRESH	Final Well:	Water Supply
		Status:	
		Flowing (y/n):	N
		Elevation:	
		Reliability:	
		Overburden/Bedrock:	Bedrock
		drock:	
		Casing:	FRESH
		Material:	

--- Details ---

Thickness:	BROWN	Original Depth:	17 ft
Material Colour:	HARDPAN	Material:	17 ft
+			
Thickness:	GREY	Original Depth:	42 ft
Material Colour:	SANDSTONE	Material:	25 ft

## Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd 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 Ecolog 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 all 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 Aug 2012*

### **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-Jan 2014*

### **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*

### **Automobile Wrecking & Supplies:**

Private [AUWR](#)

This database provides an inventory of all 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: 2001-Jun 2010*



**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-Aug 2011*

**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\**

**Commercial Fuel Oil Tanks:**Provincial [CFOT](#)

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

*Government Publication Date: 1948-Apr 2013*

**Chemical Register:**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: 1992, 1999-Jun 2010*

**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-Feb 2014*

**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-Jul 2014*

**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 MNM. 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-Jan 2014*

**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 31 2011-Jul 2014*

**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-Jul 2014*

**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 CofA's 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 31, 2011-Jul 2014*

**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](#)

EcoLog 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 2013*

**Environmental Issues Inventory System:**

Federal EIS

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 EIS 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\**

**List of TSSA Expired Facilities:**

Provincial EXP

This is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulations that exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. These tanks have been removed and automatically fall under the expired facilities inventory held by TSSA.

*Government Publication Date: Current to May 2013*

**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 all 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.

*Government Publication Date: June 2000-Jul 2014*

**Fisheries & Oceans Fuel Tanks:**

Federal FOFT

Fisheries & Oceans Canada maintains an inventory of all 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-Sept 2003*

**Fuel Storage Tank:**

Provincial FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

*Government Publication Date: 2010-May 2013*

**Fuel Storage Tank - Historic:**

Provincial FSTH

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

*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-Apr 2014*

**TSSA Historic Incidents:**

Provincial HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. 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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

*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 all 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\**

**TSSA Incidents:**

Provincial INC

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

*Government Publication Date: June 2009-Apr 2013*

**Landfill Inventory Management Ontario:**

Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as 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 will include information such as site owner, site location and certificate of approval # and status.

*Government Publication Date: 2012*

**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 planimetric (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-Apr 2013*

**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: 1994-2012*

**National Defence & Canadian Forces Fuel Tanks:**

Federal NDFT

The Department of National Defence 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 Defence & Canadian Forces Spills:**

Federal NDSP

The Department of National Defence 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-Aug 2010*

**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 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 all 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. All federal out-of-service PCB containing equipment and all 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: 1993-2011*

**Oil and Gas Wells:**

Private [OGW](#)

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](http://www.nickles.com).

*Government Publication Date: 1988-Jun 2014*

**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, well cap date, licence 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: 1800-2013*

**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*

**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-Jul 2014*

**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*

**Parks Canada Fuel Storage Tanks:**

Federal [PCFT](#)

Canadian Heritage maintains an inventory of all 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 Environment maintains a database of all manufacturers and vendors of registered pesticides.

*Government Publication Date: 1988-Jun 2013*

**TSSA Pipeline Incidents:**

Provincial [PINC](#)

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

*Government Publication Date: June 2009-Mar 2012*

**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-Jul 2014*

**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: 1986-2012*



**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 2014*

**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-Jun 2010*

**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

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

*Government Publication Date: 1988-Feb 2014*

**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: 1990-2011*

**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

With the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storage tanks. Our inventory provides information on the site name, location, tank age, capacity and fuel type.

*Government Publication Date: 1970-Mar 2007*

**TSSA Variances for Abandonment of Underground Storage Tanks:**

Provincial VAR

The TSSA, Under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.

**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: 1970-Jul 2014

**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: 1955-Mar 2014

# 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 were included as reference.



# enviroscan



An SCM Company

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Markham, Ontario L3T 7Z3

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W: [www.optaintel.ca](http://www.optaintel.ca)

Report Completed By:  
**Anthony Remonde**

Site Address:

130 Huntmar Drive Ottawa ON Canada

Project No:

1406495

Opta Order ID:

16371

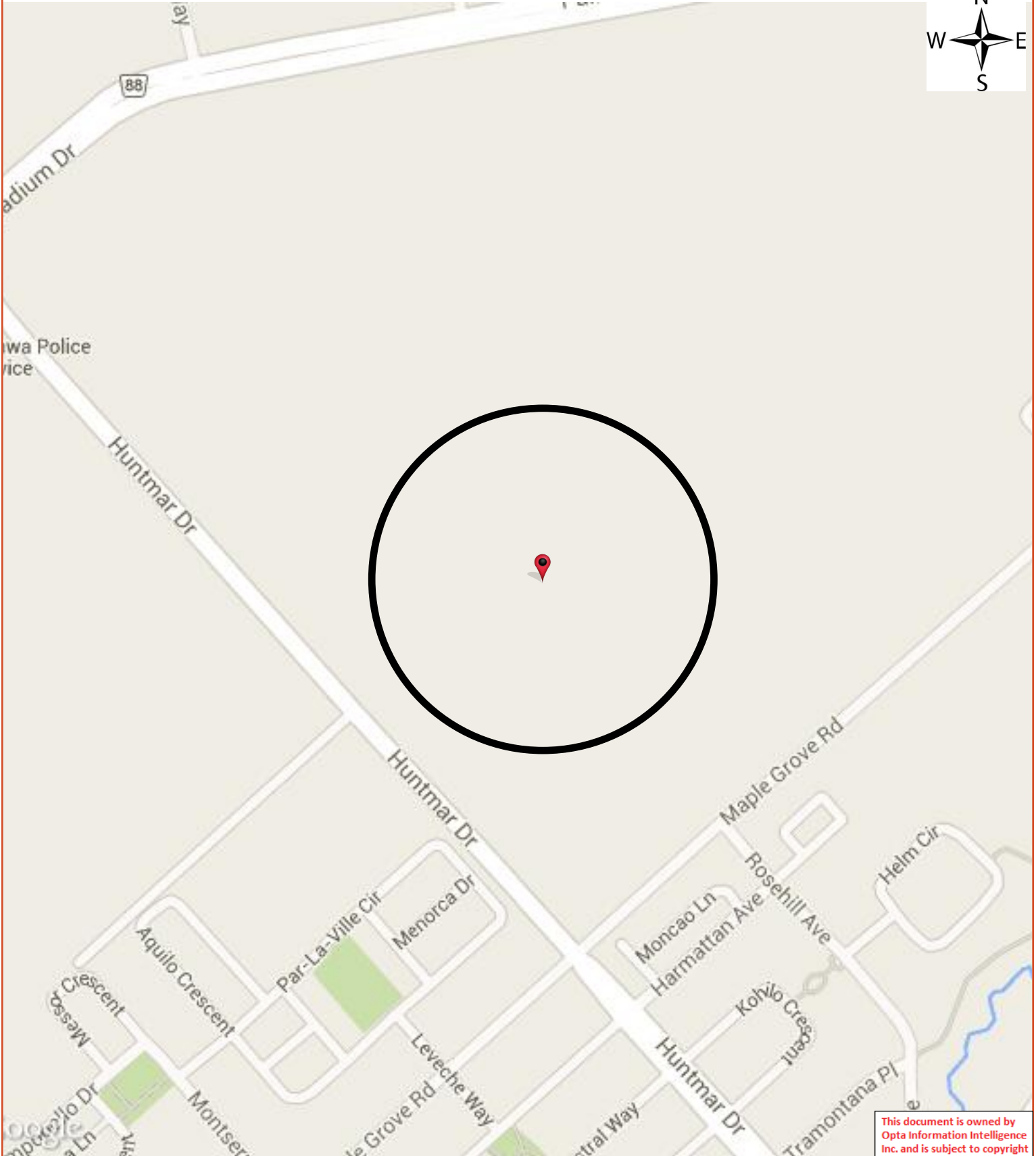
Requested by:

Jillian Lackey  
Golder Associates

Date Completed:

9/5/2014 8:20:06 AM





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# Opta Historical Environmental Services Enviroscan<sup>TM</sup> Terms and Conditions

## Report

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

## Disclaimer

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

## Entire Agreement

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

## Governing Document

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

## Law

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



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[www.optaintel.ca](http://www.optaintel.ca)

**ENVIROSCAN Report**

Project Name: Urbandale Kanata  
Phase 1 130 Huntmar Drive

**Selected Fire Insurance Plans and Inspection Reports**

**Requested by:**  
Jillian Lackey

Date Completed: September 5, 2014 08:20:06



OPTA INFORMATION INTELLIGENCE

Project #: 1406495

**Search Fee** **\$50.00**

**Selected Fire Insurance Plans**

None

**Selected Inspection Reports**

None

**Total** **\$50.00**



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Project Name: Urbandale Kanata  
Phase 1 130 Huntmar Drive

**Excluded Fire Insurance Plans and Inspection Reports**

Requested by:  
Jillian Lackey

Date Completed: September 5, 2014 08:20:06



OPTA INFORMATION INTELLIGENCE

Project #: 1406495

**Excluded Fire Insurance Plans**

None

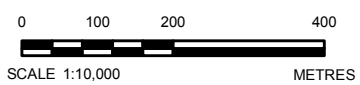
**Excluded Inspection Reports**

None



# **APPENDIX D**

## **Aerial Photographs**



CLIENT  
**URBAN DALE CONSTRUCTION LTD.**

PROJECT  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

TITLE  
**1947 AIR PHOTO**

CONSULTANT	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP



**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

PROJECT 1406495 PHASE 1000 Rev. 0 **FIGURE D1**

Path: N:\ActiveSpatial\1\UrbanDaleHuntmar\_Lands\09\_PROJ\1406495\40\_P\PROJ\1406495-1000-D1.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm



CLIENT  
**URBAN DALE CONSTRUCTION LTD.**

PROJECT  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

TITLE  
**1955 AIR PHOTO**

CONSULTANT	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP



**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

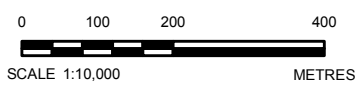
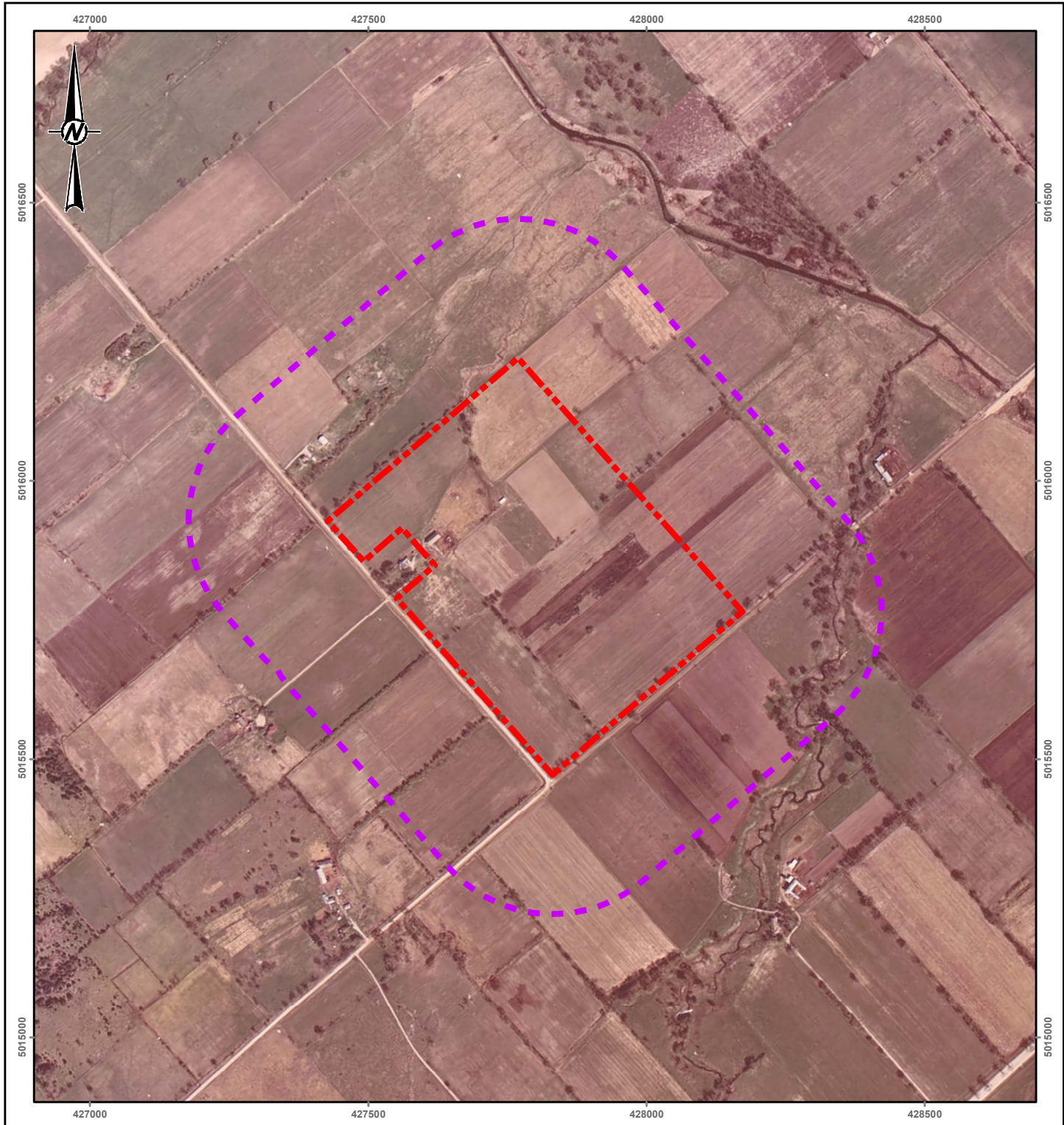
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 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

PROJECT 1406495      PHASE 1000      Rev. 0      FIGURE **D2**

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm





CLIENT  
**URBAN DALE CONSTRUCTION LTD.**

PROJECT  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

TITLE  
**1968 AIR PHOTO**

CONSULTANT	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP



**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

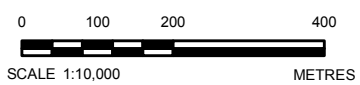
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 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

PROJECT	PHASE	Rev.	FIGURE
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm

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CLIENT  
**URBANDALE CONSTRUCTION LTD.**

PROJECT  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

TITLE  
**1978 AIR PHOTO**

CONSULTANT	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP



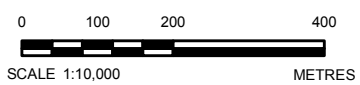
**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

PROJECT	PHASE	Rev.	FIGURE
1406495	1000	0	<b>D4</b>

Path: N:\ActiveSpatial\1\UrbandaleHuntmar\_Lands\09\_PROJ\1406495\04\_P\PROJ\1406495-1000-D4.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm



CLIENT  
**URBAN DALE CONSTRUCTION LTD.**

PROJECT  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

TITLE  
**1985 AIR PHOTO**

CONSULTANT	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP



**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

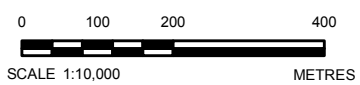
PROJECT 1406495 PHASE 1000 Rev. 0

FIGURE  
**D5**

Path: N:\ActiveSpatial\1\UrbanDaleHuntmar\_Lands\08\_Produ\1406495\0\_Produ\1406495-1000-D5.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm





CLIENT  
**URBAN DALE CONSTRUCTION LTD.**

PROJECT  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

TITLE  
**1999 AIR PHOTO**

CONSULTANT	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP



**NOTES**  
 THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**  
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

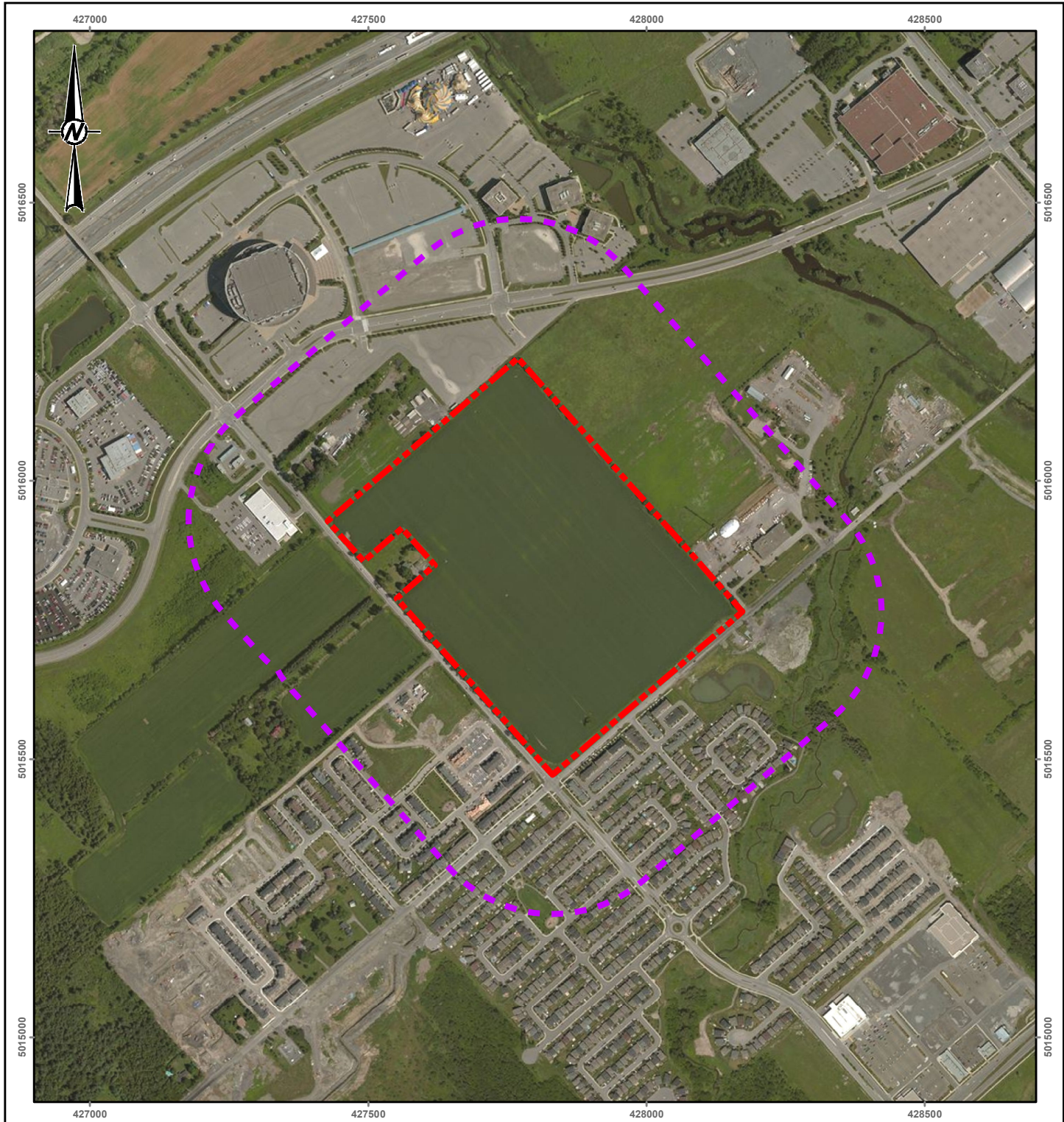
PROJECT 1406495 PHASE 1000 Rev. 0

FIGURE  
**D6**

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm





CLIENT  
**URBAN DALE CONSTRUCTION LTD.**

PROJECT  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 130 HUNTMAR DRIVE, OTTAWA, ONTARIO**

TITLE  
**2013 AIR PHOTO**

CONSULTANT	YYYY-MM-DD	2014-08-21
	PREPARED	JEM
	DESIGN	JL
	REVIEW	BGS
	APPROVED	DHP



**NOTES**

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING  
 GOLDER ASSOCIATES LTD. REPORT NO. 1406495

**REFERENCE**

PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83  
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

PROJECT	PHASE	Rev.	FIGURE
1406495	1000	0	<b>D7</b>

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm



# **APPENDIX E**

## **Site Photographs**





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**APPENDIX E - Site Photographs**  
**130 Huntmar Drive, Kanata, Ontario**

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**Photograph 1:** Looking west along Maple Grove Road.



**Photograph 2:** Looking north from Maple Grove Road, across the Site, towards the Canadian Tire Centre.



## APPENDIX E - Site Photographs 130 Huntmar Drive, Kanata, Ontario



**Photograph 3:** Looking south at pole mounted transformers and the Maple Grove Road pumping station.



**Photograph 4:** Looking northeast towards a communications tower and transportation system maintenance equipment storage area (Maple Grove Depot).





**APPENDIX E - Site Photographs**  
**130 Huntmar Drive, Kanata, Ontario**



**Photograph 5:** Looking south at a waste pile of road debris, located south of the Site (south of Maple Grove Road).



**Photograph 6:** Looking south along Huntmar Drive, Site is to the left in the image.





**APPENDIX E - Site Photographs**  
**130 Huntmar Drive, Kanata, Ontario**



**Photograph 7:** Looking east. AST located on the property at 180 Huntmar Drive.



**Photograph 8:** Looking northeast across the Soy Bean field at the Site, towards the Canadian Tire Centre and Palladium Drive.





**APPENDIX E - Site Photographs**  
**130 Huntmar Drive, Kanata, Ontario**



**Photograph 9:** Looking east across the Site.



**Photograph 10:** Looking West, taken from Canadian Tire Centre Parking Lot (895 Palladium Drive). Construction equipment storage visible on property at 210 Huntmar Drive.



**APPENDIX E - Site Photographs**  
**130 Huntmar Drive, Kanata, Ontario**



**Photograph 11:** Looking south across the Site, towards Maple Grove Road.



**Photograph 12:** Facing west, taken from field entrance off of Huntmar Drive.  
Additional Soy Bean field visible west of Huntmar Drive.





**APPENDIX E - Site Photographs**  
**130 Huntmar Drive, Kanata, Ontario**



**Photograph 13:** Facing northwest. Police Station located west of Huntmar Drive.



**Photograph 14:** Gas Station and convenience store located northwest of the Site, within the Study Area.

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