



October 2016

REPORT ON

Phase One Environmental Site Assessment 100 New Orchard Avenue Ottawa, Ontario

Submitted to:

New Orchard Investment Inc.
300 Lisgar Street, Unit 909
Ottawa, Ontario
K2P 0E2

REPORT



Report Number: 1658362-2000

Distribution:

- 1 copy - New Orchard Investment Inc.
- 1 e-copy - New Orchard Investment Inc.
- 1 copy - Golder Associates Ltd.





Executive Summary

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.

Golder Associates Ltd. (Golder) was retained by New Orchard Investment Inc. (“New Orchard”) to conduct a Phase One Environmental Site Assessment (“Phase One ESA”) of the property located at 100 New Orchard Avenue in Ottawa, Ontario (herein after referred to as the “Site” or “Phase One Property”) as shown on Figures 1 and 2. At the time of the Site reconnaissance, which was conducted on May 31, 2016, the Site consisted of a 952 m² (0.1 hectare) parcel of residential land occupied by a two-storey residential building with one basement level that is divided into four apartment units and a below grade parking garage. There are also two paved driveways and a grassed front and back yard located on the Site.

It is understood that the Phase One Property is to be redeveloped with a residential building with an underground parking garage.

The Phase One ESA was completed in general accordance with Ontario Regulation (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 9.0 of this report. Given that the Site is currently developed residential property and has not been used as an automotive garage, a bulk liquid dispensing facility or a dry cleaning facility, the Site is not considered an enhanced investigation property as defined by O. Reg. 153/04. There is no change in land use proposed; therefore the Phase One ESA has not been completed to support a Record of Site Condition.

Based on the information obtained as part of this Phase One ESA, none of the identified potentially contaminating activities (PCAs) were considered to represent an area of potential environmental concern (APEC) for the Site and a Phase Two ESA is not recommended to be carried out at the Site at this time. However, the following building-related issues of potential environmental concern were identified:

- Based on the age of the building (1945 to 1956), potential ACMs such as floor tiles, dry wall compounds, mortar and window caulking may be present in the Site building; and,
- Based on the age of the building (1945 to 1956), there is a potential for lead-based paints to be present on the walls within this building. Lead may also be present in the solder on the copper water pipes.

As a requirement of the Occupational Health and Safety Act (OH&S Act), a designated substance survey must be completed to confirm the presence/absence of any asbestos and lead containing materials or other designated substances within the on-Site buildings prior to demolition or major renovations of the buildings.

Prior to renovations or demolition of the building, ACMs must be removed in accordance with Ontario Regulation 278/05: Designated Substance - Asbestos on Construction Projects and in Buildings and Repair Operations. Other designated substances must be removed or managed in accordance within the OH&S Act.



PHASE ONE ESA – 100 NEW ORCHARD AVENUE OTTAWA, ONTARIO

At the time of preparation of this report, a response to Golder's request for information had not been received from the City of Ottawa, the Ministry of Natural Resources and Forestry, and the Ministry of the Environment and Climate Change. In addition, Golder was unable to access the below grade parking garage of the on-Site residential building during the Site visit. However, based on the body of information acquired, it is considered that the absence of this information should not likely affect the final conclusion of the Phase One ESA. Golder will review responses to these regulatory requests upon their receipt and should the responses affect the findings of this Phase One ESA, they will be forwarded to the Client. 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.



Table of Contents

| | |
|--|-----------|
| EXECUTIVE SUMMARY | i |
| 1.0 INTRODUCTION..... | 1 |
| 1.1 Phase One Property Information | 1 |
| 2.0 SCOPE OF INVESTIGATION..... | 1 |
| 3.0 RECORDS REVIEW | 2 |
| 3.1 General..... | 2 |
| 3.1.1 Phase One Study Area Determination | 2 |
| 3.1.2 First Developed Use Determination | 2 |
| 3.1.3 Fire Insurance Plans | 2 |
| 3.1.4 Chain of Title..... | 2 |
| 3.1.5 City Directories..... | 3 |
| 3.1.6 Environmental Reports | 3 |
| 3.2 Environmental Source Information | 3 |
| 3.2.1 EcoLog ERIS Report..... | 3 |
| 3.2.2 Ministry of the Environment and Climate Change | 6 |
| 3.2.3 City of Ottawa | 6 |
| 3.2.4 Ministry of Natural Resources and Forestry (MNRF) | 6 |
| 3.2.5 Technical Standards and Safety Authority, Fuel Safety Division Records | 7 |
| 3.3 Physical Setting Sources..... | 7 |
| 3.3.1 Aerial Photographs | 7 |
| 3.3.2 Topography, Hydrology and Geology | 10 |
| 3.3.3 Fill Materials..... | 11 |
| 3.3.4 Water Bodies and Areas of Natural Significance | 12 |
| 3.3.5 Well Records..... | 12 |
| 3.4 Site Operating Records | 12 |
| 4.0 INTERVIEWS..... | 12 |
| 5.0 SITE RECONNAISSANCE | 13 |
| 5.1 General Requirements..... | 13 |
| 5.2 Specific Observations at Phase One Property..... | 13 |



5.2.1 Enhanced Investigation Property 16

5.3 Surrounding Land Use..... 16

5.4 Written Description of Investigation 17

6.0 REVIEW AND EVALUATION OF INFORMATION..... 18

6.1 Current and Past Uses of the Site 18

6.2 Potentially Contaminating Activity..... 18

6.3 Areas of Potential Environmental Concern 20

6.4 Conceptual Site Model 20

6.4.1 Uncertainty and Absence of Information 22

7.0 CONCLUSIONS..... 24

7.1 Record of Site Condition Based on Phase One Environmental Site Assessment Alone 24

8.0 REFERENCES..... 24

9.0 LIMITATIONS AND USE OF REPORT 25

10.0 STATEMENT OF COMPLETION 26

11.0 CLOSURE 26

FIGURES

- Figure 1: Key Plan
- Figure 2: Site Plan
- Figure 3: Topographic Map and Areas of Natural Significance
- Figure 4: Surficial Geology
- Figure 5: Drift Thickness
- Figure 6: Bedrock Geology
- Figure 7: Soil Survey Complex (Ontario Soils)
- Figure 8: Physiography Map

APPENDIX A

Regulatory Responses

APPENDIX B

EcoLog ERIS Report, City Directories

APPENDIX C

Site Photographs

APPENDIX D

Aerial Photographs



1.0 INTRODUCTION

1.1 Phase One Property Information

Golder Associates Ltd. (“Golder”) was retained by New Orchard Investment Inc. (“New Orchard”) to conduct a Phase One Environmental Site Assessment (“Phase One ESA”) of the following property:

| | |
|---------------------------------------|--|
| Municipal Address | 100 New Orchard Avenue |
| Property Identification Number | 039700012 |
| Legal Description | Concession 10F, Part of Lot 24, City of Ottawa |

The Site location is provided on Figure 1. A Site plan is provided on Figure 2.

Authorization to proceed with this investigation was received from Mr. Kevin Zhang on May 31, 2016. The contact information for the Site is:

| Site Owner / Client | Address | Contact Information |
|-----------------------------|---|---|
| New Orchard Investment Inc. | 300 Lisgar Street, Unit 909 Ottawa, Ontario K2P 0E2 | Mr. Kevin Zhang Office: 613-299-5867 Email: kevinzhang@cgmail.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 boundary of the Phase One Study Area is 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;
- 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; 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 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 boundary 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 boundary of the Site was 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 Phase One Property was determined based on review of the aerial photographs, the fire insurance plans (FIPs), the city directories and the EcoLog Environment Risk Information Service Ltd. (ERIS) report. The Phase One Property is vacant undeveloped land in the 1945 aerial photograph; however, the 1956 FIP shows that the Phase One Property was occupied by a residential house at that time. Therefore, the first development on the Phase One Property was determined to be sometime between 1945 and 1956, and included the current Site building.

3.1.3 Fire Insurance Plans

Golder conducted a search of available Fire Insurance Plans (FIPs) for the Phase One Property and the surrounding properties within the Phase One Study Area. The only FIP available for the Site and surrounding properties was a 1956 FIP. This FIP indicated that the Site was developed with a residential dwelling fronting on New Orchard Avenue and that the surrounding properties within the Phase One Study Area were mainly occupied by single residential buildings and a few commercial properties. The CP railway is shown running southwest to northeast on the adjacent lands northwest of the Site and is located approximately 10 m from the Site. In addition, the Ottawa Electric Railway is located on the adjacent lands south of the Site running parallel to the CP railway. Noteworthy commercial properties on the surrounding properties south of the Site are as follows:

- A hydro substation is located immediately south of the Site at 106 New Orchard Avenue (currently 108 New Orchard Avenue). The 1956 FIP shows that the substation building is located on the northeast corner of the property and that the transformers are located on the southern portion of the property; and,
- A retail fuel outlet with two associated fuel USTs is located at 1051 Richmond Road (currently 1075 Richmond Road), approximately 155 m south of the Site.

Based on the review of the FIPs, the former presence of a railway, a hydro substation and a retail fuel outlet with fuel USTs within the Phase One Study Area are off-Site PCAs.

3.1.4 Chain of Title

From Golder's review of aerial photography and other information, the Phase One Property has been developed as a residential property since sometime between 1945 and 1956. Chain of Title information was not ordered as it was deemed that the other information from the records review would satisfy the objectives of the records search and that the information to be provided in a Chain of Title would not contribute additional environmental information relevant to the Phase One ESA.



3.1.5 City Directories

Golder ordered a street directory search from EcoLog ERIS. A review of historical street directories for the years 1949, 1954, 1959, 1965, 1969, 1974, 1979, 1984, 1990, 1995/96, 2000/01, 2005/06 and 2011 was completed by EcoLog ERIS for the Phase One Property and select surrounding properties (within 250 m).

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

- The Phase One Property, located at 100 New Orchard Avenue, was listed as a residential property with one to two tenants in the 1959 and subsequent directories. The Phase One Property was not listed in the street directories searched prior to 1959;
- 99 New Orchard Avenue was listed as a nursing home in the street directories searched between 1969 and 1984 and as a nursing home and a multi-tenant residential building in the 1990 and subsequent street directories. It is likely that the multi-tenant residential building is referring to the nursing home;
- 108 New Orchard Avenue (formerly 106 Richmond Road) was listed as a multi-tenant residential property in the street directories searched between 1990 and 2011;
- 118 New Orchard Avenue was listed as a multi-tenant residential property in the 1960 and subsequent street directories with the exception of the 1984 and 1990 street directories in which it was not listed;
- 1047 Richmond Road was listed as a car dealership in the 1965 and subsequent street directories;
- 1071 Ambleside Drive was listed as multi-tenant residential property in the 1965 street directories and as a mixed residential and commercial property occupied by a multi-tenant residential building and a variety of commercial companies in the 1969 and subsequent street directories. None of the commercial companies that have been located on this property are considered to be PCAs;

Based on the review of the street directories, no PCAs were identified on the Site. However, the car dealership located at 1047 Richmond Road is likely to have had a service location/automotive garage and as such is considered to be an off-Site PCA.

3.1.6 Environmental Reports

No previous environmental reports related to the Phase One Study Area were available for review.

3.2 Environmental Source Information

3.2.1 EcoLog ERIS Report

Golder contracted EcoLog ERIS to conduct a search of environmental sources, including federal, provincial, and private sector databases, for information on the Phase One Property and Study Area. The EcoLog ERIS report is provided in Appendix B.



**PHASE ONE ESA – 100 NEW ORCHARD AVENUE
OTTAWA, ONTARIO**

The databases searched included the following:

| Federal | Provincial | Private |
|---|---|---|
| <ul style="list-style-type: none"> ▪ Contaminated Sites on Federal Land ▪ Environmental Effects Monitoring ▪ Environmental Issues Information System ▪ Federal Convictions ▪ Fisheries & Oceans Fuel Storage Tanks ▪ Indian & Northern Affairs Fuel Tanks ▪ National Analysis of Trends in Emergencies System (NATES) ▪ National Defence & Canadian Forces Fuel Storage Tanks ▪ National Defence & Canadian Forces Spills ▪ National Defence & Canadian Forces Waste Disposal Sites ▪ National Environmental Emergencies System (NEES) ▪ National PCB Inventory ▪ National Pollutant Release Inventory ▪ Parks Canada Fuel Storage Tanks ▪ Transport Canada Fuel Storage Tanks | <ul style="list-style-type: none"> ▪ Abandoned Aggregate Inventory ▪ Abandoned Inventory ▪ Aggregate Mine Information System ▪ Borehole ▪ Certificates of Approval ▪ Certificates of Property Use ▪ Commercial Fuel Oil Tanks ▪ Compliance and Convictions ▪ Drill Hole Database ▪ Environmental Activity and Sector Registry ▪ Environmental Compliance Approval ▪ Environmental Registry ▪ Fuel Storage Tank ▪ Fuel Storage Tank – Historic ▪ Inventory of Coal Gasification Plants and Tar Sites ▪ Inventory of PCB Storage Sites ▪ Landfill Inventory Management Ontario ▪ List of TSSA Expired Facilities ▪ Mineral Occurrences ▪ Non-Compliance Reports ▪ Ontario Oil and Gas Wells ▪ Ontario Regulation 347 Waste Generators Summary ▪ Ontario Regulation 347 Waste Receivers Summary ▪ Ontario Spills ▪ Orders ▪ Permit to Take Water ▪ Pesticide Register ▪ Private and Retail Fuel Storage Tanks ▪ Record of Site Condition ▪ TSSA Historic Incidents ▪ TSSA Incidents ▪ TSSA Pipeline Incidents ▪ TSSA Variances for Abandonment of Underground Storage Tanks ▪ Waste Disposal Sites - MOECC 1991 Historical Approval Inventory ▪ Waste Disposal Sites - MOECC CA Inventory ▪ Wastewater Discharger Registration Database ▪ Water Well Information System | <ul style="list-style-type: none"> ▪ Anderson's Storage Tanks ▪ Anderson's Waste Disposal Sites ▪ Automobile Wrecking & Supplies ▪ Canadian Mine Locations ▪ Canadian Pulp and Paper ▪ Chemical Register ▪ ERIS Historical Searches ▪ Oil and Gas Wells ▪ Retail Fuel Storage Tanks ▪ Scott's Manufacturing Directory |



The complete EcoLog ERIS report, including a brief description of each of the databases searched for the Phase One ESA, is included in Appendix B.

The following is a summary of the findings as identified within the EcoLog ERIS report for the Site and for the surrounding properties within the Phase One Study Area:

On-Site

The EcoLog ERIS report identified that there were no records found for the Site.

Surrounding Properties within 250 metres of the Site

Noteworthy records for the Phase One Study Area (excluding the Phase One Property) included the following:

- Borehole (BORE) – There are seven borehole listings within the Phase One Study Area. The boreholes were completed between May 1953 and September 1972 to depths ranging between 4.3 metres below ground surface (mbgs) and 29.0 mbgs. Limestone bedrock was encountered in six of the boreholes at depths ranging between 3.0 mbgs and 7.0 mbgs. The static water levels were not reported.
- Certificates of Approval (CA) – There are four Certificates of Approval (C of As) listings within the Phase One Study Area. One of the C of As was issued for municipal water, one was issued of municipal sewage and two were issued for air.
- Environmental Activity and Sector Registry (EASR) – There are two records listed in the EASR database that indicate that car dealerships located at 1047 and 1075 Richmond Road were registered with the EASR as facilities that provide automotive refinishing services. These car dealerships were located approximately 55 m east/southeast and 155 m south of the Site, respectively. There was also one record in the EASR database that indicated that a nursing home (Extendicare Inc.) located at 99 New Orchard Avenue was registered as a provided or operator of a standby power system.
- Environmental Registry (EBR) – Car dealerships located at 1047 and 1075 Richmond Road were listed in the Environmental Registry as have requested a C of A for discharge into the natural environment other than water (i.e. air) in 1997 and 2002, respectively;
- Ontario Regulations 347 Waste Generators Summary (GEN) – A nursing home located at 99 New Orchard Avenue was listed as a waste generating site. The records indicate that the nearby nursing home was approved as a waste generator of inorganic laboratory chemicals, waste oils and lubricants, light fuels and oil skimmings and sludge in 2006 and 2010.
- Ontario Spills (SPL) – There is one record of a spill occurring within the Phase One Study Area. The spill reportedly occurred at a private residence located at 1162 Byron Avenue, approximately 225 m east of the Site, when 200 L of furnace oil spilled to a floor drain from a heating oil tank due to equipment failure. The record indicated that the spill occurred in 1988 and that environmental impact due to the spill was not anticipated.
- Water Well Information System (WWIS) – There are five water wells within the Phase One Study Area. They were constructed between September 1948 and May 2007. The depths of the wells ranged from 3.6 mbgs to 29.26 mbgs and the static water levels ranges from 1.83 mbgs to 9.14 mbgs.



The EcoLog ERIS report identified car dealerships at 1047 and 1075 Richmond Road. At the time of the Site visit, the car dealerships located at these locations had automotive garages. As such, the presence of these car dealerships with associated automotive garages are considered to be off-Site PCAs. A 200 L furnace oil spill was reported to have occurred on the surrounding lands east of the Site; however, given the distance and amount of infrastructure between the Site and the location of the spill and that environmental impact due to the spill was not anticipated, it is not considered to be an issue of potential environmental concern. The EcoLog ERIS report identified a waste generating site within the Phase One Study Area. The presence of waste generators alone is not considered an issue of concern on its own as there is no information as to the handling practices at the identified sites; however, it is an indication of the presence of chemical storage.

3.2.2 Ministry of the Environment and Climate Change

The Ottawa district office of the Ontario Ministry of Environment and Climate Change (MOECC) was contacted (refer to copy of correspondence in Appendix A) to provide an Index Report with respect to active orders and approvals for the Site as detailed below:

- Active orders under the Environmental Protection Act (EPA), the *Ontario Water Resources Act* (OWRA), and the *Pesticides Act* (PA); and,
- Approvals under Sections 9 and 39 of the EPA as well as Sections 52 and 53 of the OWRA.

At the time of preparation of this report a response from the MOECC was not received.

3.2.3 City of Ottawa

Golder forwarded a request (refer to copy of correspondence in Appendix A) to the City of Ottawa (“City”), for the following information:

- Active orders under the EPA, the OWRA, and the 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 dump sites on or in proximity to the Site; and,
- Any other environmental information.

At the time of preparation of this report a response from the City was not received.

3.2.4 Ministry of Natural Resources and Forestry (MNR)

An information request was sent to the Ministry of Natural Resources and Forestry (MNR) on September 22, 2016. 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.

At the time of preparation of this report a response from the MNR was not received.



3.2.5 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.

Ms. Prem Lal of the TSSA replied on September 26, 2016 and indicated that the TSSA did not have any records for the addresses searched for the Phase One Property or in the Phase One Study Area.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Aerial photographs of the Site and neighbouring properties were obtained from the National Air Photo Library (Natural Resources Canada) for the years 1945 and 1982. In addition, the aerial photographs for 1958, 1965, 1976, 1991, 1999, 2002 and 2014 from the City of Ottawa geo-map (<http://maps.ottawa.ca/geoOttawa/>) were reviewed on-line. Golder selected aerial photographs based on availability and date intervals to help develop an understanding of the history of the development of the Phase One Property and Phase One Study Area. 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 1945. The aerial photographs from 1945 and 1982 are included in Appendix D.

Information obtained from the review of the aerial photographs is summarized in the following table:

| Year | Site | Surrounding Area |
|------|---|--|
| 1945 | The Site appears to be occupied by vacant and treed land. | <p>North: A railway running southwest to northeast is located approximately 10 m of the Site beyond which are several single residential buildings and the Ottawa River.</p> <p>East: Primarily vacant land with a few residential buildings. The Ottawa Electric Railway is also present approximately 150 m southeast of the Site and intersects the eastern portion of the Phase One Study Area.</p> <p>South: Mainly vacant land with some residential buildings. The Ottawa Electric Railway is located southeast of the Site between Richmond Road and Byron Avenue.</p> <p>West: A railway running southwest to northeast followed by multiple single residential buildings and the Ottawa River northwest of the Site.</p> |



**PHASE ONE ESA – 100 NEW ORCHARD AVENUE
OTTAWA, ONTARIO**

| Year | Site | Surrounding Area |
|----------------------------------|--|--|
| 1958 City of Ottawa geomap | The Site is occupied by a single residential house and an associated driveway. | <p>North: Similar to 1945; however, many of the residential buildings have been removed.</p> <p>East: Similar to 1945 with the addition of a few roadways and residential houses southeast of the Site.</p> <p>South: Similar to 1945 with the addition of a few residential houses and a retail fuel outlet with two associated fuel pump islands which is located approximately 155 m south of the Site at 1075 Richmond Road (formerly 1051 Richmond Road). The adjacent property immediately south of the Site (108 New Orchard Avenue, formerly 106 New Orchard Avenue) appears to be occupied by a hydro substation as a commercial-type building and what appear to be transformers are located on this property.</p> <p>West: Similar to 1945; however, most of the residential buildings have been removed.</p> |
| 1965 City of Ottawa geomap | As per 1958. | <p>North: The residential buildings have been removed and the banks along the Ottawa River (approximately 100 m northwest of the Site) are being filled in, likely for the construction of the Sir John A. MacDonald Parkway.</p> <p>East: Similar to 1958 with increasing commercial development.</p> <p>South: Similar to 1958; however, the Ottawa Electric Railway has been removed and a high-rise residential apartment building has been constructed on the lands southwest of the Site. Another structure that is only partially roofed has been built on the hydro substation property south of the Site. Transformers may be present within this structure; however, this cannot be confirmed due to the quality of the aerial photographs.</p> <p>North and West: The residential buildings have been removed and the banks along the Ottawa River (approximately 100 m northwest of the Site) are being filled in, likely for the construction of the Sir John A. MacDonald Parkway.</p> |



**PHASE ONE ESA – 100 NEW ORCHARD AVENUE
OTTAWA, ONTARIO**

| Year | Site | Surrounding Area |
|----------------------------------|--|---|
| 1976 City of Ottawa geomap | As per 1965. | <p>North: The railway has now been removed. The lands are now occupied by vacant and treed land with a paved pathway followed by the Sir John A. MacDonald Parkway and the Ottawa River.</p> <p>East: Similar to 1965 with increasing commercial and residential development.</p> <p>South: Similar to 1965 with the addition of another high-rise residential apartment building on the lands southwest of the Site. The original structure built on the hydro substation property immediately south of the Site has been removed; however, transformers may still be present within the other structure. In addition, the retail fuel outlet at 1075 Richmond Road has now been removed and this property is now occupied by another commercial building.</p> <p>West: The railway has now been removed. The lands are now occupied by vacant and treed land with a paved pathway followed by the Sir John A. MacDonald Parkway and the Ottawa River.</p> |
| 1982 | Similar to 1976; however, an addition to the house has been made on the northern side of the building and another paved driveway is located on the northeast corner of the Site. | North, East, South and West: As per 1976. |
| 1991 City of Ottawa geomap | As per 1986. | North, East, South and West: As per 1982. |
| 1999 City of Ottawa geomap | As per 1986. | <p>North: Similar to 1991; however the Trans Canada Trail has been constructed along the Ottawa River.</p> <p>East: As per 1991.</p> <p>South: Similar to 1991; however, the hydro substation is no longer present. This property is now occupied by a residential apartment building.</p> <p>West: Similar to 1991; however the Trans Canada Trail has been constructed along the Ottawa River.</p> |
| 2002 City of Ottawa geomap | Similar to 1991; however, a new roof has been put on the residential house. | North, East, South and West: As per 1999. |
| 2014 City of Ottawa geomap | As per 2002. | North, East, South and West: As per 2002. |



Based on the aerial photographs, the Phase One Property appears to have been developed with one residential building between 1945 and 1958. The current Site building has remained present on the Site since this time; however, an addition to the residential building was made on the north side of the building between 1975 and 1982. Prior to development the Phase One Property was a vacant and treed lot.

The surrounding properties north and west of the Site were developed prior to 1945 and included several residential buildings, a railway and the Ottawa River. The railway ran southwest to northeast and was located approximately 10 m northwest of the Site. It was present on these lands since prior to 1945 until sometime between 1965 and 1976. The residential buildings were removed from the lands north and west of the Site by 1965, at which time filling of the banks of Ottawa River was occurring, likely for the construction of the Site John A. MacDonald Parkway which occurred between 1965 and 1976. Since this time, the lands north and west of the Site have consisted of vacant and treed land, paved pathways, the Sir John A. MacDonald Parkway and the Ottawa River.

The adjacent lands south and east of the Site were developed with residential properties prior to 1945 but were primarily occupied by vacant land. Increasing residential and commercial development occurred on these lands between 1945 and 1976. By 1976, the adjacent lands south and east of the Site were fully developed and consisted of residential properties and well as a few commercial properties. The Ottawa Electric Railway was also present on the lands southeast of the Site since prior to 1945 until sometime between 1958 and 1965. In addition, a retail fuel outlet has been located south of the Site at 1075 Richmond Road since sometime between 1945 and 1976 and a hydro substation was located on the property immediately south of the Site (108 Richmond Road) since sometime between 1945 and 1999.

The aerial photograph review of the Site and surrounding area (within approximately 250 m) did not identify any on-Site PACs; however, it did indicate an off-Site PCA associated with the former railway, hydro substation and retail fuel outlet located within the Phase One Study Area.

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 and the Phase One Study Area and the location of any water bodies is provided in Figure 3. Additional information on Site features, as observed at the time of the Site visit, is provided in Section 6.

| Topic | Conditions | Comment / Source |
|--|---|--|
| Topography of Site and Surrounding Area | The topography of the Site and surrounding area is uneven with an overall slope to the northwest. | Site and surrounding area observations and Figure 3 – Topographic Map and Areas of Natural Significance |
| Overburden Soils | Till: plain with local relief (< 5 metres). | Bélanger, J. R. 2008 Urban Geology of the National Capital Area, Geological Survey of Canada, Open File 5311, 1 DVD. |



| Topic | Conditions | Comment / Source |
|--|--|--|
| Type of Bedrock | Rockcliffe Formation: sandstone, shale, limestone and dolomite. | Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release – Data 219 |
| Depth to Bedrock | The depth to bedrock is expected to be between 5 and 10 mbgs. | 2010 Bélanger, J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open File D3256, 2001 |
| Inferred Near Surface Groundwater Flow | Local groundwater is anticipated to flow northwest towards the Ottawa River. | Site and surrounding area observations, Figure 1 – Key Plan and Figure 3 – Topographic Map and Areas of Natural Significance |
| Site Grade Relative to the Adjoining Properties | The Site appears to follow the topography of the area and is below the grade of the surrounding properties southeast of the Site, above the grade of the surrounding properties northwest of the Site and is generally at grade with the surrounding properties southwest and northeast of the Site. | Site and surrounding area observations and Figure 3 – Topographic Map and Areas of Natural Significance |
| Depth to Groundwater | Not identified. | N/A |

It should be noted that local groundwater flow may be influenced by underground utilities (i.e., service trenches) and building structures. For example, the gravel pack used around utilities, such as a water line, can act as interceptors and redirect groundwater flow along the direction of the pipe. If a more accurate description of geology, groundwater flow and groundwater quality is required, a subsurface investigation would be necessary.

3.3.3 Fill Materials

| Topic | Conditions | Comment / Source |
|-----------------------|---|-------------------------|
| Fill Materials | No fill materials were observed or reported. No piles of fill material were observed on the Site. Fill material may have been used for construction purposes (backfill around residential building and parking sub-grade material). | Site observations |



3.3.4 Water Bodies and Areas of Natural Significance

| Topic | Conditions | Comment / Source |
|--------------------------------------|--|--|
| Nearest Open Water Body | The nearest permanent watercourse is the Ottawa River which is located approximately 160 m northwest of the Site. | Site observations and Figure 1– Key Plan |
| Areas of Natural Significance | No areas of natural and scientific interest (ANSI) are known to be located on the Site or on the Phase One Study Area. Based on available information, the Site is not considered to be an environmentally sensitive area. However, a response from the MNRF has not been received to confirm this. As such, the Site is not considered an area of natural significance. | Figure 3 (Topographic Map and Areas of Natural Significance) |

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 bedrock, depth to water table, drilling date, use) | Based on the EcoLog ERIS report no water wells are located on the Site. | EcoLog ERIS Report and Site observations |
| 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) | Based on the EcoLog ERIS report, there are five water wells within the Phase One Study Area. They were constructed between September 1948 and May 2007. The depths of the wells ranged from 3.6 mbgs to 29.26 mbgs and the static water levels ranges from 1.83 mbgs and 9.14 mbgs. | EcoLog ERIS Report |

3.4 Site Operating Records

At the time of the Site visit, the Phase One Property was developed with a residential building, two paved driveways and a vegetated front and back yard. No Site operating records were provided to Golder for review.

4.0 INTERVIEWS

At the time of the Site visit, Golder conducted an interview with Kevin Zhang of New Orchard (hereinafter referred to as the “Site Representative”) to discuss information about the historical and current activities carried out on the Site. 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 during the interview and Site visit is provided in Section 5.0.



5.0 SITE RECONNAISSANCE

5.1 General Requirements

Keith Holmes, P.Geo. of Golder visited the Site on May 31, 2016. 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 Site was occupied by a multi-tenant residential building with a below grade parking garage beneath half the site building, two paved driveways and a grassed front and back yard.

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

5.2 Specific Observations at Phase One Property

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

| Topic | Observations | Source |
|---|---|---|
| Structures Number and Age of Buildings on the Site | There is one building on the Site. The southern half of the building was constructed between 1945 and 1956. The northern half of the building was constructed between 1976 and 1982. | Site observations and aerial photographs |
| General Descriptions of Each Building (including improvements) | <p>The Site building is a multi-tenant, two storey residential building with one basement level. The residential house is divided into four apartment units and a below grade parking garage which is located on the northeast corner of the building. Two of the apartment units are located in the basement and the other two apartment units are located above ground. The second floor of the house is only a partial floor and is located on the northwest corner of the house. One of the main floor apartment units occupies the space on the second floor in addition to space on the main floor.</p> <p>Construction of the southern/older half of the building is brick on a poured concrete foundation and construction of the northern/newer half of the building is vinyl siding on a wood frame on a poured concrete foundation. The interior of the building is finished with a combination of drywall, plaster, carpet and vinyl flooring. Access was not provided to the interior of the garage at the time of the Site visit.</p> | Site observations and Site Representative |
| Building Areas | The footprint of the building is approximately 260 m ² . | Site observations |
| Number of Floors (include all levels, whether above or below ground) | The residential building has three levels, two of which are aboveground and one of which is below ground. The second floor is a partial floor and is located on the northwest corner of the building. | Site observations |



**PHASE ONE ESA – 100 NEW ORCHARD AVENUE
OTTAWA, ONTARIO**

| Topic | Observations | Source |
|---|--|---|
| Number, Age, and Depth of Levels Below Ground Level | The residential building has one level below ground. The below ground level located on the southern/older part of the building was constructed prior to 1945 and the below ground level on the northern/newer part of the building was constructed between 1976 and 1982. | Site observations, Site Representative and aerial photographs |
| Number and Details of all Aboveground Storage Tanks (“ASTs”) | <p>There were no ASTs observed on the Site at the time of Site visit. A pipe and a filled in hole for a former pipe were observed in the exterior portion of the basement foundation on the north side of the on-Site building. They are likely former fill and vent pipes for a heating oil AST that was located in the below grade parking garage. Given that the AST is no longer being used, it may have been removed from the Site; however, this could not be confirmed as access into the parking garage was not provided during the Site visit.</p> <p>The current and/or former presence of this AST on the Phase One Property and is an on-Site PCA.</p> <p>Also, based on the age of the adjacent buildings within the Phase One Study Area, there is a potential that they formerly had, or still have, fuel oil storage tanks that were most likely ASTs.</p> | Site observations |
| Number and Details of all Underground Storage Tanks (“USTs”) | No evidence (fill/vent pipes extending through slabs/ground surface, no staining or any obvious odours) was observed during the Site visit to indicate the current or former presence of fuel or chemical USTs on the Site. However, based on the age of the adjacent buildings within the Phase One Study Area, there is a potential that they formerly had, or may still have, fuel oil storage tanks. Although the storage tanks would have likely been ASTs, this could not be confirmed. | Site observations |
| Asbestos-Containing Materials (ACMs) | Based on the age of the building (1945 to 1956), potential ACMs such as floor tiles, dry wall compounds, mortar and window caulking may be present in the Site building. | Site observations |



| Topic | Observations | Source |
|---|---|---|
| Polychlorinated Biphenyls (PCB) Containing Materials and Equipment | No evidence was observed during the Site visit to indicate the current or former presence of PCB-containing material or equipment. Several pad-mounted and pole-mounted transformers were noted adjacent to the roads within the Phase One Study Area. No evidence of spills or leaks was noted in the area of the transformers at the time of the Site visit. No labels indicating whether the transformers are PCB-containing or not were noted on any of the transformers. | Site observations |
| Lead-Based Paints (LBPs) | Based on the age of the building (1945 to 1956), there is a potential for lead-based paints to be present on the walls within this building. Lead may also be present in the solder on copper water pipes. | Site observations |
| <u>Underground Utilities</u> Potable and Non-Potable Water Sources | The Site is connected to the municipal water supply. There were no non-potable water sources identified at the Site at the time of the Site visit. | Site observations and Site Representative |
| Utility Lines Present (i.e. Electrical, Natural Gas, other) | Overhead electrical lines were present along the eastern Site boundary. Overhead electrical lines also ran from the southeast corner of the house to an off-Site hydro pole located near the eastern corner of the Site. | Site observations |
| Sanitary/Process Wastewater Receptor | Sanitary wastewater is generated on-Site and discharged to the municipal sanitary sewer. No process wastewater is generated on-Site. | Site observations |
| Sanitary Sewer Connection | Sanitary wastewater is generated on-Site and discharged to the municipal sanitary sewer. No process wastewater is generated on-Site. | Site observations and Site Representative |
| Septic Systems | None identified. | Site observations and Site Representative |
| Storm Water Flow | Storm water run-off is through natural soil infiltration. | Site observations |
| Storm Sewer Connection | The Site is not connected to the municipal storm sewer. | Site observations |
| <u>Interior of Structures</u> Entry and Exit Points for Site Buildings | The residential building has six entry and exit points. Three of the entry and exit points, including the garage, are located on the east side of the building, one is located on the south side of the building and two are located on the west side of the building. | Site observations |
| Existing and Former Heating System(s) (include fuel type / source) | The Site building is heated via natural gas. Prior to natural gas it was heated with oil. The former heating oil was stored in an AST located in the basement which has likely been removed. | Site observations |



| Topic | Observations | Source |
|---|--|---|
| Existing and Former Cooling System(s) (include fuel type / source) | None identified. | Site observations |
| Drains, Pits, and Sumps (include current use, if any, and former use) | None identified. | Site observations |
| Unidentified Substances | None identified. | Site observations |
| Floor Stains or Corrosion Located near a Potential Discharge Location | None identified. | Site observations |
| <u>Miscellaneous Exterior</u> Location of any Current and Former Wells | None identified. | Site observations |
| Ground Cover (i.e., grass, gravel, soil, or pavement, etc.) | The majority of the Site exterior consists of grassed front and back yards with a few trees. Paved driveways were observed on the southeast and northeast corners of the Site. | Site observations |
| Current or Former Railway Lines or Spurs | None observed or reported. | Site observations. |
| Presence of Stained Soil, Vegetation, or Pavement | None observed. | Site observations |
| Presence of Stressed Vegetation | None observed. | Site observations |
| Areas Where Fill and/or Debris Materials Appear to Have Been Placed | No piles of fill material or debris were observed during the Site visit. | Site observations |
| Potentially Contaminating Activity | The current and/or former presence of a heating oil AST on the Phase One Property is an on-Site PCA. | Site observations and Site Representative |
| Unidentified Substances | None identified. | Site observations |

5.2.1 Enhanced Investigation Property

The Site is occupied by a residential building, two paved driveways, a front yard and a backyard and has not been used as an automotive garage, a bulk liquid dispensing facility or a dry cleaning facility. As such, the Site is not considered to be an enhanced investigation property as defined by O. Reg. 153/04.

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 and commercial land uses as well as greenspaces/vacant land, as illustrated on Figure 2.

North: Vacant land and a paved pathway followed by the Sir John A. MacDonald Parkway, the Trans Canada Trail and the Ottawa River.

East: New Orchard Avenue followed by a mix of residential (a nursing home, high-rise apartment building and single residential houses) and commercial development. A diesel generator with an associated diesel AST was located on the north side of the nursing home at 99 New Orchard Avenue, approximately 20 m northeast of the Site. It appeared to be in good condition and was located on a concrete pad. No evidence of spills or staining was observed in the vicinity of generator/AST. In addition, a car dealership (Metro Chrysler Dodge Jeep and Ram) with an associated automotive garage was located approximately 55 m east/southeast of the Site at the 1047 Richmond Road.

South: Residential apartment buildings and a car dealership (Ottawa Honda Pre-owned) with an associated automotive garage followed by Richmond Road, Byron Avenue and multiple single residential houses southeast of the Site. The car dealership with an automotive garage was located at approximately 155 m south of the Site at 1075 Richmond Road. A residential apartment building was located on the adjacent property south of the Site (99 New Orchard Avenue). During the Site visit, fill and vent pipes were observed in the northern exterior wall of the residential building and were likely the fill and vent pipes for a fuel AST located in the basement of the building and associated with a generator.

West: Vacant land, parking lot and paved pathway followed by the Sir John A. MacDonald Parkway, the Trans Canada Trail and the Ottawa River.

5.4 Written Description of Investigation

The Site is located at 100 New Orchard Avenue in Ottawa, Ontario and is bounded to the east by New Orchard Avenue. At the time of the Site visit, which was conducted on May 31, 2015, the Site consisted of an approximately 0.24 acre parcel of residential land occupied by a residential building, two paved driveways and a vegetated front and back yard. The residential building is two-storey building with one basement level. The building is divided into four apartment units over three levels and below grade parking garage that is located on the northern half of the basement level. The surrounding properties within the Phase One Study Area included residential and commercial land uses as well as vacant land.

During the Site visit, a pipe and a filled in hole of a former pipe were observed in the exterior portion of the basement foundation on the north side of the building. They are likely former fill and vent pipes for a heating oil AST that was located in the below grade parking garage. Given that the AST is no longer being used, it may have been removed from the Site; however, this could not be confirmed as access into the parking garage was not provided during the Site visit. The former and/or current presence of this heating oil AST is an on-Site PCA.

It was noted during the Site visit that two car dealerships, each with an associated automotive garage, were located within the Phase One Study Area. One was located approximately 55 m east/southeast of the Site at 1047 Richmond Road and the other was located approximately 155 m south of the Site at 1075 Richmond Road. A diesel generator with an associated diesel AST was observed on the nursing home property at 99 New Orchard Avenue, approximately 20 m northeast of the Site. It appeared to be in good condition and was located on a concrete pad. No evidence of spills or staining was observed in the vicinity of generator/AST. In addition, fill



and vent pipes were observed in the northern exterior wall of the residential building located immediately south of the Site (108 New Orchard Avenue). The fill and vent pipes were likely for a fuel AST located in the basement of the building and associated with a generator. The current presence of the car dealerships with associated automotive garages and fuel ASTs for generators are considered to be off-Site PCAs.

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 Phase One Property:

| Year(s) | Name of Owner(s) | Description of Property Use | Property Land Use according to Reg.153/04 | Other Observations from Aerial Photographs, Fire Insurance Plans, Etc. |
|------------------------|---|--|---|--|
| Prior to 1945 | Unknown | Undeveloped | Agricultural or other use | The 1945 aerial photograph shows that the Site is undeveloped vacant land with vegetation. No aerial photograph coverage was available for prior to 1945. |
| 1945 to 1956 | Unknown | The current Site residential building was constructed on the Site between 1945 and 1956. | Residential | The 1956 FIP shows that the Site is developed with one residential building. |
| 1956 to Present (2016) | Currently owned by New Orchard Investment Inc.; however, the name of prior owners is unknown. | Residential dwelling. | Residential | The 1956 FIP shows that the Site is developed with one residential building. The 1958 and subsequent aerial photographs show that the Site is occupied by a residential building. At the time of the Site visit, on May 31, 2016, the Site was occupied by a residential building. |

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 within the Phase One Study Area:

| Location | Potentially Contaminating Activity | Information Source | Rationale for Potential Contribution of the PCA to an APEC |
|--------------------|---|---|---|
| Phase One Property | #28. Gasoline and Associated Products Storage in Fixed Tanks – Current and/or former presence of a fuel oil AST on the Site. | Site observations and Site Representative | The PCA is located on the Phase One Property. However, given that the AST was located on a concrete basement floor in the residential building and that there are no documented spills or leaks, it is not considered to represent an APEC on the Site. |



| Location | Potentially Contaminating Activity | Information Source | Rationale for Potential Contribution of the PCA to an APEC |
|----------------------|--|---|--|
| Phase One Study Area | <p>#18. Electricity Generation, Transformation and Power Stations – Former presence of a hydro substation located immediately south of the Site at 108 New Orchard Avenue (formerly 106 New Orchard Avenue).</p> | <p>FIPs and aerial photographs</p> | <p>Given that the hydro substation was located off-Site, that there have been no reported spills from the hydro substation and that future redevelopment of the Site is likely to include the removal of any soil impacts on the Site, this PCA is not considered to be a represent an APEC on the Site.</p> |
| | <p>#46. Rail Yards, Tracks and Spurs – Former presence of a railway located approximately 10 m north of the Site.</p> | <p>FIPs and aerial photographs</p> | <p>Given that there have been no reported spills along the railway, that the railway was located hydraulically down-gradient with respect to the Site and that future redevelopment of the Site is likely to include the removal of any soil impacts on the Site, this PCA is not considered to represent an APEC on the Site.</p> |
| | <p>#10. Commercial Autobody Shops – Current presence of car dealership with an automotive garage located at 1047 Richmond Road; approximately 55 m east/southeast of the Site.</p> | <p>Site observations, aerial photographs, City Directories and EcoLog ERIS Report</p> | <p>Given that this PCA is located greater than 50 m from the Site and is separated from the Site by New Orchard Avenue and its underlying services, this PCA is not considered to represent an APEC on the Site.</p> |
| | <p>#10. Commercial Autobody Shops – Current presence of car dealership with an automotive garage located at 1075 Richmond Road (formerly 1051 Richmond Road); approximately 155 m south of the Site.</p> | <p>Site observations, aerial photographs, City Directories and EcoLog ERIS Report</p> | <p>Given the distance and amount of infrastructure between the Site and this facility and that was it was located hydraulically cross-gradient with respect to the Site, it is not considered to be a PCA that will result in an APEC on the Site.</p> |
| | <p>#28. Gasoline and Associated Products Storage in Fixed Tanks – Former presence of a retail fuel outlet with two fuel USTs located approximately 155 m south of the Site at 1075 Richmond Road (formerly 1051 Richmond Road).</p> | <p>FIPs and aerial photographs</p> | <p>Given that this facility was located hydraulically down-gradient with respect to the Site and was separated from the Site by 155 m including Richmond Road and its underlying services, it is not considered to be a PCA that will result in an APEC on the Site.</p> |



| Location | Potentially Contaminating Activity | Information Source | Rationale for Potential Contribution of the PCA to an APEC |
|----------|---|--------------------|---|
| | <p>#28. Gasoline and Associated Products Storage in Fixed Tanks – Former and/or current presence of fuel oil storage tanks located at some of the residential buildings within the Phase One Study Area.</p> | EcoLog ERIS report | <p>The storage tanks were likely ASTs located on concrete floors in the basements of the residential buildings. The EcoLog ERIS report identified one furnace oil spill within the Study Area; however, it was located greater than 200 m from the Site and was separated from the Site by roadways and their underlying services. As such, these PCAs are not considered to represent an APEC on the Site.</p> |
| | <p>#30. Importation of Fill of Unknown Quality – Fill material has been placed along the banks of the Ottawa River; approximately 100 m northwest of the Site.</p> | Aerial photographs | <p>Given the distance between the Site and the location of the fill and that the fill was located down-gradient with respect to the Site, it is not considered to be a PCA that will result in an APEC on the Site.</p> |
| | <p>#28. Gasoline and Associated Products Storage in Fixed Tanks – Current presence of a diesel generator and associated diesel AST located approximately 20 m northeast of the Site on the property at 99 New Orchard Avenue.</p> | Aerial photographs | <p>Given that that there have been no reported spills from the AST and that the AST was located on a concrete pad and hydraulically cross-gradient with respect to the Site, it is not considered to be a PCA that will result in an APEC on the Site.</p> |
| | <p>#28. Gasoline and Associated Products Storage in Fixed Tanks – Current presence of a fuel AST associated with a generator on the adjacent property south of the Site at 108 New Orchard Avenue (formerly 106 New Orchard Avenue).</p> | Aerial photographs | <p>Given that the AST was likely located on a concrete basement floor in the residential building and that there have been no reported spills from the AST, it is not considered to be a PCA that will represent an APEC on the Site.</p> |

6.3 Areas of Potential Environmental Concern

Based on the information obtained as part of this Phase One ESA, none of the PCAs identified were considered to represent an APEC on the Phase One Property.

6.4 Conceptual Site Model

A Conceptual Site Model of the Phase One Study Area (as required by O.Reg. 153/04) is presented in a series of Figures 1 to 8 (Figure 1: Key Plan, Figure 2: Site Plan, Figure 3: Topographic Map and Areas of Natural Significance, Figure 4: Surficial Geology, Figure 5: Drift Thickness, Figure 6: Bedrock Geology, Figure 7: Soil Survey Complex (Ontario Soils), and Figure 8: Physiography Map).



The combined set of figures shows:

- Existing buildings and structures;
- Water bodies and Areas of Natural Significance (if present) located in the Phase One Study Area;
- Drinking water wells on the Phase One Property;
- Roads (including names) within the Phase One Study Area;
- Uses of properties adjacent to the Phase One Property; and,
- Location of identified PCAs in the Phase One Study Area (including any storage tanks).

The following describes the Phase One ESA Conception Site Model (CSM) for the Site based on the information obtained and reviewed as part of this Phase One ESA:

- At the time of the Site visit, which was conducted on May 31, 2016, the Site consisted of an approximately 952 m² (0.1 hectare) parcel of residential land occupied by a two-storey residential building with one basement level that is divided into four apartment units and a below grade parking garage. Paved driveways were located on the southeast and northeast corners of the Site. In addition, a vegetated front yard was located on the eastern portion of the Site and a vegetated backyard was located on the western portion of the Site. The residential building has been present on the Site since sometime between 1945 and 1956;
- The Site is bounded to the east by New Orchard Avenue;
- According to the EcoLog ERIS report, there are no water wells present on the Site. No water wells were observed on the Site at the time of the Site visit;
- No piles of fill were observed on the Site at the time of the Site visit;
- The nearest water body is the Ottawa River located approximately 160 m northwest of the Site;
- No areas of natural and scientific interest (ANSI) are known to be located on the Site or on the Phase One Study Area. Based on available information, the Site is not considered to be an environmentally sensitive area. However, a response from the MNRF has not been received to confirm this. As such, the Site is not considered an area of natural significance;
- At the time of the Phase One ESA, the surrounding properties within the Phase One Study Area were comprised of residential and commercial land uses or were vacant land;
- The following roads were located within the Phase One Study Area at the time of the Site visit:
 - New Orchard Avenue, Sir John A. MacDonald Parkway, Byron Avenue, Harcourt Avenue, Woodland Avenue, Richardson Avenue and Ambleside Drive;
- Soil at the Site consists of till, plain with local relief (< 5 m) and bedrock at the Site is of the Rockcliffe Formation (sandstone, shale, limestone and dolomite);
- Groundwater is anticipated to flow north towards the Ottawa River; and,



**PHASE ONE ESA – 100 NEW ORCHARD AVENUE
OTTAWA, ONTARIO**

- The following PCAs that may have resulted in APECs on the Site have been identified:

| Location | Potentially Contaminating Activity | Information Source | Rationale for Potential Contribution of the PCA to an APEC |
|----------------------|---|--|---|
| Phase One Property | #28. Gasoline and Associated Products Storage in Fixed Tanks – Current and/or former presence of a fuel oil AST on the Site. | Site observations and Site Representative | The PCA is located on the Phase One Property. However, given that the AST was located on a concrete basement floor in the residential building and that there are no documented spills or leaks, it is not considered to represent an APEC on the Site. |
| Phase One Study Area | #18. Electricity Generation, Transformation and Power Stations – Former presence of a hydro substation located immediately south of the Site at 108 New Orchard Avenue (formerly 106 New Orchard Avenue). | FIPs and aerial photographs | Given that the hydro substation was located off-Site, that there have been no reported spills from the hydro substation and that future redevelopment of the Site is likely to include the removal of any soil impacts on the Site, this PCA is not considered to be a represent an APEC on the Site. |
| | #46. Rail Yards, Tracks and Spurs – Former presence of a railway located approximately 10 m north of the Site. | FIPs and aerial photographs | Given that there have been no reported spills along the railway, that the railway was located hydraulically down-gradient with respect to the Site and that future redevelopment of the Site is likely to include the removal of any soil impacts on the Site, this PCA is not considered to represent an APEC on the Site. |
| | #10. Commercial Autobody Shops – Current presence of car dealership with an automotive garage located at 1047 Richmond Road; approximately 55 m east/southeast of the Site. | Site observations, aerial photographs, City Directories and EcoLog ERIS Report | Given that this PCA is located greater than 50 m from the Site and is separated from the Site by New Orchard Avenue and its underlying services, this PCA is not considered to represent an APEC on the Site. |
| | #10. Commercial Autobody Shops – Current presence of car dealership with an automotive garage located at 1075 Richmond Road (formerly 1051 Richmond Road); approximately 155 m south of the Site. | Site observations, aerial photographs, City Directories and EcoLog ERIS Report | Given the distance and amount of infrastructure between the Site and this facility and that was it was located hydraulically cross-gradient with respect to the Site, it is not considered to be a PCA that will result in an APEC on the Site. |
| | #28. Gasoline and Associated Products Storage in Fixed Tanks – Former presence of a retail fuel outlet with two fuel USTs located approximately 155 m south of the Site at 1075 Richmond Road (formerly 1051 Richmond Road). | FIPs and aerial photographs | Given that this facility was located hydraulically down-gradient with respect to the Site and was separated from the Site by 155 m including Richmond Road and its underlying services, it is not considered to be a PCA that will result in an APEC on the Site. |



| Location | Potentially Contaminating Activity | Information Source | Rationale for Potential Contribution of the PCA to an APEC |
|----------|---|--------------------|---|
| | <p>#28. Gasoline and Associated Products Storage in Fixed Tanks – Former and/or current presence of fuel oil storage tanks located at some of the residential buildings within the Phase One Study Area.</p> | EcoLog ERIS report | <p>The storage tanks were likely ASTs located on concrete floors in the basements of the residential buildings. The EcoLog ERIS report identified one furnace oil spill within the Study Area; however, it was located greater than 200 m from the Site and was separated from the Site by roadways and their underlying services. As such, these PCAs are not considered to represent an APEC on the Site.</p> |
| | <p>#30. Importation of Fill of Unknown Quality – Fill material has been placed along the banks of the Ottawa River; approximately 100 m northwest of the Site.</p> | Aerial photographs | <p>Given the distance between the Site and the location of the fill and that the fill was located down-gradient with respect to the Site, it is not considered to be a PCA that will result in an APEC on the Site.</p> |
| | <p>#28. Gasoline and Associated Products Storage in Fixed Tanks – Current presence of a diesel generator and associated diesel AST located approximately 20 m northeast of the Site on the property at 99 New Orchard Avenue.</p> | Aerial photographs | <p>Given that there have been no reported spills from the AST and that the AST was located on a concrete pad and hydraulically cross-gradient with respect to the Site, it is not considered to be a PCA that will result in an APEC on the Site.</p> |
| | <p>#28. Gasoline and Associated Products Storage in Fixed Tanks – Current presence of a fuel AST associated with a generator on the adjacent property south of the Site at 108 New Orchard Avenue (formerly 106 New Orchard Avenue).</p> | Aerial photographs | <p>Given that the AST was likely located on a concrete basement floor in the residential building and that there have been no reported spills from the AST, it is not considered to be a PCA that will represent an APEC on the Site.</p> |

6.4.1 Uncertainty and Absence of Information

At the time of preparation of this report, a response to Golder’s request for information had not been received from the City, the MNRF, and the MOECC. In addition, Golder was unable to access the below grade parking garage of the on-Site residential building during the Site visit. However, based on the body of information acquired, it is considered that the absence of this information should not likely affect the final conclusion of the Phase One ESA. Golder will review responses to these regulatory requests upon their receipt and, should the responses affect the findings of this Phase One ESA, they will be forwarded to New Orchard. 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

Given that no APECs were identified on the Site during the Phase One ESA, a Phase Two ESA is not recommended to be carried out at the Site at this time.

7.1 Record of Site Condition Based on Phase One Environmental Site Assessment Alone

Given that the Phase One Property is currently used as a multi-tenant residential building and is to be redeveloped with a multi-storey residential building, there will be no change in the land use from less sensitive to more sensitive. As such, there is no mandatory requirement for a RSC to be filed for the Site.

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 |
| Bélanger, J. R. 2008 Urban Geology of the National Capital Area, Geological Survey of Canada, Open File 5311, 1 DVD. | 2008 |
| Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 219 | 2007 |
| 2010 Bélanger, J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open File D3256, 2001 | 2010 |
| Aerial Photographs – National Air Photo Library (Natural Resources Canada) | 1945 and 1982 |
| Aerial Photograph Images – geoOttawa (http://maps.ottawa.ca/geoOttawa/) | 1958, 1965, 1976, 1991, 1999, 2002 and 2014 |
| EcoLog ERIS report | June 2, 2016 |
| Ontario Ministry of the Environment and Climate Change | Pending response |
| City of Ottawa | Pending response |
| Ministry of Natural Resources and Forestry | Pending response |
| Technical Standards and Safety Authority | September 26, 2016 |



9.0 LIMITATIONS AND USE OF REPORT

This report (the “Report”) was prepared for the exclusive use of New Orchard Investment Inc. 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, however this report has not been completed with the intent of filing a Record of Site Condition.

11.0 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.

Alyssa Troke, B.Sc., E.I.T.
Environmental Consultant

Keith Holmes, M.Sc., P.Geo.
Geoscientist/Associate

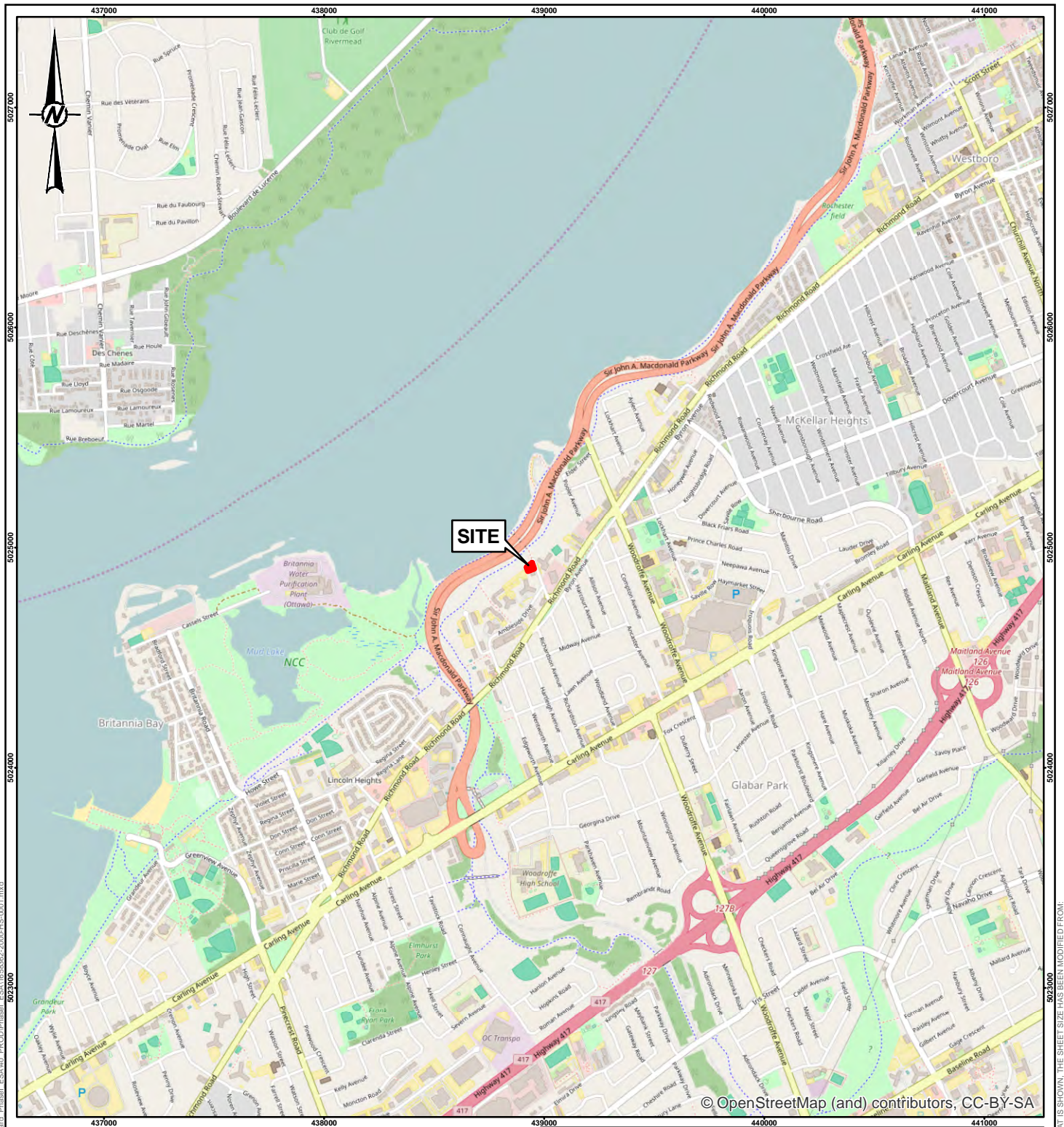
AT/KPH/hw

\\golder.gds\gal\ottawa\active\2016\3 proj\1658362_9102787 canada inc.ph i esa ottawa\phase i esa new orchard\final report\1658362 - phase i esa 100 new orchard.docx

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.



FIGURES



© OpenStreetMap (and) contributors, CC-BY-SA

LEGEND

 PHASE ONE SITE

CLIENT
NEW ORCHARD INVESTMENT INC.

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO

TITLE
KEY PLAN

| CONSULTANT | |
|------------|------------|
| YYYY-MM-DD | 2016-09-27 |
| DESIGNED | ---- |
| PREPARED | JEM |
| REVIEWED | AT |
| APPROVED | KPH |

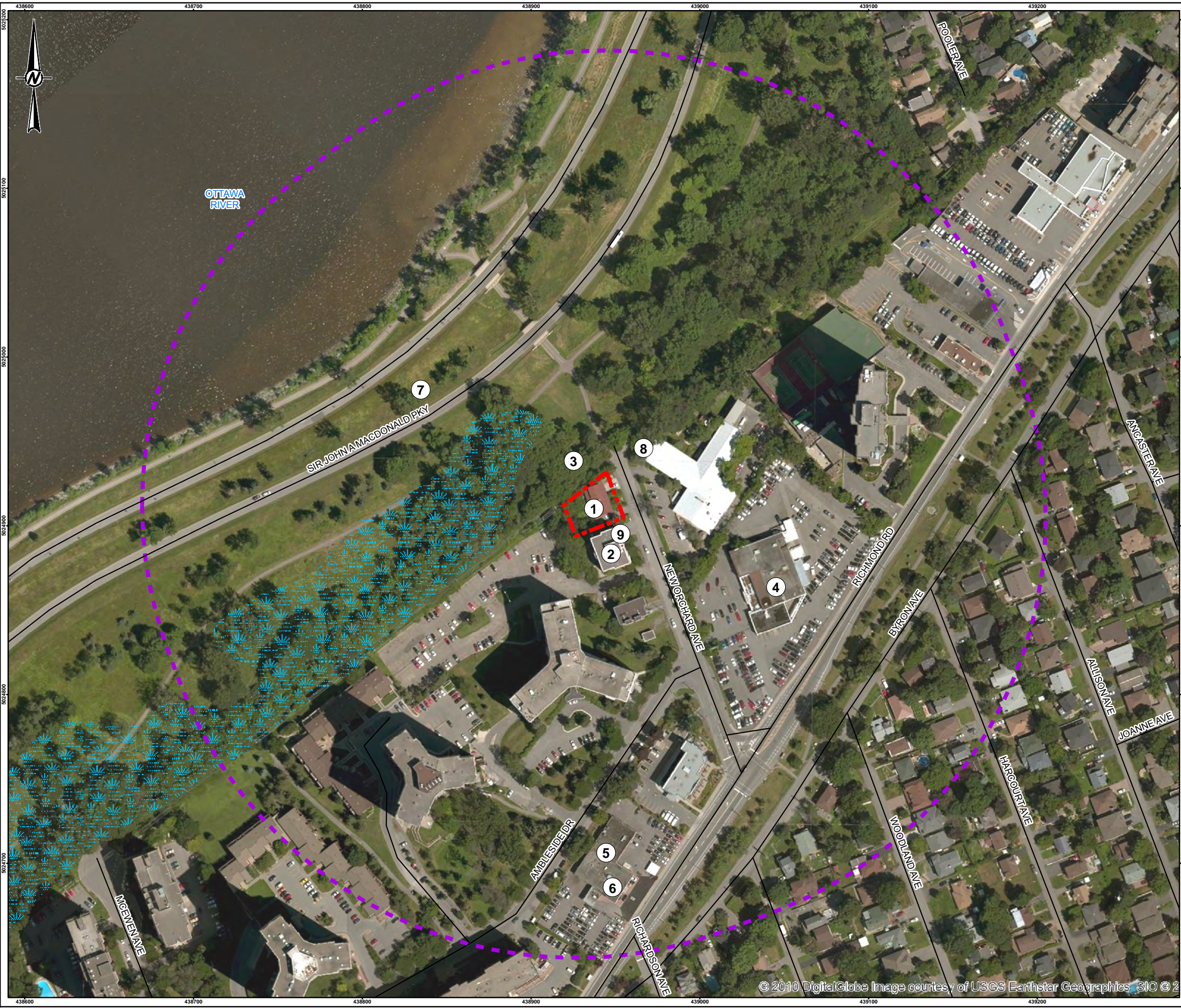


| PROJECT NO. | PHASE | REV. | FIGURE |
|-------------|-------|------|----------|
| 1658362 | 2000 | 0 | 1 |



NOTE(S)
1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDR ASSOCIATES LTD. REPORT NO. 1658362.

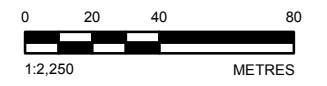
REFERENCE(S)
1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28



LEGEND

- ROADWAY
- WETLAND
- PHASE ONE SITE
- PHASE ONE STUDY AREA

| Potentially Contaminating Activity (PCA) | | |
|--|--|-------|
| Location | Detail | PCA # |
| 1 | Gasoline and Associated Products Storage in Fixed Tanks – Current and/or former presence of a fuel oil AST on the Site. | 28 |
| 2 | Electricity Generation, Transformation and Power Stations – Former presence of a hydro substation located immediately south of the Site at 108 New Orchard Avenue (formerly 106 New Orchard Avenue). | 18 |
| 3 | Rail Yards, Tracks and Spurs – Former presence of a railway located approximately 10 m north of the Site. | 46 |
| 4 | Commercial Autobody Shops – Current presence of a car dealership with an automotive garage located approximately 55 m east/southeast of the Site at 1047 Richmond Road. | 10 |
| 5 | Commercial Autobody Shops – Current presence of a car dealership with an automotive garage located approximately 155 m south of the Site at 1075 Richmond Road (formerly 1051 Richmond Road). | 10 |
| 6 | Gasoline and Associated Products Storage in Fixed Tanks – Former presence of a retail fuel outlet with two fuel USTs located approximately 155 m south of the Site at 1075 Richmond Road (formerly 1051 Richmond Road). | 28 |
| 7 | Importation of Fill of Unknown Quality – Fill material has been placed along the banks of the Ottawa River; approximately 100 m northwest of the Site. | 30 |
| 8 | Gasoline and Associated Products Storage in Fixed Tanks – Current presence of a diesel generator and associated diesel AST located approximately 20 m northeast of the Site on the property at 99 New Orchard Avenue. | 28 |
| 9 | Gasoline and Associated Products Storage in Fixed Tanks – Current presence of a fuel AST associated with a generator on the adjacent property south of the Site at 108 New Orchard Avenue (formerly 106 New Orchard Avenue). | 28 |



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

REFERENCE(S)
 1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
 2. BING IMAGERY SUPPLIED BY ESRI AND MICROSOFT © 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS
 3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT
 NEW ORCHARD INVESTMENT INC.

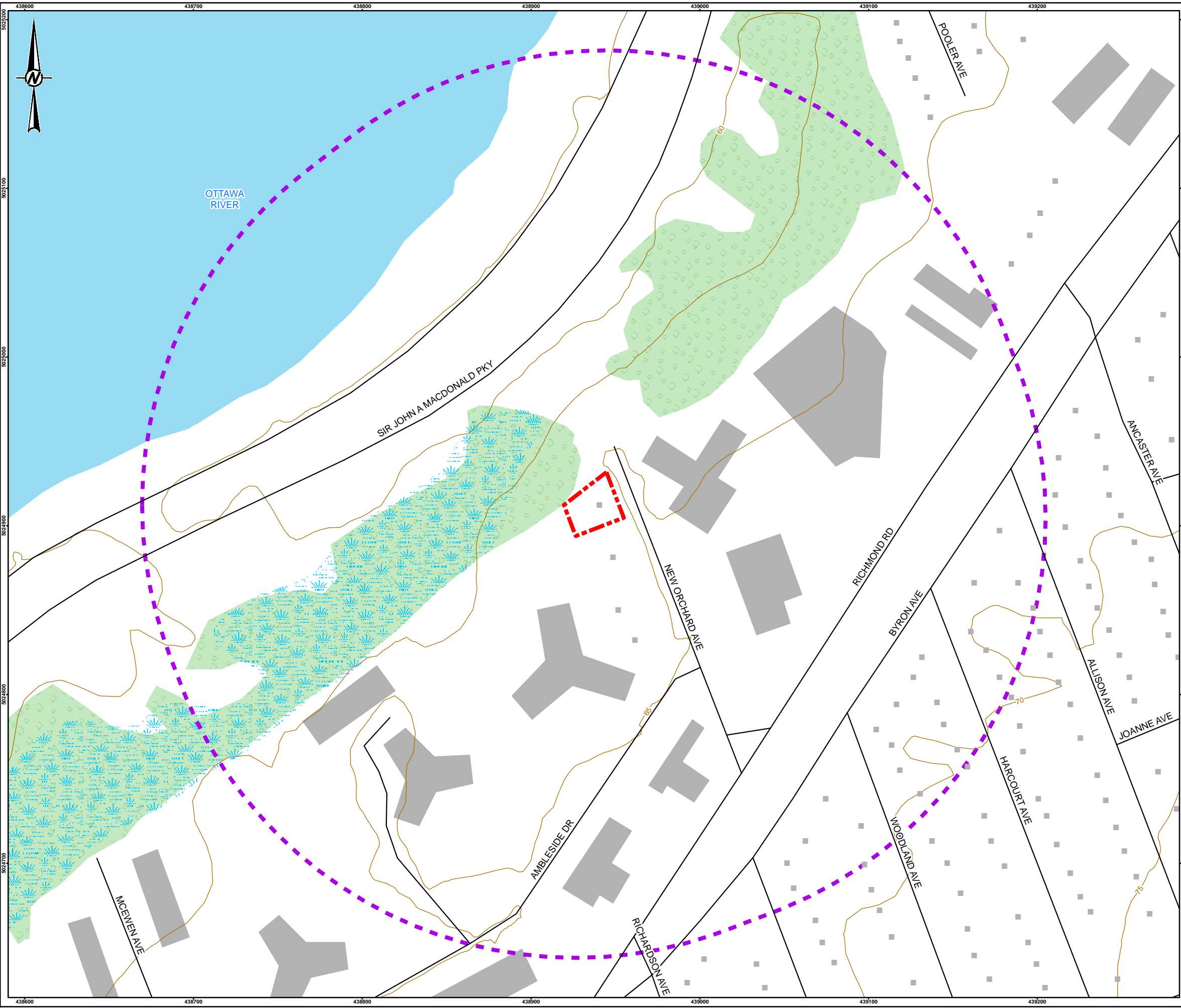
PROJECT
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO

TITLE
 SITE PLAN

| CONSULTANT | DATE |
|------------|------------|
| YYYY-MM-DD | 2016-09-27 |
| DESIGNED | --- |
| PREPARED | JEM |
| REVIEWED | AT |
| APPROVED | KPH |

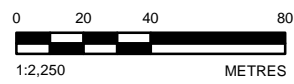
Path: N:\Active\Spatial\IMNew_Orchard_Aval09_PRCO\1658362_NewOrchard_Phase1_ESAM_0001.mxd
 5024800
 5024700
 5024600
 5024500
 5024400
 5024300
 5024200
 5024100
 5024000

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



LEGEND

- BUILDING POINT
- ROADWAY
- TOPOGRAPHIC CONTOUR, metres
- ▨ WETLAND
- BUILDING FOOTPRINT
- WATERBODY
- WOODED AREA
- ▭ PHASE ONE SITE
- ▭ PHASE ONE STUDY AREA



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

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

CLIENT
NEW ORCHARD INVESTMENT INC.

PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO**

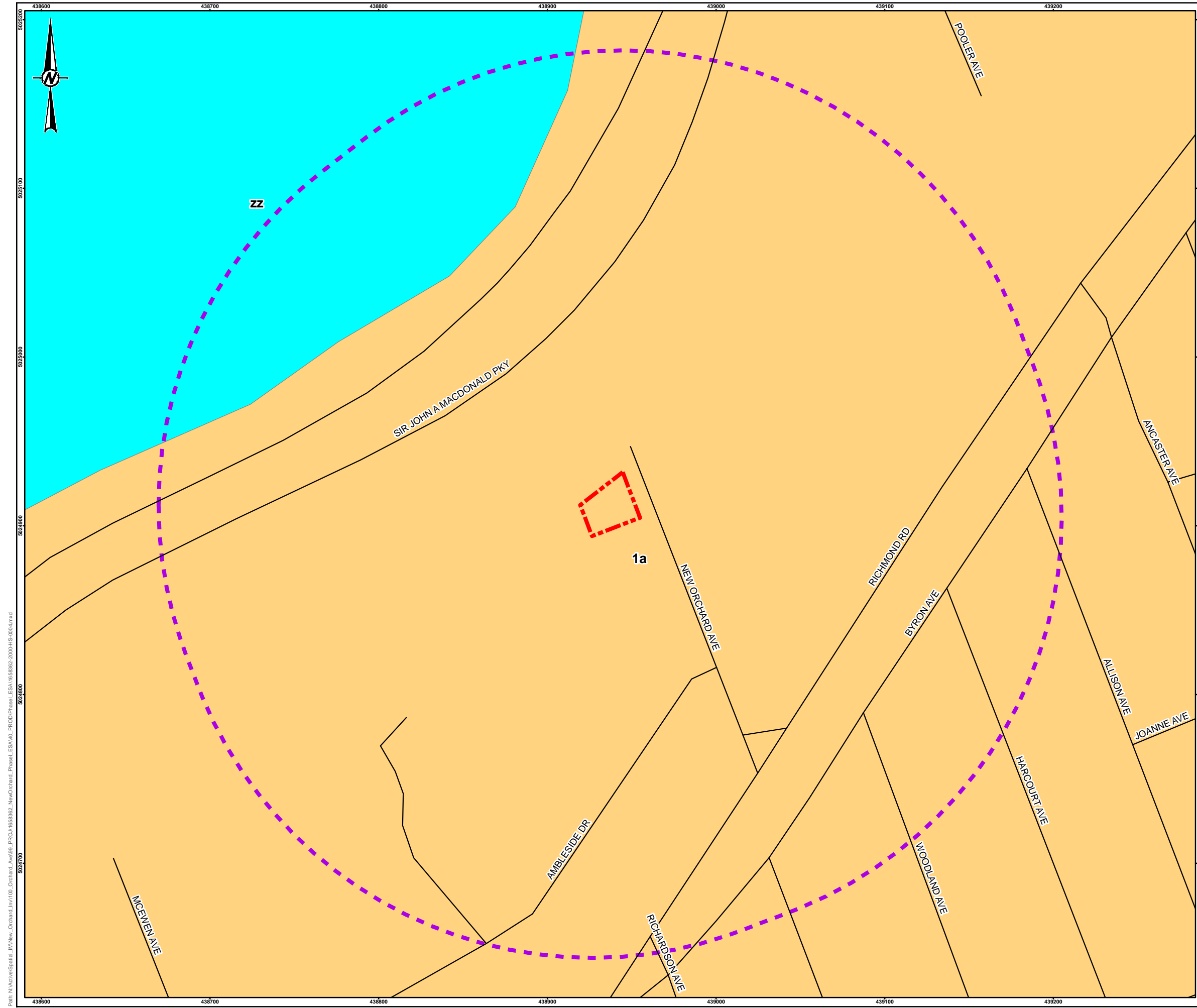
TITLE
TOPOGRAPHIC MAP AND AREAS OF NATURAL SIGNIFICANCE






| CONSULTANT | YYYY-MM-DD | 2016-09-27 |
|------------|------------|------------|
| DESIGNED | --- | |
| PREPARED | JEM | |
| REVIEWED | AT | |
| APPROVED | KPH | |

PROJECT NO. 1658362 PHASE 2000 REV. 0 FIGURE **3**

Path: N:\Vector\Spatial_1\New_Orchard_Inv\100_Orchard_Ave\09_PROD\Phase1_Phase1_ESA\Map_Prod\Phase1_Phase1_ESA\1658362-2000\1658362-2000.mxd

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



- LEGEND**
-  ROADWAY
 -  PHASE ONE SITE
 -  PHASE ONE STUDY AREA
 -  1a. TILL, PLAIN WITH LOCAL RELIEF <5 m
 -  zz. WATERBODY




NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

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

CLIENT
NEW ORCHARD INVESTMENT INC.

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO

TITLE
SURFICIAL GEOLOGY

| | | |
|---|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-09-27 |
|  | DESIGNED | --- |
| | PREPARED | JEM |
| | REVIEWED | AT |
| | APPROVED | KPH |

Path: N:\Vector\Spatial\IM\New_Orchard\Jm\100_Orchard_Ave\08_PROJ\1658362_NewOrchard_Phase1_ESA\1658362-2000\1658362-004.mxd

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

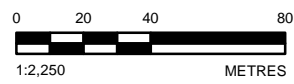


LEGEND

- ROADWAY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- WATERBODY

TREND IN DEPTH TO BEDROCK (METRES)

- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- 10 to 15
- 15 to 25
- 25 to 50
- 50 to 100
- 100 to 200



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

REFERENCE(S)
 1. 2010 BÉLANGER, J. R., URBAN GEOLOGY OF THE NATIONAL CAPITAL AREA, GEOLOGICAL SURVEY OF CANADA, OPEN FILE D3256, 2001
 2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
 3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT
NEW ORCHARD INVESTMENT INC.

PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO**

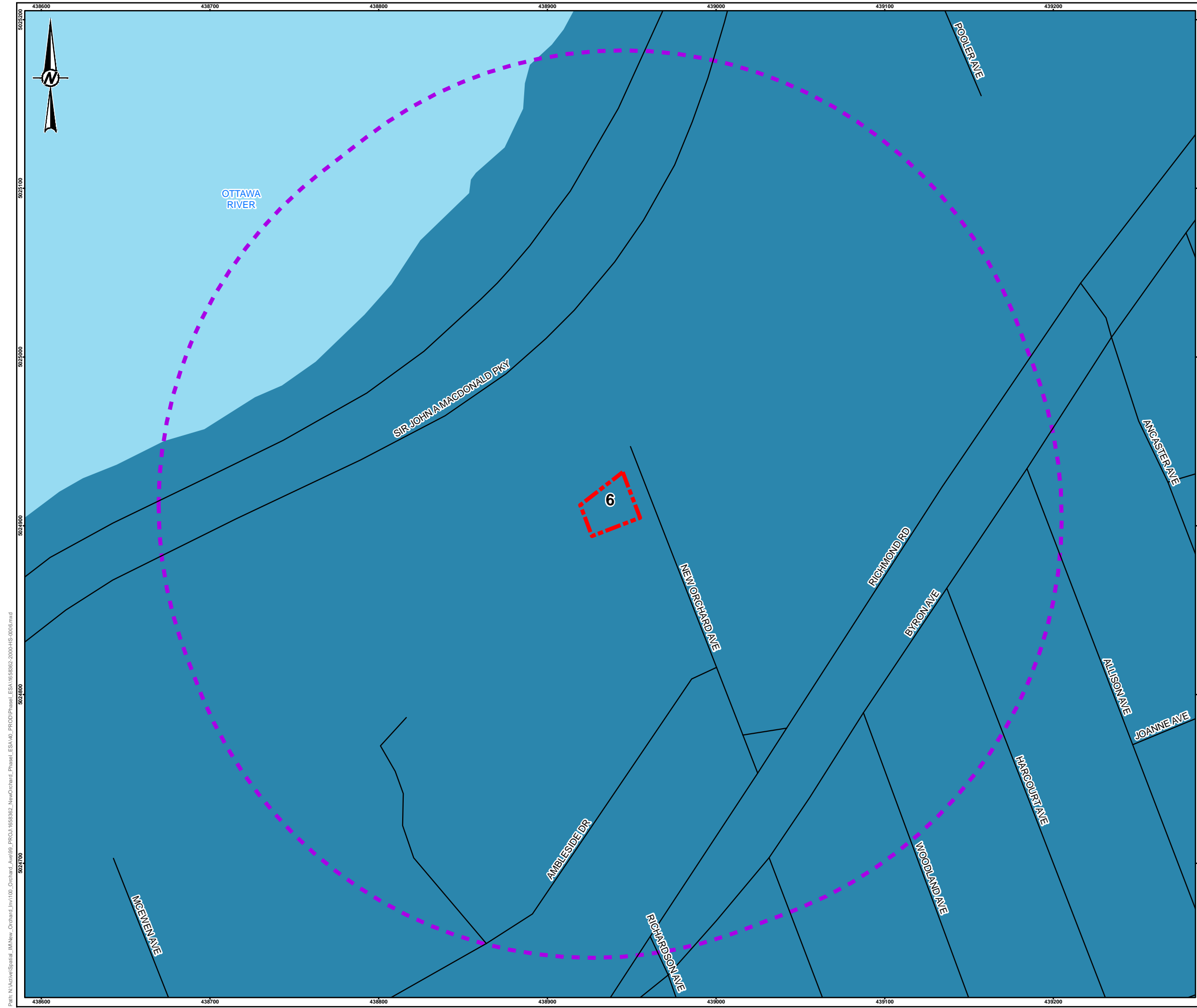
TITLE
DRIFT THICKNESS

| CONSULTANT | YYYY-MM-DD | 2016-09-27 |
|------------|------------|------------|
| DESIGNED | ---- | |
| PREPARED | JEM | |
| REVIEWED | AT | |
| APPROVED | KPH | |








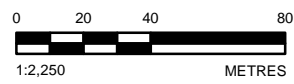
Path: N:\Vector\Spatial_1M\New_Orchard\Jin\100_Orchard_Ave\09_PRCU\1658362_NewOrchard_Phase1_ESA\1658362-2000-16-0016.mxd

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



LEGEND

-  ROADWAY
-  PHASE ONE SITE
-  PHASE ONE STUDY AREA
-  WATERBODY
-  6: ROCKCLIFFE FORMATION - SANDSTONE, SHALE, LIMESTONE, DOLOSTONE



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

REFERENCE(S)
 1. ARMSTRONG, D.K. AND DODGE, J.E.P. 2007. PALEOZOIC GEOLOGY OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE-DATA 219
 2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
 3. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT
 NEW ORCHARD INVESTMENT INC.

PROJECT
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO

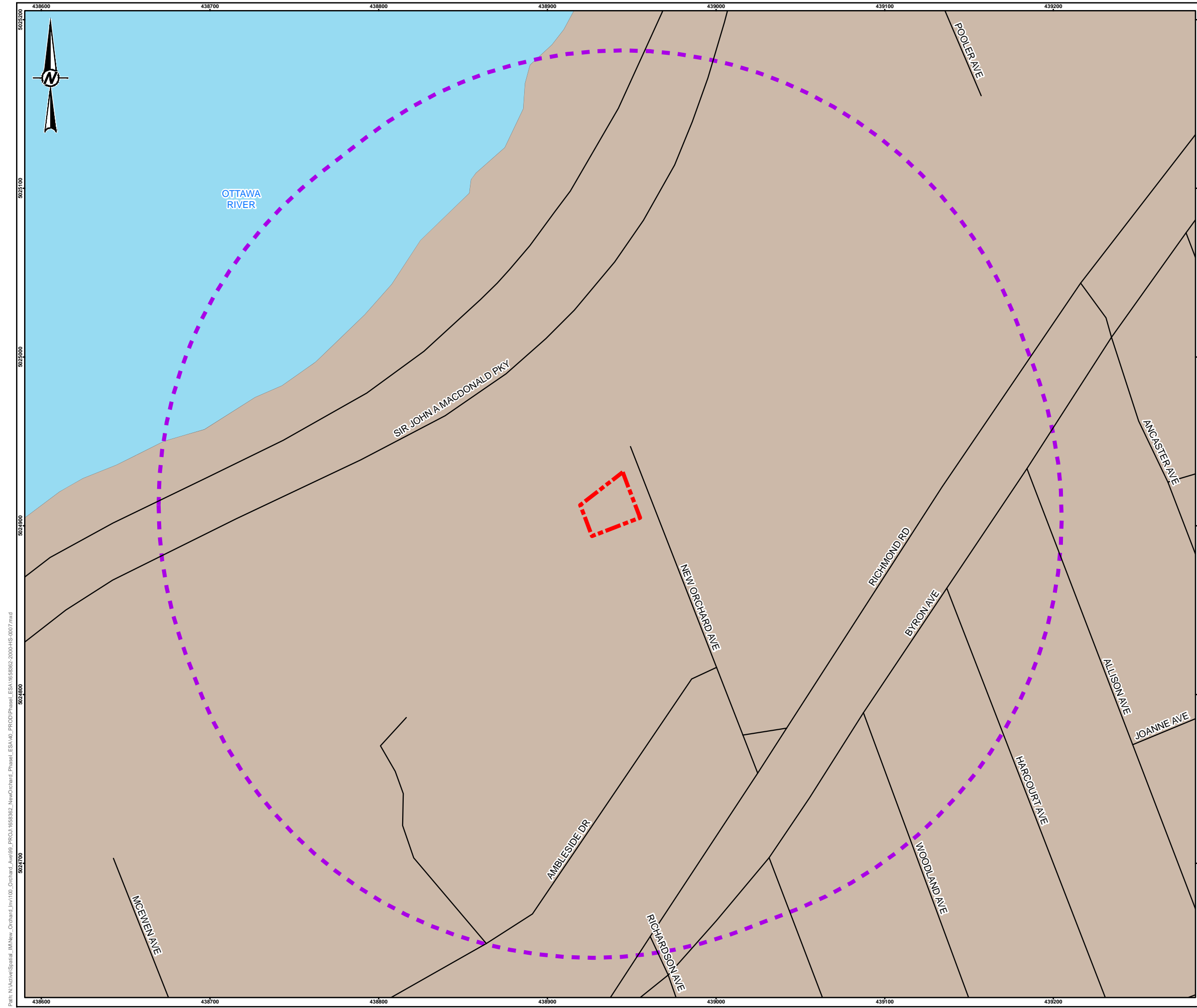
TITLE
BEDROCK GEOLOGY

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-09-27 |
| DESIGNED | ---- | |
| PREPARED | JEM | |
| REVIEWED | AT | |
| APPROVED | KPH | |

PROJECT NO. 1658362 PHASE 2000 REV. 0 FIGURE 6

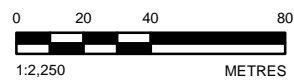
Path: N:\Vector\Spatial_1\New_Orchard_Inv\100_Orchard_Ave\09_PROJ_1658362_NewOrchard_Phase1_ESA\Map_PROD\Phase1_ESA\Map_PROD\Phase1_ESA\1658362-2000-16-0006.mxd

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



LEGEND

- ROADWAY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- WATERBODY
- URBAN



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

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

CLIENT
NEW ORCHARD INVESTMENT INC.

PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO**

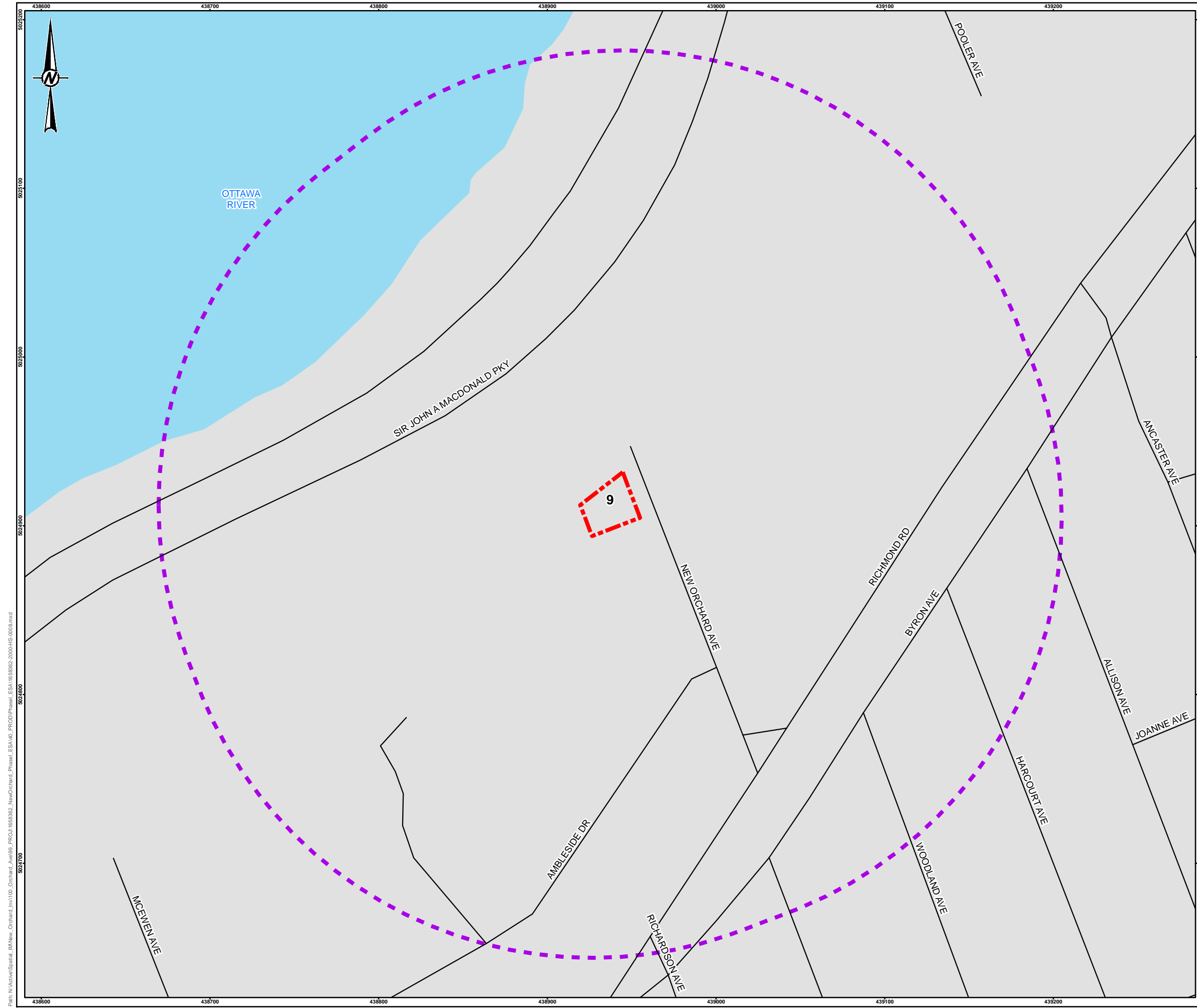
TITLE
SURVEY SOIL COMPLEX (ONTARIO SOILS)

| CONSULTANT | YYYY-MM-DD | 2016-09-27 |
|------------|------------|------------|
| DESIGNED | ---- | |
| PREPARED | JEM | |
| REVIEWED | AT | |
| APPROVED | KPH | |



Path: N:\Vector\Spatial_1\New_Orchard_Inv\100_Orchard_Ave\09_PROJ\1658362_NewOrchard_Phase1_ESA\1658362-2000\1658362-2000\1658362-2000.mxd

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



- LEGEND**
- ROADWAY
 - PHASE ONE SITE
 - PHASE ONE STUDY AREA
 - WATERBODY
 - 9: LIMESTONE PLAINS



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

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

CLIENT
NEW ORCHARD INVESTMENT INC.

PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO**

TITLE
PHYSIOGRAPHY MAP

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-09-27 |
| DESIGNED | ---- | |
| PREPARED | JEM | |
| REVIEWED | AT | |
| APPROVED | KPH | |



Path: N:\Vector\Spatial_1\New_Orchard_Inv\100_Orchard_Ave\09_PROJ\1658362_NewOrchard_Phase1_ESA\1658362-2000\1658362.mxd

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



APPENDIX A

Regulatory Responses

DATE September 28, 2016

PROJECT No. 1658362-2000

TO City of Ottawa
Development Approvals Division

TOTAL PAGES 6 (Including cover sheet)

FROM Alyssa Troke

EMAIL alyssa_troke@golder.com

**RE: INFORMATION REQUEST – PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR 100 NEW
ORCHARD AVENUE, 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

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

GOLDER ASSOCIATES LTD.

Alyssa Troke

Alyssa Troke
Environmental Consultant

AT

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.

n:\active\2015\3 proj\1540561 claridge kanata lands ottawa\08_reports\phase i esa report\city of ottawa request.docx

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: Alyssa Troke

Dated: September 28, 2016

Per: Alyssa Troke

(Please print name)

Title: Environmental Consultant

Company: Golder Associates Ltd.

CONFIDENTIAL

File No.: 1658362
Deadline for Response: ASAP

Phase 1 – Environmental Site Assessment

Request for Information

(Informal Request)*

1. REQUESTER INFORMATION

- a) Name of Requester: Alyssa Troke
- b) Address of Requester: 1931 Robertson Road, Ottawa, ON, K2H 5B7
- c) Telephone Number: 613-592-9600 x 4299
- d) Site Address: Lot- _____ Concession: _____
Street: 100 New Orchard Avenue City/Town: Ottawa
Postal Code: _____
- e) Legal Plan Attached: Yes () No (X)
- f) Site Owner: New Orchard Investment Inc.
- g) Adjacent Property Owners: _____
- h) _____
- i) Date of Ownership: _____
Previous Owner(s): _____

- j) Type of Site: () vacant, (X) residential, () commercial,
() other (specify) _____
- k) Requestors relationship to Site: Consultant
- l) Date of Previous Request: -
- m) Date of Previous ESA: -
- n) 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)

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: 100 New Orchard Avenue

Ottawa, ON, K2P 0E2

Legal Description: Concession 10F, Part of Lot 24, Ottawa, Pm 039700012

Property Contact Information:

Owner

New Orchard Investment Inc.

Phone Number

(613)-299-5867.

Fax Number

Owner Representative

Ji (Kevin) Zhang

Owner Representative
Signature

Ji Zhang

Date

Sept-26-2016



Natural Areas and Features Information Request Form

Contact Information

Name: _____

Address: _____

Phone Number: _____ Owner Consultant

E-mail Address: _____

***All red fields are mandatory**

This includes X & Y Coordinates.

Please see _____ for assistance.

Site Information

Project Name: _____

Township: _____ Lot: _____ Concession: _____

X: _____ Y: _____ Address: _____

***If more than 1 site, please provide all individual coordinates in an attached spreadsheet*

Type of Proposal

- Severance / Zoning
- Drains / Roads / Culverts
- Hydroline clearing
- Small Scale Projects (less than 5 hectares)
- RE Projects
- Large Scale Projects (5 hectares or greater)
- Aggregate Project
- Other: _____

Attachments

*****Please attach a Site Map showing the area of interest**

- Picture
- Map(s)
- Engineered Drawings
- Other: _____

Request

I would like to request the following information for the property identified above:

To better respond to your request please briefly outline the purpose for which this information is required (e.g. proposed development, lot severance, etc. or attach details):

Date of works proposed: ____ / ____ / ____

Personal information contained in this form is collected in order to fulfill your request, respond to your inquiries and for other administration purposes. With regard to the personal information it collects, the ministry is bound by privacy protection rules under the Freedom of Information and Protection of Privacy Act and takes all necessary steps to safeguard personal information collected.

Please Note: This request MUST be made by the property owner or by someone acting on their behalf. Depending on the nature of the request, it may take 6-8 weeks to respond to your inquiry. If the request does not include the mandatory information, it may delay response time.

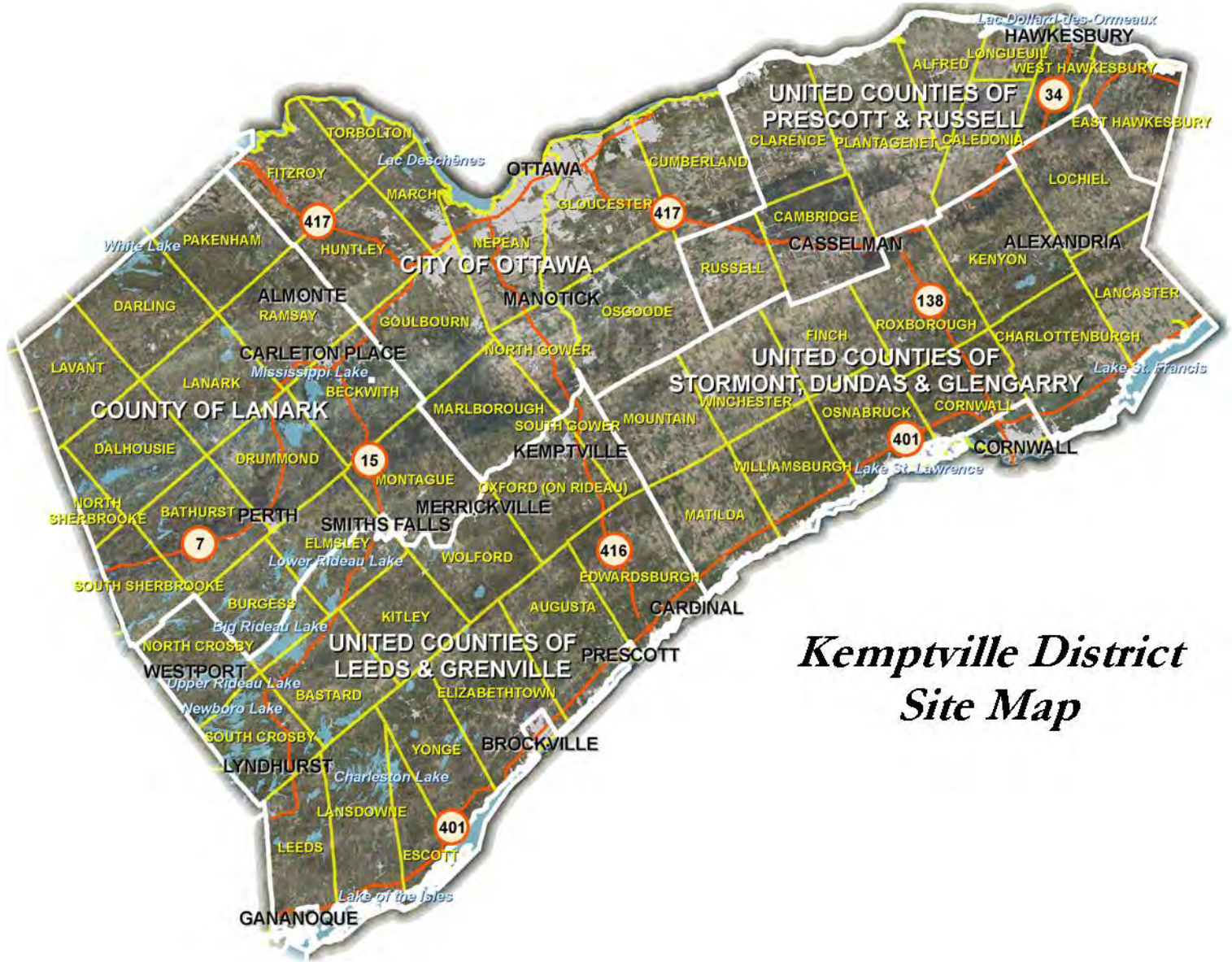
I have read the above and agree to all Terms and Conditions

Please forward the completed form to:

OR Fax: 613-258-3920

Attention: Information Requests
10 Campus Drive, Postal Bag 2002
Kempenville, ON K0G 1J0

MNR File Number: _____



Kemptville District Site Map


How to get X, Y coordinates from Google Maps (2 options):

- 1.) Right-click on the map, at the point of interest, and select 'What's here?'.
-The Latitude & Longitude of the mouse click, in decimal degrees, will automatically appear in the Search box.

OR

- 2.) Click on 'Maps Labs' in Google Maps.
-The following window will appear:

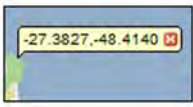
[Maps Labs](#) - [Help](#)
 Google Maps - ©2012 Google - [Terms of Use](#)



LatLng Tooltip
Marcelo C

Displays a tooltip next to the mouse cursor showing the latlng directly underneath it. Press SHIFT to activate tooltip.

Enable
 Disable



LatLng Marker
Marcelo C

Adds an option to the context menu that lets you drop a mini marker showing the latlng of the position that the cursor was pointing at when the context menu was evoked

Enable
 Disable

Important: To save your enabled Labs for next time, you must [sign in to your Google account.](#)

- Enable the LatLng Tooltip and then Save Changes.
- Now every time the **SHIFT** button is pressed in Google Maps, a Tool tip will appear with the Latitude and Longitude of the mouse location in decimal degrees.

From: Troke, Alyssa
Sent: September-22-16 4:00 PM
To: 'Desaulniers-Veilleux, Johanne (MOECC)'
Subject: Property Information Request for 100 New Orchard Avenue, Ottawa, Ontario

Hi Johanne,

Could you please check for approvals and orders for the following property:

- 100 New Orchard Avenue, Ottawa, ON

Please let me know if you have any questions.

Kindest Regards,

Alyssa Troke

Alyssa Troke (B.Eng., E.I.T.) | Environmental Consultant | **Golder Associates Ltd.**
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 (613) 592 9600 | **D:** +1 (613) 592 4299 | **F:** +1 (613) 592 9601 | **C:** +1 (613) 290 8736 | **E:**
Alyssa_Troke@golder.com | www.golder.com

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

From: Ruchi Chohan <rchohan@tssa.org> on behalf of Public Information Services <publicinformationservices@tssa.org>
Sent: September-26-16 10:08 AM
To: Troke, Alyssa
Subject: RE: TSSA Search - 100 New Orchard Avenue, Ottawa, Ontario

Hello Alyssa,

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) 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!

Ruchi



Ruchi Chohan | Public Information Agent

Facilities and Business Services

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-416-734-3417 | Fax: +1-416-231-4903 | E-Mail: rchohan@tssa.org

www.tssa.org



From: Troke, Alyssa [mailto:Alyssa_Troke@golder.com]
Sent: Friday, September 23, 2016 8:57 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: TSSA Search - 100 New Orchard Avenue, Ottawa, 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 following properties:

- 100 New Orchard Avenue, Ottawa, ON
- 108 New Orchard Avenue, Ottawa, ON
- 99 New Orchard Avenue, Ottawa, ON

- 118 New Orchard Avenue, Ottawa, ON
- 1047 Richmond Road, Ottawa, ON
- 1075 Richmond Road, Ottawa, ON
- 1071 Ambleside Drive, Ottawa, ON
- 1081 Ambleside Drive, Ottawa, ON
- 1208 Byron Avenue, Ottawa, ON
- 54 Pooler Avenue, Ottawa, ON

Please let me know if you have any questions.

Kindest Regards,

Alyssa Troke

Alyssa Troke (B.Eng., E.I.T.) | Environmental Consultant | **Golder Associates Ltd.**

1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7

T: +1 (613) 592 9600 | **D:** +1 (613) 592 4362 | **F:** +1 (613) 592 9601 | **C:** +1 (613) 290 8736 | **E:**

Alyssa_Troke@golder.com | www.golder.com

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

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



APPENDIX B

EcoLog ERIS Report, City Directories



DATABASE REPORT

Project Property: *100 New Orchard Lane
100 New Orchard Ave
Ottawa ON K2B5E7
1658362*

Project No: *20160526100*

Report Type: *Standard Report*

Order No: *20160526100*

Requested by: *Golder Associates Ltd.*

Date Completed: *June 2, 2016*

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

Table of Contents

| | |
|--|----|
| Table of Contents..... | 1 |
| Executive Summary..... | 2 |
| Executive Summary: Report Summary..... | 4 |
| Executive Summary: Site Report Summary - Project Property..... | 6 |
| Executive Summary: Site Report Summary - Surrounding Properties..... | 7 |
| Map..... | 9 |
| Aerial..... | 10 |
| Detail Report..... | 11 |
| Unplottable Summary..... | 29 |
| Unplottable Report..... | 31 |
| Appendix: Database Descriptions..... | 40 |
| Definitions..... | 50 |

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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

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

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

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

Executive Summary

Property Information:

Project Property: 100 New Orchard Lane
100 New Orchard Ave Ottawa ON K2B5E7

Project No: 1658362

Coordinates:

Latitude: 45.375057
Longitude: -75.779845
UTM Northing: 5,024,911.65
UTM Easting: 438,938.64
UTM Zone: UTM Zone 18T

Elevation: 208 FT
63.54 M

Order Information:

Order No: 20160526100
Date Requested: May 26, 2016
Requested by: Golder Associates Ltd.
Report Type: Standard Report

Additional Products:

City Directory Search Subject Site plus 5 Adjacent Properties

Executive Summary: Report Summary

| <i>Database</i> | <i>Name</i> | <i>Searched</i> | <i>Project Property</i> | <i>Within 0.25 km</i> | <i>Total</i> |
|-----------------|--|-----------------|-------------------------|-----------------------|--------------|
| 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 & Supplies</i> | Y | 0 | 0 | 0 |
| BORE | <i>Borehole</i> | Y | 0 | 7 | 7 |
| CA | <i>Certificates of Approval</i> | Y | 0 | 4 | 4 |
| 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 | 3 | 3 |
| EBR | <i>Environmental Registry</i> | Y | 0 | 2 | 2 |
| ECA | <i>Environmental Compliance Approval</i> | Y | 0 | 0 | 0 |
| EEM | <i>Environmental Effects Monitoring</i> | Y | 0 | 0 | 0 |
| EHS | <i>ERIS Historical Searches</i> | Y | 0 | 5 | 5 |
| EIIS | <i>Environmental Issues Inventory System</i> | Y | 0 | 0 | 0 |
| EMHE | <i>Emergency Management Historical Event</i> | Y | 0 | 0 | 0 |
| EXP | <i>List of TSSA Expired Facilities</i> | Y | 0 | 0 | 0 |
| FCON | <i>Federal Convictions</i> | Y | 0 | 0 | 0 |
| FCS | <i>Waste Generators Summary</i> | Y | 0 | 0 | 0 |
| FOFT | <i>Fisheries & Oceans Fuel Tanks</i> | Y | 0 | 0 | 0 |
| FST | <i>Fuel Storage Tank</i> | Y | 0 | 0 | 0 |
| FSTH | <i>Fuel Storage Tank - Historic</i> | Y | 0 | 0 | 0 |
| GEN | <i>Ontario Regulation 347 Waste Generators Summary</i> | Y | 0 | 2 | 2 |
| GHG | <i>Greenhouse Gas Emissions from Large Facilities</i> | Y | 0 | 0 | 0 |
| HINC | <i>TSSA Historic Incidents</i> | Y | 0 | 0 | 0 |
| IAFT | <i>Indian & Northern Affairs Fuel Tanks</i> | Y | 0 | 0 | 0 |
| INC | <i>TSSA Incidents</i> | Y | 0 | 1 | 1 |
| 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 |

| <i>Database</i> | <i>Name</i> | <i>Searched</i> | <i>Project Property</i> | <i>Within 0.25 km</i> | <i>Total</i> |
|-----------------|--|-----------------|-----------------------------|-----------------------|--------------|
| NDFT | <i>National Defense & Canadian Forces Fuel Tanks</i> | Y | 0 | 0 | 0 |
| NDSP | <i>National Defense & Canadian Forces Spills</i> | Y | 0 | 0 | 0 |
| NDWD | <i>National Defence & Canadian Forces Waste Disposal Sites</i> | Y | 0 | 0 | 0 |
| NEBW | <i>National Energy Board Wells</i> | Y | 0 | 0 | 0 |
| NEES | <i>National Environmental Emergencies System (NEES)</i> | Y | 0 | 0 | 0 |
| NPCB | <i>National PCB Inventory</i> | Y | 0 | 0 | 0 |
| NPRI | <i>National Pollutant Release Inventory</i> | Y | 0 | 0 | 0 |
| OGW | <i>Oil and Gas Wells</i> | Y | 0 | 0 | 0 |
| OOGW | <i>Ontario Oil and Gas Wells</i> | Y | 0 | 0 | 0 |
| OPCB | <i>Inventory of PCB Storage Sites</i> | Y | 0 | 0 | 0 |
| ORD | <i>Orders</i> | Y | 0 | 0 | 0 |
| PAP | <i>Canadian Pulp and Paper</i> | Y | 0 | 0 | 0 |
| PCFT | <i>Parks Canada Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| PES | <i>Pesticide Register</i> | Y | 0 | 0 | 0 |
| PINC | <i>TSSA Pipeline Incidents</i> | Y | 0 | 0 | 0 |
| PRT | <i>Private and Retail Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| PTTW | <i>Permit to Take Water</i> | Y | 0 | 0 | 0 |
| REC | <i>Ontario Regulation 347 Waste Receivers Summary</i> | Y | 0 | 0 | 0 |
| RSC | <i>Record of Site Condition</i> | Y | 0 | 0 | 0 |
| RST | <i>Retail Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| SCT | <i>Scott's Manufacturing Directory</i> | Y | 0 | 6 | 6 |
| SPL | <i>Ontario Spills</i> | Y | 0 | 1 | 1 |
| SRDS | <i>Wastewater Discharger Registration Database</i> | Y | 0 | 0 | 0 |
| TANK | <i>Anderson's Storage Tanks</i> | Y | 0 | 0 | 0 |
| TCFT | <i>Transport Canada Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| VAR | <i>TSSA Variances for Abandonment of Underground Storage Tanks</i> | Y | 0 | 0 | 0 |
| WDS | <i>Waste Disposal Sites - MOE CA Inventory</i> | Y | 0 | 0 | 0 |
| WDSH | <i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i> | Y | 0 | 0 | 0 |
| WWIS | <i>Water Well Information System</i> | Y | 0 | 13 | 13 |
| Total: | | | 0 | 44 | 44 |

Executive Summary: Site Report Summary - Project Property

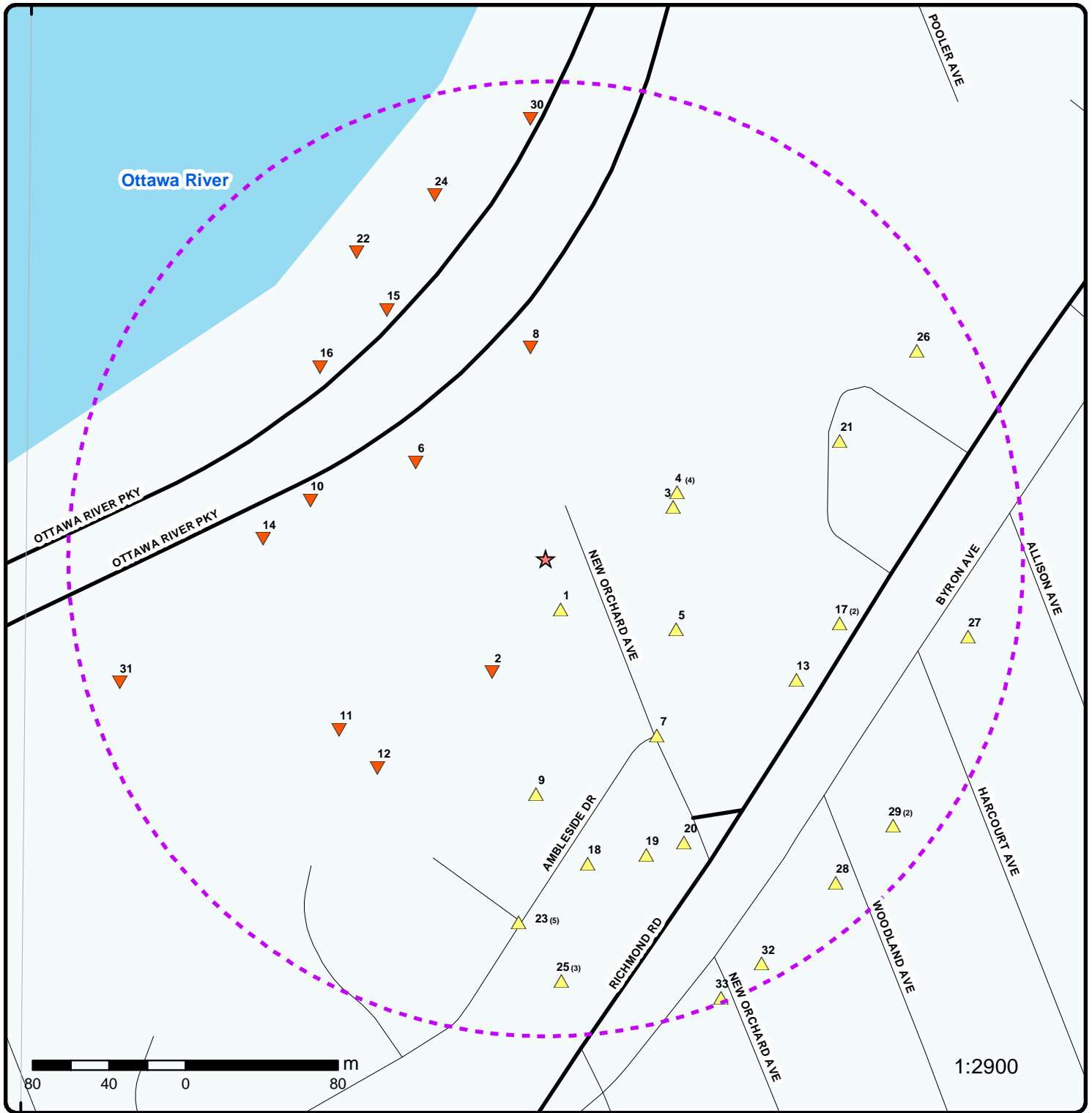
| <i>DB</i> | <i>Map Key</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev diff (m)</i> | <i>Page Number</i> |
|-----------|--------------------|--------------------------|----------------|---------------------|--------------------------|------------------------|
|-----------|--------------------|--------------------------|----------------|---------------------|--------------------------|------------------------|

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

Executive Summary: Site Report Summary - Surrounding Properties

| <i>DB</i> | <i>Map Key</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|-----------|--------------------|---------------------------------|---|---------------------|----------------------|--------------------|
| BORE | 2 | | ON | SSW/65.7 | -0.54 | 11 |
| BORE | 8 | | ON | N/110.9 | -3.54 | 11 |
| BORE | 11 | | ON | SW/140.2 | -2.67 | 12 |
| BORE | 12 | | ON | SW/140.5 | -1.62 | 12 |
| BORE | 14 | | ON | W/148.4 | -3.54 | 13 |
| BORE | 18 | | ON | S/161.0 | 2.02 | 14 |
| BORE | 29 | | ON | SE/229.4 | 6.46 | 14 |
| CA | 7 | R.M. OF OTTAWA-CARLETON | NEW ORCHARD AVE/AMBLESIDE DR. OTTAWA ON | SSE/109.1 | 2.45 | 15 |
| CA | 17 | METRO PLYMOUTH-CHRYSLER LIMITED | 1047 RICHMOND ROAD OTTAWA CITY ON K2B 6R1 | ESE/157.7 | 4.44 | 15 |
| CA | 25 | 715137 Ontario Ltd. | 1075 Richmond Road Ottawa ON K2B 6R2 | S/220.8 | 2.46 | 15 |
| CA | 26 | KAYSUSH DEVELOPMENTS LTD. | LOT 1, 993 RICHMOND RD. (SWM) OTTAWA CITY ON K2B 6R1 | ENE/222.8 | 2.46 | 16 |
| EASR | 3 | EXTENDICARE (CANADA) INC. | 99 NEW ORCHARD OTTAWA ON | ENE/72.3 | 1.12 | 16 |
| EASR | 17 | Metro Plymouth Chrysler Ltd. | 1047 RICHMOND RD OTTAWA ON K2B 6R1 | ESE/157.7 | 4.44 | 16 |
| EASR | 25 | 1866688 Ontario Ltd | 1075 RICHMOND RD OTTAWA ON K2B 6R2 | S/220.8 | 2.46 | 17 |
| EBR | 13 | Metro Plymouth-chrysler Ltd. | City of Ottawa ON | ESE/145.7 | 4.46 | 17 |
| EBR | 25 | 715137 Ontario Ltd. | 1075 Richmond Road Ottawa ON K2B 6R2 | S/220.8 | 2.46 | 17 |
| EHS | 1 | | 108 New Orchard Ave Ottawa ON K2B 5E7 | SSE/27.6 | 1.46 | 17 |
| EHS | 4 | | 99 New Orchard Avenue Ottawa ON K2B 5E6 | ENE/77.4 | 0.72 | 17 |
| EHS | 4 | | 99 New Orchard Ave Ottawa ON K2B5E6 | ENE/77.4 | 0.72 | 18 |
| EHS | 9 | | 1071 Ambleside drive ottawa ON K2B 6V4 | S/123.1 | 1.09 | 18 |
| EHS | 19 | | 1071 Richmond Rd. Ottawa ON K2B 6R2 | SSE/163.4 | 2.89 | 18 |

| <i>DB</i> | <i>Map Key</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|-----------|--------------------|--|---|---------------------|----------------------|--------------------|
| GEN | 4 | Exentricare Canada Inc. | 99 New Orchard Ave Ottawa ON K2B 5E6 | ENE/77.4 | 0.72 | 18 |
| GEN | 4 | Extendicare Canada Inc | 99 New Orchard Av Ottawa ON K2B 5E6 | ENE/77.4 | 0.72 | 18 |
| INC | 32 | | ON | SSE/240.3 | 5.46 | 19 |
| SCT | 21 | Maxxeon Inc. | 1025 Richmond Rd Suite 1108 Ottawa ON K2B 8G8 | ENE/166.0 | 2.43 | 19 |
| SCT | 23 | Institute of Professional Management Inc. | 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 | S/190.7 | 1.51 | 20 |
| SCT | 23 | Association of Professional Recruiters of Canada | 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 | S/190.7 | 1.51 | 20 |
| SCT | 23 | Association of Professional Recruiters of Canada | 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 | S/190.7 | 1.51 | 20 |
| SCT | 23 | Assocn-Pro Recruiters of Cnd | 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 | S/190.7 | 1.51 | 20 |
| SCT | 23 | Institute of Professional Mgmt | 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 | S/190.7 | 1.51 | 21 |
| SPL | 27 | PRIVATE RESIDENCE | MR. HERGET APT. BLDG 613-729-9437 1162 BYRON AVE. FURNACE OIL TANK OTTAWA CITY ON K2B 6T4 | E/224.9 | 5.60 | 21 |
| WWIS | 5 | | OTTAWA ON | ESE/77.6 | 2.46 | 21 |
| WWIS | 6 | | lot 25 con 1 ON | NW/84.7 | -3.54 | 22 |
| WWIS | 10 | | ON | WNW/126.8 | -3.54 | 22 |
| WWIS | 15 | | ON | NNW/154.5 | -3.54 | 23 |
| WWIS | 16 | | ON | NW/154.9 | -3.54 | 23 |
| WWIS | 20 | | OTTAWA ON | SSE/165.3 | 3.45 | 24 |
| WWIS | 22 | | ON | NNW/188.5 | -3.54 | 25 |
| WWIS | 24 | | lot 25 con 1 ON | NNW/198.9 | -3.54 | 25 |
| WWIS | 28 | | lot 25 con 1 ON | SE/227.7 | 6.25 | 26 |
| WWIS | 29 | | ON | SE/229.4 | 6.46 | 26 |
| WWIS | 30 | | ON | N/230.5 | -3.54 | 27 |
| WWIS | 31 | | lot 25 con 1 ON | WSW/232.2 | -3.54 | 27 |
| WWIS | 33 | | ON | SSE/247.4 | 4.87 | 28 |

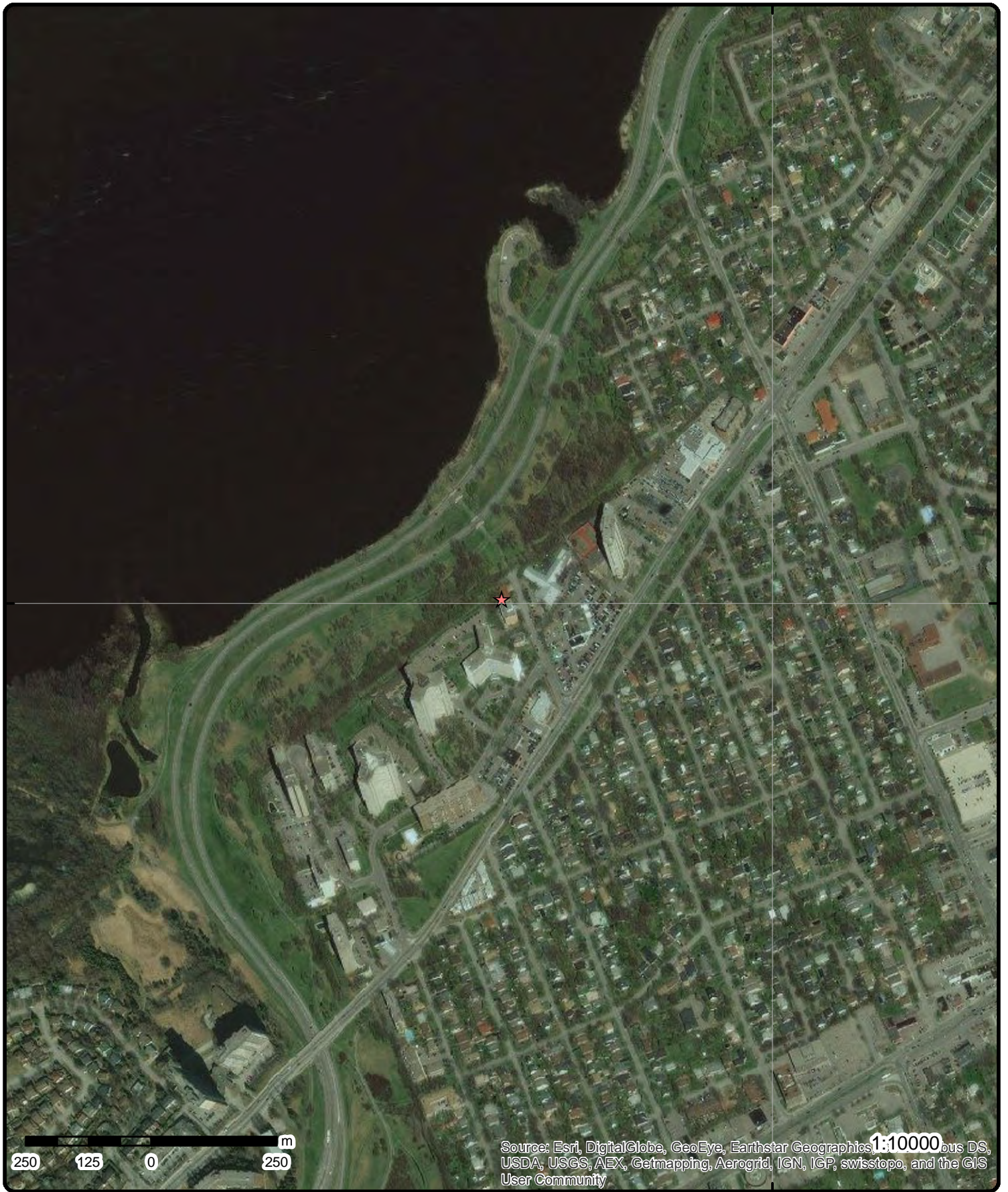


Map

Order No: 20160526100

Address: 100 New Orchard Ave, Ottawa, ON, K2B5E7

| | | | |
|-----------------------------------|----------------------|-----------------------------------|--------------------------------|
| 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 | Pipelines and Transmission | Other Recreation Area |
| | Proposed Road | | |
| | Ferry Route/Ice Road | | |



Aerial

Order No: 20160526100

Address: 100 New Orchard Ave, Ottawa, ON, K2B5E7

Detail Report

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|------------------------------------|-----------------|-------------------|----------------------------|---------------------------------|--|
| BORE | <u>2</u> | 1 of 1 | SSW/65.7 | 63.0 | ON |
| Borehole ID: | | 611024 | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | | 438911 | | Northing: | 5024852 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 60 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 62 |
| Total Depth m: | | 6.4 | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | | SEP-1972 | | Static Water Level: | -999.9 |
| Primary Water Use: | | | | Sec. Water Use: | |
| --- Details --- | | | | | |
| Stratum ID: | | 218387265 | | Top Depth(m): | 0.0 |
| Bottom Depth(m): | | 1.9 | | Stratum Desc: | ARTIFICIAL,SAND,SILT,GRAVEL. BROWN,GREY,COMPACT. |
| + | | | | Top Depth(m): | 1.9 |
| Stratum ID: | | 218387266 | | Stratum Desc: | SAND,SAND-FINE, GRAVEL- MEDIUM TO COARSE. BROWN,LOOSE. |
| Bottom Depth(m): | | 4.3 | | Top Depth(m): | 4.3 |
| + | | | | Stratum Desc: | SILT,SAND,TILL. GREY,DENSE TO VERY DENSE. 000000230006300900140070ND. BEDROCK,LIMESTONE, DOLO |
| Stratum ID: | | 218387267 | | | |
| Bottom Depth(m): | | 6.4 | | | |

| | | | | | |
|------------------------------------|-----------------|---------------|----------------|---------------------------------|-----------|
| BORE | <u>8</u> | 1 of 1 | N/110.9 | 60.0 | ON |
| Borehole ID: | | 611028 | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | | 438931 | | Northing: | 5025022 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 57.9 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 60.3 |
| Total Depth m: | | -999 | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | | DEC-1964 | | Static Water Level: | -999.9 |
| Primary Water Use: | | | | Sec. Water Use: | |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-----------------|------------------|-------------------|----------------------------|---------------|---|
| --- Details --- | | | | | |
| | Stratum ID: | 218387275 | | Top Depth(m): | 0.0 |
| | Bottom Depth(m): | 0.3 | | Stratum Desc: | SOIL. |
| | + | | | | |
| | Stratum ID: | 218387276 | | Top Depth(m): | 0.3 |
| | Bottom Depth(m): | 2.3 | | Stratum Desc: | SAND, LOOSE. |
| | + | | | | |
| | Stratum ID: | 218387277 | | Top Depth(m): | 2.3 |
| | Bottom Depth(m): | 4.1 | | Stratum Desc: | SAND,SILT. LOOSE. |
| | + | | | | |
| | Stratum ID: | 218387278 | | Top Depth(m): | 4.1 |
| | Bottom Depth(m): | 4.9 | | Stratum Desc: | TILL,SAND. FIRM. |
| | + | | | | |
| | Stratum ID: | 218387279 | | Top Depth(m): | 4.9 |
| | Bottom Depth(m): | | | Stratum Desc: | BEDROCK. MEDIUM TO COARSE. BROWN,LOOSE. SILT,SAND,TILL. GREY,DENSE TO VERY DENSE. 0000002300 |

| | | | | | |
|----------------------------|------------------|---------------|-----------------|-------------------------|--|
| BORE | 11 | 1 of 1 | SW/140.2 | 60.9 | ON |
| Borehole ID: | 611022 | | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | 438831 | | | Northing: | 5024822 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 58.1 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 61.5 |
| Total Depth m: | 4.3 | | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | SEP-1972 | | | Static Water Level: | -999.9 |
| Primary Water Use: | | | | Sec. Water Use: | |
| --- Details --- | | | | | |
| | Stratum ID: | 218387258 | | Top Depth(m): | 0.0 |
| | Bottom Depth(m): | 0.2 | | Stratum Desc: | UNSPECIFIED,SOIL. BROWN. |
| | + | | | | |
| | Stratum ID: | 218387259 | | Top Depth(m): | 0.2 |
| | Bottom Depth(m): | 1.8 | | Stratum Desc: | SAND,SILT-FINE, GRAVEL. BROWN,LOOSE. |
| | + | | | | |
| | Stratum ID: | 218387260 | | Top Depth(m): | 1.8 |
| | Bottom Depth(m): | 3.0 | | Stratum Desc: | SAND,SILT-FINE, GRAVEL. GREY,LOOSE,VERY LOOSE. |
| | + | | | | |
| | Stratum ID: | 218387261 | | Top Depth(m): | 3.0 |
| | Bottom Depth(m): | 4.3 | | Stratum Desc: | SILT,GRAVEL,SAND. GREY,VERY DENSE. 0000500500006000600100090ND. BEDROCK,LIMESTONE, DOLOMITE. G |

| | | | | | |
|-------------|-----------|---------------|-----------------|-------------|--|
| BORE | 12 | 1 of 1 | SW/140.5 | 61.9 | |
|-------------|-----------|---------------|-----------------|-------------|--|

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|------------------------------------|----------------|--------------------------|------------------------------------|---------------------------------|--|
| | | | | | ON |
| Borehole ID: | 611021 | | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | 438851 | | | Northing: | 5024802 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 59.5 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 62.1 |
| Total Depth m: | 9.4 | | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | SEP-1972 | | | Static Water Level: | -999.9 |
| Primary Water Use: | | | | Sec. Water Use: | |
| --- Details --- | | | | | |
| Stratum ID: | 218387252 | | | Top Depth(m): | 0.0 |
| Bottom Depth(m): | 0.3 | | | Stratum Desc: | UNSPECIFIED,SOIL. BROWN. |
| + | | | | | |
| Stratum ID: | 218387253 | | | Top Depth(m): | 0.3 |
| Bottom Depth(m): | 0.8 | | | Stratum Desc: | SAND,SILT,GRAVEL. BROWN,LOOSE. |
| + | | | | | |
| Stratum ID: | 218387254 | | | Top Depth(m): | 0.8 |
| Bottom Depth(m): | 2.4 | | | Stratum Desc: | SILT,GRAVEL,SAND. BROWN,COMPACT,VERY DENSE. |
| + | | | | | |
| Stratum ID: | 218387255 | | | Top Depth(m): | 2.4 |
| Bottom Depth(m): | 7.0 | | | Stratum Desc: | SILT,SAND,TILL. GREY,VERY DENSE. |
| + | | | | | |
| Stratum ID: | 218387256 | | | Top Depth(m): | 7.0 |
| Bottom Depth(m): | 7.9 | | | Stratum Desc: | BEDROCK,LIMESTONE, DOLOMITE. GREY,SOUND. |
| + | | | | | |
| Stratum ID: | 218387257 | | | Top Depth(m): | 7.9 |
| Bottom Depth(m): | 9.4 | | | Stratum Desc: | BEDROCK,LIMESTONE, DOLOMITE. GREY,SOUND. 000100070002503100078100002301 0000185NSE. 00000 015 |

| | | | | | |
|------------------------------------|-----------|---------------|----------------|---------------------------------|-----------|
| BORE | 14 | 1 of 1 | W/148.4 | 60.0 | ON |
| Borehole ID: | 611025 | | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | 438791 | | | Northing: | 5024922 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 56.9 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 60.1 |
| Total Depth m: | -999 | | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | DEC-1963 | | | Static Water Level: | -999.9 |
| Primary Water Use: | | | | Sec. Water Use: | |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-------------------------|----------------|--------------------------|------------------------------------|----------------------|--|
| --- Details --- | | | | | |
| Stratum ID: | 218387268 | | | Top Depth(m): | 0.0 |
| Bottom Depth(m): | 1.5 | | | Stratum Desc: | FILL. |
| + | | | | | |
| Stratum ID: | 218387269 | | | Top Depth(m): | 1.5 |
| Bottom Depth(m): | 5.1 | | | Stratum Desc: | SAND,SILT. COMPACT. |
| + | | | | | |
| Stratum ID: | 218387270 | | | Top Depth(m): | 5.1 |
| Bottom Depth(m): | | | | Stratum Desc: | TILL. COMPACT. SAND,SAND-FINE, GRAVEL-MEDIUM TO COARSE. BROWN,LOOSE. SILT,SAND,TILL. GREY,D |

| | | | | | |
|------------------------------------|-----------|---------------|----------------|---------------------------------|---|
| BORE | 18 | 1 of 1 | S/161.0 | 65.6 | ON |
| Borehole ID: | 611018 | | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | 438961 | | | Northing: | 5024752 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 65.5 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 65.3 |
| Total Depth m: | -999 | | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | | | | Static Water Level: | -999.9 |
| Primary Water Use: | | | | Sec. Water Use: | |
| --- Details --- | | | | | |
| Stratum ID: | 218387244 | | | Top Depth(m): | 0.0 |
| Bottom Depth(m): | 6.4 | | | Stratum Desc: | CLAY. |
| + | | | | | |
| Stratum ID: | 218387245 | | | Top Depth(m): | 6.4 |
| Bottom Depth(m): | | | | Stratum Desc: | BEDROCK,LIMESTONE. GREY. ED,TILL, SILT. DENSE. SILT,SAND,GRAVEL. DENSE. SILT,SAND,CLAY. DE |

| | | | | | |
|------------------------------------|-----------|---------------|-----------------|---------------------------------|-----------|
| BORE | 29 | 1 of 2 | SE/229.4 | 70.0 | ON |
| Borehole ID: | 611019 | | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | 439121 | | | Northing: | 5024772 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 73.2 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 69.2 |
| Total Depth m: | 29 | | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | MAY-1953 | | | Static Water Level: | -999.9 |
| Primary Water Use: | | | | Sec. Water Use: | |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-----------------|---------|-------------------|----------------------------|----------------------|---|
| --- Details --- | | | | | |
| | | 218387246 | | Top Depth(m): | 0.0 |
| | | 3.0 | | Stratum Desc: | CLAY. GREY. |
| | | | | | |
| | | 218387247 | | Top Depth(m): | 3.0 |
| | | 18.3 | | Stratum Desc: | LIMESTONE. |
| | | | | | |
| | | 218387248 | | Top Depth(m): | 18.3 |
| | | 21.3 | | Stratum Desc: | LIMESTONE, SHALE. |
| | | | | | |
| | | 218387249 | | Top Depth(m): | 21.3 |
| | | 29.0 | | Stratum Desc: | LIMESTONE. WHITE. 00075AVEL. DENSE. SILT, SAND, CLAY. DENSE. 00000 015 00025 010 0006 |

| | | | | | |
|-----------------------------|----------|-----------------|-----------|------|---|
| CA | <u>7</u> | 1 of 1 | SSE/109.1 | 66.0 | R.M. OF OTTAWA-CARLETON NEW ORCHARD AVE/AMBLESIDE DR. OTTAWA ON |
| Certificate #: | | 7-1035-98- | | | |
| Application Year: | | 98 | | | |
| Issue Date: | | 10/21/1998 | | | |
| Approval Type: | | Municipal water | | | |
| Status: | | Approved | | | |
| Application Type: | | | | | |
| Client Name: | | | | | |
| Client Address: | | | | | |
| Client City: | | | | | |
| Client Postal Code: | | | | | |
| Project Description: | | | | | |
| Contaminants: | | | | | |
| Emission Control: | | | | | |

| | | | | | |
|-----------------------------|-----------|---------------------------------|-----------|------|--|
| CA | <u>17</u> | 1 of 2 | ESE/157.7 | 68.0 | METRO PLYMOUTH-CHRYSLER LIMITED 1047 RICHMOND ROAD OTTAWA CITY ON K2B 6R1 |
| Certificate #: | | 8-4122-97- | | | |
| Application Year: | | 97 | | | |
| Issue Date: | | 9/9/1997 | | | |
| Approval Type: | | Industrial air | | | |
| Status: | | Approved | | | |
| Application Type: | | | | | |
| Client Name: | | | | | |
| Client Address: | | | | | |
| Client City: | | | | | |
| Client Postal Code: | | | | | |
| Project Description: | | WASTE OIL FURNACE MODEL CB-5000 | | | |
| Contaminants: | | | | | |
| Emission Control: | | | | | |

| | | | | | |
|----|-----------|--------|---------|------|---|
| CA | <u>25</u> | 1 of 3 | S/220.8 | 66.0 | 715137 Ontario Ltd. 1075 Richmond Road |
|----|-----------|--------|---------|------|---|

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-----------|----------------|--------------------------|------------------------------------|----------------------|-------------|
|-----------|----------------|--------------------------|------------------------------------|----------------------|-------------|

Ottawa ON K2B 6R2

Certificate #: 6610-5JCM83
Application Year: 2003
Issue Date: 4/2/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

| | | | | | |
|-----------|------------------|---------------|------------------|-------------|---|
| CA | <u>26</u> | 1 of 1 | ENE/222.8 | 66.0 | KAYSUSH DEVELOPMENTS LTD. LOT 1, 993 RICHMOND RD. (SWM) OTTAWA CITY ON K2B 6R1 |
|-----------|------------------|---------------|------------------|-------------|---|

Certificate #: 3-0601-97-
Application Year: 97
Issue Date: 7/2/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

| | | | | | |
|-------------|-----------------|---------------|-----------------|-------------|---|
| EASR | <u>3</u> | 1 of 1 | ENE/72.3 | 64.7 | EXTENDICARE (CANADA) INC. 99 NEW ORCHARD OTTAWA ON |
|-------------|-----------------|---------------|-----------------|-------------|---|

CofA Number: R-002-1469597070
Date: 12/10/14
Status: Registered
Project Type: Standby Power System

| | | | | | |
|-------------|------------------|---------------|------------------|-------------|--|
| EASR | <u>17</u> | 2 of 2 | ESE/157.7 | 68.0 | Metro Plymouth Chrysler Ltd. 1047 RICHMOND RD OTTAWA ON K2B 6R1 |
|-------------|------------------|---------------|------------------|-------------|--|

CofA Number: R-001-6266482893
Date: 10/30/2012
Status: Registered
Project Type: Automotive Refinishing

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-------------|------------------|--------------------------|------------------------------------|----------------------|---|
| EASR | <u>25</u> | 2 of 3 | S/220.8 | 66.0 | 1866688 Ontario Ltd 1075 RICHMOND RD OTTAWA ON K2B 6R2 |

CofA Number: R-001-9236910112
Date: 10/25/2012
Status: Registered
Project Type: Automotive Refinishing

| | | | | | |
|------------|------------------|---------------|------------------|-------------|---|
| EBR | <u>13</u> | 1 of 1 | ESE/145.7 | 68.0 | Metro Plymouth-chrysler Ltd. City of Ottawa ON |
|------------|------------------|---------------|------------------|-------------|---|

Year: 1997
EBR Registry No.: IA7E1127
Ministry Ref. No.:
Type: Instrument
Instrument Type: EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date: 7/31/97
Location: City of Ottawa
Proponent Address: Metro Plymouth-chrysler Ltd.,1047 Richmond Road,Ottawa, Ontario,K2B 6R1

| | | | | | |
|------------|------------------|---------------|----------------|-------------|---|
| EBR | <u>25</u> | 3 of 3 | S/220.8 | 66.0 | 715137 Ontario Ltd. 1075 Richmond Road Ottawa ON K2B 6R2 |
|------------|------------------|---------------|----------------|-------------|---|

Year: 2002
EBR Registry No.: IA02E1181
Ministry Ref. No.:
Type: Instrument
Instrument Type: EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date: 9/30/02
Location: 1075 Richmond Road,Ottawa, OntarioOttawa
Proponent Address: 715137 Ontario Ltd.1075 Richmond Road,Ottawa, Ontario, K2B 6R2

| | | | | | |
|------------|-----------------|---------------|-----------------|-------------|--|
| EHS | <u>1</u> | 1 of 1 | SSE/27.6 | 65.0 | 108 New Orchard Ave Ottawa ON K2B 5E7 |
|------------|-----------------|---------------|-----------------|-------------|--|

Addit. Info Ordered:
Order No.: 20130124021
Report Date: 04-FEB-13
Report Type: Standard Report
Search Radius (km): .25

| | | | | | |
|------------|-----------------|---------------|-----------------|-------------|--|
| EHS | <u>4</u> | 1 of 4 | ENE/77.4 | 64.3 | 99 New Orchard Avenue Ottawa ON K2B 5E6 |
|------------|-----------------|---------------|-----------------|-------------|--|

Addit. Info Ordered:
Order No.: 20060329081
Report Date: 4/4/2006
Report Type: Complete Report
Search Radius (km): 0.25

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-----------------------------|------------------|--|------------------------------------|----------------------|---|
| EHS | <u>4</u> | 2 of 4 | ENE/77.4 | 64.3 | 99 New Orchard Ave Ottawa ON K2B5E6 |
| Addit. Info Ordered: | | | | | |
| Order No.: | | 20140505015 | | | |
| Report Date: | | 08-MAY-14 | | | |
| Report Type: | | Custom Report | | | |
| Search Radius (km): | | .25 | | | |
| EHS | <u>9</u> | 1 of 1 | S/123.1 | 64.6 | 1071 Ambleside drive ottawa ON K2B 6V4 |
| Addit. Info Ordered: | | | | | |
| Order No.: | | Fire Insur. Maps And /or Site Plans 20080408028 | | | |
| Report Date: | | 4/17/2008 | | | |
| Report Type: | | Custom Report | | | |
| Search Radius (km): | | 0.25 | | | |
| EHS | <u>19</u> | 1 of 1 | SSE/163.4 | 66.4 | 1071 Richmond Rd. Ottawa ON K2B 6R2 |
| Addit. Info Ordered: | | | | | |
| Order No.: | | 20070509005 | | | |
| Report Date: | | 5/17/2007 | | | |
| Report Type: | | CAN - Complete Report | | | |
| Search Radius (km): | | 0.25 | | | |
| GEN | <u>4</u> | 3 of 4 | ENE/77.4 | 64.3 | Extencicare Canada Inc. 99 New Orchard Ave Ottawa ON K2B 5E6 |
| Generator #: | | ON9366274 | | | |
| Approval Yrs: | | 06 | | | |
| SIC Code: | | 623999 | | | |
| SIC Description: | | All Other Residential Care Facilities | | | |
| --- Details --- | | | | | |
| Waste Code: | | 148 | | | |
| Waste Description: | | INORGANIC LABORATORY CHEMICALS | | | |
| + | | | | | |
| Waste Code: | | 221 | | | |
| Waste Description: | | LIGHT FUELS | | | |
| GEN | <u>4</u> | 4 of 4 | ENE/77.4 | 64.3 | Extencicare Canada Inc 99 New Orchard Av Ottawa ON K2B 5E6 |
| Generator #: | | ON3960850 | | | |
| Approval Yrs: | | 2010 | | | |
| SIC Code: | | 623310 | | | |
| SIC Description: | | Community Care Facilities for the Elderly | | | |

| <i>DB</i> | <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elevation (m)</i> | <i>Site</i> |
|------------------------|---------------------------|--------------------------|--------------------------------|----------------------|-------------|
| <i>--- Details ---</i> | | | | | |
| | <i>Waste Code:</i> | 252 | | | |
| | <i>Waste Description:</i> | WASTE OILS & LUBRICANTS | | | |
| | + | | | | |
| | <i>Waste Code:</i> | 251 | | | |
| | <i>Waste Description:</i> | OIL SKIMMINGS & SLUDGES | | | |

| | | | | | |
|---------------------------------|------------------|----------------------------------|------------------|-------------|-----------|
| INC | <u>32</u> | 1 of 1 | SSE/240.3 | 69.0 | ON |
| <i>Incident ID:</i> | | 2679322 | | | |
| <i>Incident Number:</i> | | 522924 | | | |
| <i>SR Type:</i> | | FS-Perform L1 Incident Insp | | | |
| <i>Status Code:</i> | | Causal Analysis Complete | | | |
| <i>Summary:</i> | | 1208 Byron Avenue, Ottawa - Leak | | | |
| <i>Drainage System:</i> | | Unknown | | | |
| <i>Sub Surface Contam.:</i> | | Yes, unknown | | | |
| <i>Aff. Prop. Use Water:</i> | | No | | | |
| <i>Contam. Migrated:</i> | | Unknown | | | |
| <i>Contact Natural Env.:</i> | | Yes | | | |
| <i>Near Body of Water:</i> | | No | | | |
| <i>Approx. Quant. Rel.:</i> | | Unknown | | | |
| <i>Equipment Model:</i> | | | | | |
| <i>Serial No:</i> | | | | | |
| <i>Residential App. Type:</i> | | | | | |
| <i>Commercial App. Type:</i> | | | | | |
| <i>Industrial App. Type:</i> | | | | | |
| <i>Institutional App. Type:</i> | | | | | |
| <i>Venting Type:</i> | | | | | |
| <i>Vent Connector Mater.:</i> | | | | | |
| <i>Vent Chimney Mater.:</i> | | | | | |
| <i>Notes:</i> | | | | | |
| <i>Pipeline Type:</i> | | | | | |
| <i>Pipeline Involved:</i> | | | | | |
| <i>Pipe Material:</i> | | | | | |
| <i>Depth Ground Cover:</i> | | | | | |
| <i>Regulator Location:</i> | | | | | |
| <i>Regulator Type:</i> | | | | | |
| <i>Operation Pressure:</i> | | | | | |
| <i>Pipeline Notes:</i> | | | | | |
| <i>Liquid Prop Make:</i> | | | | | |
| <i>Liquid Prop Model:</i> | | | | | |
| <i>Liquid Prop Serial No:</i> | | | | | |
| <i>Equipment Type:</i> | | | | | |
| <i>Cylinder Capacity:</i> | | | | | |
| <i>Cylinder Capac. Units:</i> | | | | | |
| <i>Cylinder Material Type:</i> | | | | | |
| <i>Tank Capacity:</i> | | | | | |
| <i>Tank Material Type:</i> | | | | | |
| <i>Tank Storage Type:</i> | | | | | |
| <i>Tank Location Type:</i> | | | | | |
| <i>Pump Flow Rate Capac.:</i> | | | | | |
| <i>Liquid Prop Notes:</i> | | | | | |

| | | | | | |
|------------|------------------|---------------|------------------|-------------|---|
| SCT | <u>21</u> | 1 of 1 | ENE/166.0 | 66.0 | Maxxeon Inc. 1025 Richmond Rd Suite 1108 |
|------------|------------------|---------------|------------------|-------------|---|

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|--------------------------|------------------|--------------------------------|--------------------------------|----------------------|--|
| Ottawa ON K2B 8G8 | | | | | |
| Established: | | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --- Details --- | | | | | |
| Description: | | Lighting Fixture Manufacturing | | | |
| SIC/NAICS Code: | | 335120 | | | |
| SCT | <u>23</u> | 1 of 5 | S/190.7 | 65.1 | Institute of Professional Management Inc. 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 |
| Established: | | 1984 | | | |
| Plant Size (ft²): | | 8 | | | |
| Employment: | | | | | |
| --- Details --- | | | | | |
| Description: | | Periodical Publishers | | | |
| SIC/NAICS Code: | | 511120 | | | |
| SCT | <u>23</u> | 2 of 5 | S/190.7 | 65.1 | Association of Professional Recruiters of Canada 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 |
| Established: | | 1984 | | | |
| Plant Size (ft²): | | 8 | | | |
| Employment: | | | | | |
| --- Details --- | | | | | |
| Description: | | Periodical Publishers | | | |
| SIC/NAICS Code: | | 511120 | | | |
| SCT | <u>23</u> | 3 of 5 | S/190.7 | 65.1 | Association of Professional Recruiters of Canada 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 |
| Established: | | 1984 | | | |
| Plant Size (ft²): | | 8 | | | |
| Employment: | | | | | |
| --- Details --- | | | | | |
| Description: | | Periodical Publishers | | | |
| SIC/NAICS Code: | | 511120 | | | |
| SCT | <u>23</u> | 4 of 5 | S/190.7 | 65.1 | Assocn-Pro Recruiters of Cnd 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 |
| Established: | | 01-OCT-84 | | | |
| Plant Size (ft²): | | 5000 | | | |
| Employment: | | | | | |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|------------------------------|------------------|---|--------------------------------|---|---|
| --- Details --- | | | | | |
| Description: | | Professional Organizations | | | |
| SIC/NAICS Code: | | 813920 | | | |
| SCT | <u>23</u> | 5 of 5 | S/190.7 | 65.1 | Institute of Professional Mgmt 1081 Ambleside Dr Suite 2210 Ottawa ON K2B 8C8 |
| Established: | | 01-OCT-84 | | | |
| Plant Size (ft²): | | 5000 | | | |
| Employment: | | | | | |
| --- Details --- | | | | | |
| Description: | | Professional Organizations | | | |
| SIC/NAICS Code: | | 813920 | | | |
| SPL | <u>27</u> | 1 of 1 | E/224.9 | 69.1 | PRIVATE RESIDENCE MR. HERGET APT. BLDG 613-729- 9437 1162 BYRON AVE. FURNACE OIL TANK OTTAWA CITY ON K2B 6T4 |
| Ref NO: | | 579 | | | |
| Contaminant Code: | | | | | |
| Contaminant Name: | | | | | |
| Contaminant Quantity: | | | | | |
| Incident Cause: | | VALVE/FITTING LEAK OR FAILURE | | | |
| Incident Dt: | | 2/23/1988 | | | |
| Incident Reason: | | MATERIAL FAILURE | | | |
| Incident Summary: | | RESIDENCE - 200 L.FURN. OIL TO FLOOR DRAIN. | | | |
| MOE Reported Dt: | | 2/23/1988 | | | |
| Environmental Impact: | | NOT ANTICIPATED | | | |
| Nature of Impact: | | | | | |
| Receiving Medium: | | WATER | | | |
| SAC Action Class: | | | | | |
| Sector Source Type: | | | | | |
| Site Municipality: | | 20101 | | | |
| WWIS | <u>5</u> | 1 of 1 | ESE/77.6 | 66.0 | OTTAWA ON |
| Well ID: | | 7039988 | | Lot: | |
| Concession: | | | | Concession Name: | |
| County: | | OTTAWA-CARLETON | | Municipality: OTTAWA CITY | |
| Easting Nad83: | | 439007 | | Northing Nad83: 5024875 | |
| Zone: | | 18 | | Utm Reliability: margin of error : 10 - 30 m | |
| Primary Water Use: | | | | Construction Date: 07-DEC-06 | |
| Sec. Water Use: | | | | Well Depth: 4.15 m | |
| Pump Rate: | | | | Static Water Level: | |
| Flow Rate: | | | | Clear/Cloudy: | |
| Specific Capacity: | | | | Final Well Status: Test Hole | |
| Construction Method: | | Diamond | | Flowing (y/n): | |
| Elevation (m): | | 65.64 | | Elevation Reliability: | |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-----------------------------|-----------------|-------------------------------|------------------------------------|----------------------------|-------------------------------------|
| Depth to Bedrock: | | | | Overburden/Bedrock: | Unknown type in the lower layers(s) |
| Water Type: | | | | Casing Material: | Not stated |
| --- Details --- | | | | | |
| Thickness: | | .6 m | Original Depth: | | .6 m |
| Material Colour: | | BROWN | Material: | | SAND, SILTY |
| + | | | | | |
| Thickness: | | .6 m | Original Depth: | | 1.2 m |
| Material Colour: | | BROWN | Material: | | SAND |
| + | | | | | |
| Thickness: | | .35 m | Original Depth: | | 1.55 m |
| Material Colour: | | | Material: | | |
| + | | | | | |
| Thickness: | | 2.6 m | Original Depth: | | 4.15 m |
| Material Colour: | | | Material: | | |
| WWIS | 6 | 1 of 1 | NW/84.7 | 60.0 | lot 25 con 1 ON |
| Well ID: | 1503894 | Lot: | | 025 | |
| Concession: | 01 | Concession Name: | | OF | |
| County: | OTTAWA-CARLETON | Municipality: | | OTTAWA CITY (NEPEAN) | |
| Easting Nad83: | 438870.6 | Northing Nad83: | | 5024962 | |
| Zone: | 18 | Utm Reliability: | | unknown UTM | |
| Primary Water Use: | Domestic | Construction Date: | | 26-OCT-48 | |
| Sec. Water Use: | | Well Depth: | | 96 ft | |
| Pump Rate: | | Static Water Level: | | 19 ft | |
| Flow Rate: | | Clear/Cloudy: | | CLEAR | |
| Specific Capacity: | | Final Well Status: | | Water Supply | |
| Construction Method: | Cable Tool | Flowing (y/n): | | N | |
| Elevation (m): | 59.89 | Elevation Reliability: | | | |
| Depth to Bedrock: | 15 | Overburden/Bedrock: | | Bedrock | |
| Water Type: | FRESH | Casing Material: | | FRESH, MINERIAL | |
| --- Details --- | | | | | |
| Thickness: | | 15 ft | Original Depth: | | 15 ft |
| Material Colour: | | | Material: | | CLAY, MEDIUM SAND, BOULDERS |
| + | | | | | |
| Thickness: | | 81 ft | Original Depth: | | 96 ft |
| Material Colour: | | | Material: | | LIMESTONE |
| WWIS | 10 | 1 of 1 | WNW/126.8 | 60.0 | ON |
| Well ID: | 1508934 | Lot: | | | |
| Concession: | | Concession Name: | | | |
| County: | OTTAWA-CARLETON | Municipality: | | OTTAWA CITY | |
| Easting Nad83: | 438815.6 | Northing Nad83: | | 5024942 | |
| Zone: | 18 | Utm Reliability: | | unknown UTM | |
| Primary Water Use: | Domestic | Construction Date: | | 30-JAN-54 | |
| Sec. Water Use: | | Well Depth: | | 75 ft | |
| Pump Rate: | 5 GPM | Static Water Level: | | 11 ft | |
| Flow Rate: | | Clear/Cloudy: | | CLEAR | |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-----------------------------|----------------|--------------------------|--------------------------------|-------------------------------|-----------------|
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | Cable Tool | | | Flowing (y/n): | N |
| Elevation (m): | 59.51 | | | Elevation Reliability: | |
| Depth to Bedrock: | 13 | | | Overburden/Bedrock: | Bedrock |
| Water Type: | FRESH | | | Casing Material: | FRESH, MINERIAL |
| --- Details --- | | | | | |
| Thickness: | 5 ft | | | Original Depth: | 5 ft |
| Material Colour: | | | | Material: | MEDIUM SAND |
| + | | | | | |
| Thickness: | 8 ft | | | Original Depth: | 13 ft |
| Material Colour: | | | | Material: | CLAY, BOULDERS |
| + | | | | | |
| Thickness: | 62 ft | | | Original Depth: | 75 ft |
| Material Colour: | | | | Material: | LIMESTONE |

| | | | | | |
|-----------------------------|-----------------|---------------|------------------|-------------------------------|------------------|
| WWIS | 15 | 1 of 1 | NNW/154.5 | 60.0 | ON |
| Well ID: | 1508933 | | | Lot: | |
| Concession: | | | | Concession Name: | |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY |
| Easting Nad83: | 438855.6 | | | Northing Nad83: | 5025042 |
| Zone: | 18 | | | Utm Reliability: | unknown UTM |
| Primary Water Use: | Domestic | | | Construction Date: | 07-JUN-51 |
| Sec. Water Use: | | | | Well Depth: | 75 ft |
| Pump Rate: | 7 GPM | | | Static Water Level: | 8 ft |
| Flow Rate: | | | | Clear/Cloudy: | CLEAR |
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | Cable Tool | | | Flowing (y/n): | N |
| Elevation (m): | 57.85 | | | Elevation Reliability: | |
| Depth to Bedrock: | 14 | | | Overburden/Bedrock: | Bedrock |
| Water Type: | FRESH | | | Casing Material: | FRESH, MINERIAL |
| --- Details --- | | | | | |
| Thickness: | 14 ft | | | Original Depth: | 14 ft |
| Material Colour: | | | | Material: | MEDIUM SAND |
| + | | | | | |
| Thickness: | 10 ft | | | Original Depth: | 24 ft |
| Material Colour: | | | | Material: | LIMESTONE, SHALE |
| + | | | | | |
| Thickness: | 51 ft | | | Original Depth: | 75 ft |
| Material Colour: | GREY | | | Material: | LIMESTONE |

| | | | | | |
|-----------------------|-----------------|---------------|-----------------|-------------------------|-------------|
| WWIS | 16 | 1 of 1 | NW/154.9 | 60.0 | ON |
| Well ID: | 1508935 | | | Lot: | |
| Concession: | | | | Concession Name: | |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY |
| Easting Nad83: | 438820.6 | | | Northing Nad83: | 5025012 |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-----------------------------|----------------|--------------------------|--------------------------------|-------------------------------|-----------------|
| Zone: | | 18 | | Utm Reliability: | unknown UTM |
| Primary Water Use: | | Domestic | | Construction Date: | 28-MAY-54 |
| Sec. Water Use: | | | | Well Depth: | 87 ft |
| Pump Rate: | | 10 GPM | | Static Water Level: | 10 ft |
| Flow Rate: | | | | Clear/Cloudy: | CLOUDY |
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | | Cable Tool | | Flowing (y/n): | N |
| Elevation (m): | | 59.15 | | Elevation Reliability: | |
| Depth to Bedrock: | | 9 | | Overburden/Bedrock: | Bedrock |
| Water Type: | | FRESH | | Casing Material: | FRESH, MINERIAL |
| --- Details --- | | | | | |
| Thickness: | | 9 ft | | Original Depth: | 9 ft |
| Material Colour: | | | | Material: | MEDIUM SAND |
| + | | | | | |
| Thickness: | | 46 ft | | Original Depth: | 55 ft |
| Material Colour: | | GREY | | Material: | LIMESTONE |
| + | | | | | |
| Thickness: | | 10 ft | | Original Depth: | 65 ft |
| Material Colour: | | BLACK | | Material: | LIMESTONE |
| + | | | | | |
| Thickness: | | 22 ft | | Original Depth: | 87 ft |
| Material Colour: | | GREY | | Material: | LIMESTONE |

WWIS

20

1 of 1

SSE/165.3

67.0

OTTAWA ON

| | | | |
|-----------------------------|-----------------|-------------------------------|-----------------------------|
| Well ID: | 7044334 | Lot: | |
| Concession: | | Concession Name: | |
| County: | OTTAWA-CARLETON | Municipality: | OTTAWA CITY |
| Easting Nad83: | 439011 | Northing Nad83: | 5024763 |
| Zone: | 18 | Utm Reliability: | margin of error : 10 - 30 m |
| Primary Water Use: | Not Used | Construction Date: | 22-MAY-07 |
| Sec. Water Use: | | Well Depth: | 3.6 m |
| Pump Rate: | | Static Water Level: | |
| Flow Rate: | | Clear/Cloudy: | OTHER |
| Specific Capacity: | | Final Well Status: | Test Hole |
| Construction Method: | Boring | Flowing (y/n): | N |
| Elevation (m): | 66.35 | Elevation Reliability: | |
| Depth to Bedrock: | 7 | Overburden/Bedrock: | Bedrock |
| Water Type: | | Casing Material: | Not stated |
| --- Details --- | | | |
| Thickness: | .1 m | Original Depth: | .1 m |
| Material Colour: | | Material: | STONES |
| + | | | |
| Thickness: | .2 m | Original Depth: | .3 m |
| Material Colour: | GREY | Material: | FILL, SILTY, SAND |
| + | | | |
| Thickness: | .6 m | Original Depth: | .9 m |
| Material Colour: | YELLOW | Material: | FILL, SILTY, SAND |
| + | | | |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-------------------------|----------------|--------------------------|------------------------------------|------------------------|---------------------|
| Thickness: | .9 m | | | Original Depth: | 1.8 m |
| Material Colour: | BROWN | | | Material: | SAND, SILTY, GRAVEL |
| + | | | | | |
| Thickness: | .4 m | | | Original Depth: | 2.2 m |
| Material Colour: | RED | | | Material: | TILL, SILTY, SAND |
| + | | | | | |
| Thickness: | 1.4 m | | | Original Depth: | 3.6 m |
| Material Colour: | GREY | | | Material: | ROCK, SHALE |

| | | | | | |
|-----------------------------|-----------------|---------------|------------------|-------------------------------|---------------------------------|
| WWIS | 22 | 1 of 1 | NNW/188.5 | 60.0 | ON |
| Well ID: | 1508898 | | | Lot: | |
| Concession: | | | | Concession Name: | |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY |
| Easting Nad83: | 438839.6 | | | Northing Nad83: | 5025072 |
| Zone: | 18 | | | Utm Reliability: | margin of error : 100 m - 300 m |
| Primary Water Use: | Domestic | | | Construction Date: | 10-JUN-50 |
| Sec. Water Use: | | | | Well Depth: | 60 ft |
| Pump Rate: | 30 GPM | | | Static Water Level: | 6 ft |
| Flow Rate: | | | | Clear/Cloudy: | CLEAR |
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | Cable Tool | | | Flowing (y/n): | N |
| Elevation (m): | 55.79 | | | Elevation Reliability: | |
| Depth to Bedrock: | 6 | | | Overburden/Bedrock: | Bedrock |
| Water Type: | FRESH | | | Casing Material: | FRESH, MINERIAL |
| --- Details --- | | | | | |
| Thickness: | 6 ft | | | Original Depth: | 6 ft |
| Material Colour: | | | | Material: | TOPSOIL |
| + | | | | | |
| Thickness: | 3 ft | | | Original Depth: | 9 ft |
| Material Colour: | | | | Material: | SHALE |
| + | | | | | |
| Thickness: | 51 ft | | | Original Depth: | 60 ft |
| Material Colour: | | | | Material: | LIMESTONE |

| | | | | | |
|-----------------------------|-----------------|---------------|------------------|-------------------------------|------------------------|
| WWIS | 24 | 1 of 1 | NNW/198.9 | 60.0 | lot 25 con 1 ON |
| Well ID: | 1503899 | | | Lot: | 025 |
| Concession: | 01 | | | Concession Name: | OF |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY (NEPEAN) |
| Easting Nad83: | 438880.6 | | | Northing Nad83: | 5025102 |
| Zone: | 18 | | | Utm Reliability: | unknown UTM |
| Primary Water Use: | Domestic | | | Construction Date: | 15-JUL-49 |
| Sec. Water Use: | | | | Well Depth: | 75 ft |
| Pump Rate: | | | | Static Water Level: | 8 ft |
| Flow Rate: | | | | Clear/Cloudy: | |
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | Cable Tool | | | Flowing (y/n): | N |
| Elevation (m): | 56.82 | | | Elevation Reliability: | |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|--------------------------|----------------|--------------------------|--------------------------------|----------------------------|----------------|
| Depth to Bedrock: | 8 | | | Overburden/Bedrock: | Bedrock |
| Water Type: | FRESH | | | Casing Material: | FRESH, MINERAL |
| --- Details --- | | | | | |
| Thickness: | 3 ft | | | Original Depth: | 3 ft |
| Material Colour: | | | | Material: | TOPSOIL |
| + | | | | | |
| Thickness: | 5 ft | | | Original Depth: | 8 ft |
| Material Colour: | | | | Material: | MEDIUM SAND |
| + | | | | | |
| Thickness: | 67 ft | | | Original Depth: | 75 ft |
| Material Colour: | | | | Material: | LIMESTONE |

| | | | | | |
|-----------------------------|------------------|---------------|-----------------|-------------------------------|------------------------|
| WWIS | <u>28</u> | 1 of 1 | SE/227.7 | 69.8 | lot 25 con 1 ON |
| Well ID: | 1503902 | | | Lot: | 025 |
| Concession: | 01 | | | Concession Name: | OF |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY (NEPEAN) |
| Easting Nad83: | 439090.6 | | | Northing Nad83: | 5024742 |
| Zone: | 18 | | | Utm Reliability: | unknown UTM |
| Primary Water Use: | Domestic | | | Construction Date: | 08-OCT-49 |
| Sec. Water Use: | | | | Well Depth: | 95 ft |
| Pump Rate: | 7 GPM | | | Static Water Level: | 30 ft |
| Flow Rate: | | | | Clear/Cloudy: | CLEAR |
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | Cable Tool | | | Flowing (y/n): | N |
| Elevation (m): | 68.26 | | | Elevation Reliability: | |
| Depth to Bedrock: | 9 | | | Overburden/Bedrock: | Bedrock |
| Water Type: | FRESH | | | Casing Material: | FRESH, MINERAL |
| --- Details --- | | | | | |
| Thickness: | 9 ft | | | Original Depth: | 9 ft |
| Material Colour: | | | | Material: | TOPSOIL |
| + | | | | | |
| Thickness: | 86 ft | | | Original Depth: | 95 ft |
| Material Colour: | | | | Material: | LIMESTONE |

| | | | | | |
|-----------------------------|------------------|---------------|-----------------|----------------------------|--------------|
| WWIS | <u>29</u> | 2 of 2 | SE/229.4 | 70.0 | ON |
| Well ID: | 1509027 | | | Lot: | |
| Concession: | | | | Concession Name: | |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY |
| Easting Nad83: | 439120.7 | | | Northing Nad83: | 5024772 |
| Zone: | 18 | | | Utm Reliability: | unknown UTM |
| Primary Water Use: | Domestic | | | Construction Date: | 24-MAY-53 |
| Sec. Water Use: | | | | Well Depth: | 95 ft |
| Pump Rate: | | | | 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 |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|--------------------------|----------------|--------------------------|--------------------------------|----------------------------|------------------|
| Elevation (m): | 69.25 | | | Elevation | |
| Depth to Bedrock: | 10 | | | Reliability: | |
| Water Type: | FRESH | | | Overburden/Bedrock: | Bedrock |
| --- Details --- | | | | | |
| Thickness: | 10 ft | | | Original Depth: | 10 ft |
| Material Colour: | GREY | | | Material: | CLAY |
| + | | | | | |
| Thickness: | 50 ft | | | Original Depth: | 60 ft |
| Material Colour: | | | | Material: | LIMESTONE |
| + | | | | | |
| Thickness: | 10 ft | | | Original Depth: | 70 ft |
| Material Colour: | | | | Material: | LIMESTONE, SHALE |
| + | | | | | |
| Thickness: | 25 ft | | | Original Depth: | 95 ft |
| Material Colour: | WHITE | | | Material: | LIMESTONE |

| | | | | | |
|-----------------------------|------------------|---------------|----------------|----------------------------|--------------|
| WWIS | <u>30</u> | 1 of 1 | N/230.5 | 60.0 | ON |
| Well ID: | 1508936 | | | Lot: | |
| Concession: | | | | Concession Name: | |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY |
| Easting Nad83: | 438930.6 | | | Northing Nad83: | 5025142 |
| Zone: | 18 | | | Utm Reliability: | unknown UTM |
| Primary Water Use: | Domestic | | | Construction Date: | 28-MAY-54 |
| Sec. Water Use: | | | | Well Depth: | 77 ft |
| Pump Rate: | 10 GPM | | | Static Water Level: | 6 ft |
| Flow Rate: | | | | Clear/Cloudy: | CLEAR |
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | Cable Tool | | | Flowing (y/n): | N |
| Elevation (m): | 59.81 | | | Elevation | |
| Depth to Bedrock: | 8 | | | Reliability: | |
| Water Type: | FRESH | | | Overburden/Bedrock: | Bedrock |
| --- Details --- | | | | | |
| Thickness: | 8 ft | | | Original Depth: | 8 ft |
| Material Colour: | | | | Material: | CLAY |
| + | | | | | |
| Thickness: | 69 ft | | | Original Depth: | 77 ft |
| Material Colour: | | | | Material: | LIMESTONE |

| | | | | | |
|---------------------------|------------------|---------------|------------------|---------------------------|------------------------|
| WWIS | <u>31</u> | 1 of 1 | WSW/232.2 | 60.0 | lot 25 con 1 ON |
| Well ID: | 1503892 | | | Lot: | 025 |
| Concession: | 01 | | | Concession Name: | OF |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY (NEPEAN) |
| Easting Nad83: | 438715.6 | | | Northing Nad83: | 5024847 |
| Zone: | 18 | | | Utm Reliability: | unknown UTM |
| Primary Water Use: | Domestic | | | Construction Date: | 21-SEP-48 |
| Sec. Water Use: | | | | Well Depth: | 70 ft |

| DB | Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site |
|-----------------------------|----------------|--------------------------|--------------------------------|-------------------------------|-----------------|
| Pump Rate: | | | | Static Water Level: | 13 ft |
| Flow Rate: | | | | Clear/Cloudy: | |
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | Cable Tool | | | Flowing (y/n): | N |
| Elevation (m): | 59.8 | | | Elevation Reliability: | |
| Depth to Bedrock: | 13 | | | Overburden/Bedrock: | Bedrock |
| Water Type: | FRESH | | | Casing Material: | FRESH, MINERIAL |
| --- Details --- | | | | | |
| Thickness: | 13 ft | | | Original Depth: | 13 ft |
| Material Colour: | | | | Material: | CLAY |
| + Thickness: | 57 ft | | | Original Depth: | 70 ft |
| Material Colour: | | | | Material: | LIMESTONE |

| | | | | | |
|-----------------------------|-----------------|---------------|------------------|-------------------------------|--------------------------------|
| WWIS | 33 | 1 of 1 | SSE/247.4 | 68.4 | ON |
| Well ID: | 1507961 | | | Lot: | |
| Concession: | | | | Concession Name: | |
| County: | OTTAWA-CARLETON | | | Municipality: | OTTAWA CITY |
| Easting Nad83: | 439030.6 | | | Northing Nad83: | 5024682 |
| Zone: | 18 | | | Utm Reliability: | margin of error : 30 m - 100 m |
| Primary Water Use: | Domestic | | | Construction Date: | 07-DEC-50 |
| Sec. Water Use: | | | | Well Depth: | 65 ft |
| Pump Rate: | 5 GPM | | | Static Water Level: | 12 ft |
| Flow Rate: | | | | Clear/Cloudy: | CLEAR |
| Specific Capacity: | | | | Final Well Status: | Water Supply |
| Construction Method: | Cable Tool | | | Flowing (y/n): | N |
| Elevation (m): | 67.72 | | | Elevation Reliability: | |
| Depth to Bedrock: | 2 | | | Overburden/Bedrock: | Bedrock |
| Water Type: | FRESH | | | Casing Material: | FRESH, MINERIAL |
| --- Details --- | | | | | |
| Thickness: | 2 ft | | | Original Depth: | 2 ft |
| Material Colour: | | | | Material: | TOPSOIL, MEDIUM SAND |
| + Thickness: | 2 ft | | | Original Depth: | 4 ft |
| Material Colour: | | | | Material: | SHALE |
| + Thickness: | 61 ft | | | Original Depth: | 65 ft |
| Material Colour: | | | | Material: | LIMESTONE |

Unplottable Summary

Total: 25 Unplottable sites

| DB | Company Name/Site Name | Address | City | Postal |
|-----|--------------------------------|---|----------------|---------|
| CA | National Capital Commission | Ottawa River Parkway Detour Lane | Ottawa ON | |
| CA | NON-PROFIT HOUSING CORPORATION | RICHMOND RD.NON-PROFIT HOUSING | OTTAWA CITY ON | |
| CA | Bourke Family Development Inc. | Byron Ave Registered Plan No. 204 | Ottawa ON | |
| CA | OTTAWA CITY | BYRON AVENUE | OTTAWA CITY ON | |
| CA | CITY | BYRON AVE. | OTTAWA ON | |
| CA | | Lot 25 & 26, Concession 1 | Ottawa ON | |
| CA | | Lot 25 & 26, Concession 1 | Ottawa ON | |
| CA | NON PROFIT HOUSING CORPORATION | PRIVATE (ON SITE) RICHMOND ST. | OTTAWA CITY ON | |
| CA | City of Ottawa | Richmond Road | Ottawa ON | |
| CA | City of Ottawa | Richmond Road | Ottawa ON | |
| CA | City of Ottawa | Richmond Road | Ottawa ON | |
| CA | | Richmond Road | Ottawa ON | |
| CA | OTTAWA CITY | RICHMOND ROAD | OTTAWA CITY ON | |
| CA | OTTAWA CITY | RICHMOND ROAD | OTTAWA CITY ON | |
| GEN | KEN GORDON EXCAVATING LTD. | LOT 25, CONC. 1 | NEPEAN ON | K0A 2N0 |
| GEN | NATIONAL CAPITAL COMMISSION | LOT 25,26,27 | OTTAWA ON | K1P 1C7 |
| SPL | National Capital Commission | Ottawa River Pkwy at the Parkdale Off Ramp West Bound | Ottawa ON | |

| | | | |
|------|----------------------------|--|----------------|
| SPL | SHELL CANADA PRODUCTS LTD. | SILVER SPRINGS FARM RICHMOND ROAD AT BASELINE BULK PLANT (N.O.S.) | NEPEAN CITY ON |
| SPL | TEXACO | RICHMOND RD. SERVICE STATION | OTTAWA CITY ON |
| SPL | BUS | OTTAWA RIVER PKWY & LINCOLN FIELDS MOTOR VEHICLE (OPERATING FLUID) | OTTAWA CITY ON |
| WWIS | | lot 25 | ON |
| WWIS | | lot 25 | ON |
| WWIS | | lot 24 | ON |
| WWIS | | lot 25 | ON |
| WWIS | | | ON |

Unplottable Report

Database: CA **Site:** *National Capital Commission
Ottawa River Parkway Detour Lane Ottawa ON*

Certificate #: 0973-5M4KXY
Application Year: 2003
Issue Date: 4/30/2003
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:

Database: CA **Site:** *NON-PROFIT HOUSING CORPORATION
RICHMOND RD.NON-PROFIT HOUSING OTTAWA CITY ON*

Certificate #: 7-0925-87-
Application Year: 87
Issue Date: 7/7/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Database: CA **Site:** *Bourke Family Development Inc.
Byron Ave Registered Plan No. 204 Ottawa ON*

Certificate #: 3911-7BKMY9
Application Year: 2008
Issue Date: 2/7/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Database: CA **Site:** OTTAWA CITY
RICHMOND ROAD OTTAWA CITY ON

Certificate #: 3-1088-90-
Application Year: 90
Issue Date: 6/26/1990
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Database: CA **Site:** OTTAWA CITY
RICHMOND ROAD OTTAWA CITY ON

Certificate #: 3-0159-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Database: GEN **Site:** KEN GORDON EXCAVATING LTD.
LOT 25, CONC. 1 NEPEAN ON K0A 2N0

Generator #: ON0951200
Approval Yrs: 92,93,97,98
SIC Code: 4215
SIC Description: EQUIP. RENTAL W. OP.

--- Details ---

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Database: GEN **Site:** NATIONAL CAPITAL COMMISSION
LOT 25,26,27 OTTAWA ON K1P 1C7

Generator #: ON9920165
Approval Yrs: 2010

SIC Code: 712190
SIC Description: Other Heritage Institutions

--- Details ---

Waste Code: 221
Waste Description: LIGHT FUELS

Database: **SPL** **Site:** **National Capital Commission**
Ottawa River Pkwy at the Parkdale Off Ramp West Bound Ottawa ON

Ref NO: 3376-7TLV2S
Contaminant Code:
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Quantity: 4 L
Incident Cause: Other Transport Accident
Incident Dt:
Incident Reason: Spill
Incident Summary: MVA: 4 L Oil to Rd and CB
MOE Reported Dt: 7/3/2009
Environmental Impact: Not Anticipated
Nature of Impact: Surface Water Pollution
Receiving Medium:
SAC Action Class: Land Spills
Sector Source Type: Motor Vehicle
Site Municipality: Ottawa

Database: **SPL** **Site:** **SHELL CANADA PRODUCTS LTD.**
SILVER SPRINGS FARM RICHMOND ROAD AT BASELINE BULK PLANT
(N.O.S.) NEPEAN CITY ON

Ref NO: 1486
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: ABOVE-GROUND TANK LEAK
Incident Dt: 3/21/1988
Incident Reason: EQUIPMENT FAILURE
Incident Summary: SHELL OIL-45 L FUEL OIL TO GROUND--TANK LEAK AT SILVER SPRINGS
MOE Reported Dt: 3/21/1988
Environmental Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20104

Database: **SPL** **Site:** **TEXACO**
RICHMOND RD. SERVICE STATION OTTAWA CITY ON

Ref NO: 14431
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CAUSE (N.O.S.)
Incident Dt: 2/2/1989

Incident Reason: ERROR
Incident Summary:
MOE Reported Dt: 2/2/1989
Environmental Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Database: **SPL** **Site:** **BUS**
OTTAWA RIVER PKWY & LINCOLN FIELDS MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Ref NO: 58039
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER TRANSPORTATION ACCIDENT
Incident Dt: 10/1/1991
Incident Reason: ERROR
Incident Summary: OC TRANSP BUS - 20-30 L DIESEL FUEL TO GRND WHEN 2 BUSES COLLIDED.
MOE Reported Dt: 10/1/1991
Environmental Impact: POSSIBLE
Nature of Impact: Soil Contamination
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

Database: **WWIS** **Site:** **lot 25 ON**

| | | | |
|-----------------------------|-----------------|-------------------------------|-----------------|
| Well ID: | 1525383 | Lot: | 025 |
| Concession: | | Concession Name: | RF |
| County: | OTTAWA-CARLETON | Municipality: | NEPEAN TOWNSHIP |
| Easting Nad83: | | Northing Nad83: | |
| Zone: | 18 | Utm Reliability: | unknown UTM |
| Primary Water Use: | Domestic | Construction Date: | 11-MAR-91 |
| Sec. Water Use: | | Well Depth: | 175 ft |
| Pump Rate: | 6 GPM | Static Water Level: | 20 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: | 52 | Overburden/Bedrock: | Bedrock |
| Water Type: | Not stated | Casing Material: | FRESH, MINERIAL |

--- Details ---

| | | | |
|-------------------------|-------|------------------------|--------------|
| Thickness: | 8 ft | Original Depth: | 8 ft |
| Material Colour: | BROWN | Material: | SAND, DRY |
| + | | | |
| Thickness: | 35 ft | Original Depth: | 43 ft |
| Material Colour: | GREY | Material: | CLAY, STICKY |

| | | |
|----------|------------------------------|--------------------------------------|
| + | Thickness: 9 ft | Original Depth: 52 ft |
| | Material Colour: GREY | Material: SAND, WATER-BEARING |
| + | Thickness: 68 ft | Original Depth: 120 ft |
| | Material Colour: GREY | Material: LIMESTONE |
| + | Thickness: 55 ft | Original Depth: 175 ft |
| | Material Colour: GREY | Material: SANDSTONE |

Database: **WWIS** **Site:** **lot 25 ON**

| | |
|--|---|
| Well ID: 1528551 | Lot: 025 |
| Concession: | Concession Name: |
| County: OTTAWA-CARLETON | Municipality: NEPEAN TOWNSHIP |
| Easting Nad83: | Northing Nad83: |
| Zone: 18 | Utm Reliability: unknown UTM |
| Primary Water Use: Domestic | Construction Date: 20-JUN-95 |
| Sec. Water Use: | Well Depth: 83 ft |
| Pump Rate: 15 GPM | Static Water Level: 48 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: 71 | Overburden/Bedrock: Bedrock |
| Water Type: Not stated | Casing Material: FRESH, MINERIAL |
| --- Details --- | |
| Thickness: 71 ft | Original Depth: 71 ft |
| Material Colour: GREY | Material: CLAY, TOPSOIL |
| + | |
| Thickness: 12 ft | Original Depth: 83 ft |
| Material Colour: GREY | Material: LIMESTONE, FRACTURED |

Database: **WWIS** **Site:** **lot 24 ON**

| | |
|--|--|
| Well ID: 1534384 | Lot: 024 |
| Concession: | Concession Name: |
| County: OTTAWA-CARLETON | Municipality: NEPEAN TOWNSHIP |
| Easting Nad83: | Northing Nad83: |
| Zone: 18 | Utm Reliability: unknown UTM |
| Primary Water Use: Not Used | Construction Date: 22-NOV-03 |
| 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): | Elevation Reliability: |
| Depth to Bedrock: | Overburden/Bedrock: No formation data |
| Water Type: | Casing Material: |

Database: **WWIS**

Site: lot 25 ON

Well ID: 1523747
Concession:
County: OTTAWA-CARLETON
Easting Nad83:
Zone: 18
Primary Water Use: Industrial
Sec. Water Use:
Pump Rate: 14 GPM
Flow Rate:
Specific Capacity:
Construction Method: Air Percussion
Elevation (m):
Depth to Bedrock: 32

Water Type: FRESH

--- Details ---

Thickness: 32 ft
Material Colour: GREY
+
Thickness: 218 ft
Material Colour: GREY

Lot: 025
Concession Name:
Municipality: OTTAWA CITY
Northing Nad83:
Utm Reliability: unknown UTM
Construction Date: 12-JUN-89
Well Depth: 250 ft
Static Water Level: 19 ft
Clear/Cloudy: CLOUDY
Final Well Status: Water Supply
Flowing (y/n): N

Elevation Reliability:
Overburden/Bedrock: Bedrock
k:
Casing Material: FRESH, MINERIAL

Original Depth: 32 ft
Material: CLAY

Original Depth: 250 ft
Material: LIMESTONE, SHALY

Database: **WWIS**

Site: ON

Well ID: 7106417
Concession:
County: OTTAWA-CARLETON
Easting Nad83: 436864
Zone: 18
Primary Water Use:
Sec. Water Use:
Pump Rate:
Flow Rate:
Specific Capacity:
Construction Method:
Elevation (m): 68.7
Depth to Bedrock:

Water Type:

Lot:
Concession Name:
Municipality: OTTAWA CITY
Northing Nad83: 5021698
Utm Reliability: margin of error : 10 - 30 m
Construction Date: 15-APR-08
Well Depth:
Static Water Level:
Clear/Cloudy:
Final Well Status: Abandoned-Other
Flowing (y/n):

Elevation Reliability:
Overburden/Bedrock:
k:
Casing Material:

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

The MAAP Program maintains a database of 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 Mar 2015

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Oct 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 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-Jul 2014

Borehole:Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2014

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-Dec 2015

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-Jul 2014

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-Jan 2016

Drill Hole Database:Provincial [DRL](#)

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

Government Publication Date: 1886-Jun 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-Oct 2015

Environmental Registry:Provincial [EBR](#)

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

Government Publication Date: 1994-Jan 2016

Environmental Compliance Approval:Provincial [ECA](#)

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

Government Publication Date: Oct 31, 2011-Jun 2015

Environmental Effects Monitoring:Federal [EEM](#)

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

*Government Publication Date: 1992-2007**

ERIS Historical Searches:Private [EHS](#)

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

Government Publication Date: 1999-Aug 2014

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**

Emergency Management Historical Event:

Provincial EMHE

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance.

Government Publication Date: May 31, 2014

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 Nov 2015

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**

Waste Generators Summary:

Federal FCS

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

Government Publication Date: June 2000-Oct 2015

Fisheries & Oceans Fuel Tanks:

Federal FOFT

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

Government Publication Date: 1964-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-Nov 2015

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-May 2015

Greenhouse Gas Emissions from Large Facilities:

Federal [GHG](#)

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

Government Publication Date: Dec 31, 2013

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 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 - Nov 2015

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 plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-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: 1994-2013

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

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

*Government Publication Date: Up to May 2001**

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

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

Government Publication Date: Mar 1999-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 Energy Board Wells:

Federal [NEBW](#)

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

*Government Publication Date: 1920-Feb 2003**

National Environmental Emergencies System (NEES):

Federal [NEES](#)

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

*Government Publication Date: 1974-2003**

National PCB Inventory:

Federal [NPCB](#)

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

*Government Publication Date: 1988-2008**

National Pollutant Release Inventory:

Federal [NPRI](#)

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

Government Publication Date: 1993-2013

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.

Government Publication Date: 1988-2015

Ontario Oil and Gas Wells:

Provincial [OOGW](#)

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

Government Publication Date: 1800-Aug 2015

Inventory of PCB Storage Sites:

Provincial [OPCB](#)

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

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

Orders:

Provincial [ORD](#)

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

Government Publication Date: 1994-Jan 2016

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 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 2009-2014

Private and Retail Fuel Storage Tanks:

Provincial [PRT](#)

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

*Government Publication Date: 1989-1996**

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994-Jan 2016

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: 1986-2013

Record of Site Condition:

Provincial RSC

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

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Jan 2016

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-Jul 2014

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-Jun 2015

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: 1990-2013

Anderson's Storage Tanks:

Private TANK

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

*Government Publication Date: 1915-1953**

Transport Canada Fuel Storage Tanks:

Federal TCFT

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

Government Publication Date: 1970-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.

Government Publication Date: Current to Nov 2015

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-Jun 2015

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.



| |
|--|
| City Directory Information Source |
| Vernon's Ottawa & Area City Directory |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 2011 | |
| | |
| Site Listing: | -Res (2 Tenants) -Gill AS |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Multi Tenant Residential -Extendicare New Orchard Lodge |
| | |
| 108 New Orchard Avenue | -Multi Tenant Residential |
| | |
| 118 New Orchard Avenue | -Res (3 Tenants) |
| | |
| 1047 Richmond Road | -Metro Chrysler Dodge Jeep |

| | |
|-----------------------------|---|
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential -Parkway Tuck Shop |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 2005/2006 | |
| | |
| Site Listing: | -Res (1 Tenant) -Gill AS |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Multi Tenant Residential -Extencicare New Orchard Lodge |
| | |
| 108 New Orchard Avenue | -Multi Tenant Residential |
| | |
| 118 New Orchard Avenue | -Res (4 Tenants) |
| | |
| 1047 Richmond Road | -Metro Chrysler Dodge Jeep -Metro Leasing |
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential -Parkway Tuck Shop |

| | |
|--|-----------|
| | -Hair Duo |
|--|-----------|

| | |
|------------------------------------|--|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 2000/2001 | |
| | |
| Site Listing: | -Res (2 Tenants) |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Multi Tenant Residential -Extendicare New Orchard Lodge |
| | |
| 108 New Orchard Avenue | -Multi Tenant Residential |
| | |
| 118 New Orchard Avenue | -Multi Tenant Residential |
| | |
| 1047 Richmond Road | -Address Not Listed |
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential -Parkway Tuck Shop -Hair Duo |

| | |
|------------------------------------|--|
| PROJECT NUMBER: 20160526100 | |
|------------------------------------|--|

| | |
|-------------------------------|--|
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1995/1996 | |
| | |
| Site Listing: | -Res (1 Tenant) |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Multi Tenant Residential -Extendicare New Orchard Lodge |
| | |
| 108 New Orchard Avenue | -Multi Tenant Residential |
| | |
| 118 New Orchard Avenue | -Multi Tenant Residential |
| | |
| 1047 Richmond Road | -Metro Plymouth Chrysler -Metro Rental & Leasing |
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential -Towers Tuck Shop -Hair Duo -McLean Insurance Brokers |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |

| | |
|-------------------------------|--|
| Year: 1990 | |
| | |
| Site Listing: | -Res (1 Tenant) |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Multi Tenant Residential -New Orchard Lodge Nursing Home |
| | |
| 108 New Orchard Avenue | -Multi Tenant Residential |
| | |
| 118 New Orchard Avenue | -Address Not Listed |
| | |
| 1047 Richmond Road | -Metro Plymouth Chrysler |
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential -Parkway Towers Tuck Shop -Joan's Beauty Salon -Cameron Insurance Brokers |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1984 | |
| | |
| Site Listing: | -Res (1 Tenant) |

| | |
|-------------------------------|--|
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -New Orchard Lodge Nursing Home |
| | |
| 108 New Orchard Avenue | -Address Not Listed |
| | |
| 118 New Orchard Avenue | -Address Not Listed |
| | |
| 1047 Richmond Road | -Metro Plymouth Chrysler |
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential -Parkway Towers Tuck Shop |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1979 | |
| | |
| Site Listing: | -Res (1 Tenant) |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -New Orchard Lodge Nursing Home |
| | |
| 108 New Orchard Avenue | -Address Not Listed |

| | |
|-------------------------------|---|
| | |
| 118 New Orchard Avenue | -Res (2 Tenants) |
| | |
| 1047 Richmond Road | -Parkway Plymouth Chrysler |
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential -Parkway Towers Tuck Shop -Salon Margaret |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1974 | |
| | |
| Site Listing: | -Res (1 Tenant) |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -New Orchard Lodge Nursing Home |
| | |
| 108 New Orchard Avenue | -Address Not Listed |
| | |
| 118 New Orchard Avenue | -Res (2 Tenants) |
| | |
| 1047 Richmond Road | -Parkway Plymouth Chrysler |
| | |

| | |
|-----------------------------|--|
| 1071 Ambleside Drive | -Multi Tenant Residential -Parkway Towers Tuck Shop -Parkway Towers Beauty Salon |
|-----------------------------|--|

| | |
|------------------------------------|--|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1969 | |
| | |
| Site Listing: | -Res (1 Tenant) |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -New Orchard Lodge Nursing Home |
| | |
| 108 New Orchard Avenue | -Address Not Listed |
| | |
| 118 New Orchard Avenue | -Res (2 Tenants) |
| | |
| 1047 Richmond Road | -Parkway Plymouth Chrysler |
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential -Parkway Towers Tuck Shop -Parkway Towers Beauty Salon |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1965 | |
| | |
| Site Listing: | -Res (1 Tenant) |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Address Not Listed |
| | |
| 108 New Orchard Avenue | -Address Not Listed |
| | |
| 118 New Orchard Avenue | -Address Not Listed |
| | |
| 1047 Richmond Road | -Parkway Plymouth Chrysler |
| | |
| 1071 Ambleside Drive | -Multi Tenant Residential |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1959 | |
| | |
| Site Listing: | -Res (1 Tenant) |
| | |

| | |
|-------------------------------|---------------------|
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Address Not Listed |
| | |
| 108 New Orchard Avenue | -Address Not Listed |
| | |
| 118 New Orchard Avenue | -Address Not Listed |
| | |
| 1047 Richmond Road | -Address Not Listed |
| | |
| 1071 Ambleside Drive | -Address Not Listed |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1954 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Address Not Listed |
| | |
| 108 New Orchard Avenue | -Address Not Listed |
| | |
| 118 New Orchard Avenue | -Address Not Listed |

| | |
|-----------------------------|---------------------|
| | |
| 1047 Richmond Road | -Address Not Listed |
| | |
| 1071 Ambleside Drive | -Address Not Listed |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20160526100 | |
| Site Address: | 100 New Orchard Avenue, Ottawa, Ontario |
| | |
| Year: 1949 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 99 New Orchard Avenue | -Address Not Listed |
| | |
| 108 New Orchard Avenue | -Address Not Listed |
| | |
| 118 New Orchard Avenue | -Address Not Listed |
| | |
| 1047 Richmond Road | -Address Not Listed |
| | |
| 1071 Ambleside Drive | -Address Not Listed |

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

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



APPENDIX C

Site Photographs



APPENDIX C - Site Photographs
Phase One ESA, 100 New Orchard Avenue, Ottawa ON



Photo 1: Looking southwest at the residential house located on the Site.



Photo 2: Photo of the pipe and filled in hole of a former pipe located in the basement foundation on the on-Site residential building. They are likely former fill and vent pipes for a former heating oil AST.



APPENDIX C - Site Photographs
Phase One ESA, 100 New Orchard Avenue, Ottawa ON



Photo 3: Looking west at the southeast corner of the on-Site residential building and the driveway located on the southeast corner of the Site.



Photo 4: Looking east at the nursing home located on the adjacent property east of the Site (99 New Orchard Avenue).



APPENDIX C - Site Photographs
Phase One ESA, 100 New Orchard Avenue, Ottawa ON



Photo 5: Diesel generator with an associated AST located on the north side of the nursing home at 99 New Orchard Avenue.



Photo 6: Looking north at the vacant land, gravel pathways, the Sir John A. Macdonald Parkway and the Ottawa River located on the adjacent lands north of the Site.



APPENDIX C - Site Photographs
Phase One ESA, 100 New Orchard Avenue, Ottawa ON



Photo 7: View of the residential apartment building located on the adjacent property immediately south of the Site (108 New Orchard Avenue).

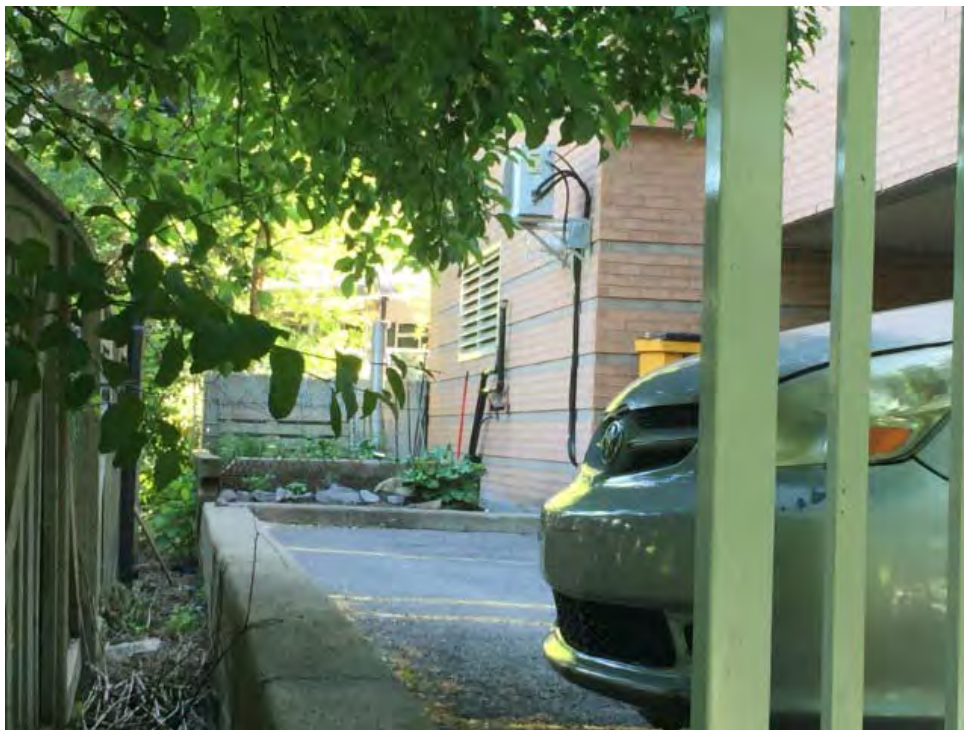


Photo 8: Fill and vent pipes for a fuel AST associated with a generator that were observed in the northern exterior wall of the residential building located immediately south of the Site (108 New Orchard Avenue).



APPENDIX C - Site Photographs
Phase One ESA, 100 New Orchard Avenue, Ottawa ON



Photo 9: Looking north at New Orchard Avenue located east of the Site.



Photo 10: Photo of the west side of the Site taken from the parking lot on the adjacent property immediately west of the Site.



APPENDIX C - Site Photographs
Phase One ESA, 100 New Orchard Avenue, Ottawa ON



Photo 11: Looking southwest at the high-rise residential apartment buildings located on the surrounding properties southwest of the Site.

\\golder.gds\gal\Ottawa\Active\2016\3 Proj\1658362_9102787 Canada Inc Ph I ESA Ottawa\Phase I ESA New Orchard\Draft Report\Appendix C - Site Photographs\App C Site Photos.docx





APPENDIX D

Aerial Photographs



LEGEND

-  PHASE ONE SITE
-  PHASE ONE STUDY AREA



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

REFERENCE(S)
 1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT
 NEW ORCHARD INVESTMENT INC.

PROJECT
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO

TITLE
 1945 AIR PHOTO

CONSULTANT



YYYY-MM-DD 2016-09-27

DESIGNED ----

PREPARED JEM

REVIEWED AT

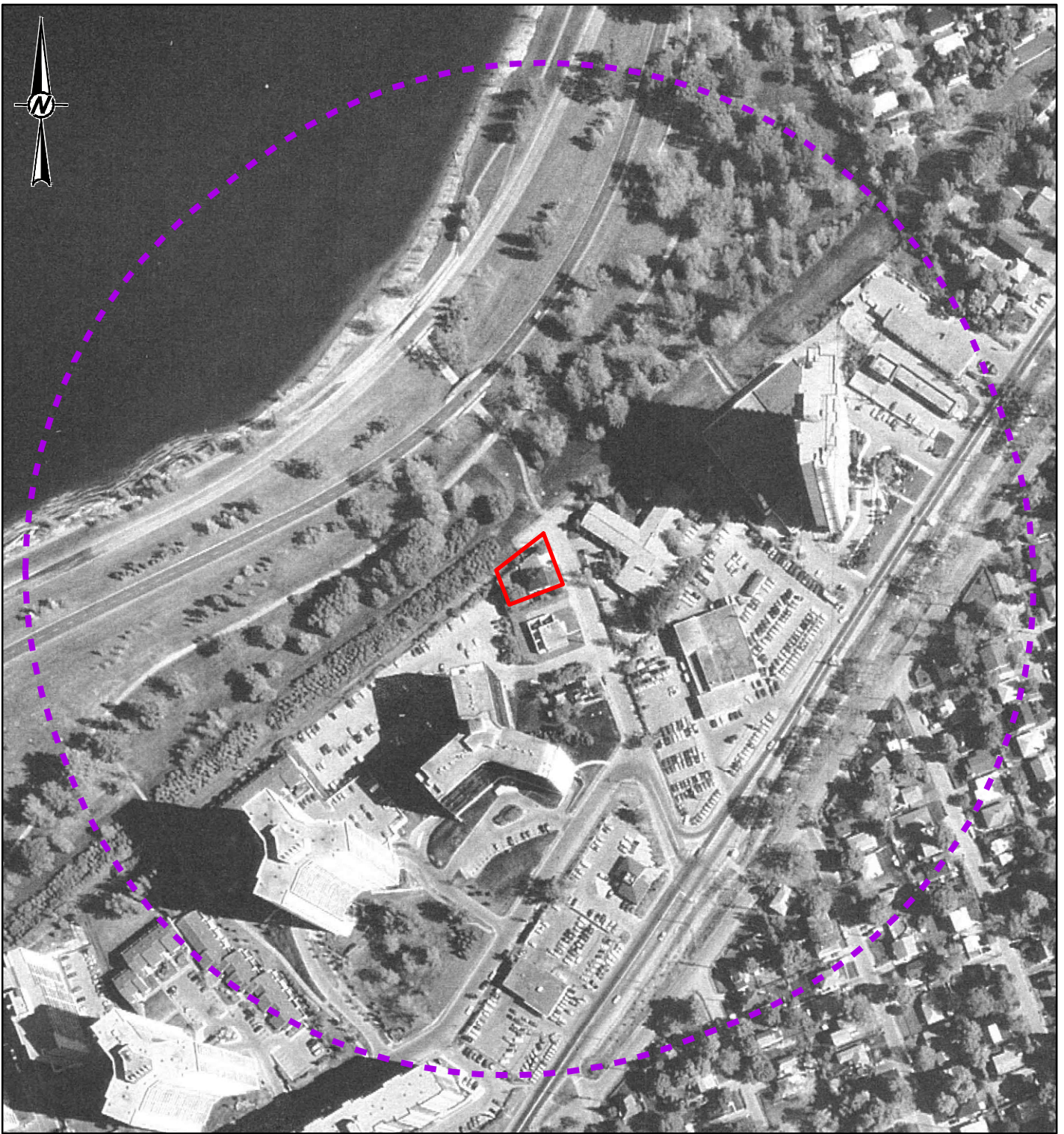
APPROVED KPH

PROJECT NO.
 1658362



PHASE
 2000

REV.
 0

FIGURE
D1



LEGEND

-  PHASE ONE SITE
-  PHASE ONE STUDY AREA



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658362.

REFERENCE(S)
 1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT
 NEW ORCHARD INVESTMENT INC.

PROJECT
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 100 NEW ORCHARD AVENUE, OTTAWA, ONTARIO

TITLE
 1982 AIR PHOTO

| CONSULTANT | | YYYY-MM-DD | 2016-09-27 |
|------------|--|------------|------------|
| DESIGNED | | ---- | |
| PREPARED | | JEM | |
| REVIEWED | | AT | |
| APPROVED | | KPH | |



| PROJECT NO. | PHASE | REV. | FIGURE |
|-------------|-------|------|--------|
| 1658362 | 2000 | 0 | D2 |

As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

For more information, visit golder.com

| | |
|---------------|-------------------|
| Africa | + 27 11 254 4800 |
| Asia | + 86 21 6258 5522 |
| Australasia | + 61 3 8862 3500 |
| Europe | + 44 1628 851851 |
| North America | + 1 800 275 3281 |
| South America | + 56 2 2616 2000 |

solutions@golder.com
www.golder.com

Golder Associates Ltd.
1931 Robertson Road
Ottawa, Ontario, K2H 5B7
Canada
T: +1 (613) 592 9600

