



April 2015

REPORT ON

Phase I Environmental Site Assessment Riverside South Phase 15 Part of 4650 Spratt Road & 750 River Road Ottawa, Ontario

Submitted to:

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REPORT

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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.

At the time of the Site reconnaissance, conducted on September 30, 2014, the Site consisted of an approximately 102 hectare (252 acres) collection of three (3) distinct parcels of land. The Site is undeveloped and consists of agricultural and/or vacant fields and vegetated land (grass, shrubs, trees). Some areas of dense tree cover were noted during the Site reconnaissance. No buildings or structures were observed on the Site. The current owner does not currently conduct any activities on the Site. To the north of the Site residential development is ongoing and to the west of the Site is the Rideau River.

Based on the information obtained and reviewed as part of this Phase I ESA, the Site was primarily agricultural and/or undeveloped, vacant land from prior to 1955, with a few residential dwellings existing on some portions of the Site from prior to 1955 to at least 1987. At the time of writing this report, all residential dwellings on the Site have been removed and the Site remains undeveloped, forested and vegetated (with a small portion used for agriculture). On surrounding properties within 250 metres of the Site boundaries, land was primarily agricultural and/or undeveloped and vacant from prior to 1955 to present with a few residential dwellings, some of which have been removed. From aerial photography, the first noted major development surrounding the Site was land clearing to the north (observed in the 2011 aerial photo).

This Phase I ESA was completed in accordance with Ontario Regulation ("O. Reg.") 153/04 and included a review of available current and historical information on the Site and surrounding properties, a Site walkover, interviews, evaluation of readily available information, and reporting, subject to the limitations outlined in Section 9.0 of this report. The Site is not considered an enhanced investigation property as defined by O.Reg. 153/04.

Based on the information obtained and reviewed as part of this Phase I ESA, there were no areas of potential environmental concern (APEC) identified in association with the Site.

A Phase II ESA is not recommended for the Site.

Based on the response from the Ministry of Natural Resources and Forestry (MNRF), there is a potential for Species at Risk and Species of Special Concern to be present on the Site or in proximity to it. Therefore, Golder recommends that:

A single Site visit be carried out by a field biologist to determine if any of the species at risk are present on the Site (provided it is undertaken in the appropriate season). If any are seen on Site, the MNRF would need to be engaged to determine appropriate next steps before proceeding with construction.

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



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1.0 INTRODUCTION

1.1 Phase I Property Information

Golder Associates Ltd. ("Golder") was retained by Riverside South Development Corporation (RSDC) to conduct a Phase I Environmental Site Assessment ("Phase I ESA") of the following properties/parcels:

Parcel 1:

Municipal Address	Part of 4650 Spratt Road, Ottawa, Ontario
Property Identification Number	04330-0710 and 04330-0707
Legal Description	Part of Lots 22 and 23, Broken Front Concession (Rideau Front), Gloucester, Ontario

Parcel 2:

Municipal Address	Part of 4650 Spratt Road, Ottawa, Ontario
Property Identification Number	04330-0067
Legal Description	Part of Lot 24, Broken Front Concession (Rideau Front), Gloucester, Ontario

Parcel 3:

Municipal Address	750 River Road, Ottawa, Ontario
Property Identification Number	04589-0416
Legal Description	Part of Lot 22, Broken Front Concession (Rideau Front), Gloucester, Ontario

The Site location is shown on Figure 1 (Key Plan). A plan of the Site is provided as Figure 2 (Site Plan). A survey and preliminary concept plan for the Site is provided in Appendix A. Project North is defined as Spratt Road (directly east of the Site) having a north-south axis. The Site currently consists of active agricultural land, as well as vacant and treed lands, parts of which were formerly used for agricultural purposes. The Site is bordered by existing residential properties or vacant/agricultural land (to the north and south), Spratt Road (to the east) and the Rideau River and vacant/agricultural land (to the west). RSDC is proposing a series of zoning designations and a development concept that allows for a mix of low to medium-density residential uses as well as commercial, institutional and open space uses.

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

Site Owner	Address	Contact Information
Riverside South Development Corporation	2193 Arch Street, Ottawa, Ontario K1G 2H5	Ms. Mary Jarvis E-mail: mjarvis@urbandale.com



2.0 SCOPE OF INVESTIGATION

A Phase I 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 municipal boundaries of the Site (collectively referred to as the “Phase I Study Area”). The boundaries of the Phase I Study Area are presented in Figure 2.

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

- Develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Site;
- Determine the need for a Phase II Environment Site Assessment (ESA);
- Provide a basis for carrying out a Phase II ESA, if required;
- 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 II ESA; and,
- 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 I Study Area Determination

For the purpose of this Phase I ESA, the Phase I Study Area is the area within a 250 metre radius of the exterior boundaries of the Site. Based on Golder's review of the historical and current information compiled as part of this Phase I 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 metres of the Site was sufficient to achieve the objectives of the Phase I ESA.

3.1.2 First Developed Use Determination

The date of first developed use of the Phase I Property was determined based on review of the available aerial photographs from the National Air Photo Library and from the City of Ottawa, through its interactive web mapping application: geoOttawa. The Phase I Property was developed with agricultural fields from prior to 1955, as well as a residential dwelling on Parcel 2 from at least 1955 to 1975 and a residential dwelling on Parcel 3 from at least 1955 to 1987. Parcels 1 and 2 have been vacant land from approximately 2002 and 2005, respectively, to present. The surrounding properties were developed with agricultural fields with residential dwellings from at least 1955 to 2011. North of the Site (south of Earl Armstrong Road) some development activity was apparent in approximately 1975 (with a horse racetrack) and in 2011 (with some land clearing).

3.1.3 Fire Insurance Plans

Research was carried out at the National Archives in Ottawa, Ontario to review fire insurance plans or drawings for the Site. No fire insurance plans were available for the Phase I Property or Study Area.

3.1.4 Chain of Title

The current owner (RSDC), Urbandale Corporation (a subsidiary of RSDC) or Urbandale Realty Corporation (also affiliated) have reportedly owned the Phase I Property from prior to 1975 (part of Parcel 1, Parcel 3) and since 2002 (remainder of Parcel 1, Parcel 2). From Golder's review of aerial photography and other information, the Phase I Property has only ever been developed with residential and/or agricultural properties. 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 I ESA.

3.1.5 City Directories

The current owner (RSDC), Urbandale Corporation (a subsidiary of RSDC) or Urbandale Realty Corporation (also affiliated) have reportedly owned the Phase I Property from prior to 1975 (part of Parcel 1, Parcel 3) and since 2002 (remainder of Parcel 1, Parcel 2). From review of aerial photography and other information, the Phase I Property and Study Area has always been a rural area containing vacant or agricultural land with a few agricultural and/or residential properties. City directory information was not ordered as it was deemed that the information from the other records review would satisfy the objectives of the records search and that the information to be provided in city directories would not contribute additional environmental information relevant to the Phase I ESA.



3.1.6 Environmental Reports

No environmental reports related to the Study Area were available for review. A Phase I ESA and Stage 1 Archaeological Assessment are being completed by Golder for a separate but nearby property, 708 River Road – north and north-west of the Site. As these reports are ongoing, findings have not been incorporated herein.

The following geotechnical reports, related to the Study Area, were completed by Golder for Riverside South Development Corporation:

Preliminary Geotechnical Investigation, Proposed Residential Development, Riverside South Community Development Phases 6-9, Ottawa, Ontario, dated September 2009, by Golder Associates Ltd.

Based on this report, the following is of note for the Study Area (east of the Phase I Property):

- Soils at the Site are generally sensitive to disturbance from ponded water, construction traffic and frost;
- During excavation some groundwater inflow should be expected, but suitable pumps should handle the flow; and,
- Clayey soils are highly sensitive to water depletion by trees of high water demand during periods of dry weather and should not be planted closer to structures than the ultimate height of the tree.

Geotechnical Investigation, Proposed Residential Development, Summerhill Village (Phase 9), Riverside South Community, Ottawa, Ontario, dated January 2011, by Golder Associates Ltd.

Based on this report, the following is of note for the Study Area (east of the Phase I Property):

- Soils at the Site are generally sensitive to disturbance from ponded water, construction traffic and frost;
- During excavation some groundwater inflow should be expected, but suitable pumps should handle the flow;
- High moisture content of deeper clayey deposits (i.e., silty clay and clayey silt) may make these soils difficult to handle and compact; and,
- Clayey soils are highly sensitive to water depletion by trees of high water demand during periods of dry weather and should not be planted closer to structures than the ultimate height of the tree.

3.2 Environmental Source Information

A standard ERIS report for the Site and surrounding area (250 metres) was ordered through ERIS. A copy of the report is attached in Appendix B.

Regulatory information requests and reviews for the Site and/or surrounding area (250 metres) included the following sources: the Ontario Ministry of the Environment and Climate Change, the City of Ottawa, the Ontario Ministry of Natural Resources and Forestry and the Technical Standards and Safety Authority. Copies of the requests and responses are attached in Appendix C.

3.2.1 Environmental Risk Information Services Report

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



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The databases searched included the following:

Federal	Provincial	Private
<ul style="list-style-type: none">Contaminated Sites on Federal LandEnvironmental Effects MonitoringEnvironmental Issues Information SystemFederal ConvictionsFisheries & Oceans Fuel Storage TanksIndian & Northern Affairs Fuel TanksNational Analysis of Trends in Emergencies System (NATES)National Defence & Canadian Forces Fuel Storage TanksNational Defence & Canadian Forces SpillsNational Defence & Canadian Forces Waste Disposal SitesNational Environmental Emergencies System (NEES)National PCB InventoryNational Pollutant Release InventoryParks Canada Fuel Storage TanksTransport Canada Fuel Storage Tanks	<ul style="list-style-type: none">Abandoned Aggregate InventoryAbandoned InventoryAggregate Mine Information SystemBoreholeCertificates of ApprovalCertificates of Property UseCommercial Fuel Oil TanksCompliance and ConvictionsDrill Hole DatabaseEnvironmental Activity and Sector RegistryEnvironmental Compliance ApprovalEnvironmental RegistryFuel Storage TankFuel Storage Tank – HistoricInventory of Coal Gasification Plants and Tar SitesInventory of PCB Storage SitesLandfill Inventory Management OntarioList of TSSA Expired FacilitiesMineral OccurrencesNon-Compliance ReportsOntario Oil and Gas WellsOntario Regulation 347 Waste Generators SummaryOntario Regulation 347 Waste Receivers SummaryOntario SpillsOrdersPermit to Take WaterPesticide RegisterPrivate and Retail Fuel Storage TanksRecord of Site ConditionTSSA Historic IncidentsTSSA IncidentsTSSA Pipeline IncidentsTSSA Variances for Abandonment of Underground Storage TanksWaste Disposal Sites - MOECC 1991 Historical Approval InventoryWaste Disposal Sites - MOECC CA InventoryWastewater Discharger Registration DatabaseWater Well Information System	<ul style="list-style-type: none">Anderson's Storage TanksAnderson's Waste Disposal SitesAutomobile Wrecking & SuppliesCanadian Mine LocationsCanadian Pulp and PaperChemical RegisterERIS Historical SearchesOil and Gas WellsRetail Fuel Storage TanksScott's Manufacturing Directory

Noteworthy records for the Phase I Property included the following:

- Borehole (BORE) – There are six (6) borehole listings on the Site. There is insufficient information recorded for one (1) of these boreholes. The others were completed between July 1957 and March 1959 to depths ranging from 15.5 metres to 91.4 metres; and,



- Water Well Information System (WWIS) – There are 10 water well listings on the Site. One (1) well was constructed in May 2012 but was abandoned. The remaining nine (9) wells were constructed between July 1957 and July 1970 for domestic water use with depths ranging from 12.8 metres to 36.6 metres. Their static water levels range from 1.2 metres to 7.6 metres.

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

- Ontario Spills (SPL) – There was one (1) record of a spill occurring at a private residence at 18 Lodge Road in February 1994. 600 to 700 L of furnace oil were discharged to the ground due to corrosion of an underground storage tank (UST);
- ERIS Historical Searches (EHS) – There is one (1) historical search listing within the Study Area, located west of the Site. The historical search contained an environmental risk report that was completed on September 19, 2006;
- Borehole (BORE) – There are seven (7) borehole listings within the Study Area. There is insufficient information recorded for two (2) of these boreholes. The others were completed between August 1947 and May 1971 to depths ranging from 24.4 metres to 75.6 metres; and,
- Water Well Information System (WWIS) – There are 24 water well listings within the Study Area. Two (2) of these wells were constructed in August 1961 or November 2002 and were abandoned or never used. The other 22 wells were constructed between August 1947 and March 2011 with depths ranging between 12.8 metres to 152.4 metres. They were all constructed for domestic use except two (2), which were listed as livestock and public water supply. Their static water levels range from 0.6 metres to 17.1 metres.

Based on review of the ERIS report, no issues of potential environmental concern were identified in association with the Phase I Property.

3.2.2 Ministry of the Environment and Climate Change

The Ontario Ministry of the Environment and Climate Change (MOECC) was contacted on August 29, 2014, to determine if the MOECC has maintained a file with respect to the Site. Specifically, the MOECC was asked to provide in writing an Index Review Report with respect to the following:

- Active Orders under the Environmental Protection Act (EPA), the Ontario Water Resource 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.

A response was received from Johanne Veilleux of the MOECC on September 4, 2014 and indicated that no Active Orders are outstanding and no Approvals have been issued for the Site.

3.2.3 The City of Ottawa

Golder forwarded a request to the City of Ottawa (refer to copy of correspondence in Appendix C) for the following information for the Site:

- 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 property; and,
- Any other environmental information.

On March 3, 2015, David Wise of the City of Ottawa responded with a letter (via e-mail from Simon Lacoste). No activities were listed for either the Phase One Property or properties within 50 metres of the Site.

3.2.4 Ministry of Natural Resources and Forestry

A request to the Ministry of Natural Resources and Forestry (MNRF) was sent on August 29, 2014. Records requested included any information relating to areas of natural significance in the vicinity of the Site, as well as any other environmental concerns that may be related to the Site and surrounding area. On September 29, 2014, Lyn Garrah, District Planner of the MNRF reported in a letter sent by e-mail that the following Natural Heritage Features (e.g., Provincially Significant Wetlands, Areas of Natural and Scientific Interest, etc.) were identified on or in close proximity to the Site:

- Unevaluated Wetland (Not evaluated per Ontario Wetland Evaluation System); and,
- Significant Woodland.

Municipal Official Plans contain additional information related to natural heritage features. The local municipal Official Plan may need to be reviewed for more information such as policies and direction pertaining to activities which may impact natural heritage features.

The MNRF indicated that there is potential for the following Threatened (THR) and/or Endangered (END) species to be present on the Site or in proximity to it:

- Barn Swallow (THR);
- Blanding's Turtle (THR);
- Bobolink (THR);
- Little Brown Bat (END); and,
- Northern Long-eared Bat (END).

These species, as well as their habitats, are protected by the Endangered Species Act and it is recommended that field surveys be conducted if the proposed development work involves removal or disturbance of natural areas (including overgrown grass areas) or disturbance to structures where nests may be present. If the proposed development is expected to have an impact on these species, a permit under the Endangered Species Act may be required. The MNRF recommends that the MNRF Kemptville office be contacted prior to any activities being carried out.



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The MNRF also indicated that there is potential for a Special Concern (SC) species, the Snapping Turtle, on the Site or in proximity to it. Species listed as Special Concern are not protected under the Endangered Species Act; however, some may be protected under the Fish and Wildlife Conservation Act.

It is likely that a single Site visit by a field biologist would be sufficient to determine if any of these species are present (provided it was undertaken in the appropriate season). If any are seen on-Site, then the MNRF may need to be engaged. Additional studies and assessments suggested by the MNRF, such as Ecological Site Assessments, are beyond the scope of this Phase I ESA and were not conducted by Golder.

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 or accident reports, fuel spills or contamination records.

On August 29, 2014, Sarah Quibell of the TSSA reported via e-mail that there were no records on file pertaining to the Site or Study Area.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Aerial photographs of the Site and vicinity were obtained from the National Air Photo Library (Natural Resources Canada) and were dated 1955, 1965, 1975, 1987 and 1998. The City of Ottawa's geoOttawa portal (web) was also consulted and had aerial photographs dated 1976, 1991, 1999, 2002, 2005, 2007, 2008 and 2011. Information obtained from the review of the aerial photography is summarized in the table below. Copies of the most relevant aerial photographs are presented in Appendix D.

Golder selected aerial photographs based on availability and date intervals, to help develop an understanding of the history of the development of the Phase I Property and Phase I Study Area. The information obtained from the aerial photography is limited by the quality and scale of the available aerial photographs. The earliest aerial photograph available was from 1955.

Year	Description	Surrounding Area
1955 (A14755-110) Scale 1:35,000	The Site is comprised of agricultural fields with few trees. Parcel 1 contains a woodlot, while Parcels 2 and 3 each contain one (1) residential dwelling, fronting on Spratt Road and River Road, respectively.	North: Agricultural fields with some trees and a residential property (north of Parcel 3). East: Spratt Road, followed by agricultural fields with some trees and residential dwellings. South: Agricultural fields with some trees and residential properties (south of Parcels 2 and 3). West: Agricultural fields (west of Parcel 2) and the Rideau River (west of Parcel 3).
1965 (A18805-13) Scale 1:25,000	As per 1955.	As per 1955.



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Year	Description	Surrounding Area
1975 (A23968-72) Scale 1:25,000	The Site is comprised of agricultural fields with few trees. Parcel 1 contains a woodlot and Parcel 3 contains a residential dwelling fronting on River Road. Parcel 2 no longer contains a residential dwelling.	North: Agricultural fields with some trees, a horse racetrack (north of Parcel 1) and a residential property (north of Parcel 3). East: As per 1955. South: As per 1955. West: As per 1955.
1976 (geoOttawa Image)	As per 1975.	As per 1975.
1987 (A31478-161) Scale 1:25,000	The Site is comprised of agricultural fields with some trees. Parcel 1 contains a woodlot. Parcel 3 no longer appears to contain a residential dwelling.	As per 1975.
1991 (geoOttawa Image)	As per 1987.	As per 1975.
1998 (A28361-187) Scale 1:25,000	As per 1987.	As per 1975.
1999 (geoOttawa Image)	The Site is comprised of agricultural and/or vacant fields with few trees, and a woodlot in Parcel 1.	As per 1975.
2002 (geoOttawa Image)	The Site is comprised of agricultural and/or vacant fields with more trees than observed in 1999 (primarily in Parcel 1).	As per 1975.
2005 (geoOttawa Image)	The Site is comprised of agricultural and/or vacant fields with slightly more trees than observed in 2002 (in Parcels 1 and 2).	As per 1975.
2007 (geoOttawa Image)	As per 2005.	As per 1975.
2008 (geoOttawa Image)	As per 2005.	As per 1975.
2011 (geoOttawa Image)	Parcel 1 is primarily vacant land with moderate tree cover, and a woodlot. Parcel 2 is vacant fields with some trees. Parcel 3 is agricultural fields bordered with trees.	North: Agricultural and/or fields followed by development activity occurring south of Earl Armstrong Road. East: Spratt Road, followed by agricultural and/or fields with some trees and residential dwellings. South: Agricultural and/or vacant fields with some trees and residential properties (south of Parcels 2 and 3). West: Agricultural and/or vacant fields (west of Parcel 2) and the Rideau River (west of Parcel 3).



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Based on the aerial photograph review, the Phase I Property has consisted of primarily agricultural fields from prior to 1955, with Parcels 1 and 2 transitioning to vacant land or pasture with tree growth from approximately 2002 and 2005 onwards, respectively. Also observed are: a woodlot on Parcel 1 from prior to 1955 to at least 2011, a residential dwelling on Parcel 2 from prior to 1955 to sometime between 1965 and 1975, and a residential dwelling on Parcel 3 from prior to 1955 to sometime between 1976 and 1987. Little to no changes were observed on the Phase I Property from 1987 to 2011, with the exception of some tree growth. The surrounding properties have consisted of agricultural and/or vacant fields, and a few residential dwellings, from prior to 1955 to at least 2011. Some development activity was observed north of the Site, south of Earl Armstrong Road, beginning prior to 1975 with a horse racetrack and prior to 2011 with some land clearing.

3.3.2 Topography, Hydrology and Geology

The following records were reviewed to identify topographic, geologic and hydrogeological conditions at the Site. The following maps/reports were reviewed to determine the general geological and topographical conditions in the area of the Site:

- *Natural Resources Canada – Topographical Map 31G5, Ottawa, 11th Edition, 1994;*
- *Ministry of Natural Resources and Forestry, Ontario Geological Survey – Map P2716, Paleozoic Geology, Ottawa Area, 1984;*
- *Geological Survey of Canada – Map 1506A, Surficial Geology, Ottawa, 1982; and,*
- *Geological Survey of Canada – Paper 77-11, Map 4, Drift Thickness Trend, 1979.*

Refer to Section 5 for additional information on Site features, as observed at the time of the Site visit.

Topic	Conditions	Comment / Source
Topography of Site and Surrounding Area	The topography of the Site is generally sloping downwards from east to west. Parcel 1 is majorly flat. Parcel 2 has a long, gentle slope from Spratt Road westwards. Parcel 3 slopes downwards from the central portion of the parcel to the west, reaching the Rideau River.	Site observations and topographic map shown in Figure 3
Overburden Soils	Champlain Sea Sediments: <u>Offshore Marine Deposits:</u> clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform and blue-grey. <u>Offshore Marine Deposits:</u> clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills of sand and pockets of non-marine silt that were formed during terrace (or channel) cutting.	Geological Survey of Canada – Map 1506A, Surficial Geology – Ottawa, Ontario (see Figures 5 and 6)



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Topic	Conditions	Comment / Source
	<p>Nearshore Sediments: fine- to medium-grained sand, calcareous and commonly fossiliferous; nearshore sand generally occurs as a sheet or as bars or spits associated with glaciofluvial materials.</p> <p>Glacial Deposits:</p> <p><u>Till:</u> plain with local relief < 5 m.</p> <p><u>Till:</u> drumlinized.</p> <p>Bedrock:</p> <p><u>Paleozoic Bedrock:</u> limestone, dolomite, sandstone and local shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 metre thick.</p>	
Type of Bedrock	<p><u>March Formation:</u> interbedded quartz sandstone, sandy dolostone and dolostone.</p> <p><u>Oxford Formation:</u> sublithographic to fine crystalline dolostone.</p>	Ontario Geological Survey – Map P2716, Paleozoic Geology – Ottawa Area
Depth to Bedrock	5 to 25 metres	Geological Survey of Canada, Paper 77-11, Map 4
Inferred Near Surface Groundwater Flow	West toward Rideau River	Natural Resources Canada – Topographical Map 31G5, Ottawa
Site Grade Relative to the Adjoining Properties	The boundaries of the Site are at generally grade with the surrounding properties. Spratt Road, east of Parcel 2, is at a slightly higher elevation, while the Rideau River, west of Parcel 3, is at a lower elevation.	Site observations and Natural Resources Canada – Topographical Map 31G5, Ottawa
Depth to Groundwater	Depth to groundwater in wells on-Site ranges from 1.2 to 7.6 metres below ground surface (mbgs).	ERIS Report



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3.3.3 Fill Materials

Topic	Conditions	Comment / Source
Fill Materials	No fill materials were observed at the Site at the time of the Site reconnaissance.	Site observations

3.3.4 Water Bodies and Areas of Natural Significance

Topic	Conditions	Comment / Source
Nearest Open Water Body	Rideau River (immediately to the west) which flows to the north.	Natural Resources Canada – Topographical Map 31G5, Ottawa
Areas of Natural Significance (ANSI)	None identified within the Phase I Study Area (see Figure 4).	MNRF – Make A Map: Natural Heritage Areas (web)

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)	There are 10 water well listings on the Site. One (1) well, constructed in May 2012, was abandoned. The remaining nine (9) wells were constructed between July 1957 and July 1970 for domestic water use with depths ranging from 12.8 mbgs to 36.6 mbgs. Their static water levels range from 1.2 mbgs to 7.6 mbgs.	ERIS Report
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)	There are 24 water well listings within the Study Area. Two (2) of these wells were constructed in August 1961 or November 2002 and were abandoned or never used. The other 22 wells were constructed between August 1947 and March 2011 with depths ranging between 12.8 mbgs and 152.4 mbgs. They were all constructed for domestic use except two (2), which were listed as livestock and public water supply. Their static water levels range from 0.6 mbgs to 17.1 mbgs.	ERIS Report

3.4 Site Operating Records

At the time of the Site visit, the Phase I Property was undeveloped. No Site Operating Records were provided to Golder in association with the property.



4.0 INTERVIEWS

Ms. Mary Jarvis of RSDC (hereinafter referred to as the “Site Representative”), responded to an environmental questionnaire detailing historical and current Site operations. RSDC is a subsidiary company of Urbandale. Pursuant to the requirements of O. Reg. 153/04, the Site Representative was interviewed as the “current owner” with knowledge of current Site operations.

Relevant information obtained by interviews is provided in the Section 5.0.



5.0 SITE RECONNAISSANCE

5.1 General Requirements

On behalf of Golder, Ms. Nicole MacDonald visited the Site for approximately one hour and a half on September 30, 2014 at 2:00 p.m. The Site visit consisted of a walk-through of the cleared areas of the Site, which were publicly accessible from River Road and Spratt Road, as well as a cursory inspection of neighbouring properties from the Site and publicly accessible areas. The weather conditions were sunny and the temperature was approximately 10°C. The Site was unoccupied (i.e., no operations occurring at the Site).

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

5.2 Specific Observations at Phase I Property

The specific observations made during the Site visit are presented herein.

5.2.1 Phase I Property Details

Topic	Observations	Comment / Source
Total Area of the Site	Approx. 102 hectares (252 acres).	Site Representative
Number and Age of Buildings on the Site	No buildings or structures are present on the Site.	Site observations and Site Representative
Building Areas	Not applicable.	Site observations
Number of Floors (include all levels, whether above or below ground)	Not applicable.	Site observations
Number, Age, and Depth of Levels Below Ground Level	Not applicable.	Site observations
Number and Details of all Aboveground Storage Tanks (ASTs)	No ASTs were observed or reported on the Phase I Property.	Site observations and Site Representative
Number and Details of all Underground Storage Tanks (USTs)	No USTs were observed or reported on the Phase I Property.	Site observations and Site Representative
Potable and Non-Potable Water Sources	No potable or non-potable water source is reportedly available on the Site.	Site observations and Site Representative
Utility Lines Present (i.e., Electrical, Natural Gas, other)	No utility drawings are available for the Site. Given Golder's understanding of the Site, the absence of these layout drawings does not represent a significant deviation. Overhead power lines were observed along River Road and Spratt Road, while underground hydro is known to be present along Borbridge Avenue (north of Parcel 1).	Site observations and Site Representative
Entry and Exit Points for Site Buildings	Not applicable.	Site observations



PHASE I ESA - PART OF 4650 RIVER ROAD & 750 RIVER ROAD OTTAWA, ONTARIO

Topic	Observations	Comment / Source
Existing and Former Heating System(s) (include fuel type / source)	Not applicable.	Site observations and Site Representative
Existing and Former Cooling System(s) (include fuel type / source)	Not applicable.	Site observations and Site Representative
Drains, Pits, and Sumps (include current use, if any, and former use)	No buildings or structures were present at the Site. There were no drains, pits, or sumps observed or reported.	Site observations and Site Representative
Unidentified Substances	None identified.	Site observations
Stains or Corrosion Located near a Potential Discharge Location	None identified.	Site observations
Location of any Current and Former Wells	Two (2) water wells are reportedly located on Parcel 3 but were not observed during the Site visit.	Site observations and ERIS report
Sanitary/Process Wastewater Receptor	No sanitary or process wastewater is generated on-Site.	Site observations and Site Representative
Sanitary Sewer Connection	No sanitary sewer connection is available at the Site.	Site observations and Site Representative
Septic Systems	No signs or record of any septic systems were on-Site.	Site observations and Site Representative
Storm Water Flow	Infiltration and collection in ditches along River Road and Spratt Road.	Site observations
Storm Sewer Connection	The Site is not currently connected to municipal storm sewers.	Site observations and Site Representative
Ground Cover (i.e. grass, gravel, soil, or pavement, etc.)	The Phase I Property was covered with trees and vegetation (agricultural crops, bushes, and grasses).	Site observations
Current or Former Railway Lines or Spurs	None observed or reported.	Site observations and aerial photographs
Presence of Stained Soil, Vegetation, or Pavement	None observed.	Site observations
Presence of Stressed Vegetation	None observed.	Site observations
Presence of Fill and/or Debris Materials	No fill material was observed.	Site observations
Potentially Contaminating Activity	None observed or reported.	Site observations and Site Representative

5.2.2 Enhanced Investigation Property

The Site is not considered to be an enhanced investigation property.



5.3 Surrounding Land Use

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

The surrounding properties include residential areas, agricultural and/or vacant fields with trees or bushes, as well as the Rideau River, as illustrated on Figure 2.

North: Parcel 1 is bounded to the north by Borbridge Avenue and residential dwellings, recently constructed as part of the Riverside South subdivision. Parcel 2 is bounded to the north by agricultural and/or vacant fields, followed by Parcel 1. Parcel 3 is bounded to the north by a few residential properties and vacant land with trees or bushes.

East: Parcels 1 and 2 are bounded to the east by Spratt Road, followed by agricultural and/or vacant fields with trees, as well as a few residential properties along Spratt Road. Parcel 3 is bounded to the east by River Road, followed by Parcel 1 of the Site (undeveloped, vegetated land).

South: Parcel 1 is bounded to the south by agricultural and/or vacant fields followed by Parcel 2. Parcel 2 is bounded to the south by agricultural fields and some vacant areas with trees, as well as a residential property. Parcel 3 is bounded to the south by vacant and agricultural land with trees and bushes, as well as a residential property.

West: Parcel 1 is bounded to the west by River Road, followed by Parcel 3 (agricultural and/or vacant fields with some trees and bushes) and a few residential dwellings. Parcel 2 is bounded to the west by agricultural fields followed by residential dwellings, while Parcel 3 is bounded to the west by the Rideau River.

5.4 Written Description of Investigation

At the time of the Site reconnaissance, conducted on September 30, 2014 the Site consisted of an approximately 102 hectare (252 acre) collection of three (3) parcels of land – primarily agricultural fields, vacant land (with trees, bushes and other vegetation) and forested land.

Parcel 1 (on the north section of 4650 Spratt Road) was observed to be generally flat and covered in trees, except for the north-west portion of the parcel which contained grass and shrub-like vegetation. A dense woodlot was observed on the eastern portion of the parcel. These areas of dense trees were not entered. The parcel was bordered to the north by trees and Borbridge Avenue across the central portion, except for a cleared area south of Borbridge Avenue where road/residential development was taking place, enclosed with construction fencing. To the east of the parcel was old wire fencing (along some of the parcel) followed by Spratt Road. Across Spratt Road was a residential dwelling, as well as some debris observed on the ground (possible dumping). Land south of the parcel was observed to be vacant fields. At the south-west corner a small abandoned building and two (2) cement posts were observed, east of River Road. West of the parcel was some old wire fencing and a ditch, followed by River Road. West of River Road were vacant fields, trees and a residential dwelling.

Parcel 2 was observed to be a vacant field with some vegetation and trees. A slight downward slope from east to west was observed, with Spratt Road being at a slightly higher elevation than the parcel. North of the parcel were vacant fields with some trees, while east was Spratt Road followed by more vacant fields with some trees. To the south-east a landscaping company was observed, with vehicles, cargo trailers, a shop building and an enclosed Quonset hut on the property. South of the parcel was observed to be agricultural fields, while west of the parcel was agricultural fields followed by residential dwellings east of River Road.



PHASE I ESA - PART OF 4650 RIVER ROAD & 750 RIVER ROAD OTTAWA, ONTARIO

Parcel 3 was observed to be primarily an agricultural field with hay bales and Canada geese across the parcel. Trees ran across the northern edge and along the western edge next to the Rideau River. A treed area located centrally on the parcel is likely the location of a former residence. The eastern portion of the parcel was primarily flat with some ponded water, while the western portion sloped downwards to the west, towards the Rideau River (which lies at a lower elevation than the parcel). To the north of the parcel were trees and residential dwellings, as well as a residential property located outside the north-east corner of the parcel. To the east was old wire fencing, a ditch with cattails and River Road, followed by the grassy, vegetated area of Parcel 1. To the south was observed old wire fencing and a vacant field containing a locked well casing, followed by a residential property. West of the parcel was the Rideau River.

No buildings or structures were present on the Phase I Property. The current owner does not currently conduct any activities on the Site. Hydro poles and transmission lines were observed along the east and west boundaries of Parcel 1, the east boundary of Parcel 2 and the east boundary of Parcel 3. Underground hydro services are expected along Borbridge Avenue, north of the central portion of Parcel 1.



6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses of the Site

The following table summarizes the property uses of Parcel 1 of the Site over time:

Year	Name of the Owner	Description of Property Use	Property Use	Other Observations from Aerial photographs, FIPs, etc.
Prior to 1955 to 1964	Unknown	Agricultural fields with few trees.	Agricultural or other use	Aerial photographs show the parcel containing a woodlot on eastern portion.
1964 to 1987	Urbandale Corporation / Unknown	As per prior to 1955 to 1964.	Agricultural or other use	As per prior to 1955 to 1964.
1987 to 1990	Urbandale Corporation / Unknown	Agricultural fields with some trees.	Agricultural or other use	As per prior to 1955 to 1964.
1990 to 2002	Urbandale Corporation / Richcraft South Growth Inc.	As per 1987 to 1990.	Agricultural or other use	As per prior to 1955 to 1964.
2002 to 2011	Riverside South Development Corporation	The Site is comprised of agricultural and/or vacant fields with more trees than previously observed.	Agricultural or other use	Aerial photographs show a woodlot on the eastern portion and residential development beginning to the north in 2011.

The following table summarizes the property uses of Parcel 2 of the Site over time:

Year	Name of the Owner	Description of Property Use	Property Use	Other Observations from Aerial photographs, FIPs, etc.
Prior to 1955 to 1975	Crown	Agricultural fields with few trees with one (1) residential dwelling fronting on Spratt Road.	Agricultural or other use and/or Residential use	Aerial photographs show surrounding land consisting of agricultural fields with some trees.
1975 to 1993	Crown	Agricultural fields with few trees. The residential dwelling is no longer present.	Agricultural or other use	As per prior to 1955 to 1975.
1993 to 2002	Richcraft South Growth Inc.	As per 1975 to 1993.	Agricultural or other use	As per prior to 1955 to 1975.
2002 to 2005	Riverside South Development Corporation	As per 1975 to 1993.	Agricultural or other use	As per prior to 1955 to 1975.
2005 to 2011	Riverside South Development Corporation	Agricultural and/or vacant fields with slightly more trees than previously observed.	Agricultural or other use	As per prior to 1955 to 1975.



PHASE I ESA - PART OF 4650 RIVER ROAD & 750 RIVER ROAD OTTAWA, ONTARIO

The following table summarizes the property uses of Parcel 3 of the Site over time:

Year	Name of the Owner	Description of Property Use	Property Use	Other Observations from Aerial photographs, FIPs, etc.
Prior to 1955 to 1987	Crown	Agricultural fields with few trees and one (1) residential dwelling fronting on River Road.	Agricultural or other use and/or Residential use	Aerial photographs show surrounding land consisting of agricultural fields with some trees and few residential dwellings, as well as the Rideau River to the west.
1987 to 1989	Crown	Agricultural fields with some trees. The residential dwelling is no longer present.	Agricultural or other use	As per prior to 1955 to 1987.
1989 to 2010	Urbandale Realty Corporation Ltd.	As per 1987 to 1989.	Agricultural or other use	As per prior to 1955 to 1987.
2010 to 2011	Urbandale Corporation	As per 1987 to 1989.	Agricultural or other use	As per prior to 1955 to 1987.

6.2 Potentially Contaminating Activity and Areas of Potential Environmental Concern

Potentially contaminating activities (PCA), 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 I ESA, there were no potentially contaminating activities or areas of potential environmental concern identified.

6.3 Conceptual Site Model

A Conceptual Site Model of the Phase I Study area is provided in Figures 1 to 8. The combined set of figures shows:

- Any existing buildings and structures (none on Site);
- Water bodies and areas of natural significance (if present) located in the Phase I Study Area;
- Any drinking water wells on the Phase I Property (although 10 are listed one has been abandoned and none were observed on-Site);
- Roads (including names) within the Phase I Study Area;
- Uses of properties adjacent to the Phase I Property;
- Areas where any PCAs have occurred in the Phase I Study Area, including any storage tanks (if identified); and,
- Areas of potential environmental concern (if identified).



PHASE I ESA - PART OF 4650 RIVER ROAD & 750 RIVER ROAD OTTAWA, ONTARIO

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

- The Site currently consists of three (3) undeveloped parcels of agricultural and/or vacant fields and vegetated land (grass, shrubs, trees). A few areas of dense trees were noted with a prominent woodlot observed on the eastern portion of Parcel 1. The total area of the Site is approximately 102 hectares (252 acres). No buildings or structures were noted on the Phase I Property and no operations or activities were being carried out at the Site;
- The topography of the Site is as follows:
 - Parcel 1: generally flat with all surrounding properties being at the same grade as the parcel
 - Parcel 2: a slight downward slope from east to west with Spratt Road being at a slightly higher elevation than the parcel
 - Parcel 3: generally flat on the eastern portion and sloping downwards from east to west on the western portion, towards the Rideau River, with the Rideau River being at a lower elevation than the parcel
- Overall, the Site is bounded to the north by treed areas and residential development; to the east by Spratt Road followed by agricultural and/or undeveloped fields, as well as a few residential properties; to the south by agricultural fields or undeveloped areas; and to the west by agricultural and/or undeveloped fields and a few residential dwellings, as well as the Rideau River (flowing north);
- Natural Heritage features, Species at Risk and Species of Special Concern have been identified by the MNRF to be potentially present on the Site or on the nearby lands;
- Surface water runoff is via natural infiltration through the soil and towards the drainage ditches running alongside roadways, if present;
- According to the MOE water well database in the ERIS report there were 10 water well listings on the Site. Nine (9) of these wells were constructed between July 1957 and July 1970 for domestic water use with depths ranging from 12.8 metres to 36.6 metres. Their static water levels range from 1.2 metres to 7.6 metres. None of the wells were observed during the Site visit;
- At the time of the Phase I ESA, the neighbouring properties within the Phase I Study Area were mainly used for agricultural and residential purposes, as well as a landscaping company south-east of the Site;
- Surface soils at the Site vary greatly, including offshore marine deposits (combinations of clay, silty clay, silt, sand), nearshore sediments (primarily fine- to medium-grained sand), glacial deposits (till) and bedrock (paleozoic - limestone, dolomite, sandstone and shale). Bedrock is comprised of the March Formation (interbedded quartz sandstone, sandy dolostone and dolostone) as well as the Oxford Formation (sublithographic to fine crystalline dolostone) at depths ranging from 5 to 25 metres;
- Soil at the Site consists primarily of clay, silty clay and silt, overlain by thin sand with some bedrock and glacial till. Bedrock is mainly comprised of the March Formation; interbedded quartz sandstone, sandy dolostone and dolostone; at depths ranging from 10 to 50 metres. In some areas, bedrock is of the Oxford Formation (interbedded sandstone and sandy dolomite) and the Nepean Formation (sandstone);



- The overall groundwater flow direction of the Site was interpreted to be west towards the Rideau River; and,
- No PCAs or APECs were identified on the Phase I Property or within the Phase I Study Area that may have resulted in APECs on the Site.

6.3.1 Uncertainty and Absence of Information

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



7.0 CONCLUSIONS

Based on the information obtained and reviewed as part of this Phase I ESA, there were no APECs identified in association with the Site.

Based on the response from the Ministry of Natural Resources and Forestry (MNRF), there is a potential for Species at Risk and Species of Special Concern to be present on the Site or in proximity to it. Therefore, Golder recommends that:

A single Site visit to be carried out by a field biologist to determine if any of the species at risk are present on the Site (provided it is undertaken in the appropriate season). If any are seen on Site, the MNRF would need to be engaged to determine appropriate next steps before proceeding with construction.

7.1 Need for a Phase II ESA

No APECs were identified at the Phase I Property; therefore, a Phase II ESA is not required.

7.2 Record of Site Condition Based on Phase I Environmental Site Assessment Alone

Considering that the Site has been always vacant and agricultural land with few residential dwellings and is proposed to be developed as a residential subdivision (residential land use), there is no change in the land use from more sensitive to less sensitive. As such, there is no mandatory requirement for filing of a Record of Site Condition for the Site.



8.0 REFERENCES

The following is a list of all documents or data cited in this report:

Source	Date
Previous Environmental Reports (refer to Section 3.1.6)	
Environmental Risk Information Services	September 24, 2014
Ontario Ministry of the Environment and Climate Change – Ottawa office	September 4, 2014
City of Ottawa	March 3, 2015
Ministry of Natural Resources and Forestry	September 29, 2014
Technical Standards and Safety Authority	August 29, 2014
Aerial Photographs – National Air Photo Library (Natural Resources Canada)	1955, 1965, 1975, 1987 and 1998
Aerial Photograph Images – geoOttawa (http://maps.ottawa.ca/geoOttawa/)	1976, 1991, 1999, 2002, 2005, 2007, 2008 and 2011
Natural Resources Canada – Topographical Map 31G5, Ottawa, 11th Edition, 1994	October, 2004
Ministry of Natural Resources and Forestry, Ontario Geological Survey – Map P2716, Paleozoic Geology, Ottawa Area, 1984	October, 2004
Geological Survey of Canada – Map 1506A, Surficial Geology, Ottawa, 1982	October, 2004
Geological Survey of Canada – Paper 77-11, Map 4, Drift Thickness Trend, 1979	October, 2004
Ministry of Natural Resources and Forestry – Make A Map: Natural Heritage Areas (Web: http://www.giscoeapp.lrc.gov.on.ca/web/MNR/NHLUPS/NaturalHeritage/Viewer/Viewer.html)	2013



9.0 LIMITATIONS AND USE OF REPORT

This report (the "Report") was prepared for the exclusive use of Riverside South Development Corporation 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 I 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 I ESAs as set out in O. Reg. 153/04.

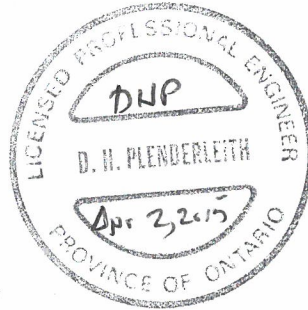


11.0 CLOSURE

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.

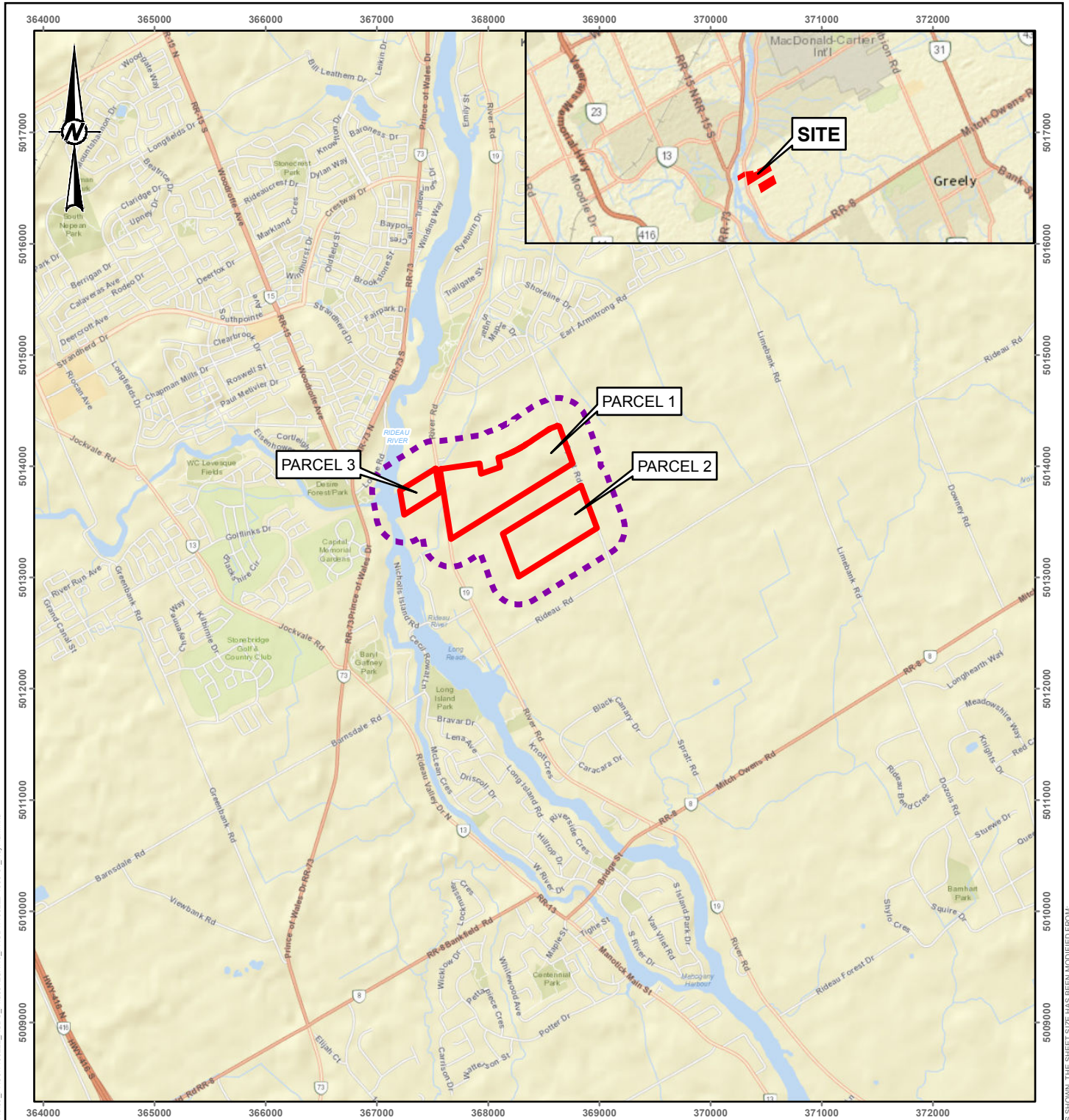
Don Plenderleith, M.Sc., P.Eng., PMP
Principal, Qualified Person for ESAs



NLM/DHP/nh

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LEGEND

- PHASE I ESA STUDY AREA
- PHASE I ESA SITE BOUNDARY

NOTES

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406222.

REFERENCE

SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, DELORME, USGS, INTERMAP, INCREMENT P CORP., NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI (THAILAND), TOMTOM, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM ZONE 9 VERTICAL DATUM: CGVD28

CLIENT

RIVERSIDE SOUTH DEVELOPMENT CORPORATION

PROJECT

PHASE I ENVIRONMENTAL ASSESSMENT
PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD
OTTAWA, ONTARIO

TITLE

KEY PLAN

CONSULTANT



YYYY-MM-DD 2014-10-02

PREPARED ABD

DESIGN AW

REVIEW NLM

APPROVED DHP

PROJECT
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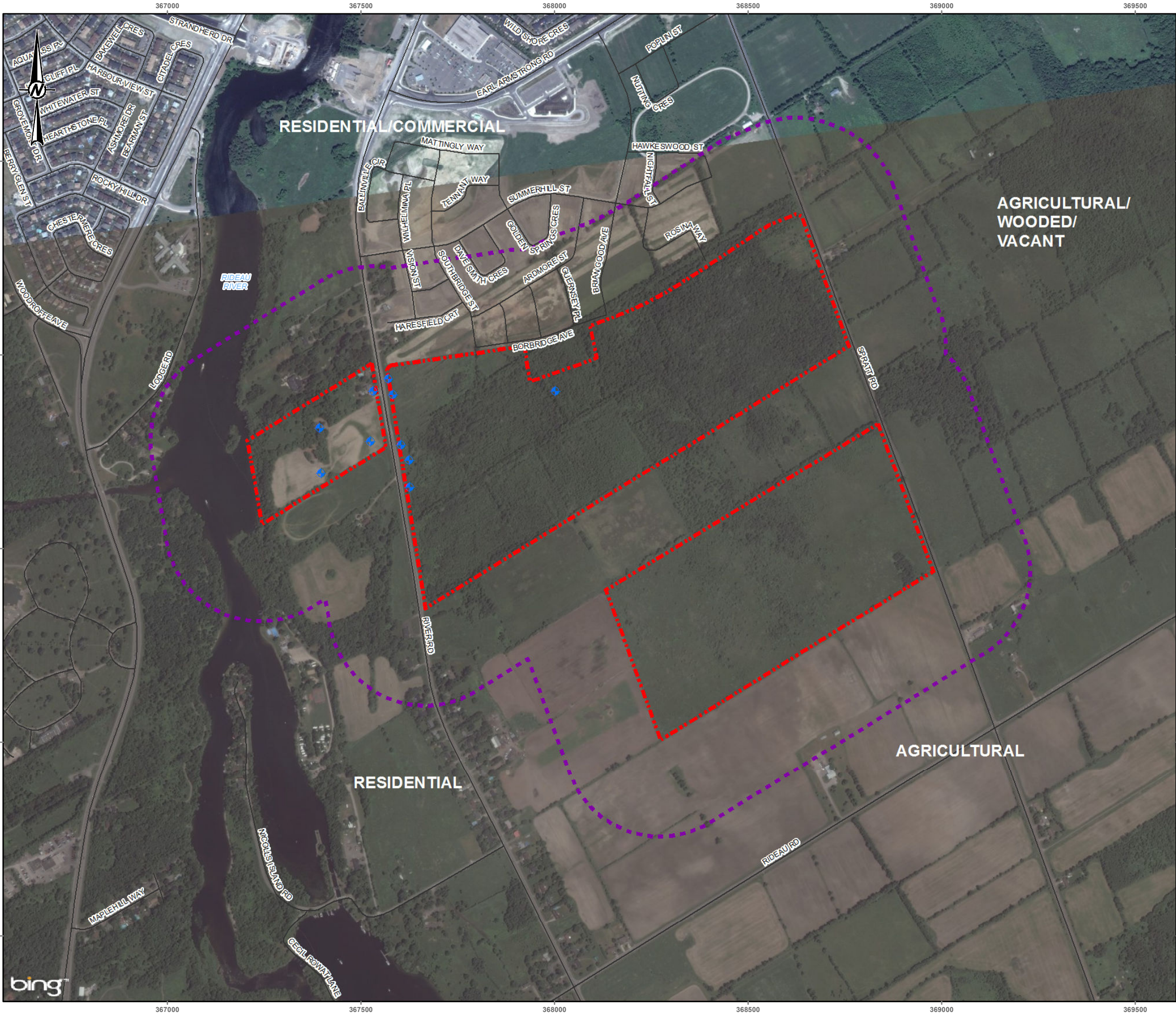
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FIGURE
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- LEGEND
- MOE LISTED WATERWELLS
 - ROADWAY
 - PHASE I ESA STUDY AREA
 - PHASE I ESA SITE BOUNDARY

NOTES
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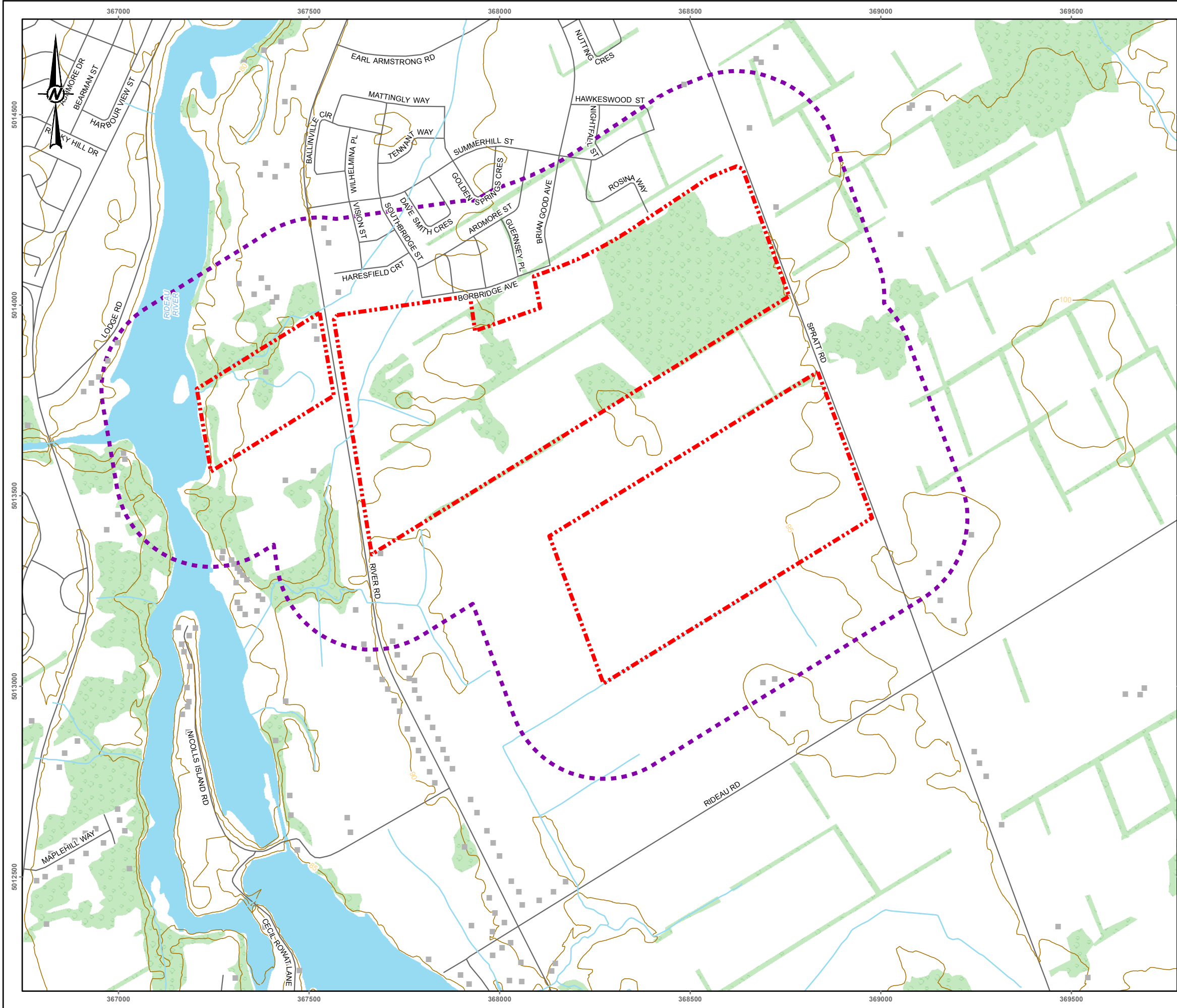
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SERVICE LAYER CREDITS: © 2015 DIGITALGLOBE IMAGE COURTESY OF USGS EARTHSTAR GEOGRAPHICS SIO © 2015 MICROSOFT CORPORATION
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM ZONE 9
VERTICAL DATUM: CGVD28



CLIENT RIVERSIDE SOUTH DEVELOPMENT CORPORATION		
PROJECT PHASE I ENVIRONMENTAL ASSESSMENT PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD OTTAWA, ONTARIO		
TITLE SITE PLAN		
CONSULTANT	YYYY-MM-DD	2014-10-02
	PREPARED	ABD
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	REVIEW	NLM
	APPROVED	DHP

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LEGEND

- BUILDING POINT
- PHASE I ESA STUDY AREA
- PHASE I ESA SITE BOUNDARY
- WATERCOURSE
- ROADWAY
- TOPOGRAPHIC CONTOUR, metres
- WOODED AREA
- WATERBODY

NOTES

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406222.

REFERENCE

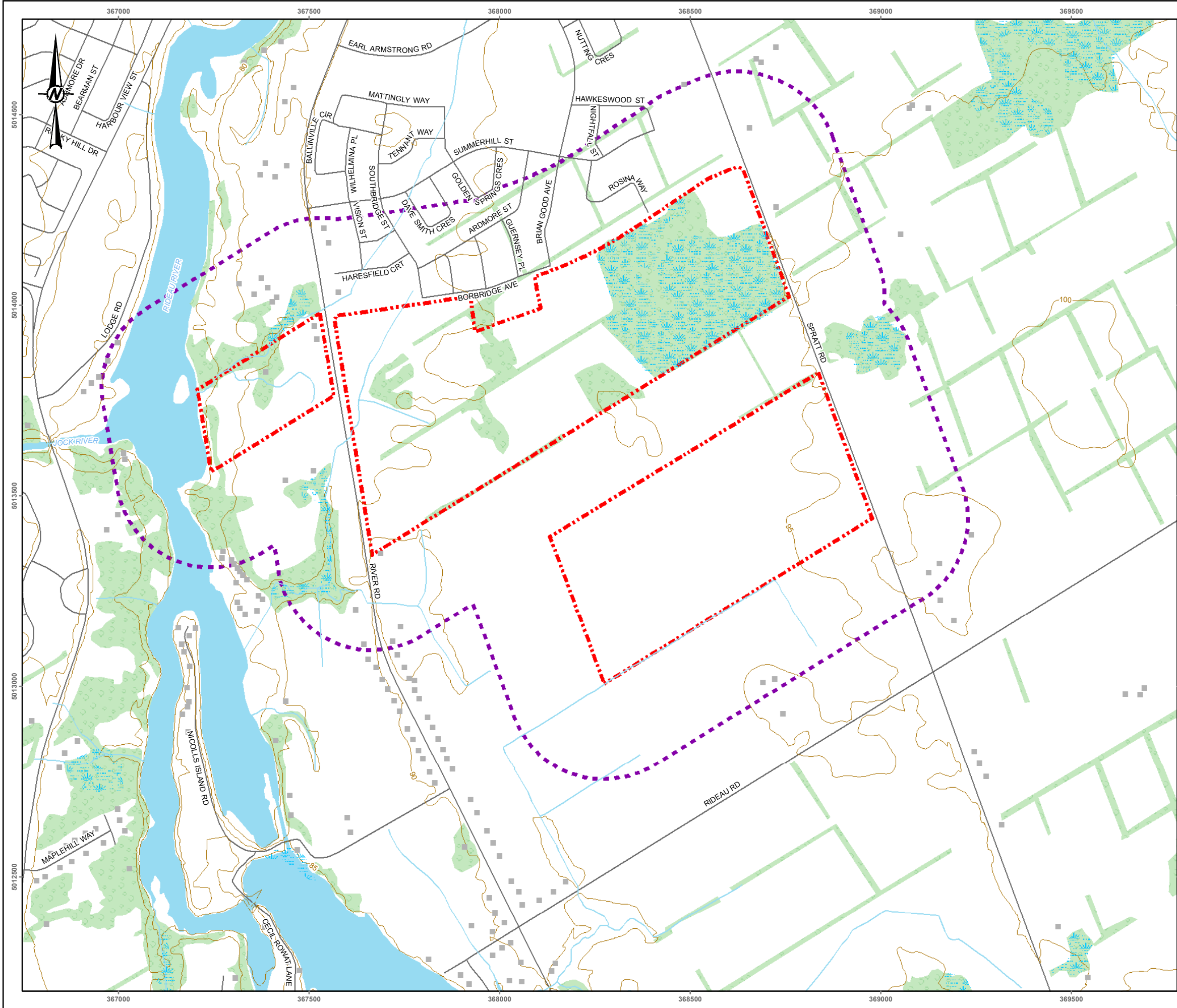
LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2011. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM ZONE 9 VERTICAL DATUM: CGVD28



CLIENT		
RIVERSIDE SOUTH DEVELOPMENT CORPORATION		
PROJECT		
PHASE I ENVIRONMENTAL ASSESSMENT		
PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD		
OTTAWA, ONTARIO		
TITLE		
TOPOGRAPHIC MAP		
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YYYY-MM-DD	2014-08-26	
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- LEGEND
- BUILDING POINT
 - WATERCOURSE
 - ROADWAY
 - TOPOGRAPHIC CONTOUR, metres
 - WOODED AREA
 - WETLAND
 - WATERBODY
 - PHASE I ESA STUDY AREA
 - PHASE I ESA SITE BOUNDARY

NOTES
THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406222.

REFERENCE
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PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM ZONE 9
VERTICAL DATUM: CGVD28



CLIENT RIVERSIDE SOUTH DEVELOPMENT CORPORATION		
PROJECT PHASE I ENVIRONMENTAL ASSESSMENT PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD OTTAWA, ONTARIO		
TITLE AREA OF NATURAL AND SCIENTIFIC INTEREST		
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LEGEND

- BUILDING POINT
- WATERCOURSE
- ROADWAY
- PHASE I ESA STUDY AREA
- PHASE I ESA SITE BOUNDARY
- WATERBODY
- 3. PALEOZOIC BEDROCK
- 5b. TILL: STONE-POOR, SANDY SILT TO SILTY SAND-TEXTURED TILL ON PALEOZOIC TERRAIN
- 10a. FINE-TEXTURED GLACIOMARINE DEPOSITS: SILT AND CLAY, MINOR SAND AND GRAVEL; MASSIVE TO WELL LAMINATED
- 11c. COARSE-TEXTURED GLACIOMARINE DEPOSITS: SAND, GRAVEL, MINOR SILT AND CLAY; FORESHORE AND BASINAL DEPOSITS
- 19. MODERN ALLUVIAL DEPOSITS: DAY, SILT, SAND, GRAVEL, MAY CONTAIN ORGANIC REMAINS

NOTES

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406222.

REFERENCE

ONTARIO GEOLOGICAL SURVEY 2003. SURFICIAL GEOLOGY OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE--DATA 128. PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE WITH THE ONTARIO MINISTRY OF NORTHERN DEVELOPMENT AND MINES © QUEEN'S PRINTER FOR ONTARIO, 2011.
LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEEN'S PRINTER 2011.
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM ZONE 9
VERTICAL DATUM: CGVD28

0 100 200 400
SCALE 1:10,000 METRES

CLIENT	RIVERSIDE SOUTH DEVELOPMENT CORPORATION		
PROJECT	PHASE I ENVIRONMENTAL ASSESSMENT PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD OTTAWA, ONTARIO		
TITLE	SURFICIAL GEOLOGY		
CONSULTANT	YYYY-MM-DD	2014-08-26	
	PREPARED	ABD	
	DESIGN	AW	
	REVIEW	NLM	
	APPROVED	DHP	

PROJECT No.
1406222

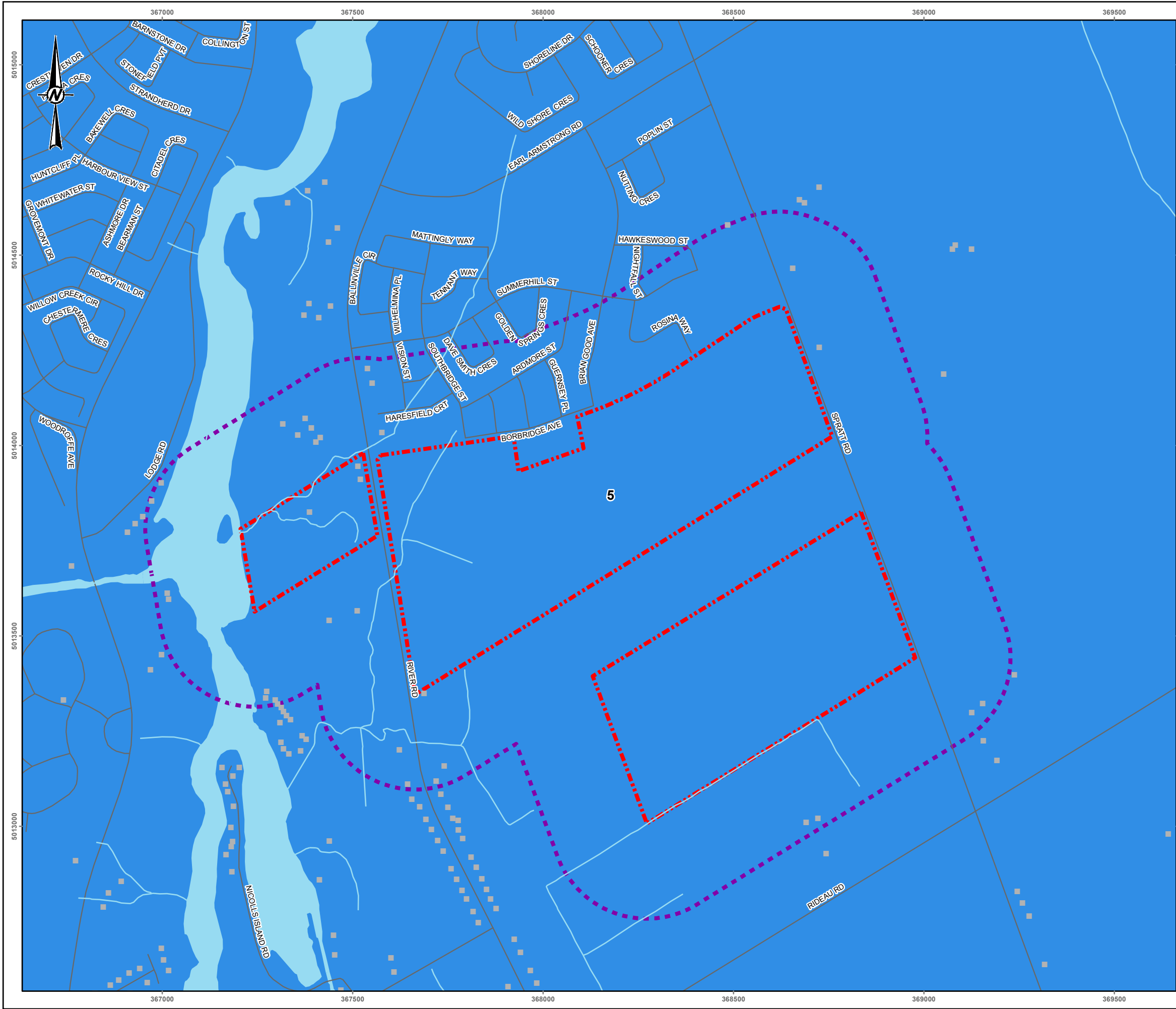
PHASE
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Rev.
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FIGURE
5

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

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LEGEND

- BUILDING POINT
- WATERCOURSE
- ROADWAY
- PHASE I ESA STUDY AREA
- PHASE I ESA SITE BOUNDARY
- WATERBODY

BEDROCK GEOLOGY

- 5: OXFORD FORMATION

NOTES
THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406222.

REFERENCE
ARMSTRONG, D.K. AND DODGE, J.E.P. PALEOZOIC GEOLOGY MAP OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE--DATA 219.
LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES. © QUEENS PRINTER 2011.
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM ZONE 9
VERTICAL DATUM: CGVD28

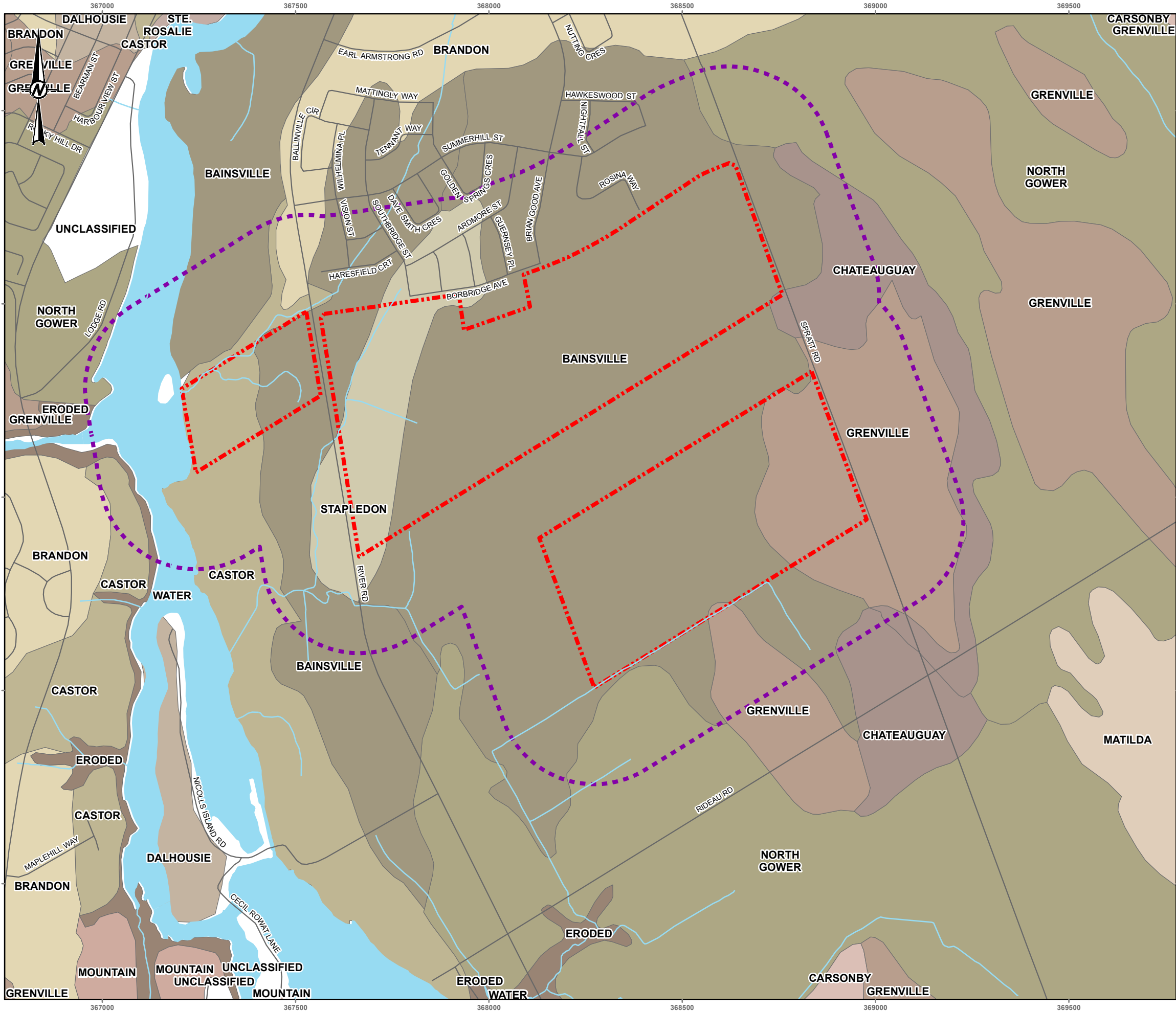


CLIENT		
RIVERSIDE SOUTH DEVELOPMENT CORPORATION		
PROJECT		
PHASE I ENVIRONMENTAL ASSESSMENT		
PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD		
OTTAWA, ONTARIO		
TITLE		
BEDROCK GEOLOGY		
CONSULTANT		
YYYY-MM-DD	2014-08-26	
PREPARED	ABD	
DESIGN	AW	
REVIEW	NLM	
APPROVED	DHP	



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

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- LEGEND
- WATERCOURSE
 - ROADWAY
 - PHASE I ESA STUDY AREA
 - PHASE I ESA SITE BOUNDARY
 - WATERBODY
 - BAINSVILLE
 - BRANDON
 - CARSONBY
 - CASTOR
 - CHATEAUGUAY
 - DALHOUSIE
 - ERODED
 - GRENVILLE
 - MATILDA
 - MOUNTAIN
 - NORTH GOWER
 - STAPLEDON
 - STE. ROSALIE

NOTES
THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1406222.

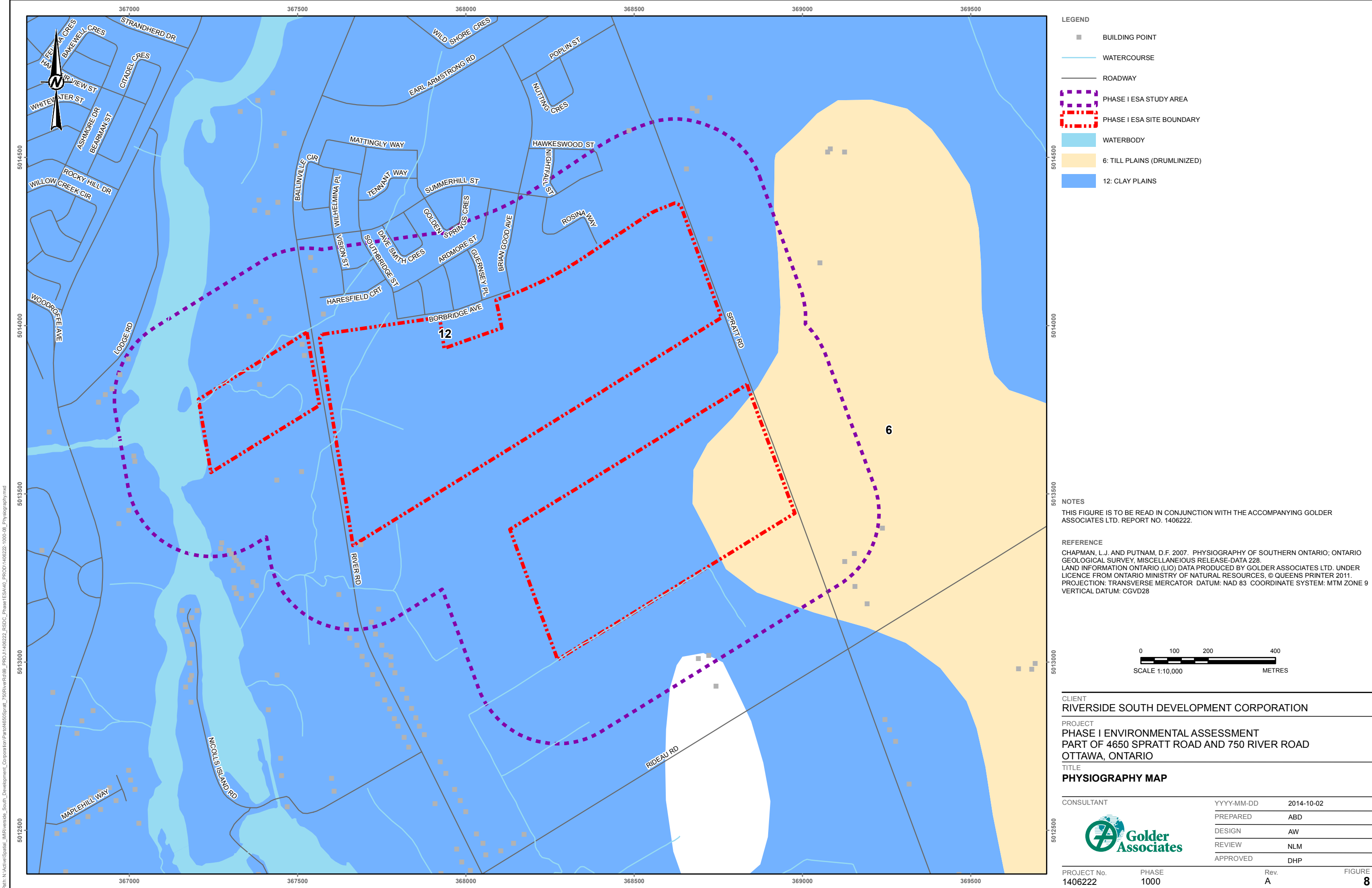
REFERENCE
LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2011. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM ZONE 9 VERTICAL DATUM: CGVD28



CLIENT RIVERSIDE SOUTH DEVELOPMENT CORPORATION		
PROJECT PHASE I ENVIRONMENTAL ASSESSMENT PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD OTTAWA, ONTARIO		
TITLE SOIL SURVEY COMPLEX (ONTARIO SOILS)		
CONSULTANT	YYYY-MM-DD	2014-08-26
	PREPARED	ABD
	DESIGN	AW
	REVIEW	NLM
	APPROVED	DHP



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



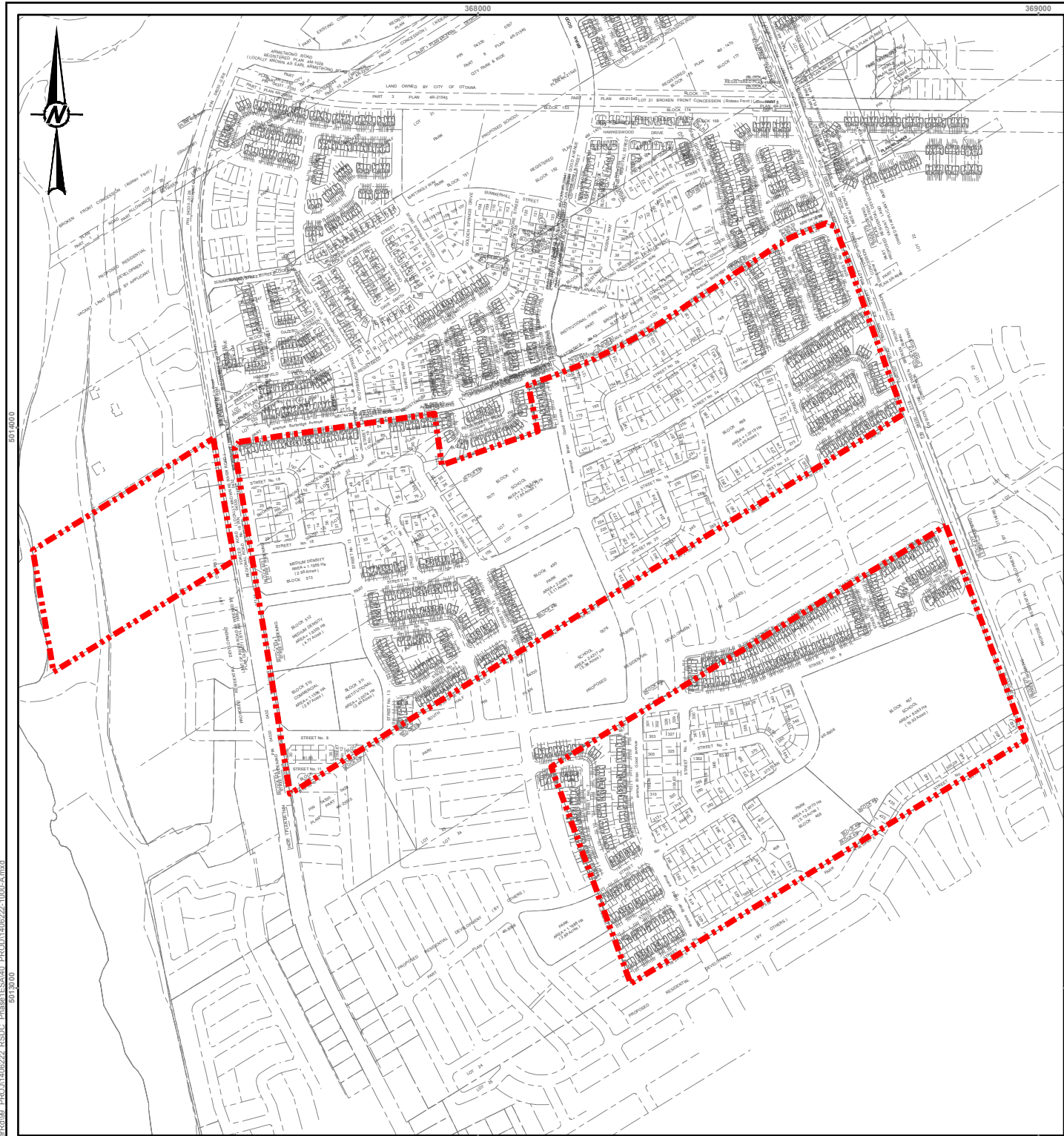
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM 25mm




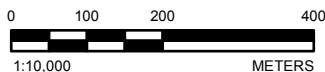
APPENDIX A

Survey Plan



LEGEND

 PHASE I ESA SITE BOUNDARY



NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO.1406222.

REFERENCE(S)

1. BASE PLAN PROVIDED IN ELECTRONIC FORMAT FROM URBANDALE- DECEMBER 2014

2. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
COORDINATE SYSTEM: MTM ZONE 9 VERTICAL DATUM: CGVD28

CLIENT

RIVERSIDE SOUTH DEVELOPMENT CORPORATION

PROJECT

PHASE I ENVIRONMENTAL ASSESSMENT
PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD
OTTAWA, ONTARIO

TITLE

SURVEY PLAN

CONSULTANT



YYYY-MM-DD 2014-10-02

DESIGNED AW

PREPARED ABD

REVIEWED NLM

APPROVED DHP

PROJECT NO.
1406222

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

25mm



APPENDIX B

ERIS Report



DATABASE REPORT



Project Property:

*Phase I Environmental Site Assessment
River Rd Earl Armstrong Rd
Ottawa ON
1406222*

P.O. Number

Report Type:

Order #:

Requested by:

Date:

Quote - Custom-Build Your Own Report

20140829049

Golder Associates Ltd.

September 24, 2014

Ecolog ERIS Ltd.

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

www.erisinfo.com

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

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Executive Summary

Property Information:

Project Property: *Phase I Environmental Site Assessment
River Rd Earl Armstrong Rd Ottawa ON*

P.O. Number: *1406222*

Order Information:

Order No.: *20140829049*

Date Requested: *25/09/2014*

Requested by: *Golder Associates Ltd.*

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

Additional Products:

City Directory Search	<i>Subject Site plus 5 Adjacent Properties</i>
Insurance Products	<i>Inspection Reports</i>
Insurance Products	<i>Fire Insurance Plans</i>
Insurance Products	<i>Site Specific Plans</i>
Land Title Search	<i>Title Search</i>

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	12	19	31
CA	Certificates of Approval	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	1	1
EIIS	Environmental Issues Inventory System	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	3	3
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	5	5
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defence & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defence & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</i>	<i>Total</i>
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	2	2
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	2	2
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	19	33	52
Total:			31	65	96

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist m</i>	<i>Elev diff m</i>	<i>Page Number</i>
1	BORE		ON	-/0.0	90.07	19
1	WWIS		lot 22 ON	-/0.0	90.06	19
2	WWIS		lot 22 ON	-/0.0	86.00	19
3	BORE		ON	-/0.0	86.00	20
3	WWIS		lot 22 ON	-/0.0	86.00	20
4	BORE		ON	-/0.0	86.53	21
4	WWIS		lot 22 ON	-/0.0	86.52	21
5	WWIS		lot 22 ON	-/0.0	87.00	21
6	BORE		ON	-/0.0	86.00	22
6	WWIS		lot 22 ON	-/0.0	86.00	22
8	BORE		ON	-/0.0	86.00	23
8	WWIS		lot 22 ON	-/0.0	86.00	23
9	WWIS		lot 22 ON	-/0.0	86.00	24
11	BORE		ON	-/0.0	94.00	24
17	WWIS		MANOTICK ON	-/0.0	84.55	24
18	WWIS		lot 22 ON	-/0.0	85.86	25
22	WWIS		lot 21 ON	-/0.0	86.00	25

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
<u>23</u>	WWIS		lot 21 ON	-/0.0	86.08	<u>26</u>
<u>25</u>	BORE		ON	-/0.0	86.00	<u>26</u>
<u>25</u>	WWIS		lot 21 ON	-/0.0	86.00	<u>27</u>
<u>26</u>	WWIS		lot 21 ON	-/0.0	86.59	<u>27</u>
<u>32</u>	BORE		ON	-/0.0	85.68	<u>28</u>
<u>32</u>	WWIS		lot 21 ON	-/0.0	85.67	<u>28</u>
<u>33</u>	WWIS		lot 20 ON	-/0.0	90.00	<u>29</u>
<u>36</u>	WWIS		lot 20 ON	-/0.0	90.00	<u>29</u>
<u>37</u>	BORE		ON	-/0.0	90.00	<u>30</u>
<u>43</u>	WWIS		lot 20 ON	-/0.0	90.00	<u>30</u>
<u>45</u>	BORE		ON	-/0.0	87.87	<u>31</u>
<u>48</u>	BORE		ON	-/0.0	87.02	<u>32</u>
<u>50</u>	BORE		ON	-/0.0	89.48	<u>32</u>
<u>54</u>	WWIS		lot 20 con 1 GLOUCESTER ON	-/0.0	84.38	<u>33</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
7	WWIS		lot 21 ON	WNW/34.9	86.00	33
10	BORE		ON	WSW/28.3	88.28	34
10	WWIS		lot 23 ON	WSW/28.3	88.27	34
12	WWIS		lot 21 ON	WNW/40.5	87.72	35
13	WWIS		lot 22 ON	WSW/85.9	85.00	35
14	EHS		3704 Prince of Wales Dr. Ottawa ON	SW/18.6	90.00	36
15	WWIS		lot 22 ON	WSW/102.2	85.94	36
16	BORE		ON	NW/23.4	89.66	36
19	WWIS		lot 23 ON	SW/64.1	88.20	37
20	WWIS		lot 21 ON	NW/28.7	90.00	37
21	BORE		ON	SW/76.6	88.38	38
21	WWIS		lot 23 ON	SW/76.6	88.37	39
24	WWIS		lot 23 ON	SSW/179.5	87.98	39
27	BORE		ON	NW/19.6	90.00	39
27	WWIS		lot 21 ON	NW/19.6	90.00	40
28	WWIS		lot 21 ON	NW/26.5	90.00	41

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
29	WWIS		lot 23 ON	SSW/237.3	89.00	41
30	BORE		ON	NNW/141.9	90.00	42
31	BORE		ON	NW/14.1	90.00	42
34	BORE		ON	WSW/233.5	82.07	43
34	WWIS		lot 22 ON	WSW/233.5	82.05	43
35	GEN	GOODFELLOW CLEANERS INC	665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	NNW/233.9	89.00	44
35	GEN	GOODFELLOW CLEANERS INC	665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	NNW/233.9	89.00	44
35	GEN	Riverside South Medical Centre	3-665 Earl Armstrong Rd Ottawa ON K1V 2G2	NNW/233.9	89.00	44
35	GEN	GOODFELLOW CLEANERS INC	665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	NNW/233.9	89.00	44
35	GEN	GOODFELLOW CLEANERS INC	665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON K1V 2G2	NNW/233.9	89.00	45
38	BORE		ON	ESE/105.6	97.32	45
39	WWIS		lot 22 con 1 ON	NE/213.5	94.00	45
39	WWIS		lot 22 con 1 ON	NE/213.5	94.00	46
39	WWIS		lot 22 con 1 ON	NE/213.5	94.00	46
40	FST	MACEWEN PETROLEUM INC***	685 RIVER RD GLOUCESTER ON K1V 1C7	NNW/55.0	89.00	47
40	FST	MACEWEN PETROLEUM INC***	685 RIVER RD GLOUCESTER ON K1V 1C7	NNW/55.0	89.00	47
40	FST	MACEWEN PETROLEUM INC***	685 RIVER RD GLOUCESTER ON K1V 1C7	NNW/55.0	89.00	47
41	WWIS		lot 10 con 1 ON	WNW/131.5	79.05	48
42	WWIS		lot 10 con 1 OTTAWA ON	WNW/147.3	80.59	48

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
44	BORE		ON	ESE/76.5	99.28	48
44	WWIS		lot 25 con 1 ON	ESE/76.5	99.27	49
46	WWIS		lot 11 con 1 MANOTICK ON	WNW/163.3	82.08	50
47	PES	1092465 ONTARIO LTD O/A MONCION'S YOUR INDEP GROCER	671 RIVER RD OTTAWA ON K1V 2G2	NNW/49.2	89.65	50
47	PES	1092465 ONTARIO LTD O/A MONCION'S YOUR INDEP GROCER	671 RIVER RD OTTAWA ON K1V2G2	NNW/49.2	89.65	50
47	SPL		671 River Road, Gloucester Ottawa ON	NNW/49.2	89.65	51
49	SPL	PRIVATE RESIDENCE	18 LODGE ROAD FURNACE OIL TANK NEPEAN CITY ON K2C 3H1	W/194.7	80.40	51
51	WWIS		lot 10 con 1 OTTAWA ON	W/202.2	80.05	51
52	WWIS		lot 11 con 1 OTTAWA ON	WNW/130.5	79.77	52
53	BORE		ON	NNW/42.7	90.00	52
55	BORE		ON	WNW/238.5	85.92	53
56	WWIS		lot 10 con 1 ON	W/248.6	82.49	53
57	WWIS		lot 20 ON	NNW/164.6	88.00	54
58	WWIS		lot 10 con 1 ON	W/245.1	85.80	54
59	WWIS		lot 11 con 1 OTTAWA ON	WNW/162.9	82.59	55
60	BORE		ON	NNW/80.6	89.72	55
61	BORE		ON	NNW/93.2	88.90	56
61	WWIS		lot 20 ON	NNW/93.2	88.90	56
62	BORE		ON	NNW/32.4	87.25	57

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
<u>63</u>	WWIS		lot 25 con 1 ON	ESE/208.0	100.00	<u>57</u>
<u>63</u>	WWIS		lot 25 con 1 ON	ESE/208.0	100.00	<u>58</u>
<u>64</u>	BORE		ON	NNW/40.5	86.40	<u>59</u>
<u>64</u>	WWIS		lot 20 ON	NNW/40.5	86.35	<u>59</u>
<u>65</u>	BORE		ON	NNW/147.9	86.56	<u>60</u>
<u>66</u>	WWIS		lot 11 con 1 NEPEAN ON	NW/91.6	80.00	<u>60</u>
<u>66</u>	WWIS		lot 11 con 1 NEPEAN ON	NW/91.6	80.00	<u>61</u>
<u>67</u>	BORE		ON	NW/98.2	80.00	<u>61</u>
<u>68</u>	WWIS		lot 11 con 1 NEPEAN ON	NW/106.5	80.00	<u>61</u>
<u>69</u>	BORE		ON	NW/109.5	80.00	<u>62</u>
<u>70</u>	BORE		ON	NW/174.7	81.00	<u>62</u>

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Aug 2011 has found that there are 31 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
ON		0.0	<u>1</u>
ON		0.0	<u>3</u>
ON		0.0	<u>4</u>
ON		0.0	<u>6</u>
ON		0.0	<u>8</u>
ON		28.3	<u>10</u>
ON		0.0	<u>11</u>
ON		23.4	<u>16</u>
ON		76.6	<u>21</u>
ON		0.0	<u>25</u>
ON		19.6	<u>27</u>
ON		141.9	<u>30</u>
ON		14.1	<u>31</u>
ON		0.0	<u>32</u>
ON		233.5	<u>34</u>
ON		0.0	<u>37</u>
ON		105.6	<u>38</u>
ON		76.5	<u>44</u>
ON		0.0	<u>45</u>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	ON	0.0	48
	ON	0.0	50
	ON	42.7	53
	ON	238.5	55
	ON	80.6	60
	ON	93.2	61
	ON	32.4	62
	ON	40.5	64
	ON	147.9	65
	ON	98.2	67
	ON	109.5	69
	ON	174.7	70

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 2013 has found that there are 1 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	3704 Prince of Wales Dr. Ottawa ON	18.6	14

FST - Fuel Storage Tank

A search of the FST database, dated 2010-May 2013 has found that there are 3 FST site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
MACEWEN PETROLEUM INC***	685 RIVER RD GLOUCESTER ON K1V 1C7	55.0	40
MACEWEN PETROLEUM INC***	685 RIVER RD GLOUCESTER ON K1V 1C7	55.0	40
MACEWEN PETROLEUM INC***	685 RIVER RD GLOUCESTER ON K1V 1C7	55.0	40

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 2014 has found that there are 5 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
GOODFELLOW CLEANERS INC	665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	233.9	<u>35</u>
GOODFELLOW CLEANERS INC	665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	233.9	<u>35</u>
GOODFELLOW CLEANERS INC	665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON K1V 2G2	233.9	<u>35</u>
GOODFELLOW CLEANERS INC	665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	233.9	<u>35</u>
Riverside South Medical Centre	3-665 Earl Armstrong Rd Ottawa ON K1V 2G2	233.9	<u>35</u>

PES - Pesticide Register

A search of the PES database, dated 1988-Jun 2013 has found that there are 2 PES site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
1092465 ONTARIO LTD O/A MONCION'S YOUR INDEP GROCER	671 RIVER RD OTTAWA ON K1V2G2	49.2	<u>47</u>
1092465 ONTARIO LTD O/A MONCION'S YOUR INDEP GROCER	671 RIVER RD OTTAWA ON K1V 2G2	49.2	<u>47</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Feb 2014 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	671 River Road, Gloucester Ottawa ON	49.2	<u>47</u>
PRIVATE RESIDENCE	18 LODGE ROAD FURNACE OIL TANK NEPEAN CITY ON K2C 3H1	194.7	<u>49</u>

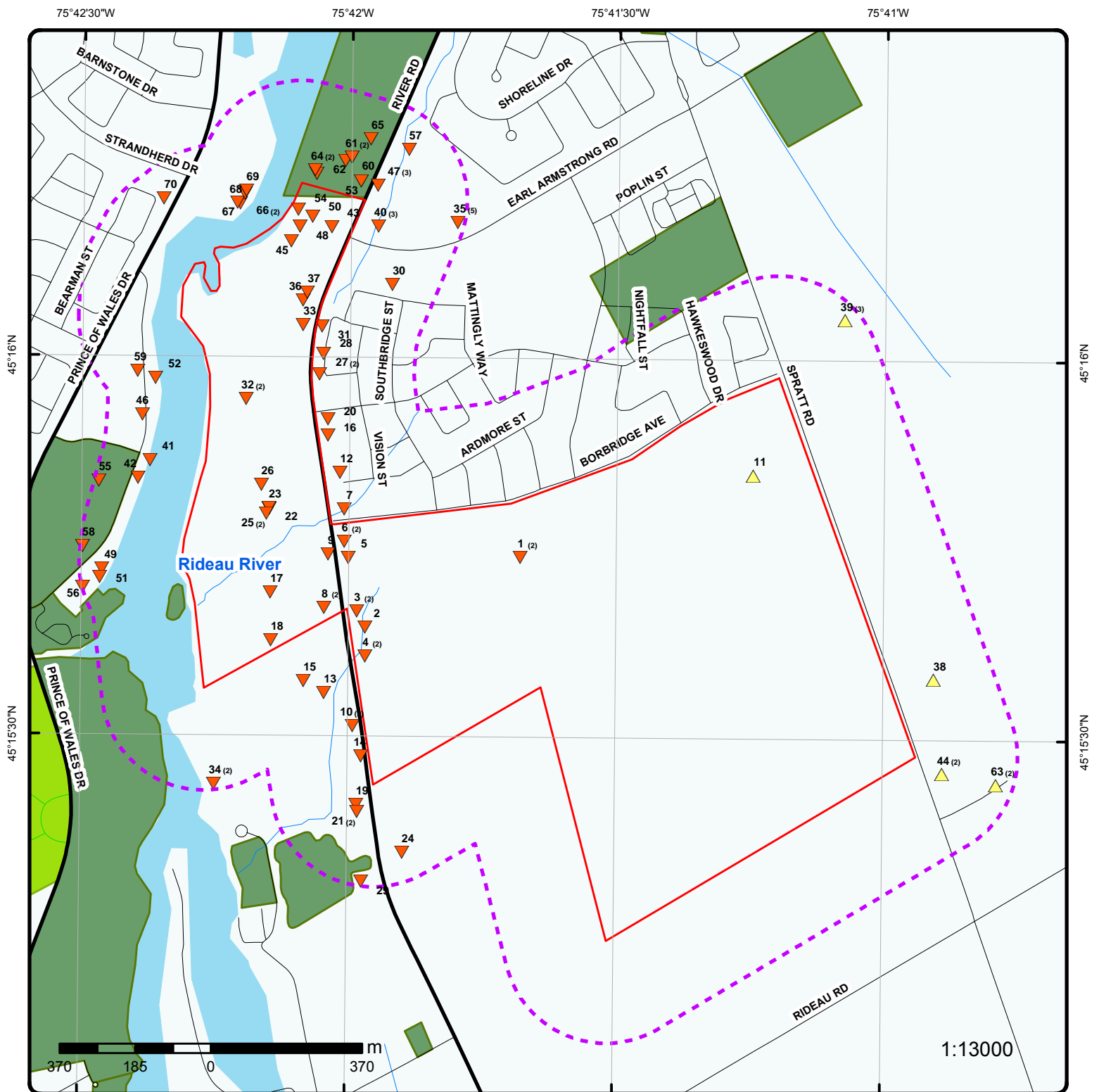
WWIS - Water Well Information System

A search of the WWIS database, dated 1955-Mar 2014 has found that there are 52 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	lot 22 ON	0.0	<u>1</u>
	lot 22 ON	0.0	<u>2</u>
	lot 22 ON	0.0	<u>3</u>
	lot 22 ON	0.0	<u>4</u>
	lot 22 ON	0.0	<u>5</u>
	lot 22 ON	0.0	<u>6</u>
	lot 21 ON	34.9	<u>7</u>
	lot 22 ON	0.0	<u>8</u>
	lot 22 ON	0.0	<u>9</u>
	lot 23 ON	28.3	<u>10</u>
	lot 21 ON	40.5	<u>12</u>
	lot 22 ON	85.9	<u>13</u>
	lot 22 ON	102.2	<u>15</u>
		0.0	<u>17</u>
	MANOTICK ON		
	lot 22 ON	0.0	<u>18</u>
	lot 23 ON	64.1	<u>19</u>
	lot 21 ON	28.7	<u>20</u>
	lot 23 ON	76.6	<u>21</u>
	lot 21 ON	0.0	<u>22</u>
	lot 21 ON	0.0	<u>23</u>
	lot 23 ON	179.5	<u>24</u>
	lot 21 ON	0.0	<u>25</u>
	lot 21 ON	0.0	<u>26</u>
	lot 21 ON	19.6	<u>27</u>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	lot 21 ON	26.5	<u>28</u>
	lot 23 ON	237.3	<u>29</u>
	lot 21 ON	0.0	<u>32</u>
	lot 20 ON	0.0	<u>33</u>
	lot 22 ON	233.5	<u>34</u>
	lot 20 ON	0.0	<u>36</u>
	lot 22 con 1 ON	213.5	<u>39</u>
	lot 22 con 1 ON	213.5	<u>39</u>
	lot 22 con 1 ON	213.5	<u>39</u>
	lot 10 con 1 ON	131.5	<u>41</u>
	lot 10 con 1 OTTAWA ON	147.3	<u>42</u>
	lot 20 ON	0.0	<u>43</u>
	lot 25 con 1 ON	76.5	<u>44</u>
	lot 11 con 1 MANOTICK ON	163.3	<u>46</u>
	lot 10 con 1 OTTAWA ON	202.2	<u>51</u>
	lot 11 con 1 OTTAWA ON	130.5	<u>52</u>
	lot 20 con 1 GLOUCESTER ON	0.0	<u>54</u>
	lot 10 con 1 ON	248.6	<u>56</u>
	lot 20 ON	164.6	<u>57</u>
	lot 10 con 1 ON	245.1	<u>58</u>
	lot 11 con 1 OTTAWA ON	162.9	<u>59</u>
	lot 20 ON	93.2	<u>61</u>
	lot 25 con 1 ON	208.0	<u>63</u>
	lot 25 con 1 ON	208.0	<u>63</u>

<u>Site</u>	<u>Address</u>	<u>Distance m</u>	<u>Map Key</u>
	lot 20 ON	40.5	<u>64</u>
	lot 11 con 1 NEPEAN ON	91.6	<u>66</u>
	lot 11 con 1 NEPEAN ON	91.6	<u>66</u>
	lot 11 con 1 NEPEAN ON	106.5	<u>68</u>



Map

Order No: 20140829049

Address: River Rd Earl Armstrong Rd, Ottawa, ON

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

75°42'W

75°41'W

45°16'N

45°16'N

45°15'N

45°15'N

360 180 0 360 m

1:14200

Aerial

Order No: 20140829049

Address: River Rd Earl Armstrong Rd, Ottawa, ON

Source: ESRI World Imagery, Updated December 2012

© Ecolog ERIS Ltd

Detail Report

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<u>1</u>	1 of 2	-/0.0	90.1	ON	BORE
<div> <div> Borehole ID: 612019 Use: Drill Method: Easting: 445501.000 Location Accuracy: Elev. Reliability Note: Total Depth m: 91.400002 Township: Lot: Completion Date: 1959-MAR Primary Water Use: </div> <div> Type: Borehole Status: UTM Zone: 18 Northing: 5012322.000 Orig. Ground Elev m: 0 DEM Ground Elev m: 90.500000 Primary Name: Concession: Municipality: Static Water Level: -78.599998 Sec. Water Use: </div> </div>					
<u>1</u>	2 of 2	-/0.0	90.1	lot 22 ON	WWIS
<div> <div> Well ID: 1501673 Concession: County: OTTAWA-CARLETON Easting Nad83: 445500.8 Zone: 18 Primary Water Use: Domestic Sec. Water Use: Pump Rate: 4 GPM Flow Rate: Specific Capacity: Construction Method: Cable Tool Elevation (m): 90.52 Depth to Bedrock: 11 Water Type: FRESH </div> <div> Lot: 022 Concession Name: BF Municipality: GLOUCESTER TOWNSHIP Northing Nad83: 5012322 Utm Reliability: margin of error : 100 m - 300 m Construction Date: 03-MAR-59 Well Depth: 52 ft Static Water Level: 19 ft Clear/Cloudy: CLEAR Final Well Status: Water Supply Flowing (y/n): N Elevation Reliability: Overburden/Bedrock: Bedrock Casing Material: FRESH, MINERIAL </div> </div> <div> <div> --- Details --- Thickness: Material Colour: PREVIOUSLY DUG + Thickness: Material Colour: LIMESTONE </div> <div> Original Depth: 11 ft Material: 11 ft Original Depth: 52 ft Material: 41 ft </div> </div>					
<u>2</u>	1 of 1	-/0.0	86.0	lot 22 ON	WWIS
<div> <div> Well ID: 1500328 Concession: County: OTTAWA-CARLETON Easting Nad83: 445120.8 Zone: 18 Primary Water Use: Domestic Sec. Water Use: </div> <div> Lot: 022 Concession Name: BF Municipality: GLOUCESTER TOWNSHIP Northing Nad83: 5012152 Utm Reliability: margin of error : 100 m - 300 m Construction Date: 14-OCT-57 Well Depth: 51 ft </div> </div>					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Pump Rate:	5 GPM			Static Water Level:	16 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	88.16			Elevation Reliability:	
Depth to Bedrock:	46			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	46 ft
Material Colour:	CLAY			Material:	46 ft
+					
Thickness:				Original Depth:	51 ft
Material Colour:	LIMESTONE			Material:	5 ft

3	1 of 2	-/0.0	86.0	ON	BORE
Borehole ID:	612015			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	445101.000			Northing:	5012192.000
Location Accuracy:				Orig. Ground Elev m:	89.599998
Elev. Reliability Note:				DEM Ground Elev m:	88.699997
Total Depth m:	15.800000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1957-NOV			Static Water Level:	-3.000000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389817			Top Depth m:	0
Bottom Depth m:	14			Stratum Desc:	CLAY.
+					
Stratum ID:	218389818			Top Depth m:	14
Bottom Depth m:	15.800000			Stratum Desc:	LIMESTONE. 0005200094LE AT 304.0 FEET.TE,SAND. BLACK. 00080CK. SEISMIC VELOCITY =

3	2 of 2	-/0.0	86.0	lot 22 ON	WWIS
Well ID:	1500330			Lot:	022
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445100.8			Northing Nad83:	5012192
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	14-NOV-57
Sec. Water Use:				Well Depth:	52 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):	88.67			Elevation Reliability:	
Depth to Bedrock:	46			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	52 ft
Material Colour:	LIMESTONE			Material:	6 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<div> <div>+</div> <div> <div>Thickness:</div> <div>Material Colour:</div> </div> <div>CLAY</div> <div> <div>Original Depth:</div> <div>Material:</div> </div> <div>46 ft</div> <div>46 ft</div> </div>					
4	1 of 2	-/0.0	86.5	ON	BORE
<div> <div>Borehole ID:</div> <div>612011</div> <div>Type:</div> <div>Borehole</div> <div>Use:</div> <div>Status:</div> <div>Drill Method:</div> <div>UTM Zone:</div> <div>18</div> <div>Easting:</div> <div>445121.000</div> <div>Northing:</div> <div>5012082.000</div> <div>Location Accuracy:</div> <div>Orig. Ground Elev m:</div> <div>88.400002</div> <div>Elev. Reliability Note:</div> <div>DEM Ground Elev m:</div> <div>88.099998</div> <div>Total Depth m:</div> <div>15.800000</div> <div>Primary Name:</div> <div>Township:</div> <div>Concession:</div> <div>Lot:</div> <div>Municipality:</div> <div>Completion Date:</div> <div>1957-OCT</div> <div>Static Water Level:</div> <div>Primary Water Use:</div> <div>Sec. Water Use:</div> </div>					
--- Details ---					
<div> <div>Stratum ID:</div> <div>218389808</div> <div>Top Depth m:</div> <div>0</div> <div>Bottom Depth m:</div> <div>14</div> <div>Stratum Desc:</div> <div>CLAY.</div> </div>					
+					
<div> <div>Stratum ID:</div> <div>218389809</div> <div>Top Depth m:</div> <div>14</div> <div>Bottom Depth m:</div> <div>15.800000</div> <div>Stratum Desc:</div> <div>LIMESTONE. 00052Y = 1100. UNSPECIFIED. SEISMIC VELOCITY = 4000. BEDROCK. SEISMIC VELOCITY =</div> </div>					
4	2 of 2	-/0.0	86.5	lot 22 ON	WWIS
<div> <div>Well ID:</div> <div>1500329</div> <div>Lot:</div> <div>022</div> <div>Concession:</div> <div>Concession Name:</div> <div>BF</div> <div>County:</div> <div>OTTAWA-CARLETON</div> <div>Municipality:</div> <div>GLOUCESTER TOWNSHIP</div> <div>Easting Nad83:</div> <div>445120.8</div> <div>Northing Nad83:</div> <div>5012082</div> <div>Zone:</div> <div>18</div> <div>Utm Reliability:</div> <div>margin of error : 100 m - 300 m</div> <div>Primary Water Use:</div> <div>Domestic</div> <div>Construction Date:</div> <div>18-OCT-57</div> <div>Sec. Water Use:</div> <div>Well Depth:</div> <div>52 ft</div> <div>Pump Rate:</div> <div>4 GPM</div> <div>Static Water Level:</div> <div>16 ft</div> <div>Flow Rate:</div> <div>Clear/Cloudy:</div> <div>CLEAR</div> <div>Specific Capacity:</div> <div>Final Well Status:</div> <div>Water Supply</div> <div>Construction Method:</div> <div>Cable Tool</div> <div>Flowing (y/n):</div> <div>N</div> <div>Elevation (m):</div> <div>88.13</div> <div>Elevation Reliability:</div> <div>Overburden/Bedrock:</div> <div>Bedrock</div> <div>Depth to Bedrock:</div> <div>46</div> <div>Casing Material:</div> <div>FRESH, MINERIAL</div> <div>Water Type:</div> <div>FRESH</div> </div>					
--- Details ---					
<div> <div>Thickness:</div> <div>Original Depth:</div> <div>46 ft</div> <div>Material Colour:</div> <div>CLAY</div> <div>Material:</div> <div>46 ft</div> </div>					
+					
<div> <div>Thickness:</div> <div>Original Depth:</div> <div>52 ft</div> <div>Material Colour:</div> <div>LIMESTONE</div> <div>Material:</div> <div>6 ft</div> </div>					
5	1 of 1	-/0.0	87.0	lot 22 ON	WWIS
<div> <div>Well ID:</div> <div>1500327</div> <div>Lot:</div> <div>022</div> <div>Concession:</div> <div>Concession Name:</div> <div>BF</div> </div>					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445080.8			Northing Nad83:	5012322
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	18-JUL-57
Sec. Water Use:				Well Depth:	51 ft
Pump Rate:	5 GPM			Static Water Level:	11 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	88.77			Elevation Reliability:	
Depth to Bedrock:	46			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	GREY			Original Depth:	51 ft
Material Colour:	LIMESTONE			Material:	5 ft
+					
Thickness:				Original Depth:	46 ft
Material Colour:	CLAY			Material:	46 ft

<u>6</u>	1 of 2	-/0.0	86.0	ON	BORE
Borehole ID:	612022			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	445071.000			Northing:	5012362.000
Location Accuracy:				Orig. Ground Elev m:	88.699997
Elev. Reliability Note:				DEM Ground Elev m:	88.900002
Total Depth m:	15.500000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1957-JUL			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389833			Top Depth m:	0
Bottom Depth m:	14			Stratum Desc:	CLAY.
+					
Stratum ID:	218389834			Top Depth m:	14
Bottom Depth m:	15.500000			Stratum Desc:	LIMESTONE. GREY. 000510.0 FEET.BEDROCK,LIMESTONE. NE. 00080CK. SEISMIC VELOCITY =

<u>6</u>	2 of 2	-/0.0	86.0	lot 22 ON	WWIS
Well ID:	1500326			Lot:	022
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445070.8			Northing Nad83:	5012362
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	06-JUL-57
Sec. Water Use:				Well Depth:	51 ft
Pump Rate:	5 GPM			Static Water Level:	11 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	88.94			Elevation Reliability:	
Depth to Bedrock:	46			Overburden/Bedrock:	Bedrock

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	46 ft
Material Colour:	CLAY			Material:	46 ft
+					
Thickness:	GREY			Original Depth:	51 ft
Material Colour:	LIMESTONE			Material:	5 ft
8	1 of 2	-/0.0	86.0	ON	BORE
Borehole ID:	612017			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	445021.000			Northing:	5012202.000
Location Accuracy:				Orig. Ground Elev m:	89.300003
Elev. Reliability Note:				DEM Ground Elev m:	87.800003
Total Depth m:	36.599998			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1961-JUN			Static Water Level:	-3.400000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389821			Top Depth m:	0
Bottom Depth m:	26.799999			Stratum Desc:	CLAY,BOULDERS.
+					
Stratum ID:	218389822			Top Depth m:	26.799999
Bottom Depth m:	36.599998			Stratum Desc:	LIMESTONE. GREY. 00120304.0 FEET.TE,SAND. BLACK. 00080CK. SEISMIC VELOCITY = 14500.
8	2 of 2	-/0.0	86.0	lot 22 ON	WWIS
Well ID:	1500332			Lot:	022
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445020.8			Northing Nad83:	5012202
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	06-JUN-61
Sec. Water Use:				Well Depth:	120 ft
Pump Rate:	10 GPM			Static Water Level:	25 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	87.82			Elevation Reliability:	
Depth to Bedrock:	88			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	88 ft
Material Colour:	CLAY, BOULDERS			Material:	88 ft
+					
Thickness:	GREY			Original Depth:	120 ft
Material Colour:	LIMESTONE			Material:	32 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
9	1 of 1	-/0.0	86.0	lot 22 ON	WWIS
Well ID:	1510831			Lot:	022
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445030.8			Northing Nad83:	5012332
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	15-JUL-70
Sec. Water Use:				Well Depth:	94 ft
Pump Rate:	9 GPM			Static Water Level:	20 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	88.75			Elevation Reliability:	
Depth to Bedrock:	72			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	GREY			Original Depth:	94 ft
Material Colour:	SANDSTONE			Material:	22 ft
+					
Thickness:	BROWN			Original Depth:	55 ft
Material Colour:	CLAY			Material:	55 ft
+					
Thickness:	GREY			Original Depth:	72 ft
Material Colour:	MEDIUM SAND, BOULDERS			Material:	17 ft
11	1 of 1	-/0.0	94.0	ON	BORE
Borehole ID:	612029			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	446071.000			Northing:	5012522.000
Location Accuracy:				Orig. Ground Elev m:	89.900002
Elev. Reliability Note:				DEM Ground Elev m:	93.400002
Total Depth m:	-999.000000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:				Static Water Level:	6.400000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389858			Top Depth m:	0
Bottom Depth m:	10.700000			Stratum Desc:	TILL.
+					
Stratum ID:	218389859			Top Depth m:	10.700000
Bottom Depth m:				Stratum Desc:	GRAVEL,SAND. WATER STABLE AT 274.0 FEET.E AT 258.0 FEET.CLAY,BOULDERS. BEDROCK,LIMESTONE.
17	1 of 1	-/0.0	84.5	MANOTICK ON	WWIS
Well ID:	7182221			Lot:	
Concession:				Concession Name:	
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444890			Northing Nad83:	5012239
24	erisinfo.com EcoLog ERIS Ltd.				Order #: 20140829049
	Phase I Environmental Site Assessment River Rd Earl Armstrong Rd Ottawa ON				

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:				Construction Date:	25-MAY-12
Sec. Water Use:				Well Depth:	ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:	Digging			Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	
--- Details ---					
Thickness:				Original Depth:	ft
Material Colour:				Material:	ft

18	1 of 1	-/0.0	85.9	lot 22 ON	WWIS
Well ID:	1500333			Lot:	022
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444890.8			Northing Nad83:	5012122
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Not Used			Construction Date:	17-AUG-61
Sec. Water Use:				Well Depth:	42 ft
Pump Rate:	127 GPM			Static Water Level:	4 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Test Hole
Construction Method:	Diamond			Flowing (y/n):	N
Elevation (m):	88.03			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	Overburden
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:				Original Depth:	35 ft
Material Colour:	MEDIUM SAND, CLAY, BOULDERS			Material:	35 ft
+					
Thickness:				Original Depth:	42 ft
Material Colour:	GRAVEL, MEDIUM SAND			Material:	7 ft

22	1 of 1	-/0.0	86.0	lot 21 ON	WWIS
Well ID:	1533456			Lot:	021
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444887.3			Northing Nad83:	5012443
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	07-NOV-02
Sec. Water Use:				Well Depth:	181 ft
Pump Rate:	10 GPM			Static Water Level:	56 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	88			Elevation Reliability:	
Depth to Bedrock:	58			Overburden/Bedrock:	Bedrock
Water Type:	Not stated			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	GREY			Original Depth:	148 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Material Colour:	LIMESTONE			Material:	90 ft
+					
Thickness:	GREY			Original Depth:	181 ft
Material Colour:	SANDSTONE			Material:	33 ft
+					
Thickness:	BLUE			Original Depth:	58 ft
Material Colour:	CLAY			Material:	40 ft
+					
Thickness:	BROWN			Original Depth:	18 ft
Material Colour:	CLAY, HARD			Material:	18 ft

23	1 of 1	-/0.0	86.1	lot 21 ON	WWIS
Well ID:	1533454			Lot:	021
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444886.3			Northing Nad83:	5012445
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	07-NOV-02
Sec. Water Use:				Well Depth:	101 ft
Pump Rate:	30 GPM			Static Water Level:	13 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	88.01			Elevation Reliability:	
Depth to Bedrock:	58			Overburden/Bedrock:	Bedrock
Water Type:	Not stated			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	58 ft
Material Colour:	CLAY			Material:	58 ft
+					
Thickness:	GREY			Original Depth:	101 ft
Material Colour:	LIMESTONE			Material:	43 ft

25	1 of 2	-/0.0	86.0	ON	BORE
Borehole ID:	612025			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	444881.000			Northing:	5012432.000
Location Accuracy:				Orig. Ground Elev m:	88.400002
Elev. Reliability Note:				DEM Ground Elev m:	87.800003
Total Depth m:	75.599998			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1971-MAY			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389842			Top Depth m:	0
Bottom Depth m:	6.100000			Stratum Desc:	CLAY. BROWN.
+					
Stratum ID:	218389843			Top Depth m:	6.100000
Bottom Depth m:	18.299999			Stratum Desc:	CLAY. BLUE.
+					
Stratum ID:	218389844			Top Depth m:	18.299999

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth m:	20.100000			Stratum Desc:	HARDPAN,BOULDERS. BROWN.
+					
Stratum ID:	218389845			Top Depth m:	20.100000
Bottom Depth m:	38.099998			Stratum Desc:	LIMESTONE. BLUE.
+					
Stratum ID:	218389846			Top Depth m:	38.099998
Bottom Depth m:	75.599998			Stratum Desc:	SANDSTONE,QUARTZITE.GREY. 0020000223BEDROCK. SEISMIC VELOCITY = 17000. 200135076 BR

25	2 of 2	-/0.0	86.0	lot 21 ON	WWIS
Well ID:	1511327			Lot:	021
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444880.8			Northing Nad83:	5012432
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	17-MAY-71
Sec. Water Use:				Well Depth:	248 ft
Pump Rate:	4 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):	87.81			Elevation Reliability:	
Depth to Bedrock:	66			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BLUE			Original Depth:	60 ft
Material Colour:	CLAY			Material:	40 ft
+					
Thickness:	GREY			Original Depth:	248 ft
Material Colour:	SANDSTONE, QUARTZITE			Material:	123 ft
+					
Thickness:	BROWN			Original Depth:	66 ft
Material Colour:	HARDPAN, BOULDERS			Material:	6 ft
+					
Thickness:	BROWN			Original Depth:	20 ft
Material Colour:	CLAY			Material:	20 ft
+					
Thickness:	BLUE			Original Depth:	125 ft
Material Colour:	LIMESTONE			Material:	59 ft

26	1 of 1	-/0.0	86.6	lot 21 ON	WWIS
Well ID:	1533455			Lot:	021
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444868.3			Northing Nad83:	5012502
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Not Used			Construction Date:	07-NOV-02
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Quality
Construction Method:	Not Known			Flowing (y/n):	
Elevation (m):	88.16			Elevation Reliability:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Depth to Bedrock: Water Type:			Overburden/Bedrock: No formation data Casing Material:		
32	1 of 2	-/0.0	85.7	ON	BORE
Borehole ID: 612045		Type: Borehole			
Use:		Status:			
Drill Method:		UTM Zone: 18			
Easting: 444831.000		Northing: 5012712.000			
Location Accuracy:		Orig. Ground Elev m: 83.800003			
Elev. Reliability Note:		DEM Ground Elev m: 84.599998			
Total Depth m: 64.300003		Primary Name:			
Township:		Concession:			
Lot:		Municipality:			
Completion Date: 1963-AUG		Static Water Level:			
Primary Water Use:		Sec. Water Use:			
--- Details ---					
Stratum ID: 218389901		Top Depth m: 0			
Bottom Depth m: 18.299999		Stratum Desc: CLAY.			
+					
Stratum ID: 218389902		Top Depth m: 18.299999			
Bottom Depth m: 19.500000		Stratum Desc: GRAVEL.			
+					
Stratum ID: 218389903		Top Depth m: 19.500000			
Bottom Depth m: 29.900000		Stratum Desc: LIMESTONE.			
+					
Stratum ID: 218389904		Top Depth m: 29.900000			
Bottom Depth m: 62.500000		Stratum Desc: SANDSTONE.			
+					
Stratum ID: 218389905		Top Depth m: 62.500000			
Bottom Depth m: 64.300003		Stratum Desc: LIMESTONE. 00140STONE. 0. BEDROCK. SEISMIC VELOCITY = 18500. BEDROCK. SEISMIC VELOC			
32	2 of 2	-/0.0	85.7	lot 21 ON	WWIS
Well ID: 1500324		Lot: 021			
Concession:		Concession Name: BF			
County: OTTAWA-CARLETON		Municipality: GLOUCESTER TOWNSHIP			
Easting Nad83: 444830.8		Northing Nad83: 5012712			
Zone: 18		Utm Reliability: margin of error : 100 m - 300 m			
Primary Water Use: Domestic		Construction Date: 23-AUG-63			
Sec. Water Use:		Well Depth: 211 ft			
Pump Rate: 10 GPM		Static Water Level: 17 ft			
Flow Rate:		Clear/Cloudy: CLOUDY			
Specific Capacity:		Final Well Status: Water Supply			
Construction Method: Cable Tool		Flowing (y/n): N			
Elevation (m): 84.56		Elevation Reliability:			
Depth to Bedrock: 64		Overburden/Bedrock: Bedrock			
Water Type: SULPHUR		Casing Material: FRESH, MINERIAL			
--- Details ---					
Thickness:		Original Depth: 60 ft			
Material Colour: CLAY		Material: 60 ft			
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:				Original Depth:	64 ft
Material Colour:	GRAVEL			Material:	4 ft
+					
Thickness:				Original Depth:	205 ft
Material Colour:	SANDSTONE			Material:	107 ft
+					
Thickness:				Original Depth:	211 ft
Material Colour:	LIMESTONE			Material:	6 ft
+					
Thickness:				Original Depth:	98 ft
Material Colour:	LIMESTONE			Material:	34 ft

33	1 of 1	-/0.0	90.0	lot 20 ON	WWIS
Well ID:	1500317			Lot:	020
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444970.8			Northing Nad83:	5012892
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Livestock			Construction Date:	30-JUN-50
Sec. Water Use:	Domestic			Well Depth:	72 ft
Pump Rate:	6 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):	88.77			Elevation Reliability:	
Depth to Bedrock:	60			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	30 ft
Material Colour:	BOULDERS, CLAY			Material:	30 ft
+					
Thickness:	GREY			Original Depth:	50 ft
Material Colour:	MEDIUM SAND			Material:	20 ft
+					
Thickness:	GREY			Original Depth:	72 ft
Material Colour:	LIMESTONE			Material:	12 ft
+					
Thickness:				Original Depth:	60 ft
Material Colour:	GRAVEL			Material:	10 ft

36	1 of 1	-/0.0	90.0	lot 20 ON	WWIS
Well ID:	1500319			Lot:	020
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444970.8			Northing Nad83:	5012952
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	25-OCT-56
Sec. Water Use:				Well Depth:	80 ft
Pump Rate:	5 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):	89.11			Elevation Reliability:	
Depth to Bedrock:	71			Overburden/Bedrock:	Bedrock

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	80 ft
Material Colour:	SANDSTONE			Material:	9 ft
+					
Thickness:	BLUE			Original Depth:	65 ft
Material Colour:	CLAY			Material:	19 ft
+					
Thickness:				Original Depth:	46 ft
Material Colour:	HARDPAN			Material:	6 ft
+					
Thickness:	BLUE			Original Depth:	40 ft
Material Colour:	CLAY			Material:	40 ft
+					
Thickness:				Original Depth:	71 ft
Material Colour:	GRAVEL			Material:	6 ft

37	1 of 1	-/0.0	90.0	ON	BORE
Borehole ID:	612055			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	444981.000			Northing:	5012972.000
Location Accuracy:				Orig. Ground Elev m:	89.900002
Elev. Reliability Note:				DEM Ground Elev m:	89.500000
Total Depth m:	-999.000000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:				Static Water Level:	6.400000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389934			Top Depth m:	18.900000
Bottom Depth m:				Stratum Desc:	BEDROCK,SANDSTONE. SEISMIC VELOCITY = 17400. BEDROCK. SEISMIC VELOCITY = 17000. 200135076
+					
Stratum ID:	218389932			Top Depth m:	12.200000
Bottom Depth m:	14			Stratum Desc:	GRAVEL. WATER STABLE AT 274.0 FEET.
+					
Stratum ID:	218389933			Top Depth m:	14
Bottom Depth m:	18.900000			Stratum Desc:	TILL.
+					
Stratum ID:	218389930			Top Depth m:	0
Bottom Depth m:	6.100000			Stratum Desc:	CLAY.
+					
Stratum ID:	218389931			Top Depth m:	6.100000
Bottom Depth m:	12.200000			Stratum Desc:	SAND,BOULDERS.

43	1 of 1	-/0.0	90.0	lot 20 ON	WWIS
Well ID:	1500320			Lot:	020
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Easting Nad83:	445040.8			Northing Nad83:	5013132
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Public			Construction Date:	12-AUG-63
Sec. Water Use:				Well Depth:	102 ft
Pump Rate:	15 GPM			Static Water Level:	36 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	90.21			Elevation Reliability:	
Depth to Bedrock:	62			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	20 ft
Material Colour:	CLAY			Material:	20 ft
+					
Thickness:				Original Depth:	46 ft
Material Colour:	GRAVEL			Material:	6 ft
+					
Thickness:				Original Depth:	62 ft
Material Colour:	HARDPAN, BOULDERS			Material:	16 ft
+					
Thickness:				Original Depth:	102 ft
Material Colour:	SANDSTONE			Material:	40 ft
+					
Thickness:				Original Depth:	40 ft
Material Colour:	MEDIUM SAND, BOULDERS			Material:	20 ft
--- Details ---					
Stratum ID:	218582497			Top Depth m:	0
Bottom Depth m:	0.300000			Stratum Desc:	Dark Brown Topsoil Sand
+					
Stratum ID:	218582498			Top Depth m:	0.300000
Bottom Depth m:	6			Stratum Desc:	Grey-Brown Weathered Crust Silty Clay
+					
Stratum ID:	218582499			Top Depth m:	6
Bottom Depth m:	7			Stratum Desc:	Grey Silty Clay
+					
Stratum ID:	218582500			Top Depth m:	7
Bottom Depth m:	19.200001			Stratum Desc:	Grey Till sand silt With: Cl W Gr W Cob W Blds Numerous large Sandstone BR fragments with depth
+					
Stratum ID:	218582501			Top Depth m:	19.200001
Bottom Depth m:	23.299999			Stratum Desc:	White Bedrock Sandstone Faintly

45

1 of 1

-0.0

87.9

ON

BORE

Borehole ID: 804909
 Use: Geotechnical/Geological Investigation
 Drill Method: Hollow stem auger
 Easting: 444942.108
 Location Accuracy:
 Elev. Reliability Note:
 Total Depth m: 23.299999
 Township:
 Lot:
 Completion Date: 1990-JUN-6
 Primary Water Use:

Type: Borehole
 Status:
 UTM Zone: 18
 Northing: 5013097.213
 Orig. Ground Elev m: 89
 DEM Ground Elev m: 87.199997
 Primary Name: BH.4
 Concession:
 Municipality:
 Static Water Level:
 Sec. Water Use:

--- Details ---

Stratum ID:	218582497	Top Depth m:	0
Bottom Depth m:	0.300000	Stratum Desc:	Dark Brown Topsoil Sand
+			
Stratum ID:	218582498	Top Depth m:	0.300000
Bottom Depth m:	6	Stratum Desc:	Grey-Brown Weathered Crust Silty Clay
+			
Stratum ID:	218582499	Top Depth m:	6
Bottom Depth m:	7	Stratum Desc:	Grey Silty Clay
+			
Stratum ID:	218582500	Top Depth m:	7
Bottom Depth m:	19.200001	Stratum Desc:	Grey Till sand silt With: Cl W Gr W Cob W Blds Numerous large Sandstone BR fragments with depth
+			
Stratum ID:	218582501	Top Depth m:	19.200001
Bottom Depth m:	23.299999	Stratum Desc:	White Bedrock Sandstone Faintly

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
					Wethered to Fresh, (NEPEAN FORMATION)
48	1 of 1	-/0.0	87.0	ON	BORE
Borehole ID: 804901		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status:			
Drill Method: Hollow stem auger		UTM Zone: 18			
Easting: 444963.121		Northing: 5013133.317			
Location Accuracy:		Orig. Ground Elev m: 89.300003			
Elev. Reliability Note:		DEM Ground Elev m: 86.400002			
Total Depth m: 30		Primary Name: BH.2			
Township:		Concession:			
Lot:		Municipality:			
Completion Date: 1990-MAY-31		Static Water Level: 4.300000			
Primary Water Use:		Sec. Water Use:			
--- Details ---					
Stratum ID: 218582459		Top Depth m: 0			
Bottom Depth m: 0.300000		Stratum Desc: Dark Brown Topsoil Sand			
+					
Stratum ID: 218582460		Top Depth m: 0.300000			
Bottom Depth m: 1.500000		Stratum Desc: Brown Loose sand silt			
+					
Stratum ID: 218582461		Top Depth m: 1.500000			
Bottom Depth m: 6.700000		Stratum Desc: Grey-Brown Very Stiff to Stiff Weathered Crust Silty Clay			
+					
Stratum ID: 218582462		Top Depth m: 6.700000			
Bottom Depth m: 9.300000		Stratum Desc: Grey Firm to Stiff Silty Clay Trace: Gr			
+					
Stratum ID: 218582463		Top Depth m: 9.300000			
Bottom Depth m: 24.700001		Stratum Desc: Grey Loose to Very Dense Till sand silt With: Cl W Gr W Cob W Blds			
+					
Stratum ID: 218582464		Top Depth m: 24.700001			
Bottom Depth m: 30		Stratum Desc: White Bedrock Sandstone Weathered to Fresh, (NEPEAN FORMATION)			

50

1 of 1

-/0.0

89.5

ON

BORE

Borehole ID:

807625

Use:

Geotechnical/Geological Investigation

Drill Method:

Other Method

Easting:

444993.811

Location Accuracy:

Elev. Reliability Note:

Total Depth m:

4.600000

Township:

Lot:

Completion Date:

1999-NOV-5

Primary Water Use:

--- Details ---

Stratum ID:

218593562

Bottom Depth m:

0.100000

+

Type:

Borehole

Status:

UTM Zone:

18

Northing:

5013157.243

Orig. Ground Elev m:

100.400002

DEM Ground Elev m:

89.400002

Primary Name:

TP 99-101

Concession:

Municipality:

Static Water Level:

Sec. Water Use:

Top Depth m:

0

Stratum Desc:

Topsoil

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Stratum ID:	218593563			Top Depth m:	0.100000
Bottom Depth m:	0.500000			Stratum Desc:	Dark Brown Silt - Sand With: Org M
+					
Stratum ID:	218593564			Top Depth m:	0.500000
Bottom Depth m:	0.900000			Stratum Desc:	Light Brown Sand Trace: Si
+					
Stratum ID:	218593565			Top Depth m:	0.900000
Bottom Depth m:	1.500000			Stratum Desc:	Grey Silt - Sand
+					
Stratum ID:	218593566			Top Depth m:	1.500000
Bottom Depth m:	4.600000			Stratum Desc:	Grey-Brown Very Stiff Silty Clay

54	1 of 1	-/0.0	84.4	lot 20 con 1 GLOUCESTER ON	WWIS
Well ID:	7156870			Lot:	020
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444959			Northing Nad83:	5013175
Zone:	18			Utm Reliability:	margin of error : 10 - 30 m
Primary Water Use:				Construction Date:	12-AUG-10
Sec. Water Use:				Well Depth:	ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:				Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	
--- Details ---					
Thickness:				Original Depth:	ft
Material Colour:				Material:	ft

7	1 of 1	WNW/34.9	86.0	lot 21 ON	WWIS
Well ID:	1516160			Lot:	021
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445070.8			Northing Nad83:	5012442
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	04-AUG-77
Sec. Water Use:				Well Depth:	175 ft
Pump Rate:	15 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):	87.31			Elevation Reliability:	
Depth to Bedrock:	70			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BROWN			Original Depth:	9 ft
Material Colour:	CLAY, PACKED			Material:	9 ft
+					
Thickness:	BLUE			Original Depth:	38 ft
Material Colour:	CLAY, SOFT			Material:	29 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
+					
Thickness:	GREY			Original Depth:	70 ft
Material Colour:	SAND, GRAVEL, BOULDERS			Material:	32 ft
+					
Thickness:	GREY			Original Depth:	175 ft
Material Colour:	SANDSTONE, HARD			Material:	105 ft
10	1 of 2	WSW/28.3	88.3	ON	BORE
Borehole ID:	612003			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	445091.000			Northing:	5011912.000
Location Accuracy:				Orig. Ground Elev m:	88.400002
Elev. Reliability Note:				DEM Ground Elev m:	88.400002
Total Depth m:	25.900000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1961-DEC			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389786			Top Depth m:	0
Bottom Depth m:	6.400000			Stratum Desc:	CLAY. BLUE.
+					
Stratum ID:	218389787			Top Depth m:	6.400000
Bottom Depth m:	14.900000			Stratum Desc:	SAND,BOULDERS,GRAVEL
+					
Stratum ID:	218389788			Top Depth m:	14.900000
Bottom Depth m:	25.900000			Stratum Desc:	SANDSTONE. 00082STONE,SAND. WHITE. SANDSTONE. WHITE. 00086 = 19500. BEDROCK. SEISMI
10	2 of 2	WSW/28.3	88.3	lot 23 ON	WWIS
Well ID:	1500335			Lot:	023
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445090.8			Northing Nad83:	5011912
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	01-DEC-61
Sec. Water Use:				Well Depth:	85 ft
Pump Rate:	5 GPM			Static Water Level:	23 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	88.37			Elevation Reliability:	
Depth to Bedrock:	49			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BLUE			Original Depth:	21 ft
Material Colour:	CLAY			Material:	21 ft
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:				Original Depth:	49 ft
Material Colour:	MEDIUM SAND, BOULDERS, GRAVEL			Material:	28 ft
+					
Thickness:				Original Depth:	85 ft
Material Colour:	SANDSTONE			Material:	36 ft

12	1 of 1	WNW/40.5	87.7	lot 21 ON	WWIS
Well ID:	1500325			Lot:	021
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445060.8			Northing Nad83:	5012532
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	22-JUL-67
Sec. Water Use:				Well Depth:	85 ft
Pump Rate:	30 GPM			Static Water Level:	15 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	88.73			Elevation Reliability:	
Depth to Bedrock:	60			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	50 ft
Material Colour:	CLAY, BOULDERS			Material:	35 ft
+					
Thickness:				Original Depth:	60 ft
Material Colour:	MEDIUM SAND, BOULDERS			Material:	10 ft
+					
Thickness:	GREY			Original Depth:	85 ft
Material Colour:	LIMESTONE			Material:	25 ft
+					
Thickness:				Original Depth:	15 ft
Material Colour:	CLAY			Material:	15 ft

13	1 of 1	WSW/85.9	85.0	lot 22 ON	WWIS
Well ID:	1500331			Lot:	022
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445020.8			Northing Nad83:	5011992
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Livestock			Construction Date:	20-DEC-57
Sec. Water Use:	Domestic			Well Depth:	88 ft
Pump Rate:	5 GPM			Static Water Level:	20 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	87.19			Elevation Reliability:	
Depth to Bedrock:	64			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:				Original Depth:	88 ft
Material Colour:	SANDSTONE			Material:	24 ft
+					
Thickness:				Original Depth:	26 ft
Material Colour:	PREVIOUSLY DUG			Material:	26 ft
+					
Thickness:				Original Depth:	64 ft
Material Colour:	BOULDERS, GRAVEL			Material:	38 ft
14	1 of 1	SW/18.6	90.0	3704 Prince of Wales Dr. Ottawa ON	EHS
Order No.:	20060911023				
Report Date:	9/19/2006				
Report Type:	Custom Report				
Search Radius (km):	0.25				
Addit. Info Ordered:					
15	1 of 1	WSW/102.2	85.9	lot 22 ON	WWIS
Well ID:	1510695			Lot:	022
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444970.8			Northing Nad83:	5012022
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Not Used			Construction Date:	15-AUG-61
Sec. Water Use:				Well Depth:	42 ft
Pump Rate:	20 GPM			Static Water Level:	4 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Test Hole
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	88.46			Elevation Reliability:	
Depth to Bedrock:	27			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	2 ft
Material Colour:	TOPSOIL			Material:	2 ft
+					
Thickness:				Original Depth:	27 ft
Material Colour:	CLAY, BOULDERS, GRAVEL			Material:	25 ft
+					
Thickness:				Original Depth:	42 ft
Material Colour:	DOLOMITE			Material:	15 ft
16	1 of 1	NW/23.4	89.7	ON	BORE
Borehole ID:	612036			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	445031.000			Northing:	5012622.000
Location Accuracy:				Orig. Ground Elev m:	88.400002

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Elev. Reliability Note: Total Depth m: -999.000000 Township: Lot: Completion Date: Primary Water Use:				DEM Ground Elev m: 89.199997 Primary Name: Concession: Municipality: Static Water Level: 4.900000 Sec. Water Use:	
--- Details ---					
Stratum ID:	218389877			Top Depth m:	0
Bottom Depth m:	4.600000			Stratum Desc:	CLAY.
+					
Stratum ID:	218389878			Top Depth m:	4.600000
Bottom Depth m:	15.200000			Stratum Desc:	TILL.
+					
Stratum ID:	218389879			Top Depth m:	15.200000
Bottom Depth m:	24.400000			Stratum Desc:	SAND,BOULDERS. WATER STABLE AT 274.0 FEET.
+					
Stratum ID:	218389880			Top Depth m:	24.400000
Bottom Depth m:				Stratum Desc:	BEDROCK,LIMESTONE. 0006400122LIMESTONE. 0223BEDROCK. SEISMIC VELOCITY = 17000.

19	1 of 1	SW/64.1	88.2	lot 23 ON	WWIS
Well ID: 1514044 Concession: County: OTTAWA-CARLETON Easting Nad83: 445098.8 Zone: 18 Primary Water Use: Domestic Sec. Water Use: Pump Rate: 8 GPM Flow Rate: Specific Capacity: Construction Method: Cable Tool Elevation (m): 87.59 Depth to Bedrock: 40 Water Type: FRESH				Lot: 023 Concession Name: BF Municipality: GLOUCESTER TOWNSHIP Northing Nad83: 5011719 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 12-JAN-74 Well Depth: 75 ft Static Water Level: 8 ft Clear/Cloudy: CLOUDY Final Well Status: Water Supply Flowing (y/n): N Elevation Reliability: Overburden/Bedrock: Bedrock Casing Material: FRESH, MINERIAL	
--- Details ---					
Thickness:	GREY			Original Depth:	75 ft
Material Colour:	LIMESTONE			Material:	35 ft
+					
Thickness:	GREY			Original Depth:	40 ft
Material Colour:	CLAY			Material:	40 ft

20	1 of 1	NW/28.7	90.0	lot 21 ON	WWIS
Well ID: 1513342 Concession: County: OTTAWA-CARLETON Easting Nad83: 445030.8				Lot: 021 Concession Name: BF Municipality: GLOUCESTER TOWNSHIP Northing Nad83: 5012662	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Zone:	18			Utm Reliability:	margin of error : 300 m - 1 km
Primary Water Use:	Domestic			Construction Date:	04-JUL-73
Sec. Water Use:				Well Depth:	272 ft
Pump Rate:	20 GPM			Static Water Level:	14 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	89.22			Elevation Reliability:	
Depth to Bedrock:	73			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	BLUE			Original Depth:	60 ft
Material Colour:	CLAY, BOULDERS			Material:	25 ft
+					
Thickness:	WHITE			Original Depth:	272 ft
Material Colour:	SANDSTONE			Material:	52 ft
+					
Thickness:	GREY			Original Depth:	73 ft
Material Colour:	CLAY, SAND, GRAVEL			Material:	13 ft
+					
Thickness:	BROWN			Original Depth:	35 ft
Material Colour:	BOULDERS			Material:	20 ft
+					
Thickness:	BROWN			Original Depth:	15 ft
Material Colour:	CLAY			Material:	15 ft
+					
Thickness:	GREY			Original Depth:	220 ft
Material Colour:	LIMESTONE			Material:	147 ft
<hr/>					
21	1 of 2	SW/76.6	88.4	ON	BORE
Borehole ID:	611991			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	445101.000			Northing:	5011702.000
Location Accuracy:				Orig. Ground Elev m:	88.400002
Elev. Reliability Note:				DEM Ground Elev m:	87.099998
Total Depth m:	30.500000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1957-AUG			Static Water Level:	-4.900000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389754			Top Depth m:	0
Bottom Depth m:	24.400000			Stratum Desc:	CLAY.
+					
Stratum ID:	218389755			Top Depth m:	24.400000
Bottom Depth m:	30.500000			Stratum Desc:	SANDSTONE. 00100ER STABLE AT 306.0 FEET.BEDROCK,LIMESTONE. UNSPECIFIED. SEISMIC VELOCI

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
21	2 of 2	SW/76.6	88.4	lot 23 ON	WWIS
Well ID:	1500334			Lot:	023
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445100.8			Northing Nad83:	5011702
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	09-AUG-57
Sec. Water Use:				Well Depth:	100 ft
Pump Rate:	5 GPM			Static Water Level:	23 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	87.11			Elevation Reliability:	
Depth to Bedrock:	80			Overburden/Bedrock:	Bedrock
Water Type:	SULPHUR			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	80 ft
Material Colour:	CLAY			Material:	80 ft
+					
Thickness:				Original Depth:	100 ft
Material Colour:	SANDSTONE			Material:	20 ft
24	1 of 1	SSW/179.5	88.0	lot 23 ON	WWIS
Well ID:	1516805			Lot:	023
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445210.8			Northing Nad83:	5011602
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	24-OCT-78
Sec. Water Use:				Well Depth:	84 ft
Pump Rate:	20 GPM			Static Water Level:	15 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	88.08			Elevation Reliability:	
Depth to Bedrock:	43			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	GREY			Original Depth:	43 ft
Material Colour:	CLAY			Material:	43 ft
+					
Thickness:	GREY			Original Depth:	84 ft
Material Colour:	LIMESTONE			Material:	41 ft
27	1 of 2	NW/19.6	90.0	ON	BORE
Borehole ID:	612050			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	445011.000			Northing:	5012772.000

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Location Accuracy: Elev. Reliability Note: Total Depth m: 76.199997 Township: Lot: Completion Date: 1954-AUG Primary Water Use:				Orig. Ground Elev m: 89 DEM Ground Elev m: 89.500000 Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	
--- Details ---					
Stratum ID:	218389916			Top Depth m:	0
Bottom Depth m:	17.400000			Stratum Desc:	CLAY. BLUE.
+					
Stratum ID:	218389917			Top Depth m:	17.400000
Bottom Depth m:	21.299999			Stratum Desc:	SAND.
+					
Stratum ID:	218389918			Top Depth m:	21.299999
Bottom Depth m:	61			Stratum Desc:	LIMESTONE.
+					
Stratum ID:	218389919			Top Depth m:	61
Bottom Depth m:	76.199997			Stratum Desc:	SANDSTONE. 00240FIED. 001350. BEDROCK. SEISMIC VELOCITY = 18500. BEDROCK. SEISM
27	2 of 2	NW/19.6	90.0	lot 21 ON	WWIS
Well ID:	1500323			Lot:	021
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445010.8			Northing Nad83:	5012772
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	24-AUG-54
Sec. Water Use:				Well Depth:	250 ft
Pump Rate:	5 GPM			Static Water Level:	40 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	89.46			Elevation Reliability:	
Depth to Bedrock:	70			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	70 ft
Material Colour:	MEDIUM SAND			Material:	13 ft
+					
Thickness:				Original Depth:	250 ft
Material Colour:	SANDSTONE			Material:	50 ft
+					
Thickness:	BLUE			Original Depth:	57 ft
Material Colour:	CLAY			Material:	57 ft
+					
Thickness:				Original Depth:	200 ft
Material Colour:	LIMESTONE			Material:	130 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
28	1 of 1	NW/26.5	90.0	lot 21 ON	WWIS
Well ID:	1500322			Lot:	021
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445020.8			Northing Nad83:	5012822
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	15-SEP-54
Sec. Water Use:				Well Depth:	103 ft
Pump Rate:	4 GPM			Static Water Level:	15 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	89.37			Elevation Reliability:	
Depth to Bedrock:	71			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	GREY			Original Depth:	103 ft
Material Colour:	LIMESTONE			Material:	32 ft
+					
Thickness:				Original Depth:	68 ft
Material Colour:	HARDPAN, BOULDERS			Material:	47 ft
+					
Thickness:	RED			Original Depth:	21 ft
Material Colour:	CLAY			Material:	21 ft
+					
Thickness:				Original Depth:	71 ft
Material Colour:	QUICKSAND			Material:	3 ft
29	1 of 1	SSW/237.3	89.0	lot 23 ON	WWIS
Well ID:	1513511			Lot:	023
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445110.8			Northing Nad83:	5011532
Zone:	18			Utm Reliability:	margin of error : 300 m - 1 km
Primary Water Use:	Domestic			Construction Date:	30-JUL-73
Sec. Water Use:				Well Depth:	115 ft
Pump Rate:	14 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):	88.79			Elevation Reliability:	
Depth to Bedrock:	44			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	BROWN			Original Depth:	12 ft
Material Colour:	CLAY			Material:	12 ft
+					
Thickness:	BLUE			Original Depth:	44 ft
Material Colour:	CLAY			Material:	32 ft
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:	GREY			Original Depth:	65 ft
Material Colour:	LIMESTONE			Material:	21 ft
+					
Thickness:	WHITE			Original Depth:	115 ft
Material Colour:	SANDSTONE			Material:	50 ft

30	1 of 1	NNW/141.9	90.0	ON	BORE
Borehole ID:	804550			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	445189.163			Northing:	5012991.132
Location Accuracy:				Orig. Ground Elev m:	
Elev. Reliability Note:				DEM Ground Elev m:	88.599998
Total Depth m:	1.600000			Primary Name:	AH.2
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1994-NOV-15			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218581063			Top Depth m:	0
Bottom Depth m:	0			Stratum Desc:	Grey Crushed Stone With: Si
+					
Stratum ID:	218581064			Top Depth m:	0
Bottom Depth m:	0.300000			Stratum Desc:	Brown Sand - Gravel With: Si
+					
Stratum ID:	218581065			Top Depth m:	0.300000
Bottom Depth m:	0.500000			Stratum Desc:	Dark Grey-Brown Silty Clay
+					
Stratum ID:	218581066			Top Depth m:	0.500000
Bottom Depth m:	0.600000			Stratum Desc:	Dark Brown Topsoil clay silt
+					
Stratum ID:	218581067			Top Depth m:	0.600000
Bottom Depth m:	1.600000			Stratum Desc:	Grey-Brown Silty Clay

31	1 of 1	NW/14.1	90.0	ON	BORE
Borehole ID:	804547			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	445016.731			Northing:	5012889.354
Location Accuracy:				Orig. Ground Elev m:	
Elev. Reliability Note:				DEM Ground Elev m:	89.500000
Total Depth m:	1.600000			Primary Name:	AH.1
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1994-NOV-15			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218581050			Top Depth m:	0

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth m:	0			Stratum Desc:	Asphalt
+					
Stratum ID:	218581051			Top Depth m:	0
Bottom Depth m:	0.100000			Stratum Desc:	Brown Sand - Gravel
+					
Stratum ID:	218581052			Top Depth m:	0.100000
Bottom Depth m:	0.300000			Stratum Desc:	Dark Grey-Brown Silty Clay Trace: Gr
+					
Stratum ID:	218581053			Top Depth m:	0.300000
Bottom Depth m:	0.600000			Stratum Desc:	Dark Brown Topsoil clay silt
+					
Stratum ID:	218581054			Top Depth m:	0.600000
Bottom Depth m:	1.600000			Stratum Desc:	Grey-Brown Silty Clay

34	1 of 2	WSW/233.5	82.1	ON	BORE
Borehole ID:	611996			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	444751.000			Northing:	5011772.000
Location Accuracy:				Orig. Ground Elev m:	79.199997
Elev. Reliability Note:				DEM Ground Elev m:	80.800003
Total Depth m:	17.400000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1968-AUG			Static Water Level:	-7.300000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389767			Top Depth m:	0
Bottom Depth m:	12.200000			Stratum Desc:	CLAY,BOULDERS. GREY.
+					
Stratum ID:	218389768			Top Depth m:	12.200000
Bottom Depth m:	17.400000			Stratum Desc:	SANDSTONE. 00055284.0 FEET.IC VELOCITY = 5900. BEDROCK. SEISMIC VELOCITY = 19500. BED

34	2 of 2	WSW/233.5	82.1	lot 22 ON	WWIS
Well ID:	1509609			Lot:	022
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	444750.7			Northing Nad83:	5011772
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	20-AUG-68
Sec. Water Use:				Well Depth:	57 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):	80.82			Elevation Reliability:	
Depth to Bedrock:	40			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
--- Details ---					
Thickness:				Original Depth:	57 ft
Material Colour:	SANDSTONE			Material:	17 ft
+					
Thickness:	GREY			Original Depth:	40 ft
Material Colour:	CLAY, BOULDERS			Material:	40 ft
35	1 of 5	NNW/233.9	89.0	GOODFELLOW CLEANERS INC 665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	GEN
SIC Code:	812320				
SIC Description:	Dry Cleaning and Laundry Services (except Coin-Operated)				
Generator #:	ON9846503				
Approval Yrs:	2011				
--- Details ---					
Waste Code:	241				
Waste Description:	HALOGENATED SOLVENTS				
35	2 of 5	NNW/233.9	89.0	GOODFELLOW CLEANERS INC 665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	GEN
SIC Code:	812320				
SIC Description:	Dry Cleaning and Laundry Services (except Coin-Operated)				
Generator #:	ON9846503				
Approval Yrs:	2010				
--- Details ---					
Waste Code:	241				
Waste Description:	HALOGENATED SOLVENTS				
35	3 of 5	NNW/233.9	89.0	Riverside South Medical Centre 3-665 Earl Armstrong Rd Ottawa ON K1V 2G2	GEN
SIC Code:	621110				
SIC Description:	Offices of Physicians				
Generator #:	ON4866202				
Approval Yrs:	2010				
--- Details ---					
Waste Code:	312				
Waste Description:	PATHOLOGICAL WASTES				
35	4 of 5	NNW/233.9	89.0	GOODFELLOW CLEANERS INC 665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON	GEN
SIC Code:	812320				
SIC Description:	Dry Cleaning and Laundry Services (except Coin-Operated)				
Generator #:	ON9846503				
Approval Yrs:	2009				
--- Details ---					
Waste Code:	241				

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Waste Description:		HALOGENATED SOLVENTS			
35	5 of 5	NNW/233.9	89.0	GOODFELLOW CLEANERS INC 665 EARL ARMSTRONG RD UNIT# 11 OTTAWA ON K1V 2G2	GEN
SIC Code:		812320			
SIC Description:		Dry Cleaning and Laundry Services (except Coin-Operated)			
Generator #:		ON9846503			
Approval Yrs:		05,06,07,08			
--- Details ---					
Waste Code:		241			
Waste Description:		HALOGENATED SOLVENTS			
38	1 of 1	ESE/105.6	97.3	ON	BORE
Borehole ID:		612008		Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:		446511.000		Northing:	5012022.000
Location Accuracy:				Orig. Ground Elev m:	100.599998
Elev. Reliability Note:				DEM Ground Elev m:	98.599998
Total Depth m:		-999.000000		Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:				Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:		218389801		Top Depth m:	0
Bottom Depth m:		11.600000		Stratum Desc:	TILL.
+					
Stratum ID:		218389802		Top Depth m:	11.600000
Bottom Depth m:				Stratum Desc:	BEDROCK,LIMESTONE. ERS. SAND. GRAVEL,BOULDERS. LIMESTONE. 00105. WHITE. 00086 =
39	1 of 3	NE/213.5	94.0	lot 22 con 1 ON	WWIS
Well ID:		1520426		Lot:	022
Concession:		01		Concession Name:	
County:		OTTAWA-CARLETON		Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:		446295		Northing Nad83:	5012901
Zone:		18		Utm Reliability:	unknown UTM
Primary Water Use:		Domestic		Construction Date:	11-NOV-85
Sec. Water Use:				Well Depth:	115 ft
Pump Rate:		5 GPM		Static Water Level:	50 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:		Rotary (Convent.)		Flowing (y/n):	N
Elevation (m):		93.19		Elevation Reliability:	
Depth to Bedrock:		36		Overburden/Bedrock:	Bedrock
Water Type:		FRESH		Casing Material:	FRESH
--- Details ---					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:				Original Depth:	36 ft
Material Colour:	CLAY, STONES			Material:	36 ft
+					
Thickness:	GREY			Original Depth:	115 ft
Material Colour:	LIMESTONE			Material:	79 ft
39	2 of 3	NE/213.5	94.0	lot 22 con 1 ON	WWIS
Well ID:	1521467			Lot:	022
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	446295			Northing Nad83:	5012901
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	16-JUN-87
Sec. Water Use:				Well Depth:	50 ft
Pump Rate:	10 GPM			Static Water Level:	2 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	93.19			Elevation Reliability:	
Depth to Bedrock:	23			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BROWN			Original Depth:	6 ft
Material Colour:	CLAY, SANDY			Material:	6 ft
+					
Thickness:	GREY			Original Depth:	23 ft
Material Colour:	CLAY, SANDY, BOULDERS			Material:	17 ft
+					
Thickness:	GREY			Original Depth:	50 ft
Material Colour:	SANDSTONE, HARD			Material:	27 ft
39	3 of 3	NE/213.5	94.0	lot 22 con 1 ON	WWIS
Well ID:	1523059			Lot:	022
Concession:	01			Concession Name:	
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	446295			Northing Nad83:	5012901
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	21-NOV-88
Sec. Water Use:				Well Depth:	250 ft
Pump Rate:	10 GPM			Static Water Level:	30 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	93.19			Elevation Reliability:	
Depth to Bedrock:	62			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BROWN			Original Depth:	16 ft
Material Colour:	CLAY, PACKED			Material:	16 ft
+					
46	erisinfo.com EcoLog ERIS Ltd. Phase I Environmental Site Assessment River Rd Earl Armstrong Rd Ottawa ON				Order #: 20140829049

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:	GREY			Original Depth:	250 ft
Material Colour:	SANDSTONE			Material:	60 ft
+					
Thickness:	GREY			Original Depth:	190 ft
Material Colour:	LIMESTONE			Material:	128 ft
+					
Thickness:	GREY			Original Depth:	45 ft
Material Colour:	CLAY, STICKY			Material:	29 ft
+					
Thickness:	GREY			Original Depth:	62 ft
Material Colour:	SAND, PACKED			Material:	17 ft

40	1 of 3	NNW/55.0	89.0	MACEWEN PETROLEUM INC*** 685 RIVER RD GLOUCESTER ON K1V 1C7	FST
Instance Number:	55747571				
Cont Name:					
Instance Type:	FS Liquid Fuel Tank				
Fuel Type:	Gasoline				
Status Name:	Active				
Capacity:	50000				
Tank Material:	Steel				
Corrosion Protection:					
Tank Type:	Double Wall UST				
Install Year:	2002				
Expired Date:					
Parent Facility Type:	FS GASOLINE STATION - SELF SERVE				
Facility Type:	FS Liquid Fuel Tank				

40	2 of 3	NNW/55.0	89.0	MACEWEN PETROLEUM INC*** 685 RIVER RD GLOUCESTER ON K1V 1C7	FST
Instance Number:	55747570				
Cont Name:					
Instance Type:	FS Liquid Fuel Tank				
Fuel Type:	Gasoline				
Status Name:	Active				
Capacity:	25000				
Tank Material:	Steel				
Corrosion Protection:					
Tank Type:	Double Wall UST				
Install Year:	2002				
Expired Date:					
Parent Facility Type:	FS GASOLINE STATION - SELF SERVE				
Facility Type:	FS Liquid Fuel Tank				

40	3 of 3	NNW/55.0	89.0	MACEWEN PETROLEUM INC*** 685 RIVER RD GLOUCESTER ON K1V 1C7	FST
Instance Number:	55747572				
Cont Name:					
Instance Type:	FS Liquid Fuel Tank				

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Fuel Type: Gasoline Status Name: Active Capacity: 25000 Tank Material: Steel Corrosion Protection: Tank Type: Double Wall UST Install Year: 2002 Expired Date: Parent Facility Type: FS GASOLINE STATION - SELF SERVE Facility Type: FS Liquid Fuel Tank					
41	1 of 1	WNW/131.5	79.1	lot 10 con 1 ON	WWIS
Well ID: 1504664 Concession: 01 County: OTTAWA-CARLETON Easting Nad83: 444595.7 Zone: 18 Primary Water Use: Domestic Sec. Water Use: Pump Rate: 5 GPM Flow Rate: Specific Capacity: Construction Method: Cable Tool Elevation (m): 78.82 Depth to Bedrock: 58 Water Type: FRESH Lot: 010 Concession Name: RF Municipality: NEPEAN TOWNSHIP Northing Nad83: 5012562 Utm Reliability: margin of error : 100 m - 300 m Construction Date: 20-AUG-64 Well Depth: 175 ft Static Water Level: 7 ft Clear/Cloudy: CLOUDY Final Well Status: Water Supply Flowing (y/n): N Elevation Reliability: Overburden/Bedrock: Bedrock Casing Material: FRESH, MINERIAL --- Details --- Thickness: Material Colour: CLAY, BOULDERS + Thickness: Material Colour: LIMESTONE Original Depth: 58 ft Material: 58 ft Original Depth: 175 ft Material: 117 ft					
42	1 of 1	WNW/147.3	80.6	lot 10 con 1 OTTAWA ON	WWIS
Well ID: 1536500 Concession: 01 County: OTTAWA-CARLETON Easting Nad83: 444567.2 Zone: 18 Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): 80.8 Depth to Bedrock: Water Type: Lot: 010 Concession Name: RF Municipality: Northing Nad83: 5012519 Utm Reliability: margin of error : 10 - 30 m Construction Date: 06-FEB-06 Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Abandoned-Other Flowing (y/n): Elevation Reliability: Overburden/Bedrock: No formation data Casing Material:					
44	1 of 2	ESE/76.5	99.3	ON	BORE

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Borehole ID:	611997			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	446531.000			Northing:	5011792.000
Location Accuracy:				Orig. Ground Elev m:	97.500000
Elev. Reliability Note:				DEM Ground Elev m:	99.199997
Total Depth m:	24.400000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1947-AUG			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389769			Top Depth m:	0
Bottom Depth m:	1.500000			Stratum Desc:	SOIL,CLAY.
+					
Stratum ID:	218389770			Top Depth m:	1.500000
Bottom Depth m:	5.500000			Stratum Desc:	GRAVEL,CLAY.
+					
Stratum ID:	218389771			Top Depth m:	5.500000
Bottom Depth m:	6.100000			Stratum Desc:	SAND. GREY.
+					
Stratum ID:	218389772			Top Depth m:	6.100000
Bottom Depth m:	8.500000			Stratum Desc:	SAND. BLACK.
+					
Stratum ID:	218389773			Top Depth m:	8.500000
Bottom Depth m:	24.400000			Stratum Desc:	SLATE. GREY. 00080BEDROCK. SEISMIC VELOCITY = 19500. BEDROCK. SEISMIC VELOCITY = 17000.
44	2 of 2	ESE/76.5	99.3	lot 25 con 1 ON	WWIS
Well ID:	1502359			Lot:	025
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	446530.8			Northing Nad83:	5011792
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	07-AUG-47
Sec. Water Use:				Well Depth:	80 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):	99.22			Elevation Reliability:	
Depth to Bedrock:	28			Overburden/Bedrock:	Bedrock
Water Type:	SALTY			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BLACK			Original Depth:	28 ft
Material Colour:	FINE SAND			Material:	8 ft
+					
Thickness:	GREY			Original Depth:	80 ft
Material Colour:	SLATE			Material:	52 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<hr/>					
+					
Thickness:	GREY			Original Depth:	20 ft
Material Colour:	MEDIUM SAND			Material:	2 ft
+					
Thickness:				Original Depth:	18 ft
Material Colour:	GRAVEL, CLAY			Material:	13 ft
+					
Thickness:				Original Depth:	5 ft
Material Colour:	TOPSOIL, CLAY			Material:	5 ft
<hr/>					
46	1 of 1	WNW/163.3	82.1	lot 11 con 1 MANOTICK ON	WWIS
Well ID:	7125887			Lot:	011
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	NEPEAN TOWNSHIP
Easting Nad83:	444578			Northing Nad83:	5012684
Zone:	18			Utm Reliability:	margin of error : 10 - 30 m
Primary Water Use:	Test Hole			Construction Date:	24-JUN-09
Sec. Water Use:	Not Used			Well Depth:	7.6 m
Pump Rate:				Static Water Level:	2 m
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Test Hole
Construction Method:	Other Method			Flowing (y/n):	
Elevation (m):	83.88			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:	FRESH			Casing Material:	Not stated
--- Details ---					
Thickness:	BROWN			Original Depth:	.75 m
Material Colour:	SAND, CLAY			Material:	.75 m
+					
Thickness:	BLUE			Original Depth:	1.5 m
Material Colour:	SAND, CLAY, LAYERED			Material:	.75 m
+					
Thickness:	GREY			Original Depth:	7.6 m
Material Colour:	CLAY, SILT			Material:	6.1 m
<hr/>					
47	1 of 3	NNW/49.2	89.7	1092465 ONTARIO LTD O/A MONCION'S YOUR INDEP GROCER 671 RIVER RD OTTAWA ON K1V 2G2	PES
Licence No.:	23-01-14742-0				
Licence Type:	LIMITED				
<hr/>					
47	2 of 3	NNW/49.2	89.7	1092465 ONTARIO LTD O/A MONCION'S YOUR INDEP GROCER 671 RIVER RD OTTAWA ON K1V2G2	PES
Licence No.:					
Licence Type:	Vendor				

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
47	3 of 3	NNW/49.2	89.7	671 River Road, Gloucester Ottawa ON	SPL
Ref No.:		6743-7BATZY			
Incident Dt:					
MOE Reported Dt:		1/28/2008			
Contaminant Name:		REFRIGERANT GAS, N.O.S.			
Contaminant Quantity:		136 kg			
Incident Summary:		Moncions Independent Grocer: 136 KG R507 to ATM			
Incident Cause:		Pipe Or Hose Leak			
Incident Reason:					
Nature of Impact:		Air Pollution			
Receiving Medium:					
Environmental Impact:		Not Anticipated			
49	1 of 1	W/194.7	80.4	PRIVATE RESIDENCE 18 LODGE ROAD FURNACE OIL TANK NEPEAN CITY ON K2C 3H1	SPL
Ref No.:		96170			
Incident Dt:		2/2/1994			
MOE Reported Dt:		2/8/1994			
Contaminant Name:					
Contaminant Quantity:					
Incident Summary:		PRIVATE RESIDENCE-600-700LITRES FURNACE OIL TO GROUND FROM U/G TANK.			
Incident Cause:		UNDERGROUND TANK LEAK			
Incident Reason:		CORROSION			
Nature of Impact:		Soil contamination			
Receiving Medium:		LAND			
Environmental Impact:		POSSIBLE			
51	1 of 1	W/202.2	80.0	lot 10 con 1 OTTAWA ON	WWIS
Well ID:		7163245		Lot:	010
Concession:		01		Concession Name:	RF
County:		OTTAWA-CARLETON		Municipality:	NEPEAN TOWNSHIP
Easting Nad83:		444473		Northing Nad83:	5012277
Zone:		18		Utm Reliability:	margin of error : 10 - 30 m
Primary Water Use:		Domestic		Construction Date:	01-MAR-11
Sec. Water Use:				Well Depth:	500 ft
Pump Rate:		15 GPM		Static Water Level:	7.58 ft
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:		Air Percussion		Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:		Untested		Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:		GREY		Original Depth:	35 ft
Material Colour:		CLAY		Material:	35 ft
+					
Thickness:				Original Depth:	66 ft
Material Colour:		SAND, GRAVEL, BOULDERS		Material:	31 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
<hr/>					
+					
Thickness:	GREY			Original Depth:	188 ft
Material Colour:	LIMESTONE			Material:	122 ft
+					
Thickness:	GREY			Original Depth:	328 ft
Material Colour:	SANDSTONE			Material:	140 ft
+					
Thickness:	GREEN			Original Depth:	500 ft
Material Colour:	GRANITE			Material:	172 ft
<hr/>					
52	1 of 1	WNW/130.5	79.8	lot 11 con 1 OTTAWA ON	WWIS
Well ID:	1536515			Lot:	011
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	
Easting Nad83:	444609.9			Northing Nad83:	5012763
Zone:	18			Utm Reliability:	margin of error : 10 - 30 m
Primary Water Use:				Construction Date:	06-FEB-06
Sec. Water Use:				Well Depth:	
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:				Flowing (y/n):	
Elevation (m):	81.24			Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	No formation data
Water Type:				Casing Material:	
<hr/>					
53	1 of 1	NNW/42.7	90.0	ON	BORE
Borehole ID:	807627			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Other Method			UTM Zone:	18
Easting:	445112.556			Northing:	5013243.522
Location Accuracy:				Orig. Ground Elev m:	100.599998
Elev. Reliability Note:				DEM Ground Elev m:	89.800003
Total Depth m:	4.600000			Primary Name:	TP 99-102
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1999-NOV-5			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593576			Top Depth m:	0
Bottom Depth m:	0.300000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593577			Top Depth m:	0.300000
Bottom Depth m:	0.600000			Stratum Desc:	Light Brown Sand Trace: Si
+					
Stratum ID:	218593578			Top Depth m:	0.600000
Bottom Depth m:	1.300000			Stratum Desc:	Grey Silt - Sand
+					
Stratum ID:	218593579			Top Depth m:	1.300000

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Bottom Depth m:	4.600000			Stratum Desc:	Grey-Brown Very Stiff Silty Clay
55	1 of 1	WNW/238.5	85.9	ON	BORE
Borehole ID:	612028			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	444471.000			Northing:	5012512.000
Location Accuracy:				Orig. Ground Elev m:	85.300003
Elev. Reliability Note:				DEM Ground Elev m:	85.900002
Total Depth m:	-999.000000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:				Static Water Level:	6.700000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389855			Top Depth m:	14.300000
Bottom Depth m:	20.400000			Stratum Desc:	CLAY, GRAVEL. WATER STABLE AT 258.0 FEET.
+					
Stratum ID:	218389856			Top Depth m:	20.400000
Bottom Depth m:	31.700001			Stratum Desc:	CLAY, BOULDERS.
+					
Stratum ID:	218389857			Top Depth m:	31.700001
Bottom Depth m:				Stratum Desc:	BEDROCK, LIMESTONE. 0223BEDROCK. SEISMIC VELOCITY = 17000. 200135076 BROWN, GREY, STI
+					
Stratum ID:	218389852			Top Depth m:	0
Bottom Depth m:	0.600000			Stratum Desc:	CLAY.
+					
Stratum ID:	218389853			Top Depth m:	0.600000
Bottom Depth m:	0.900000			Stratum Desc:	BOULDERS.
+					
Stratum ID:	218389854			Top Depth m:	0.900000
Bottom Depth m:	14.300000			Stratum Desc:	CLAY.
56	1 of 1	W/248.6	82.5	lot 10 con 1 ON	WWIS
Well ID:	1504662			Lot:	010
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	NEPEAN TOWNSHIP
Easting Nad83:	444430.7			Northing Nad83:	5012252
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Domestic			Construction Date:	28-MAY-58
Sec. Water Use:				Well Depth:	190 ft
Pump Rate:	6 GPM			Static Water Level:	8 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Diamond			Flowing (y/n):	N
Elevation (m):	83.4			Elevation Reliability:	
Depth to Bedrock:	61			Overburden/Bedrock:	Bedrock

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	190 ft
Material Colour:	SANDSTONE			Material:	129 ft
+					
Thickness:				Original Depth:	40 ft
Material Colour:	CLAY			Material:	40 ft
+					
Thickness:				Original Depth:	61 ft
Material Colour:	BOULDERS, GRAVEL			Material:	21 ft

57	1 of 1	NNW/164.6	88.0	lot 20 ON	WWIS
Well ID:	1517382			Lot:	020
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445229.8			Northing Nad83:	5013321
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Livestock			Construction Date:	10-SEP-80
Sec. Water Use:				Well Depth:	74 ft
Pump Rate:	50 GPM			Static Water Level:	20 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	88.23			Elevation Reliability:	
Depth to Bedrock:	64			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH
--- Details ---					
Thickness:	WHITE			Original Depth:	74 ft
Material Colour:	SANDSTONE			Material:	10 ft
+					
Thickness:	GREY			Original Depth:	64 ft
Material Colour:	HARDPAN, BOULDERS			Material:	14 ft
+					
Thickness:	BLUE			Original Depth:	50 ft
Material Colour:	CLAY			Material:	40 ft
+					
Thickness:	GREY			Original Depth:	10 ft
Material Colour:	CLAY			Material:	10 ft

58	1 of 1	W/245.1	85.8	lot 10 con 1 ON	WWIS
Well ID:	1504663			Lot:	010
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	NEPEAN TOWNSHIP
Easting Nad83:	444430.7			Northing Nad83:	5012352
Zone:	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:	Public			Construction Date:	31-AUG-58
Sec. Water Use:				Well Depth:	298 ft
Pump Rate:	68 GPM			Static Water Level:	8 ft
Flow Rate:				Clear/Cloudy:	CLEAR

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Specific Capacity: Construction Method: Cable Tool Elevation (m): 85.44 Depth to Bedrock: 104 Water Type: FRESH				Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Bedrock Casing Material: FRESH, MINERIAL	Water Supply N
--- Details ---					
Thickness:	GREY			Original Depth:	2 ft
Material Colour:	CLAY			Material:	2 ft
+					
Thickness:				Original Depth:	3 ft
Material Colour:	BOULDERS			Material:	1 ft
+					
Thickness:	GREY			Original Depth:	47 ft
Material Colour:	CLAY			Material:	44 ft
+					
Thickness:				Original Depth:	104 ft
Material Colour:	CLAY, BOULDERS			Material:	57 ft
+					
Thickness:	GREY			Original Depth:	196 ft
Material Colour:	LIMESTONE			Material:	92 ft
+					
Thickness:				Original Depth:	298 ft
Material Colour:	SANDSTONE			Material:	102 ft

59	1 of 1	WNW/162.9	82.6	lot 11 con 1 OTTAWA ON	WWIS
Well ID: 1536516 Concession: 01 County: OTTAWA-CARLETON Easting Nad83: 444565.9 Zone: 18 Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): 83.84 Depth to Bedrock: Water Type:				Lot: 011 Concession Name: RF Municipality: Northing Nad83: 5012781 Utm Reliability: margin of error : 10 - 30 m Construction Date: 06-FEB-06 Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Abandoned-Other Flowing (y/n): Elevation Reliability: Overburden/Bedrock: No formation data Casing Material:	

60	1 of 1	NNW/80.6	89.7	ON	BORE
Borehole ID: 807630 Use: Geotechnical/Geological Investigation Drill Method: Other Method Easting: 445075.174 Location Accuracy: Elev. Reliability Note: Total Depth m: 4.200000 Township: Lot:				Type: Borehole Status: UTM Zone: 18 Northing: 5013293.210 Orig. Ground Elev m: 100.099998 DEM Ground Elev m: 88.599998 Primary Name: TP 99-104 Concession: Municipality:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Completion Date:		1999-NOV-5		Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593592			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593593			Top Depth m:	0.200000
Bottom Depth m:	0.800000			Stratum Desc:	Light Brown Silt - Sand
+					
Stratum ID:	218593594			Top Depth m:	0.800000
Bottom Depth m:	1.500000			Stratum Desc:	Grey Silt - Sand
+					
Stratum ID:	218593595			Top Depth m:	1.500000
Bottom Depth m:	4.200000			Stratum Desc:	Grey-Brown Very Stiff Silty Clay

61

1 of 2

NNW/93.2

88.9

ON

BORE

Borehole ID:

612067

Use:

Drill Method:

Easting:

445091.000

Location Accuracy:

Elev. Reliability Note:

Total Depth m:

23.799999

Township:

Lot:

Completion Date:

1955-JUL

Primary Water Use:

Details

Stratum ID:

218389971

Bottom Depth m:

20.100000

+

Stratum ID:

218389972

Bottom Depth m:

21.299999

+

Stratum ID:

218389973

Bottom Depth m:

23.799999

Type:

Borehole

Status:

UTM Zone:

18

Northing:

5013302.000

Orig. Ground Elev m:

88.400002

DEM Ground Elev m:

88.500000

Primary Name:

Concession:

Municipality:

Static Water Level:

Sec. Water Use:

Top Depth m:

0

Stratum Desc:

CLAY. WHITE.

Top Depth m:

20.100000

Stratum Desc:

GRAVEL,SAND.

Top Depth m:

21.299999

Stratum Desc:

LIMESTONE. GREY.
0007800086OCITY = 5300. BEDROCK.
SEISMIC VELOCITY = 17000.
BEDROCK.

61	2 of 2	NNW/93.2	88.9	lot 20 ON	WWIS
Well ID: 1500318				Lot:	020
Concession:				Concession Name:	BF
County: OTTAWA-CARLETON				Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83: 445090.8				Northing Nad83:	5013302
Zone: 18				Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use: Domestic				Construction Date:	12-JUL-55
Sec. Water Use:				Well Depth:	78 ft
Pump Rate: 3 GPM				Static Water Level:	25 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	88.54			Elevation Reliability:	
Depth to Bedrock:	70			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	RED			Original Depth:	66 ft
Material Colour:	CLAY			Material:	66 ft
+					
Thickness:				Original Depth:	70 ft
Material Colour:	GRAVEL, MEDIUM SAND			Material:	4 ft
+					
Thickness:	GREY			Original Depth:	78 ft
Material Colour:	LIMESTONE			Material:	8 ft

62	1 of 1	NNW/32.4	87.3	ON	BORE
Borehole ID:	807631			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Other Method			UTM Zone:	18
Easting:	445004.987			Northing:	5013262.520
Location Accuracy:				Orig. Ground Elev m:	99.800003
Elev. Reliability Note:				DEM Ground Elev m:	86.599998
Total Depth m:	4.300000			Primary Name:	TP 99-105
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1999-NOV-5			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593596			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593597			Top Depth m:	0.200000
Bottom Depth m:	0.600000			Stratum Desc:	Light Brown Silt - Sand
+					
Stratum ID:	218593598			Top Depth m:	0.600000
Bottom Depth m:	1.200000			Stratum Desc:	Grey Silt - Sand
+					
Stratum ID:	218593599			Top Depth m:	1.200000
Bottom Depth m:	4.300000			Stratum Desc:	Grey-Brown Very Stiff Silty Clay

63	1 of 2	ESE/208.0	100.0	lot 25 con 1 ON	WWIS
Well ID:	1522584			Lot:	025
Concession:	01			Concession Name:	
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	446663			Northing Nad83:	5011765
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	19-JUL-88
Sec. Water Use:				Well Depth:	70 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Pump Rate:	30 GPM			Static Water Level:	10 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	102.35			Elevation Reliability:	
Depth to Bedrock:	60			Overburden/Bedrock:	Mixed in a Layer
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	BROWN			Original Depth:	15 ft
Material Colour:	CLAY, PACKED			Material:	15 ft
+					
Thickness:	GREY			Original Depth:	60 ft
Material Colour:	SAND, GRAVEL, BOULDERS			Material:	45 ft
+					
Thickness:	GREY			Original Depth:	70 ft
Material Colour:	GRAVEL, FRACTURED, ROCK			Material:	10 ft

63	2 of 2	ESE/208.0	100.0	lot 25 con 1 ON	WWIS
Well ID:	1522581			Lot:	025
Concession:	01			Concession Name:	
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	446663			Northing Nad83:	5011765
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	18-AUG-88
Sec. Water Use:				Well Depth:	175 ft
Pump Rate:	3 GPM			Static Water Level:	15 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Air Percussion			Flowing (y/n):	N
Elevation (m):	102.35			Elevation Reliability:	
Depth to Bedrock:	54			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:	GREY			Original Depth:	54 ft
Material Colour:	SAND, GRAVEL			Material:	9 ft
+					
Thickness:	GREY			Original Depth:	175 ft
Material Colour:	SANDSTONE			Material:	100 ft
+					
Thickness:	GREY			Original Depth:	75 ft
Material Colour:	LIMESTONE			Material:	21 ft
+					
Thickness:	BROWN			Original Depth:	10 ft
Material Colour:	CLAY			Material:	10 ft
+					
Thickness:	GREY			Original Depth:	25 ft
Material Colour:	CLAY			Material:	15 ft
+					
Thickness:	GREY			Original Depth:	45 ft
Material Colour:	HARDPAN, BOULDERS			Material:	20 ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
64	1 of 2	NNW/40.5	86.4	ON	BORE
Borehole ID:	612064			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	445001.000			Northing:	5013272.000
Location Accuracy:				Orig. Ground Elev m:	80.800003
Elev. Reliability Note:				DEM Ground Elev m:	85.500000
Total Depth m:	26.500000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1964-JAN			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389962			Top Depth m:	0
Bottom Depth m:	7.600000			Stratum Desc:	CLAY.
+					
Stratum ID:	218389963			Top Depth m:	7.600000
Bottom Depth m:	16.799999			Stratum Desc:	CLAY,BOULDERS.
+					
Stratum ID:	218389964			Top Depth m:	16.799999
Bottom Depth m:	20.100000			Stratum Desc:	GRAVEL,BOULDERS.
+					
Stratum ID:	218389965			Top Depth m:	20.100000
Bottom Depth m:	26.500000			Stratum Desc:	SANDSTONE. 00086OCITY = 5300. BEDROCK. SEISMIC VELOCITY = 17000. BEDROCK. SEISMIC VELOC
64	2 of 2	NNW/40.5	86.4	lot 20 ON	WWIS
Well ID:	1500321			Lot:	020
Concession:				Concession Name:	BF
County:	OTTAWA-CARLETON			Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:	445000.7			Northing Nad83:	5013272
Zone:	18			Utm Reliability:	unknown UTM
Primary Water Use:	Domestic			Construction Date:	23-JAN-64
Sec. Water Use:				Well Depth:	87 ft
Pump Rate:	10 GPM			Static Water Level:	35 ft
Flow Rate:				Clear/Cloudy:	CLOUDY
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (y/n):	N
Elevation (m):	85.54			Elevation Reliability:	
Depth to Bedrock:	66			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	FRESH, MINERIAL
--- Details ---					
Thickness:				Original Depth:	55 ft
Material Colour:	CLAY, BOULDERS			Material:	30 ft
+					
Thickness:				Original Depth:	66 ft
Material Colour:	GRAVEL, BOULDERS			Material:	11 ft
+					

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Thickness:				Original Depth:	87 ft
Material Colour:	SANDSTONE			Material:	21 ft
+					
Thickness:				Original Depth:	25 ft
Material Colour:	CLAY			Material:	25 ft
65	1 of 1	NNW/147.9	86.6	ON	BORE
Borehole ID:	807628			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Other Method			UTM Zone:	18
Easting:	445136.867			Northing:	5013346.055
Location Accuracy:				Orig. Ground Elev m:	100.500000
Elev. Reliability Note:				DEM Ground Elev m:	89.199997
Total Depth m:	4.600000			Primary Name:	TP 99-103
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1999-NOV-5			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218593580			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Topsoil
+					
Stratum ID:	218593581			Top Depth m:	0.200000
Bottom Depth m:	0.900000			Stratum Desc:	Light Brown Sand Trace: Si
+					
Stratum ID:	218593582			Top Depth m:	0.900000
Bottom Depth m:	2			Stratum Desc:	Grey Silt - Sand
+					
Stratum ID:	218593583			Top Depth m:	2
Bottom Depth m:	4.600000			Stratum Desc:	Grey-Brown Very Stiff Silty Clay
66	1 of 2	NW/91.6	80.0	lot 11 con 1 NEPEAN ON	WWIS
Well ID:	7156872			Lot:	011
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	NEPEAN TOWNSHIP
Easting Nad83:	444817			Northing Nad83:	5013189
Zone:	18			Utm Reliability:	margin of error : 10 - 30 m
Primary Water Use:				Construction Date:	04-AUG-10
Sec. Water Use:				Well Depth:	ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:				Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	
--- Details ---					
Thickness:				Original Depth:	ft
Material Colour:				Material:	ft

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
66	2 of 2	NW/91.6	80.0	lot 11 con 1 NEPEAN ON	WWIS
Well ID: 7156873		Lot: 011			
Concession: 01		Concession Name: RF			
County: OTTAWA-CARLETON		Municipality: NEPEAN TOWNSHIP			
Easting Nad83: 444817		Northing Nad83: 5013189			
Zone: 18		Utm Reliability: margin of error : 10 - 30 m			
Primary Water Use:		Construction Date: 04-AUG-10			
Sec. Water Use:		Well Depth: ft			
Pump Rate:		Static Water Level:			
Flow Rate:		Clear/Cloudy:			
Specific Capacity:		Final Well Status: Abandoned-Other			
Construction Method:		Flowing (y/n):			
Elevation (m):		Elevation Reliability:			
Depth to Bedrock:		Overburden/Bedrock:			
Water Type:		Casing Material:			
--- Details ---					
Thickness:		Original Depth:		ft	
Material Colour:		Material:		ft	
67	1 of 1	NW/98.2	80.0	ON	BORE
Borehole ID: 804898		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status:			
Drill Method: Hollow stem auger		UTM Zone: 18			
Easting: 444810.371		Northing: 5013192.651			
Location Accuracy:		Orig. Ground Elev m: 81.500000			
Elev. Reliability Note:		DEM Ground Elev m: 81			
Total Depth m: 20.100000		Primary Name: BH.1			
Township:		Concession:			
Lot:		Municipality:			
Completion Date: 1990-MAY-30		Static Water Level: 3.700000			
Primary Water Use:		Sec. Water Use:			
--- Details ---					
Stratum ID: 218582449		Top Depth m: 3.200000			
Bottom Depth m: 14.700000		Stratum Desc: Brown to Grey Compact to Very Dense Till sand silt With: Cl W Gr W Cob W Blds			
+					
Stratum ID: 218582450		Top Depth m: 14.700000			
Bottom Depth m: 20.100000		Stratum Desc: White Bedrock Sandstone Faintly weathered to fresh			
+					
Stratum ID: 218582447		Top Depth m: 0			
Bottom Depth m: 0.200000		Stratum Desc: Dark Brown Topsoil Sand			
+					
Stratum ID: 218582448		Top Depth m: 0.200000			
Bottom Depth m: 3.200000		Stratum Desc: Brown Dense to Very Dense Silt - Sand With: Gr W Cob W Blds			
68	1 of 1	NW/106.5	80.0	lot 11 con 1	WWIS

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
NEPEAN ON					
Well ID:	7156871			Lot:	011
Concession:	01			Concession Name:	RF
County:	OTTAWA-CARLETON			Municipality:	NEPEAN TOWNSHIP
Easting Nad83:	444829			Northing Nad83:	5013215
Zone:	18			Utm Reliability:	margin of error : 10 - 30 m
Primary Water Use:				Construction Date:	04-AUG-10
Sec. Water Use:				Well Depth:	ft
Pump Rate:				Static Water Level:	
Flow Rate:				Clear/Cloudy:	
Specific Capacity:				Final Well Status:	Abandoned-Other
Construction Method:				Flowing (y/n):	
Elevation (m):				Elevation Reliability:	
Depth to Bedrock:				Overburden/Bedrock:	
Water Type:				Casing Material:	
--- Details ---					
Thickness:				Original Depth:	ft
Material Colour:				Material:	ft

69	1 of 1	NW/109.5	80.0	ON	BORE
Borehole ID:	804905			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Hollow stem auger			UTM Zone:	18
Easting:	444831.712			Northing:	5013221.250
Location Accuracy:				Orig. Ground Elev m:	81
Elev. Reliability Note:				DEM Ground Elev m:	80.199997
Total Depth m:	18.200001			Primary Name:	BH.3
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	1990-JUN-5			Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218582478			Top Depth m:	0
Bottom Depth m:	0.200000			Stratum Desc:	Dark Brown Topsoil Sand
+					
Stratum ID:	218582479			Top Depth m:	0.200000
Bottom Depth m:	1.800000			Stratum Desc:	Brown Silt - Sand With: Gr W Cob
+					
Stratum ID:	218582480			Top Depth m:	1.800000
Bottom Depth m:	15			Stratum Desc:	Brown to Grey Till sand silt With: Cl W Gr W Cob W Blds
+					
Stratum ID:	218582481			Top Depth m:	15
Bottom Depth m:	18.200001			Stratum Desc:	White Bedrock Sandstone Weathered to Fresh, (NEPEAN FORMATION)

70	1 of 1	NW/174.7	81.0	ON	BORE
Borehole ID:	612061			Type:	Borehole
Use:				Status:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
Drill Method:				UTM Zone:	18
Easting:	444631.000			Northing:	5013202.000
Location Accuracy:				Orig. Ground Elev m:	83.800003
Elev. Reliability Note:				DEM Ground Elev m:	82.199997
Total Depth m:	-999.000000			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:				Static Water Level:	8.200000
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:	218389949			Top Depth m:	0
Bottom Depth m:	3			Stratum Desc:	CLAY,BOULDERS.
+					
Stratum ID:	218389950			Top Depth m:	3
Bottom Depth m:	15.200000			Stratum Desc:	SAND,BOULDERS.
+					
Stratum ID:	218389951			Top Depth m:	15.200000
Bottom Depth m:	18.299999			Stratum Desc:	CLAY. WATER STABLE AT 248.0 FEET.
+					
Stratum ID:	218389952			Top Depth m:	18.299999
Bottom Depth m:	19.799999			Stratum Desc:	SAND.
+					
Stratum ID:	218389953			Top Depth m:	19.799999
Bottom Depth m:	21.900000			Stratum Desc:	CLAY.
+					
Stratum ID:	218389954			Top Depth m:	21.900000
Bottom Depth m:				Stratum Desc:	BEDROCK,SANDSTONE. 15000. BEDROCK. SEISMIC VELOCITY = 17000. 200135076 BROWN,GREY,S

Unplottable Summary

DB	Company Name/Site Name	Address	City	Postal
CA	City of Ottawa	Strandherd Drive	Ottawa ON	
CA	City of Ottawa	Strandherd Drive	Ottawa ON	
CA	Gerry Clarke	Strandherd Dr Lots 14/15, Concession 3	Ottawa ON	
CA	DCR/PHOENIX DEVELOPMENMT CORP.	STRANDHERD DRIVE	NEPEAN CITY ON	
CA	NEPEAN CITY-LOTS 15 & 16, CONC. 2 & 3	STRANDHERD DR/STORMWATER MANAG	NEPEAN CITY ON	
CA		Part of Lot 18 and 19, Concession 1, Spratt Road	Gloucester ON	
CA		Part of Lot 18 and 19, Concession 1, Spratt Road	Gloucester ON	
CA	City of Ottawa	River Road to Limebank Rd	Ottawa ON	
CA	City of Ottawa	River Road to Limebank Rd	Ottawa ON	
CA		River Road and part of lots 19 and 20 River Road and Shoreline Drive	Gloucester ON	
CA	River Road and Shoreline Drive	River Road and part of lots 19 and 20	Gloucester ON	
CA	R.M. OF OTTAWA-CARLETON	WEST BANK OF RIDEAU RIVER	NEPEAN CITY ON	
CA	R.M. OF OTTAWA-CARLETON	WEST BANK OF RIDEAU RIVER	NEPEAN CITY ON	
CA	Taggart Investments Inc.	Part of Lot 23, Concession 1, formerly Geographic Township of Cumberland	Ottawa ON	
CA	Urbandale Corporation	Part of Lot 20, Concession 1	Ottawa ON	
CA	Urbandale Corporation	Part of Lot 20, Concession 1	Ottawa ON	
CA	City of Ottawa	Part from Rideau River	Ottawa ON	
CA		Lot 25 & 26, Concession 1	Ottawa ON	

CA		Lot 25 & 26, Concession 1	Ottawa ON
CA		Lot 20, Conc. 1 (Rideau Front), City of Gloucester	Ottawa ON
CA		Lot 20, Conc. 1 (Rideau Front), City of Gloucester	Ottawa ON
CA		Lot 20, Conc. 1 (Rideau Front), City of Gloucester	Ottawa ON
CA		Lot 20, Conc. 1 (Rideau Front), City of Gloucester	Ottawa ON
CA	R.M. OF OTTAWA-CARLETON	EAST BANK OF RIDEAU RIVER	GLOUCESTER CITY ON
CA	R.M. OF OTTAWA-CARLETON	EAST BANK OF RIDEAU RIVER	GLOUCESTER CITY ON
CFOT	Bell Canada	Strandherd Dr, Nepean (Jockvale) ON	NEPEAN ON
EXP	DESCHENES CONSTRUCTION (ONTARIO) LTD	DOMTAR R BOYCE QUARRY LOT 25	GLOUCESTER TWP ON
EXP	DESCHENES CONSTRUCTION (ONTARIO) LTD	DOMTAR R BOYCE QUARRY LOT 25	GLOUCESTER TWP ON
EXP	DESCHENES CONSTRUCTION (ONTARIO) LTD	DOMTAR R BOYCE QUARRY LOT 25	GLOUCESTER TWP ON
EXP	DESCHENES CONSTRUCTION (ONTARIO) LTD	DOMTAR R BOYCE QUARRY LOT 25	GLOUCESTER TWP ON
EXP	DESCHENES CONSTRUCTION (ONTARIO) LTD	DOMTAR R BOYCE QUARRY LOT 25	GLOUCESTER TWP ON
EXP	DESCHENES CONSTRUCTION (ONTARIO) LTD	DOMTAR R BOYCE QUARRY LOT 25	GLOUCESTER TWP ON
EXP	DESCHENES CONSTRUCTION (ONTARIO) LTD	DOMTAR R BOYCE QUARRY LOT 25	GLOUCESTER TWP ON
GEN	RIDEAU CANAL	1 1/2 ML. N. OF REGIONAL RD & 8 M. WEST	MANOTICK ON
GEN	RIDEAU CANAL 33-433	NORTHERN AREA OFFICE, 11/2 MI N REG RD 8	MANOTICK ON
GEN	RIDEAU CANAL	NORTHERN AREA OFFICE, 11/2 MI N REG RD 8	MANOTICK ON

GEN	GVT. OF CAN. - ENVIRONMENT CANADA	RIVER RD. ENVIRONMENTAL TECHNOLOGY CTR.	OTTAWA ON
GEN	ENVIRONMENT CANADA, PARKS DEPT.	1 1/2 ML. N. OF R.R. & 8 ML. W. RIVER RD	MANOTICK ON
GEN	NATIONAL CAPITAL COMMISSION	RIDEAU RIVER PARK	OTTAWA ON
GEN	KEN GORDON EXCAVATING LTD.	LOT 25, CONC. 1	NEPEAN ON
NPCB	ENVIRONMENT CANADA	RIVER ROAD LABS	OTTAWA ON
PRT	KEN GORDON EXCAVATING LTD	LOT 25 CON 1	MANOTICK ON
RSC			Ottawa ON
RSC			Ottawa ON
SPL	UNKNOWN	MONNEYS BAY, RIDEAU RIVER	OTTAWA CITY ON
SPL	FINES FLOUR	RIVER RD. GLOUCESTER	GLOUCESTER CITY ON
SPL	KENT FUELS	RR #2 LODGE RD	NEPEAN CITY ON
SPL		Rideau River (Manotick)	Ottawa ON
SPL	CONSTRUCTION COMPANY	RIDEAU RIVER;DUFRESNE PILING-WEST OF ROBERT DUNBAR BRIDGE,NORTH SIDE OF	OTTAWA CITY ON
SPL	PRIVATE OWNER	RIDEAU RIVER, BY HOGGS BACK MARINA	OTTAWA CITY ON
SPL	PRIVATE OWNER	RIDEAU RIVER, BEHIND OTTAWA CITY HALL.	OTTAWA CITY ON
SPL	CARLTON UNIVERSITY	RIDEAU RIVER, @ CARLTON UNIVERSITY	OTTAWA CITY ON
SPL	RIDEAU RIVER PROVINCIAL PARK	RIDEAU RIVER PROV. PARK	OTTAWA CITY ON
SPL		RIDEAU RIVER AT CUMMINGS BRIDGE<UNOFFICIAL>	Ottawa ON
SPL	UNKNOWN	RIDEAU RIVER AT BILLINGS BRIDGE	OTTAWA CITY ON
SPL	PRIVATE OWNER	RIDEAU RIVER @ NESBITT CREEK MOONEYS BAY	OTTAWA CITY ON
SPL	CONTRACTOR	RIDEAU RIVER AT LANSDOWNE PARK	OTTAWA CITY ON

SPL	UNKNOWN	RIDEAU RIVER	OTTAWA CITY ON
SPL	PRIVATE OWNER	RIDEAU RIVER	OTTAWA CITY ON
SPL	ONTARIO CLEAN WATER AGENCY	RIDEAU RIVER	OTTAWA CITY ON
SPL	DUFRESNE PILING	RIDEAU RIVER	OTTAWA CITY ON
SPL	Geo. W. Drummond Excavating Inc<UNOFFICIAL>	Strandherd Dr and Temporary	Ottawa ON
SPL	MacEwen Petroleum Inc.		Ottawa ON
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Unplottable Report

Site: **City of Ottawa**
Strandherd Drive Ottawa ON

Database:
CA

Certificate #: 5791-77LJ85
Application Year: 2007
Issue Date: 10/2/2007
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **City of Ottawa**
Strandherd Drive Ottawa ON

Database:
CA

Certificate #: 1254-73VKL4
Application Year: 2007
Issue Date: 6/17/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Gerry Clarke**
Strandherd Dr Lots 14/15, Concession 3 Ottawa ON

Database:
CA

Certificate #: 1248-7GRPKA
Application Year: 2008
Issue Date: 9/11/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **DCR/PHOENIX DEVELOPMENT CORP.
STRANDHERD DRIVE NEPEAN CITY ON**

Database:
CA

Certificate #: 3-1122-90-
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:

Site: **NEPEAN CITY-LOTS 15 & 16, CONC. 2 & 3
STRANDHERD DR/STORMWATER MANAG NEPEAN CITY ON**

Database:
CA

Certificate #: 3-1089-90-
Application Year: 90
Issue Date: 10/1/1990
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Part of Lot 18 and 19, Concession 1, Spratt Road Gloucester ON**

Database:
CA

Certificate #: 0131-4NFJN4
Application Year: 00
Issue Date: 8/22/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Construction of sanitary and storm sewers on Spratt Road from Goldeneye Way to Hallow Trail Gate.
Contaminants:
Emission Control:

Site: **Part of Lot 18 and 19, Concession 1, Spratt Road Gloucester ON**

Database:
CA

Certificate #: 0122-4NFJF4
Application Year: 00

Issue Date: 8/22/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Construction of watermains on Spratt Road from Goldeneye Way to HallowTrail Gate.
Contaminants:
Emission Control:

Site: **City of Ottawa**
River Road to Limebank Rd Ottawa ON

Database:
CA

Certificate #: 2826-7UPNU6
Application Year: 2009
Issue Date: 8/10/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **City of Ottawa**
River Road to Limebank Rd Ottawa ON

Database:
CA

Certificate #: 9430-7V8P7B
Application Year: 2009
Issue Date: 9/9/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **River Road and part of lots 19 and 20 River Road and Shoreline Drive Gloucester ON**

Database:
CA

Certificate #: 0857-4GAJPW
Application Year: 00
Issue Date: 8/17/00
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: OTTAWA

Client Postal Code: K1G 2H5
Project Description: Watermains and appurtenances to be constructed on River Road and Shoreline Drive
Contaminants:
Emission Control:

Site: **River Road and Shoreline Drive**
River Road and part of lots 19 and 20 Gloucester ON

Database:
CA

Certificate #: 0378-4G7QJB
Application Year: 00
Issue Date: 8/17/00
Approval Type: Municipal & Private sewage
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: Ottawa
Client Postal Code: K1G 2H5
Project Description: Storm and Sanitary sewers and appurtenances to be constructed on River Road and Shoreline Drive
Contaminants:
Emission Control:

Site: **R.M. OF OTTAWA-CARLETON**
WEST BANK OF RIDEAU RIVER NEPEAN CITY ON

Database:
CA

Certificate #: 3-0780-95-
Application Year: 95
Issue Date: 7/17/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **R.M. OF OTTAWA-CARLETON**
WEST BANK OF RIDEAU RIVER NEPEAN CITY ON

Database:
CA

Certificate #: 7-0575-95-
Application Year: 95
Issue Date: 7/17/1995
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Taggart Investments Inc.**
Part of Lot 23, Concession 1, formerly Geographic Township of Cumberland Ottawa ON

Database:
CA

Certificate #: 5894-6G6MVY
Application Year: 2005
Issue Date: 9/26/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Urbandale Corporation**
Part of Lot 20, Concession 1 Ottawa ON

Database:
CA

Certificate #: 5155-667MFQ
Application Year: 2004
Issue Date: 11/1/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Urbandale Corporation**
Part of Lot 20, Concession 1 Ottawa ON

Database:
CA

Certificate #: 6191-5PPQ63
Application Year: 2003
Issue Date: 7/25/2003
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:

Site: **City of Ottawa**
Part from Rideau River Ottawa ON

Database:
CA

Certificate #: 3969-8GWJ8L
Application Year: 2011
Issue Date: 6/14/2011
Approval Type: Municipal and Private Sewage Works

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

Site: **Lot 25 & 26, Concession 1 Ottawa ON** **Database:** **CA**

Certificate #: 6524-4QHTM6
Application Year: 00
Issue Date: 10/30/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1270449 Ontario Inc.
Client Address: 1187 Bank Street
Client City: Ottawa
Client Postal Code: K1S 3X7
Project Description: storm sewers construction on Saundres Ave; sanitary sewers construction on Pooler Ave, Orvigale Road, Porter St.
Contaminants:
Emission Control:

Site: **Lot 25 & 26, Concession 1 Ottawa ON** **Database:** **CA**

Certificate #: 3510-4QHTRG
Application Year: 00
Issue Date: 10/30/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1270449 Ontario Inc.
Client Address: 1187 Bank Street
Client City: Ottawa
Client Postal Code: K1S 3X7
Project Description: watermain construction on pooler ave, orvigale road, porter st.
Contaminants:
Emission Control:

Site: **Lot 20, Conc. 1 (Rideau Front), City of Gloucester Ottawa ON** **Database:** **CA**

Certificate #: 8618-4NANFM
Application Year: 00
Issue Date: 8/17/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Amended CofA
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: Ottawa
Client Postal Code: K1G 2H5

Project Description: Construction of sanitary sewer on River Road from pumping station (approx. 1800 m north of Armstrong Road) to temporary entrance to Riverside South Community (approx. 750 m north of Armstrong Road), temporary Entrance Easement. Construction of storm and sanitary sewers on Shoreline Drive, Wildshore Crescent, Walkway Easement, Commercial Block, and Puffin Court

Contaminants:

Emission Control:

Site: **Lot 20, Conc. 1 (Rideau Front), City of Gloucester Ottawa ON** **Database:**
CA

Certificate #: 5220-4L9R6L
Application Year: 00
Issue Date: 6/15/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: OTTAWA
Client Postal Code: K1G 2H5
Project Description: Construction of Watermain on Cirrus Way from Sandy Forest Place to Giant Cedars Crescent.
Contaminants:
Emission Control:

Site: **Lot 20, Conc. 1 (Rideau Front), City of Gloucester Ottawa ON** **Database:**
CA

Certificate #: 1056-4NANMY
Application Year: 00
Issue Date: 8/17/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: OTTAWA
Client Postal Code: K1G 2H5
Project Description: Construction of watermain on River Road, Shoeline Drive, Wildshore Crescent, Walkway Easement, Commercial Block, and Puffin Court.
Contaminants:
Emission Control:

Site: **Lot 20, Conc. 1 (Rideau Front), City of Gloucester Ottawa ON** **Database:**
CA

Certificate #: 2227-4L9R22
Application Year: 00
Issue Date: 6/15/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: Ottawa
Client Postal Code: K1G 2H5
Project Description: Storm and Sanitary sewers to be constructed on Cirrus Way from Sandy Forest Place to Giant Cedars Crescent.

Contaminants:
Emission Control:

Site: **R.M. OF OTTAWA-CARLETON**
EAST BANK OF RIDEAU RIVER GLOUCESTER CITY ON

Database:
CA

Certificate #: 7-0574-95-
Application Year: 95
Issue Date: 7/11/1995
Approval Type: Municipal water
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **R.M. OF OTTAWA-CARLETON**
EAST BANK OF RIDEAU RIVER GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-0779-95-
Application Year: 95
Issue Date: 7/11/1995
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Bell Canada**
Strandherd Dr, Nepean (Jockvale) ON NEPEAN ON

Database:
CFOT

Registration No.: 200204-1515
Licence No.:
Tank Size: 5072 L
Year Installed: 1993
Tank Material: Fiberglass reinforced plastic
Distributor: Esso
Contact Name: c/o Alain Naud
Contact Address: 3685 Aylmer - Bureau 200
Contact Address2:
Contact City: Montreal
Comments:

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON

Database:
EXP

Instance ID: 37258

TSSA Program Area:
Maximum Hazard Rank:
Instance Number: 10763262
Instance Type: FS Piping
Status: EXPIRED
Description: FS Piping

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON

Database:
EXP

Instance ID: 37817
TSSA Program Area:
Maximum Hazard Rank:
Instance Number: 10763229
Instance Type: FS Piping
Status: EXPIRED
Description: FS Piping

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON

Database:
EXP

Instance ID:
TSSA Program Area:
Maximum Hazard Rank:
Instance Number: 10763253
Instance Type: FS Liquid Fuel Tank
Status: EXPIRED
Description:

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON

Database:
EXP

Instance ID:
TSSA Program Area:
Maximum Hazard Rank:
Instance Number: 9480416
Instance Type: FS Facility
Status: EXPIRED
Description:

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON

Database:
EXP

Instance ID:
TSSA Program Area:
Maximum Hazard Rank:
Instance Number: 10763238
Instance Type: FS Liquid Fuel Tank
Status: EXPIRED
Description:

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON

Database:
EXP

Instance ID: 37355

TSSA Program Area:
Maximum Hazard Rank:
Instance Number: 10763247
Instance Type: FS Piping
Status: EXPIRED
Description: FS Piping

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON

Database:
EXP

Instance ID:
TSSA Program Area:
Maximum Hazard Rank:
Instance Number: 10763220
Instance Type: FS Liquid Fuel Tank
Status: EXPIRED
Description:

Site: **RIDEAU CANAL**
1 1/2 ML. N. OF REGIONAL RD & 8 M. WEST MANOTICK ON

Database:
GEN

SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.
Generator #: ON0992000
Approval Yrs: 99,00,01

--- Details ---

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: **RIDEAU CANAL** **33-433**
NORTHERN AREA OFFICE, 11/2 MI N REG RD 8 MANOTICK ON

Database:
GEN

SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.
Generator #: ON0992000
Approval Yrs: 94,95,96

--- Details ---

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: **RIDEAU CANAL**
NORTHERN AREA OFFICE, 11/2 MI N REG RD 8 MANOTICK ON

Database:
GEN

SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.
Generator #: ON0992000
Approval Yrs: 88,89,90

--- Details ---

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: GVT. OF CAN. - ENVIRONMENT CANADA
RIVER RD. ENVIRONMENTAL TECHNOLOGY CTR. OTTAWA ON

Database:
GEN

SIC Code: 8173
SIC Description: ENVIRON. ADMIN.
Generator #: ON0198101
Approval Yrs: 86,87,88,89,90

--- Details ---

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 222
Waste Description: HEAVY FUELS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Site: ENVIRONMENT CANADA, PARKS DEPT.
1 1/2 ML. N. OF R.R. & 8 ML. W. RIVER RD MANOTICK ON

Database:
GEN

SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.
Generator #: ON0992000
Approval Yrs: 92,93,97,98

--- Details ---

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: NATIONAL CAPITAL COMMISSION
RIDEAU RIVER PARK OTTAWA ON

Database:
GEN

SIC Code: 485510
SIC Description: Charter Bus Industry
Generator #: ON7973777
Approval Yrs: 04

Site: **KEN GORDON EXCAVATING LTD.**
LOT 25, CONC. 1 NEPEAN ON

Database:
GEN

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

--- Details ---

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

Site: **ENVIRONMENT CANADA**
RIVER ROAD LABS OTTAWA ON

Database:
NPCB

Company Code: O3229
Transaction Date: 10/9/1996
Inspection Date: 7/24/1996
Industry: ENVIRONMENT CANADA
Site Status: ITEMS SENT TO SWAN HILLS

Site: **KEN GORDON EXCAVATING LTD**
LOT 25 CON 1 MANOTICK ON

Database:
PRT

Location ID: 8398
Type: private
Expiry Date:
Capacity (L): 54552.00
Licence #: 0001050232

Site: **Ottawa ON**

Database:
RSC

Date Submitted: 07/05/01
Date Acknowledg.:
Date Returned: 07/23/01
Certification Date:
Soil Type:
Restoration Type:
Registration #:
Stratified (Y/N):
Criteria:
Consultant: DST Consulting Engineers Inc.
District Office: Ottawa
Intended Prop Use:
Current Property Use:
Certificate Prop Use #:
Applicable Standards:
Legal Description:

Prop. Identification #:
Entire legal prop. (y/n):
UTM Coordinates:
Latitude & Longitude:
Accuracy Estimate:
Measurement Method:
CPU Issued Sect 1686:

Site: **Ottawa ON** **Database:** **RSC**

Date Submitted: 07/05/01
Date Acknowledg.: 08/14/01
Date Returned:
Certification Date:
Soil Type: Medium/Fine
Restoration Type: Generic
Registration #:
Stratified (Y/N): N
Criteria: Res/parkland + Nonpotable
Consultant: DST Consulting Engineers Inc.
District Office: Ottawa
Intended Prop Use:
Current Property Use:
Certificate Prop Use #:
Applicable Standards:
Legal Description:
Prop. Identification #:
Entire legal prop. (y/n):
UTM Coordinates:
Latitude & Longitude:
Accuracy Estimate:
Measurement Method:
CPU Issued Sect 1686:

Site: **UNKNOWN** **Database:** **SPL**
MONNEYS BAY, RIDEAU RIVER OTTAWA CITY ON

Ref No.: 87033
Incident Dt: 6/15/1993
MOE Reported Dt: 6/15/1993
Contaminant Name:
Contaminant Quantity:
Incident Summary: 3-4 L GASOLINE SLICK ON RIDEAU RIVER AT MOONEYS BAY
Incident Cause: UNKNOWN
Incident Reason: UNKNOWN
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: CONFIRMED

Site: **FINES FLOUR** **Database:** **SPL**
RIVER RD. GLOUCESTER GLOUCESTER CITY ON

Ref No.: 176
Incident Dt: 2/9/1988
MOE Reported Dt: 2/9/1988
Contaminant Name:
Contaminant Quantity:

Incident Summary: OIL FROM ABOVE GROUND STORAGE TANK TO GROUND.
Incident Cause: OTHER CONTAINER LEAK
Incident Reason: MATERIAL FAILURE
Nature of Impact: SOIL CONTAMINATION
Receiving Medium: LAND
Environmental Impact: NOT ANTICIPATED

Site: **KENT FUELS**
RR #2 LODGE RD NEPEAN CITY ON

Database:
SPL

Ref No.: 28804
Incident Dt: 12/12/1989
MOE Reported Dt: 12/12/1989
Contaminant Name:
Contaminant Quantity:
Incident Summary: KENT FUELS - 10-15L OF #2 FUEL OIL TO GROUND, CLEANED UP.
Incident Cause: PIPE/HOSE LEAK
Incident Reason: GASKET/JOINT
Nature of Impact:
Receiving Medium: LAND
Environmental Impact:

Site: **Rideau River (Manotick) Ottawa ON**

Database:
SPL

Ref No.: 5588-7EPVH4
Incident Dt:
MOE Reported Dt: 5/16/2008
Contaminant Name: GASOLINE
Contaminant Quantity: other - see incident description
Incident Summary: 14 ft alum boat into damn, gas to the Rideau River
Incident Cause: Other Transport Accident
Incident Reason: Spill
Nature of Impact: Surface Water Pollution
Receiving Medium:
Environmental Impact: Possible

Site: **CONSTRUCTION COMPANY**
RIDEAU RIVER;DUFRESNE PILING-WEST OF ROBERT DUNBAR BRIDGE,NORTH SIDE OF OTTAWA CITY ON

Database:
SPL

Ref No.: 112474
Incident Dt: 4/28/1995
MOE Reported Dt: 4/28/1995
Contaminant Name:
Contaminant Quantity:
Incident Summary: DURFRESNE PILING-15L HYD-RAULIC FLUID TO RIDEAU R.BERMED.RM O-C.
Incident Cause: PIPE/HOSE LEAK
Incident Reason: UNKNOWN
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: **PRIVATE OWNER**
RIDEAU RIVER, BY HOGGS BACK MARINA OTTAWA CITY ON

Database:
SPL

Ref No.: 158733
Incident Dt: 8/6/1998
MOE Reported Dt: 8/6/1998
Contaminant Name:
Contaminant Quantity:
Incident Summary: PRIVATE OWNER: DIESEL FUEL TO RIVER FROM SUNKEN BOAT.
Incident Cause: WATERCRAFT SINKING
Incident Reason: UNKNOWN
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: PRIVATE OWNER
RIDEAU RIVER, BEHIND OTTAWA CITY HALL. OTTAWA CITY ON

Database:
SPL

Ref No.: 132853
Incident Dt: 10/9/1996
MOE Reported Dt: 10/9/1996
Contaminant Name:
Contaminant Quantity:
Incident Summary: PRIVATE CAR INTO RIDEAU RIVER & LEAKING GASOLINE,POLICE & REGION ON SITE.
Incident Cause: OTHER CAUSE (N.O.S.)
Incident Reason: UNKNOWN
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: CARLTON UNIVERSITY
RIDEAU RIVER, @ CARLTON UNIVERSITY OTTAWA CITY ON

Database:
SPL

Ref No.: 125916
Incident Dt: 5/4/1996
MOE Reported Dt: 5/4/1996
Contaminant Name:
Contaminant Quantity:
Incident Summary: CARLTON U.:INDOOR DIESEL TO SUMP & SMALL AMOUNT TO STORM SEWER:
CLEANING
Incident Cause: CONTAINER OVERFLOW
Incident Reason: ERROR
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: NOT ANTICIPATED

Site: RIDEAU RIVER PROVINCIAL PARK
RIDEAU RIVER PROV. PARK OTTAWA CITY ON

Database:
SPL

Ref No.: 86720
Incident Dt: 6/9/1993
MOE Reported Dt: 6/9/1993
Contaminant Name:
Contaminant Quantity:
Incident Summary: RIDEAU R. PROV. PARK: SMALL AMOUNT OF 54PPM PCBTRANSFORMER OIL TO
SOIL
Incident Cause: COOLING SYSTEM LEAK
Incident Reason: GASKET/JOINT
Nature of Impact: Soil contamination
Receiving Medium: LAND
Environmental Impact: POSSIBLE

Site: **RIDEAU RIVER AT CUMMINGS BRIDGE<UNOFFICIAL> Ottawa ON** **Database:** **SPL**

Ref No.: 6146-673QHT
Incident Dt: 11/25/2004
MOE Reported Dt: 11/25/2004
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Quantity:
Incident Summary: Oil Sheen on Rideau River
Incident Cause: Unknown
Incident Reason: Unknown - Reason not determined
Nature of Impact:
Receiving Medium: Water
Environmental Impact: Not Anticipated

Site: **UNKNOWN** **Database:** **SPL**
RIDEAU RIVER AT BILLINGS BRIDGE OTTAWA CITY ON

Ref No.: 3861
Incident Dt: 5/12/1988
MOE Reported Dt: 5/12/1988
Contaminant Name:
Contaminant Quantity:
Incident Summary: FEDERAL PROPERTY-APPROX. 45 L PETROLEUM TO RIDEAU RIVER 05/12
Incident Cause: UNKNOWN
Incident Reason: UNKNOWN
Nature of Impact: WATER COURSE OR LAKE
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: **PRIVATE OWNER** **Database:** **SPL**
RIDEAU RIVER @ NESBITT CREEK MOONEYS BAY OTTAWA CITY ON

Ref No.: 41095
Incident Dt: 9/21/1990
MOE Reported Dt: 9/21/1990
Contaminant Name:
Contaminant Quantity:
Incident Summary: OIL ENTERING RIDEAU RIVER DUE TO STORM RUN-OFF FROM PARKING AREA
Incident Cause: OTHER CONTAINER LEAK
Incident Reason: UNKNOWN
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: **CONTRACTOR** **Database:** **SPL**
RIDEAU RIVER AT LANSDOWNE PARK OTTAWA CITY ON

Ref No.: 94285
Incident Dt: 12/8/1993
MOE Reported Dt: 12/8/1993
Contaminant Name:
Contaminant Quantity:
Incident Summary: STAR CONSTRUCTION - SILT TO THE RIDEAU R. AT CONSTRUCTION SITE.
Incident Cause: WASTEWATER DISCHARGE TO WATER COURSE

Incident Reason: EQUIPMENT FAILURE
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: UNKNOWN
RIDEAU RIVER OTTAWA CITY ON

Database:
SPL

Ref No.: 20514
Incident Dt: 5/2/1989
MOE Reported Dt: 5/2/1989
Contaminant Name:
Contaminant Quantity:
Incident Summary: BACKENTRY - OIL FROM SEWER OUTFALL TO RIDEAU R (AMOUNT UNKNOWN)
Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE
Incident Reason: UNKNOWN
Nature of Impact:
Receiving Medium: WATER
Environmental Impact: NOT ANTICIPATED

Site: PRIVATE OWNER
RIDEAU RIVER OTTAWA CITY ON

Database:
SPL

Ref No.: 156424
Incident Dt: 5/14/1998
MOE Reported Dt: 5/15/1998
Contaminant Name:
Contaminant Quantity:
Incident Summary: CARLETON UNIVERSITY: SEWAGE BACKUP IN SANITARY SEWER - OVERFLOW TO RIVER
Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE
Incident Reason: OTHER
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: ONTARIO CLEAN WATER AGENCY
RIDEAU RIVER OTTAWA CITY ON

Database:
SPL

Ref No.: 238255
Incident Dt: 9/5/2002
MOE Reported Dt: 9/5/2002
Contaminant Name:
Contaminant Quantity:
Incident Summary: O.C.W.A.-BYPASS OF TREATED SEWAGE, MAINTENANCE.
Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE
Incident Reason: INTENTIONAL/PLANNED
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: DUFRESNE PILING
RIDEAU RIVER OTTAWA CITY ON

Database:
SPL

Ref No.: 91224
Incident Dt: 9/13/1993

MOE Reported Dt: 9/14/1993
Contaminant Name:
Contaminant Quantity:
Incident Summary: DUFRENSE CONSTRUCTION-200L HYDRAULIC OIL TO RIVER, BOOMS INPLACE.
Incident Cause: PIPE/HOSE LEAK
Incident Reason: EQUIPMENT FAILURE
Nature of Impact: Water course or lake
Receiving Medium: WATER
Environmental Impact: POSSIBLE

Site: **Geo. W. Drummond Excavating Inc<UNOFFICIAL>**
Strandherd Dr and Temporary Ottawa ON

Database:
SPL

Ref No.: 6067-6EASVT
Incident Dt: 7/14/2005
MOE Reported Dt: 7/14/2005
Contaminant Name: DIESEL FUEL
Contaminant Quantity: unknown L
Incident Summary: Ottawa: MVA 300 L diesel to road, cleaning
Incident Cause: Overturn - Truck Or Trailer
Incident Reason:
Nature of Impact: Soil Contamination
Receiving Medium: Land
Environmental Impact: Not Anticipated

Site: **MacEwen Petroleum Inc.**
Ottawa ON

Database:
SPL

Ref No.: 8700-8QT5DV
Incident Dt: 23-JAN-12
MOE Reported Dt: 23-JAN-12
Contaminant Name: FUEL (N.O.S.)
Contaminant Quantity:
Incident Summary: MacEwen Fuels <54000L on board tanker in ditch, spill cont.
Incident Cause: Overturn - Truck Or Trailer
Incident Reason: Unknown - Reason not determined
Nature of Impact: Soil Contamination
Receiving Medium: Sewage - Municipal/Private and Commercial
Environmental Impact: Confirmed

Site:
ON

Database:
WWIS

Well ID:	1523747	Lot:	025
Concession:		Concession	
		Name:	
County:	OTTAWA-CARLETON	Municipality:	OTTAWA CITY
Easting Nad83:		Northing	
		Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Industrial	Construction	12-JUN-89
		Date:	
Sec. Water Use:		Well Depth:	250 ft
Pump Rate:	14 GPM	Static Water	19 ft
		Level:	
Flow Rate:		Clear/Cloudy:	CLOUDY
Specific Capacity:		Final Well	Water Supply
		Status:	

Construction Method: Air Percussion
Elevation (m):

Depth to Bedrock: 32

Water Type: FRESH

Flowing (y/n): N
Elevation
Reliability:
Overburden/Bedrock: Bedrock
Casing Material: FRESH, MINERAL

--- Details ---

Thickness: GREY
Material Colour: LIMESTONE, SHALY
+
Thickness: GREY
Material Colour: CLAY

Original Depth: 250 ft
Material: 218 ft

Original Depth: 32 ft
Material: 32 ft

Site:

OTTAWA ON

Database:
WWIS

Well ID: 1536491
Concession: 01

County: OTTAWA-CARLETON
Easting Nad83:

Zone:
Primary Water Use:

Sec. Water Use:
Pump Rate:

Flow Rate:
Specific Capacity:

Construction Method:
Elevation (m):

Depth to Bedrock:

Water Type:

Lot: 010
Concession RF
Name:
Municipality:
Northing
Nad83:
Utm Reliability: unknown UTM
Construction 06-FEB-06
Date:
Well Depth:
Static Water
Level:
Clear/Cloudy:
Final Well Status: Abandoned-Other
Flowing (y/n):
Elevation
Reliability:
Overburden/Bedrock: No formation data
Casing
Material:

Site:

OTTAWA ON

Database:
WWIS

Well ID: 7048804
Concession:

County: OTTAWA-CARLETON
Easting Nad83:

Zone:
Primary Water Use: Domestic

Sec. Water Use:
Pump Rate:

Flow Rate:
Specific Capacity:

Construction Method: Other Method
Elevation (m):

Lot:
Concession
Name:
Municipality: OTTAWA CITY
Northing
Nad83:
Utm Reliability: unknown UTM
Construction 24-AUG-07
Date:
Well Depth:
Static Water
Level:
Clear/Cloudy:
Final Well Status: Water Supply
Flowing (y/n):
Elevation

Depth to Bedrock:

Water Type:

Reliability:
Overburden/Bedrock:
Casing
Material:

Site:		Database:	
ON		WWIS	
Well ID:	1528229	Lot:	025
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	22-SEP-94
Sec. Water Use:		Well Depth:	100 ft
Pump Rate:	6 GPM	Static Water Level:	14 ft
Flow Rate:		Clear/Cloudy:	CLOUDY
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Rotary (Air)	Flowing (y/n):	N
Elevation (m):		Elevation Reliability:	
Depth to Bedrock:	13	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	FRESH
--- Details ---			
Thickness:	BROWN	Original Depth:	13 ft
Material Colour:	HARDPAN, BOULDERS, HARD	Material:	13 ft
+			
Thickness:	GREY	Original Depth:	100 ft
Material Colour:	LIMESTONE, SHALE, LAYERED	Material:	87 ft

Site:		Database:	
ON		WWIS	
Well ID:	1522704	Lot:	020
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:		Northing Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction Date:	23-SEP-88
Sec. Water Use:		Well Depth:	59 ft
Pump Rate:	30 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):		Elevation Reliability:	
Depth to Bedrock:	58	Overburden/Bedrock:	Bedrock

Water Type:	FRESH	drock:	
		Casing	FRESH
		Material:	

--- Details ---

Thickness:	GREY	Original Depth:	59 ft
Material Colour:	LIMESTONE	Material:	1 ft
+			
Thickness:	GREY	Original Depth:	40 ft
Material Colour:	CLAY	Material:	30 ft
+			
Thickness:	GREY	Original Depth:	58 ft
Material Colour:	GRAVEL, SAND	Material:	18 ft
+			
Thickness:	BROWN	Original Depth:	10 ft
Material Colour:	SAND	Material:	10 ft

Site:	ON	Database:	WWIS
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Well ID:	1524118	Lot:	020
Concession:		Concession	
		Name:	
County:	OTTAWA-CARLETON	Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:		Northing	
		Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction	04-OCT-89
		Date:	
Sec. Water Use:		Well Depth:	63 ft
Pump Rate:	20 GPM	Static Water	8 ft
		Level:	
Flow Rate:		Clear/Cloudy:	CLOUDY
Specific Capacity:		Final Well	Recharge Well
		Status:	
Construction Method:	Air Percussion	Flowing (y/n):	N
Elevation (m):		Elevation	
		Reliability:	
Depth to Bedrock:	26	Overburden/Be	Bedrock
		drock:	
Water Type:	FRESH	Casing	FRESH
		Material:	

--- Details ---

Thickness:	GREY	Original Depth:	26 ft
Material Colour:	CLAY	Material:	26 ft
+			
Thickness:	GREY	Original Depth:	63 ft
Material Colour:	LIMESTONE	Material:	37 ft

Site:	ON	Database:	WWIS
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Well ID:	1522715	Lot:	012
Concession:		Concession	
		Name:	
County:	OTTAWA-CARLETON	Municipality:	GLOUCESTER TOWNSHIP
Easting Nad83:		Northing	
		Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction	17-AUG-88
		Date:	

<i>Sec. Water Use:</i>		<i>Well Depth:</i>	63 ft
<i>Pump Rate:</i>	40 GPM	<i>Static Water</i>	30 ft
<i>Flow Rate:</i>		<i>Level:</i>	
<i>Specific Capacity:</i>		<i>Clear/Cloudy:</i>	CLOUDY
		<i>Final Well</i>	Water Supply
		<i>Status:</i>	
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation</i>	
		<i>Reliability:</i>	
<i>Depth to Bedrock:</i>	52	<i>Overburden/Bedrock:</i>	Bedrock
		<i>Casing</i>	FRESH, MINERIAL
<i>Water Type:</i>	FRESH	<i>Material:</i>	

--- Details ---

<i>Thickness:</i>	GREY	<i>Original Depth:</i>	63 ft
<i>Material Colour:</i>	LIMESTONE, FRACTURED	<i>Material:</i>	11 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	43 ft
<i>Material Colour:</i>	CLAY	<i>Material:</i>	43 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	52 ft
<i>Material Colour:</i>	HARDPAN, STONES	<i>Material:</i>	9 ft

Site:

ON

Database:

WWIS

<i>Well ID:</i>	1523196	<i>Lot:</i>	012
<i>Concession:</i>		<i>Concession</i>	
		<i>Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	NEPEAN TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing</i>	
		<i>Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>		<i>Construction</i>	15-JUL-88
		<i>Date:</i>	
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	78 ft
<i>Pump Rate:</i>	20 GPM	<i>Static Water</i>	8 ft
		<i>Level:</i>	
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLEAR
<i>Specific Capacity:</i>		<i>Final Well</i>	
		<i>Status:</i>	
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation</i>	
		<i>Reliability:</i>	
<i>Depth to Bedrock:</i>	8	<i>Overburden/Bedrock:</i>	Bedrock
		<i>Casing</i>	FRESH, MINERIAL
<i>Water Type:</i>	FRESH	<i>Material:</i>	

--- Details ---

<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	8 ft
<i>Material Colour:</i>	CLAY, FILL, PACKED	<i>Material:</i>	8 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	78 ft
<i>Material Colour:</i>	LIMESTONE, SANDSTONE, HARD	<i>Material:</i>	70 ft

Site:

ON

Database:

WWIS

<i>Well ID:</i>	1528551	<i>Lot:</i>	025
<i>Concession:</i>		<i>Concession</i>	

<i>County:</i>	OTTAWA-CARLETON	<i>Name:</i>	
<i>Easting Nad83:</i>		<i>Municipality:</i>	NEPEAN TOWNSHIP
<i>Zone:</i>	18	<i>Northing</i>	
<i>Primary Water Use:</i>	Domestic	<i>Nad83:</i>	
<i>Sec. Water Use:</i>		<i>Utm Reliability:</i>	unknown UTM
<i>Pump Rate:</i>	15 GPM	<i>Construction</i>	20-JUN-95
<i>Flow Rate:</i>		<i>Date:</i>	
<i>Specific Capacity:</i>		<i>Well Depth:</i>	83 ft
<i>Construction Method:</i>	Air Percussion	<i>Static Water</i>	48 ft
<i>Elevation (m):</i>		<i>Level:</i>	
<i>Depth to Bedrock:</i>	71	<i>Clear/Cloudy:</i>	CLOUDY
<i>Water Type:</i>	Not stated	<i>Final Well</i>	Water Supply
		<i>Status:</i>	
		<i>Flowing (y/n):</i>	N
		<i>Elevation</i>	
		<i>Reliability:</i>	
		<i>Overburden/Bedrock:</i>	Bedrock
		<i>Casing</i>	FRESH, MINERIAL
		<i>Material:</i>	

<i>--- Details ---</i>			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	71 ft
<i>Material Colour:</i>	CLAY, TOPSOIL	<i>Material:</i>	71 ft
<i>+</i>			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	83 ft
<i>Material Colour:</i>	LIMESTONE, FRACTURED	<i>Material:</i>	12 ft

<u>Site:</u>	ON	Database:	WWIS
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<i>Well ID:</i>	1530915	<i>Lot:</i>	012
<i>Concession:</i>		<i>Concession</i>	LI
<i>County:</i>	OTTAWA-CARLETON	<i>Name:</i>	
<i>Easting Nad83:</i>		<i>Municipality:</i>	GLOUCESTER TOWNSHIP
<i>Zone:</i>	18	<i>Northing</i>	
<i>Primary Water Use:</i>	Domestic	<i>Nad83:</i>	
<i>Sec. Water Use:</i>		<i>Utm Reliability:</i>	unknown UTM
<i>Pump Rate:</i>	28 GPM	<i>Construction</i>	15-OCT-99
<i>Flow Rate:</i>		<i>Date:</i>	
<i>Specific Capacity:</i>		<i>Well Depth:</i>	60 ft
<i>Construction Method:</i>	Air Percussion	<i>Static Water</i>	21 ft
<i>Elevation (m):</i>		<i>Level:</i>	
<i>Depth to Bedrock:</i>	45	<i>Clear/Cloudy:</i>	CLOUDY
<i>Water Type:</i>	FRESH	<i>Final Well</i>	Water Supply
		<i>Status:</i>	
		<i>Flowing (y/n):</i>	N
		<i>Elevation</i>	
		<i>Reliability:</i>	
		<i>Overburden/Bedrock:</i>	Bedrock
		<i>Casing</i>	FRESH, MINERIAL
		<i>Material:</i>	

<i>--- Details ---</i>			
<i>Thickness:</i>		<i>Original Depth:</i>	45 ft
<i>Material Colour:</i>	GRAVEL, BOULDERS	<i>Material:</i>	31 ft
<i>+</i>			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	60 ft
<i>Material Colour:</i>	LIMESTONE	<i>Material:</i>	15 ft
<i>+</i>			
<i>Thickness:</i>		<i>Original Depth:</i>	14 ft
<i>Material Colour:</i>	CLAY	<i>Material:</i>	14 ft

Site:		Database:	
ON		WWIS	
Well ID:	1535508	Lot:	012
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	OTTAWA CITY
Zone:		Northing	
Primary Water Use:		Nad83:	
Sec. Water Use:		Utm Reliability:	
Pump Rate:		Construction	10-MAY-05
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	
Construction Method:	Other Method	Static Water	
Elevation (m):		Level:	
Depth to Bedrock:		Clear/Cloudy:	
Water Type:		Final Well	
		Status:	
		Flowing (y/n):	
		Elevation	
		Reliability:	
		Overburden/Bedrock:	No formation data
		Casing	
		Material:	

Site:		Database:	
ON		WWIS	
Well ID:	1520054	Lot:	012
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	NEPEAN TOWNSHIP
Zone:	18	Northing	
Primary Water Use:	Domestic	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:	50 GPM	Construction	08-JUL-85
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	75 ft
Construction Method:	Rotary (Air)	Static Water	0 ft
Elevation (m):		Level:	
Depth to Bedrock:	60	Clear/Cloudy:	CLEAR
Water Type:	FRESH	Final Well	Water Supply
		Status:	
		Flowing (y/n):	N
		Elevation	
		Reliability:	
		Overburden/Bedrock:	Bedrock
		Casing	FRESH
		Material:	
--- Details ---			
Thickness:	GREY	Original Depth:	75 ft
Material Colour:	LIMESTONE, ROCK, HARD	Material:	7 ft
+			
Thickness:	BROWN	Original Depth:	1 ft
Material Colour:	FILL, LOOSE, PACKED	Material:	1 ft
+			
Thickness:	BROWN	Original Depth:	2 ft

Material Colour:	SILT, SAND, PACKED	Material:	1 ft
+			
Thickness:	BROWN	Original Depth:	14 ft
Material Colour:	CLAY, PACKED	Material:	12 ft
+			
Thickness:	GREY	Original Depth:	60 ft
Material Colour:	CLAY, BOULDERS, CEMENTED	Material:	46 ft
+			
Thickness:	GREY	Original Depth:	68 ft
Material Colour:	ROCK, GRAVEL, FRACTURED	Material:	8 ft

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

Well ID:	1524120	Lot:	020
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	GLOUCESTER TOWNSHIP
Zone:	18	Northing	
Primary Water Use:	Domestic	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:	20 GPM	Construction	04-OCT-89
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	63 ft
Construction Method:	Air Percussion	Static Water	8 ft
Elevation (m):		Level:	
Depth to Bedrock:	27	Clear/Cloudy:	CLOUDY
Water Type:	FRESH	Final Well	Water Supply
---		Status:	
Thickness:	GREY	Flowing (y/n):	N
Material Colour:	CLAY	Elevation	
+		Reliability:	
Thickness:	GREY	Overburden/Bedrock:	Bedrock
Material Colour:	LIMESTONE	Casing	FRESH, MINERIAL
		Material:	
		Original Depth:	27 ft
		Material:	27 ft
		Original Depth:	63 ft
		Material:	36 ft

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

Well ID:	1527942	Lot:	020
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	NEPEAN TOWNSHIP
Zone:	18	Northing	
Primary Water Use:		Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:	25 GPM	Construction	03-JUN-94
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	97 ft
Construction Method:	Not Known	Static Water	4 ft
		Level:	
		Clear/Cloudy:	CLOUDY
		Final Well	
		Status:	
		Flowing (y/n):	N

Elevation (m):

Depth to Bedrock: 16

Water Type: FRESH

Elevation

Reliability:

Overburden/Bedrock: Bedrock

Casing Material: FRESH, MINERAL

--- Details ---

Thickness: BLACK
Material Colour: LIMESTONE

Original Depth: 97 ft
Material: 27 ft

+
Thickness: GREY
Material Colour: CLAY, BOULDERS, PACKED

Original Depth: 16 ft
Material: 16 ft

+
Thickness: GREY
Material Colour: LIMESTONE

Original Depth: 70 ft
Material: 54 ft

Site:

ON

Database:

WWIS

Well ID: 1534331
Concession:

Lot: 020
Concession: OF

County: OTTAWA-CARLETON
Easting Nad83:

Name:
Municipality: GLOUCESTER TOWNSHIP

Zone: 18
Primary Water Use: Domestic

Nad83:
Utm Reliability: unknown UTM
Construction: 25-SEP-03

Sec. Water Use:
Pump Rate:

Date:
Well Depth:
Static Water

Flow Rate:
Specific Capacity:

Level:
Clear/Cloudy:
Final Well: Abandoned-Other

Construction Method: Not Known
Elevation (m):

Status:
Flowing (y/n):
Elevation

Depth to Bedrock:

Reliability:
Overburden/Bedrock: No formation data

Water Type:

Casing
Material:

Site:

ON

Database:

WWIS

Well ID: 1525335
Concession:

Lot: 020
Concession

County: OTTAWA-CARLETON
Easting Nad83:

Name:
Municipality: GLOUCESTER TOWNSHIP

Zone: 18
Primary Water Use: Domestic

Nad83:
Utm Reliability: unknown UTM
Construction: 06-DEC-90

Sec. Water Use:
Pump Rate: 10 GPM

Date:
Well Depth: 55 ft
Static Water: 20 ft

Flow Rate:
Specific Capacity:

Level:
Clear/Cloudy: CLEAR
Final Well: Water Supply
Status:

Construction Method:	Rotary (Air)	Flowing (y/n):	N
Elevation (m):		Elevation	
Depth to Bedrock:	48	Reliability:	
Water Type:	FRESH	Overburden/Bedrock:	Bedrock
		Casing	FRESH
		Material:	

--- Details ---

Thickness:		Original Depth:	14 ft
Material Colour:	CLAY	Material:	14 ft
+			
Thickness:		Original Depth:	30 ft
Material Colour:	HARDPAN	Material:	16 ft
+			
Thickness:		Original Depth:	48 ft
Material Colour:	GRAVEL, SAND	Material:	18 ft
+			
Thickness:		Original Depth:	55 ft
Material Colour:	LIMESTONE	Material:	7 ft

Site:

ON

Database:

WWIS

Well ID:	1531525	Lot:	011
Concession:	01	Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	GLOUCESTER TOWNSHIP
Zone:	18	Northing	
Primary Water Use:	Domestic	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:	15 GPM	Construction	13-SEP-00
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	122 ft
Construction Method:	Rotary (Air)	Static Water	42 ft
Elevation (m):		Level:	
Depth to Bedrock:	71	Clear/Cloudy:	CLOUDY
Water Type:	Not stated	Final Well	Water Supply
		Status:	
		Flowing (y/n):	N
		Elevation	
		Reliability:	
		Overburden/Bedrock:	Bedrock
		Casing	FRESH
		Material:	

--- Details ---

Thickness:	GREY	Original Depth:	30 ft
Material Colour:	CLAY	Material:	30 ft
+			
Thickness:	GREY	Original Depth:	71 ft
Material Colour:	SAND, BOULDERS	Material:	41 ft
+			
Thickness:	GREY	Original Depth:	122 ft
Material Colour:	LIMESTONE	Material:	51 ft

Site:

ON

Database:

WWIS

Well ID:	1534269	Lot:	011
Concession:		Concession	

County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	NEPEAN TOWNSHIP
		Northing	
Zone:	18	Nad83:	
Primary Water Use:	Not Used	Utm Reliability:	unknown UTM
		Construction	26-SEP-03
Sec. Water Use:		Date:	
Pump Rate:		Well Depth:	
		Static Water	
Flow Rate:		Level:	
Specific Capacity:		Clear/Cloudy:	
		Final Well	Not A Well
Construction Method:	Other Method	Status:	
Elevation (m):		Flowing (y/n):	
		Elevation	
Depth to Bedrock:		Reliability:	
		Overburden/Bedrock:	No formation data
Water Type:		Casing	
		Material:	

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

Well ID:	1523111	Lot:	022
Concession:		Concession	
		Name:	
County:	OTTAWA-CARLETON	Municipality:	NEPEAN TOWNSHIP
Easting Nad83:		Northing	
		Nad83:	
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Domestic	Construction	19-DEC-88
		Date:	
Sec. Water Use:		Well Depth:	50 ft
Pump Rate:	20 GPM	Static Water	30 ft
		Level:	
Flow Rate:		Clear/Cloudy:	CLOUDY
Specific Capacity:		Final Well	Water Supply
Construction Method:	Air Percussion	Status:	
Elevation (m):		Flowing (y/n):	N
		Elevation	
Depth to Bedrock:		Reliability:	
		Overburden/Bedrock:	Overburden
Water Type:	FRESH	Casing	FRESH
		Material:	

--- Details ---

Thickness:	GREY	Original Depth:	35 ft
Material Colour:	CLAY, STONES	Material:	35 ft
+			
Thickness:	GREY	Original Depth:	45 ft
Material Colour:	HARDPAN	Material:	10 ft
+			
Thickness:	GREY	Original Depth:	50 ft
Material Colour:	HARDPAN, GRAVEL	Material:	5 ft

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

Well ID:	1527659	Lot:	022
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Concession:

County: OTTAWA-CARLETON
Easting Nad83:

Zone: 18
Primary Water Use: Domestic

Sec. Water Use:
Pump Rate: 30 GPM

Flow Rate:
Specific Capacity:

Construction Method: Cable Tool
Elevation (m):

Depth to Bedrock: 24

Water Type: FRESH

--- Details ---

Thickness: BROWN
Material Colour: SAND, GRAVEL, STONES
+
Thickness: GREY
Material Colour: LIMESTONE, ROCK, HARD

Concession

Name:
Municipality: GLOUCESTER TOWNSHIP
Northing
Nad83:
Utm Reliability: unknown UTM
Construction Date: 27-NOV-93
Well Depth: 75 ft
Static Water Level: 22 ft
Clear/Cloudy:
Final Well Status: Water Supply
Flowing (y/n): N
Elevation
Reliability:
Overburden/Bedrock: Bedrock
Casing Material: FRESH

Original Depth: 24 ft
Material: 24 ft

Original Depth: 75 ft
Material: 51 ft

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

Well ID: 1521468
Concession:

County: OTTAWA-CARLETON
Easting Nad83:

Zone: 18
Primary Water Use: Domestic

Sec. Water Use:
Pump Rate: 10 GPM

Flow Rate:
Specific Capacity:

Construction Method: Air Percussion
Elevation (m):

Depth to Bedrock: 56

Water Type: FRESH

Lot: 022
Concession
Name:
Municipality: GLOUCESTER TOWNSHIP
Northing
Nad83:
Utm Reliability: unknown UTM
Construction Date: 30-APR-87
Well Depth: 125 ft
Static Water Level: 15 ft
Clear/Cloudy: CLEAR
Final Well Status: Water Supply
Flowing (y/n): N
Elevation
Reliability:
Overburden/Bedrock: Bedrock
Casing Material: FRESH, MINERIAL

Original Depth: 50 ft
Material: 15 ft

Original Depth: 56 ft
Material: 6 ft

Original Depth: 35 ft

--- Details ---

Thickness: GREY
Material Colour: HARDPAN, BOULDERS, PACKED
+
Thickness: GREY
Material Colour: SAND, GRAVEL
+
Thickness: GREY

Material Colour: CLAY, PACKED
+
Thickness: BROWN
Material Colour: CLAY, PACKED
+
Thickness: GREY
Material Colour: SANDSTONE, HARD

Material: 18 ft
Original Depth: 17 ft
Material: 17 ft
Original Depth: 125 ft
Material: 69 ft

Site:

ON

Database:
WWIS

Well ID: 1519738
Concession:

County: OTTAWA-CARLETON
Easting Nad83:

Zone: 18
Primary Water Use: Domestic

Sec. Water Use:
Pump Rate: 10 GPM

Flow Rate:
Specific Capacity:

Construction Method: Air Percussion
Elevation (m):

Depth to Bedrock: 112

Water Type: FRESH

Lot: 021
Concession
Name:
Municipality: NEPEAN TOWNSHIP
Northing
Nad83:
Utm Reliability: unknown UTM
Construction 03-JUN-85
Date:
Well Depth: 165 ft
Static Water
Level:
Clear/Cloudy: CLOUDY
Final Well Water Supply
Status:
Flowing (y/n): N
Elevation
Reliability:
Overburden/Bedrock: Bedrock
Casing FRESH, MINERIAL
Material:

--- Details ---

Thickness: GREY
Material Colour: HARDPAN, STONES
+
Thickness: GREY
Material Colour: LIMESTONE
+
Thickness: GREY
Material Colour: CLAY

Original Depth: 112 ft
Material: 24 ft

Original Depth: 165 ft
Material: 53 ft

Original Depth: 88 ft
Material: 88 ft

Site:

ON

Database:
WWIS

Well ID: 1519741
Concession:

County: OTTAWA-CARLETON
Easting Nad83:

Zone: 18
Primary Water Use: Domestic

Sec. Water Use:
Pump Rate: 30 GPM

Flow Rate:
Specific Capacity:

Construction Method: Cable Tool

Lot: 021
Concession
Name:
Municipality: NEPEAN TOWNSHIP
Northing
Nad83:
Utm Reliability: unknown UTM
Construction 16-MAY-85
Date:
Well Depth: 84 ft
Static Water 0 ft
Level:
Clear/Cloudy: CLEAR
Final Well Water Supply
Status:
Flowing (y/n): N

Elevation (m):

Depth to Bedrock: 81

Water Type: FRESH

Elevation

Reliability:

Overburden/Bedrock: Bedrock

Casing Material: FRESH, MINERAL

--- Details ---

Thickness: BROWN
Material Colour: CLAY, PACKED

+
Thickness: BLUE
Material Colour: CLAY, LOOSE

+
Thickness: GREY
Material Colour: SAND, GRAVEL, BOULDERS

+
Thickness: GREY
Material Colour: LIMESTONE

Original Depth: 16 ft
Material: 16 ft

Original Depth: 65 ft
Material: 49 ft

Original Depth: 81 ft
Material: 16 ft

Original Depth: 84 ft
Material: 3 ft

Site:

ON

Database:

WWIS

Well ID: 1517130

Concession:

County: OTTAWA-CARLETON

Easting Nad83:

Zone: 18

Primary Water Use: Domestic

Sec. Water Use:

Pump Rate: 12 GPM

Flow Rate:

Specific Capacity:

Construction Method: Air Percussion

Elevation (m):

Depth to Bedrock: 38

Water Type: FRESH

Lot: 011

Concession

Name:

Municipality: GLOUCESTER TOWNSHIP

Northing

Nad83:

Utm Reliability: unknown UTM

Construction Date: 10-SEP-79

Well Depth:

Static Water Level: 55 ft

Clear/Cloudy: 18 ft

Final Well

Status: CLOUDY
Water Supply

Flowing (y/n):

Elevation: N

Reliability:

Overburden/Bedrock: Bedrock

Casing

Material: FRESH

--- Details ---

Thickness: GREY
Material Colour: CLAY

+
Thickness: GREY
Material Colour: LIMESTONE

Original Depth: 38 ft
Material: 38 ft

Original Depth: 55 ft
Material: 17 ft

Site:

ON

Database:

WWIS

Well ID: 1531407

Concession: 01

County: OTTAWA-CARLETON

Easting Nad83:

Lot: 021

Concession: CON

Name:

Municipality: GLOUCESTER TOWNSHIP

Northing

Nad83:

<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	27-SEP-00
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	150 ft
<i>Pump Rate:</i>	6 GPM	<i>Static Water Level:</i>	32 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLOUDY
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Rotary (Air)	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	0	<i>Overburden/Bedrock:</i>	Overburden below Bedrock
<i>Water Type:</i>	Not stated	<i>Casing Material:</i>	FRESH, MINERIAL

--- Details ---

<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	12 ft
<i>Material Colour:</i>	LIMESTONE	<i>Material:</i>	12 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	150 ft
<i>Material Colour:</i>	LIMESTONE, HARD	<i>Material:</i>	92 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	58 ft
<i>Material Colour:</i>	SAND, STONES	<i>Material:</i>	26 ft
+			
<i>Thickness:</i>	BROWN	<i>Original Depth:</i>	32 ft
<i>Material Colour:</i>	CLAY, SANDY	<i>Material:</i>	20 ft

<u>Site:</u>	ON	<u>Database:</u>	WWIS
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<i>Well ID:</i>	1520631	<i>Lot:</i>	023
<i>Concession:</i>		<i>Concession Name:</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Municipality:</i>	GLOUCESTER TOWNSHIP
<i>Easting Nad83:</i>		<i>Northing Nad83:</i>	
<i>Zone:</i>	18	<i>Utm Reliability:</i>	unknown UTM
<i>Primary Water Use:</i>	Domestic	<i>Construction Date:</i>	05-MAY-86
<i>Sec. Water Use:</i>		<i>Well Depth:</i>	63 ft
<i>Pump Rate:</i>	20 GPM	<i>Static Water Level:</i>	10 ft
<i>Flow Rate:</i>		<i>Clear/Cloudy:</i>	CLOUDY
<i>Specific Capacity:</i>		<i>Final Well Status:</i>	Water Supply
<i>Construction Method:</i>	Air Percussion	<i>Flowing (y/n):</i>	N
<i>Elevation (m):</i>		<i>Elevation Reliability:</i>	
<i>Depth to Bedrock:</i>	19	<i>Overburden/Bedrock:</i>	Bedrock
<i>Water Type:</i>	FRESH	<i>Casing Material:</i>	FRESH, MINERIAL

--- Details ---

<i>Thickness:</i>	GREY	<i>Original Depth:</i>	15 ft
<i>Material Colour:</i>	CLAY	<i>Material:</i>	15 ft
+			
<i>Thickness:</i>	GREY	<i>Original Depth:</i>	19 ft
<i>Material Colour:</i>	HARDPAN, STONES	<i>Material:</i>	4 ft
+			

Thickness: GREY
Material Colour: LIMESTONE

Original Depth: 63 ft
Material: 44 ft

Site:
ON

Database:
WWIS

Well ID:	1534384	Lot:	024
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	NEPEAN TOWNSHIP
Zone:	18	Northing	
Primary Water Use:	Not Used	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:		Construction	22-NOV-03
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	
Construction Method:	Other Method	Static Water	
Elevation (m):		Level:	
Depth to Bedrock:		Clear/Cloudy:	
Water Type:		Final Well	Abandoned-Other
		Status:	
		Flowing (y/n):	
		Elevation	
		Reliability:	
		Overburden/Bedrock:	No formation data
		Casing	
		Material:	

Site:
ON

Database:
WWIS

Well ID:	1530764	Lot:	024
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	GLOUCESTER TOWNSHIP
Zone:	18	Northing	
Primary Water Use:		Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:		Construction	17-JUL-99
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	
Construction Method:	Not Known	Static Water	
Elevation (m):		Level:	
Depth to Bedrock:		Clear/Cloudy:	
Water Type:		Final Well	
		Status:	
		Flowing (y/n):	
		Elevation	
		Reliability:	
		Overburden/Bedrock:	No formation data
		Casing	
		Material:	

Site:
ON

Database:
WWIS

Well ID:	1528230	Lot:	025
Concession:		Concession	

<i>County:</i>	OTTAWA-CARLETON	<i>Name:</i>	
<i>Easting Nad83:</i>		<i>Municipality:</i>	GLOUCESTER TOWNSHIP
<i>Zone:</i>	18	<i>Northing</i>	
<i>Primary Water Use:</i>	Industrial	<i>Nad83:</i>	
<i>Sec. Water Use:</i>		<i>Utm Reliability:</i>	unknown UTM
<i>Pump Rate:</i>	5 GPM	<i>Construction</i>	13-SEP-94
<i>Flow Rate:</i>		<i>Date:</i>	
<i>Specific Capacity:</i>		<i>Well Depth:</i>	103 ft
<i>Construction Method:</i>	Rotary (Air)	<i>Static Water</i>	14 ft
<i>Elevation (m):</i>		<i>Level:</i>	
<i>Depth to Bedrock:</i>	8	<i>Clear/Cloudy:</i>	CLEAR
<i>Water Type:</i>	FRESH	<i>Final Well</i>	Water Supply
		<i>Status:</i>	
		<i>Flowing (y/n):</i>	N
		<i>Elevation</i>	
		<i>Reliability:</i>	
		<i>Overburden/Bedrock:</i>	Bedrock
		<i>Casing</i>	FRESH, MINERIAL
		<i>Material:</i>	

--- Details ---

<i>Thickness:</i>	GREY
<i>Material Colour:</i>	HARDPAN, BOULDERS, PACKED
+	
<i>Thickness:</i>	GREY
<i>Material Colour:</i>	SHALE, LAYERED, POROUS
+	
<i>Thickness:</i>	GREY
<i>Material Colour:</i>	SHALE, SOFT
+	
<i>Thickness:</i>	GREY
<i>Material Colour:</i>	STONES, PACKED, HARD

<i>Original Depth:</i>	8 ft
<i>Material:</i>	6 ft
<i>Original Depth:</i>	11 ft
<i>Material:</i>	3 ft
<i>Original Depth:</i>	103 ft
<i>Material:</i>	92 ft
<i>Original Depth:</i>	2 ft
<i>Material:</i>	2 ft

Site:
ON

Database:
WWIS

<i>Well ID:</i>	1517129	<i>Lot:</i>	024
<i>Concession:</i>		<i>Concession</i>	
<i>County:</i>	OTTAWA-CARLETON	<i>Name:</i>	
<i>Easting Nad83:</i>		<i>Municipality:</i>	GLOUCESTER TOWNSHIP
<i>Zone:</i>	18	<i>Northing</i>	
<i>Primary Water Use:</i>	Domestic	<i>Nad83:</i>	
<i>Sec. Water Use:</i>		<i>Utm Reliability:</i>	unknown UTM
<i>Pump Rate:</i>	20 GPM	<i>Construction</i>	14-JUN-79
<i>Flow Rate:</i>		<i>Date:</i>	
<i>Specific Capacity:</i>		<i>Well Depth:</i>	60 ft
<i>Construction Method:</i>	Air Percussion	<i>Static Water</i>	15 ft
<i>Elevation (m):</i>		<i>Level:</i>	
<i>Depth to Bedrock:</i>	45	<i>Clear/Cloudy:</i>	CLOUDY
<i>Water Type:</i>	FRESH	<i>Final Well</i>	Water Supply
		<i>Status:</i>	
		<i>Flowing (y/n):</i>	N
		<i>Elevation</i>	
		<i>Reliability:</i>	
		<i>Overburden/Bedrock:</i>	Bedrock
		<i>Casing</i>	FRESH
		<i>Material:</i>	

--- Details ---

<i>Thickness:</i>	GREY	<i>Original Depth:</i>	45 ft
<i>Material Colour:</i>	HARDPAN	<i>Material:</i>	10 ft

+	Thickness:	GREY	Original Depth:	60 ft
	Material Colour:	LIMESTONE	Material:	15 ft
+	Thickness:	GREY	Original Depth:	35 ft
	Material Colour:	CLAY	Material:	35 ft

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

Well ID:	1522184	Lot:	025
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	GLOUCESTER TOWNSHIP
Zone:	18	Northing	
Primary Water Use:	Domestic	Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:	20 GPM	Construction	08-DEC-87
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	60 ft
Construction Method:	Air Percussion	Static Water	15 ft
Elevation (m):		Level:	
Depth to Bedrock:	23	Clear/Cloudy:	CLEAR
Water Type:	FRESH	Final Well	Water Supply
		Status:	
		Flowing (y/n):	N
		Elevation	
		Reliability:	
		Overburden/Bedrock:	Bedrock
		Casing	FRESH, MINERIAL
		Material:	

--- Details ---

Thickness:	BROWN	Original Depth:	14 ft
Material Colour:	CLAY, PACKED	Material:	14 ft
+			
Thickness:	GREY	Original Depth:	23 ft
Material Colour:	CLAY, BOULDERS	Material:	9 ft
+			
Thickness:	GREY	Original Depth:	60 ft
Material Colour:	LIMESTONE, MEDIUM-GRAINED	Material:	37 ft

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

Well ID:	7150705	Lot:	
Concession:		Concession	
County:	OTTAWA-CARLETON	Name:	
Easting Nad83:		Municipality:	OTTAWA CITY
Zone:		Northing	
Primary Water Use:		Nad83:	
Sec. Water Use:		Utm Reliability:	unknown UTM
Pump Rate:		Construction	16-JUL-10
Flow Rate:		Date:	
Specific Capacity:		Well Depth:	m
Construction Method:		Static Water	
Elevation (m):		Level:	
		Clear/Cloudy:	
		Final Well	Abandoned-Other
		Status:	
		Flowing (y/n):	
		Elevation	

Depth to Bedrock:

Water Type:

Reliability:
Overburden/Bedrock:
Casing
Material:

--- Details ---

Thickness:

Material Colour:

Original Depth: m

Material: m

Site: ON **Database:** WWIS

Well ID: 1525383

Concession:

County: OTTAWA-CARLETON

Easting Nad83:

Zone: 18

Primary Water Use: Domestic

Sec. Water Use:

Pump Rate: 6 GPM

Flow Rate:

Specific Capacity:

Construction Method: Air Percussion

Elevation (m):

Depth to Bedrock: 52

Water Type: Not stated

Lot: 025

Concession RF

Name:

Municipality: NEPEAN TOWNSHIP

Northing

Nad83:

Utm Reliability: unknown UTM

Construction 11-MAR-91

Date:

Well Depth: 175 ft

Static Water 20 ft

Level:

Clear/Cloudy: CLEAR

Final Well Water Supply

Status:

Flowing (y/n): N

Elevation

Reliability:

Overburden/Bedrock: Bedrock

Casing FRESH, MINERIAL

Material:

--- Details ---

Thickness: BROWN

Material Colour: SAND, DRY

+

Thickness: GREY

Material Colour: CLAY, STICKY

+

Thickness: GREY

Material Colour: SAND, WATER-BEARING

+

Thickness: GREY

Material Colour: LIMESTONE

+

Thickness: GREY

Material Colour: SANDSTONE

Original Depth: 8 ft

Material: 8 ft

Original Depth: 43 ft

Material: 35 ft

Original Depth: 52 ft

Material: 9 ft

Original Depth: 120 ft

Material: 68 ft

Original Depth: 175 ft

Material: 55 ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

*Government Publication Date: Sept 2002**

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Aug 2012

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Jan 2014

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies:

Private [AUWR](#)

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

Government Publication Date: 2001-Jun 2010

Borehole:Provincial **BORE**

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

Government Publication Date: 1875-Aug 2011

Certificates of Approval:Provincial **CA**

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

*Government Publication Date: 1985-Oct 30, 2011**

Commercial Fuel Oil Tanks:Provincial **CFOT**

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

Government Publication Date: 1948-Apr 2013

Chemical Register:Private **CHEM**

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

Government Publication Date: 1992, 1999-Jun 2010

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

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

*Government Publication Date: Apr 1987 and Nov 1988**

Compliance and Convictions:Provincial **CONV**

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

Government Publication Date: 1989-Feb 2014

Certificates of Property Use:Provincial **CPU**

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

Government Publication Date: 1994-Aug 2014

Drill Hole Database:Provincial [DRL](#)

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

Government Publication Date: 1886-Jan 2014

Environmental Activity and Sector Registry:Provincial [EASR](#)

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

Government Publication Date: Oct 31 2011-Aug 2014

Environmental Registry:Provincial [EBR](#)

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

Government Publication Date: 1994-Aug 2014

Environmental Compliance Approval:Provincial [ECA](#)

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

Government Publication Date: Oct 31, 2011-Aug 2014

Environmental Effects Monitoring:Federal [EEM](#)

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

*Government Publication Date: 1992-2007**

ERIS Historical Searches:Private [EHS](#)

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

Government Publication Date: 1999-Mar 2013

Environmental Issues Inventory System:Federal [EIIS](#)

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

*Government Publication Date: 1992-2001**

List of TSSA Expired Facilities:Provincial [EXP](#)

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

Government Publication Date: Current to May 2013

Federal Convictions:Federal [FCON](#)

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

*Government Publication Date: 1988-Jun 2007**

Contaminated Sites on Federal Land:Federal [FCS](#)

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

Government Publication Date: June 2000-Jul 2014

Fisheries & Oceans Fuel Tanks:Federal [FOFT](#)

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

Government Publication Date: 1964-Sept 2003

Fuel Storage Tank:Provincial [FST](#)

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

Government Publication Date: 2010-May 2013

Fuel Storage Tank - Historic:Provincial [FSTH](#)

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

*Government Publication Date: Pre-Jan 2010**

Ontario Regulation 347 Waste Generators Summary:

Provincial GEN

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

*Government Publication Date: 1986-Apr 2014***TSSA Historic Incidents:**

Provincial HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

*Government Publication Date: 2006-June 2009***Indian & Northern Affairs Fuel Tanks:**

Federal IAFT

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

*Government Publication Date: 1950-Aug 2003****TSSA Incidents:**

Provincial INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

*Government Publication Date: June 2009-Apr 2013***Landfill Inventory Management Ontario:**

Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: 2012

Canadian Mine Locations:Private [MINE](#)

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

Government Publication Date: 1998-2009

Mineral Occurrences:Provincial [MNR](#)

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

Government Publication Date: 1846-Apr 2013

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

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

*Government Publication Date: 1974-1994**

Non-Compliance Reports:Provincial [NCPL](#)

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

Government Publication Date: 1994-2012

National Defence & Canadian Forces Fuel Tanks:Federal [NDFT](#)

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

*Government Publication Date: Up to May 2001**

National Defence & Canadian Forces Spills:Federal [NDSP](#)

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

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites:Federal [NDWD](#)

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

*Government Publication Date: 2001-Apr 2007**

National Environmental Emergencies System (NEES):

Federal

NEES

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

*Government Publication Date: 1974-2003**

National PCB Inventory:

Federal

NPCB

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

*Government Publication Date: 1988-2008**

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-2012

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-Jun 2014

Ontario Oil and Gas Wells:

Provincial

OOGW

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

Government Publication Date: 1800-2013

Inventory of PCB Storage Sites:

Provincial

OPCB

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

Government Publication Date: 1987-Oct 2004

Orders:Provincial **ORD**

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

Government Publication Date: 1994-Aug 2014

Canadian Pulp and Paper:Private **PAP**

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

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

Parks Canada Fuel Storage Tanks:Federal **PCFT**

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

*Government Publication Date: 1920-Jan 2005**

Pesticide Register:Provincial **PES**

The Ontario Ministry of Environment maintains a database of all manufacturers and vendors of registered pesticides.

Government Publication Date: 1988-Jun 2013

TSSA Pipeline Incidents:Provincial **PINC**

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: June 2009-Mar 2012

Private and Retail Fuel Storage Tanks:Provincial **PRT**

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

*Government Publication Date: 1989-1996**

Permit to Take Water:Provincial **PTTW**

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

Government Publication Date: 1994-Aug 2014

Ontario Regulation 347 Waste Receivers Summary:Provincial **REC**

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

Government Publication Date: 1986-2012

Record of Site Condition:

Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Aug 2014

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-Jun 2010

Scott's Manufacturing Directory:

Private SCT

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

Government Publication Date: 1992-Mar 2011

Ontario Spills:

Provincial SPL

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

Government Publication Date: 1988-Feb 2014

Wastewater Discharger Registration Database:

Provincial SRDS

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

Government Publication Date: 1990-2011

Anderson's Storage Tanks:

Private TANK

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

*Government Publication Date: 1915-1953**

Transport Canada Fuel Storage Tanks:

Federal TCFT

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

Government Publication Date: 1970-Mar 2007

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial VAR

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

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

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

Government Publication Date: 1970-Aug 2014

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: 1955-Mar 2014

Definitions

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

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

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

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

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

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

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

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

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

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

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

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



APPENDIX C

Regulatory Responses

DATE August 29, 2014**PROJECT No.** 1406222**TO** Ministry of the Environment**FAX No.** 613-521-5437**TOTAL PAGES** 3 (Including cover sheet)**FROM** Nicole MacDonald**EMAIL** nlmacdonald@golder.com**RE: INFORMATION REQUEST - PHASE I ENVIRONMENTAL SITE ASSESSMENT
RIVERSIDE SOUTH PHASE 15 – PART OF 4650 SPRATT ROAD & 750 RIVER ROAD, OTTAWA, ONTARIO**

We are in the process of preparing a Phase I Environmental Site Assessment for the property noted above. For your reference we have included 2 figures showing the location of the site.

It is requested that the Ministry provide an Index Review Report with respect to the following:

- 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.

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

GOLDER ASSOCIATES LTD.

Nicole MacDonald, B.Eng.
Environmental Consultant

NLM

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.

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END=AUG-29 13:32

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STN NO.	COMM.	STATION NAME/EMAIL ADDRESS/TELEPHONE NO.	PAGES	DURATION
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- ***** -

- *****



FACSIMILE

DATE August 29, 2014

PROJECT No. 1406222

TO Ministry of the Environment

FAX No. 613-521-5437

TOTAL PAGES 3 (Including cover sheet)

FROM Nicole MacDonald

EMAIL nimacondald@golder.com

RE: INFORMATION REQUEST - PHASE I ENVIRONMENTAL SITE ASSESSMENT
RIVERSIDE SOUTH PHASE 15 - PART OF 4650 SPRATT ROAD & 750 RIVER ROAD, OTTAWA, ONTARIO

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

GOLDER ASSOCIATES LTD.

A handwritten signature in cursive script, appearing to read "Nicole MacDonald".

Nicole MacDonald, B.Eng.
Environmental Consultant

NLM

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) named 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.

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

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



OTT File No: **33**

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

Attention: Nicole MacDonald Golder Associates	Your File: 1406222 Date Received: August 29, 2014
--	--

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

PROPERTY OWNER AND LOCATION

Location: Municipality: **Ottawa**
Address: **4650 Spratt Road & 750 River Road**
Lot Concession

INDEX OF NAMES FOR ORDERS

We have searched the *Ottawa District Index Record of Active Orders* under the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and the Pesticides Act (PA) issued to: and the following information has been found:

☒ No Active Orders are outstanding

Please Note: *For information related to any ministry Orders issued to the property in question, please request this information from the property owner. If you would like further information regarding a specific Order issued, please contact the Ottawa District Office.*

Date of Search: September 4, 2014

RECORD OF SITE CONDITION

For information on **Records of Site Condition** filed on the Environmental Site Registry since October 1, 2004, please use the following link:
http://www.ene.gov.on.ca/environment/en/subject/brownfields/STDPROD_075742.html

INDEX REVIEW REPORT COMMERCIAL/INDUSTRIAL/AGRICULTURAL

INDEX OF NAMES FOR APPROVALS ISSUED SINCE 1999

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

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

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

www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en

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

Please Note:

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

☒ No Approvals have been issued.

Date of Search: September 4, 2014

INDEX REVIEW REPORT COMMERCIAL/INDUSTRIAL/AGRICULTURAL

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

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

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

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

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

Information on **environmental penalties**, which are monetary penalties that can be imposed by the ministry for some industrial spills, can be assessed at the following link: <http://www.ontario.ca/government/search-results?query=Environmental+penalties&op=Search>

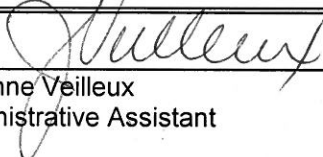
Additional ministry information can be accessed through the **Government of Ontario's Open Data Catalogue**: <http://www.ontario.ca/government/open-data-ontario>

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

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

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

Thank you for your inquiry.

Signature:		
Contact Name:	Johanne Veilleux	
Title:	Administrative Assistant	
Address:	Ministry of the Environment and Climate Change 2430 Don Reid Drive, Unit 103 Ottawa, ON K1H 1E1	
Phone:	(613) 521-3450 Ext 221	Date: September 4, 2014
		E&OE

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

DATE August 29, 2014**PROJECT No.** 1406222**TO** City of Ottawa
Development Approvals Division**FAX No.** 613-560-6006**TOTAL PAGES** 7 (Including cover sheet)**FROM** Nicole MacDonald**EMAIL** nicole_macdonald@golder.com**RE: INFORMATION REQUEST - PHASE I ENVIRONMENTAL SITE ASSESSMENT
PART OF 4650 SPRATT ROAD & 750 RIVER ROAD, MANOTICK (OTTAWA)**

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.

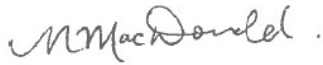
As per your requirements we have included the Request for Information – Phase I Environmental Site Assessment form, a disclaimer form, property owner authorization and key plan.

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.



Nicole MacDonald, B.Eng.
Environmental Consultant

NLM

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.

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CONCEPT PLAN OF
PART OF LOTS 22, 23 And 24
BROKEN FRONT
CONCESSION (RIDEAU FRONT)
Geographic Township of Gloucester
CITY OF OTTAWA
Prepared by Annis , O'Sullivan , Vollebakk Ltd.

Scale 1:2000
10 20 30 40 50 60 70 80 90 100 Metres

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



REVISION SCHEDULE			
NO.	REVISION	DATE	
1	PLAN PREPARED	JAN. 29, 2014	N
2	PLAN REVISED	MAR. 5, 2014	S
3	PLAN REVISED	MAR. 20, 2014	N

CONFIDENTIAL

File No.: 1406222
Deadline for Response: Sept. 15/14

Phase 1 – Environmental Site Assessment

Request for Information

(Informal Request)*

1. REQUESTER INFORMATION

- a) Name of Requester: Golder Associates
- b) Address of Requester: 32 Steacie Drive, Ottawa, ON, K2K 2A9
- c) Telephone Number: 613-592-9600
- d) Site Address: Lot: Part of Lots 22, 23 and 24
Concession: Broken Front Concessions (Rideau Front)
Street: Part of 4650 Spratt Road & 750 River Road
City/Town: Ottawa
Postal Code: K4M 1B2
- e) Legal Plan Attached: Yes () No (☒)
- f) Site Owner: Riverside South Development Corporation
- g) Adjacent Property Owners: Residential
- h) Date of Ownership: Unknown
Previous Owner(s): Unknown (agricultural)
- i) Type of Site: (☒) vacant, () residential, () commercial, () other (specify)
- j) Requestors relationship to Site: Consultant
- k) Date of Previous Request: N/A
- l) Date of Previous ESA: N/A
- m) Information Requested: As per cover sheet

2. CONFIDENTIALITY

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

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

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

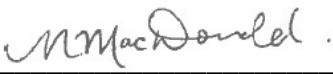
DISCLAIMER

For use with HLUI Database

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

The City, in providing information from the HLUI, to GOLDER ASSOCIATES ("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: 

Dated: August 29, 2014

Per: Nicole MacDonald
(Please print name)
Title: Environmental Consultant
Company: Golder Associates Ltd.

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 4650 Spratt Road, Ottawa, ON, K4M 1B2

Legal Description Part of LAs 22, 23 & 24,
Broken Front Concession (Rideau Front)


Property Contact Information:

Owner Riverside South Development Corporation

Phone Number 613-731-6331

Fax Number 613-731-9226

Owner Representative Mary Jarvis

Owner Representative Signature 

Date Aug. 26, 2014

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

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

.....

Property Location Information:

Civic Address 750 River Road, Ottawa, ON, K4M 1B2

Legal Description Part of Lot 22, Broken Front
Concession (Rideau Front)

Property Contact Information:

Owner Riverside South Development Corporation

Phone Number 613-731-6331

Fax Number 613-731-9226

Owner Representative Mary Jarvis

Owner Representative Signature [Signature]

Date Aug. 26, 2014



File Number: C10-01-15-0021

February 26, 2015

Nicole MacDonald
Golder Associates
32 Steacie Drive
Ottawa, Ontario
K2K 2A9

Sent via email [Nicole_MacDonald@golder.com]

Dear Mrs. MacDonald,

**Re: Information Request
4650 Spratt Road & 750 River Road, Ottawa, Ontario ("Subject Properties")**

Internal Department Circulation

The Planning and Growth Management Department has the following information in response to your request for information regarding the Subject Properties:

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

Search of Historical Land Use Inventory

This acknowledges receipt of the signed Disclaimer regarding your request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the Subject Properties.

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Properties.

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Properties. The search revealed the following:

- There are no activities associated with the properties located within 50m of the Subject Properties.

*Shaping our future together
Ensemble, formons notre avenir*

City of Ottawa
Infrastructure Services and Community
Sustainability Department
Planning and Growth Management Branch

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 14743
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services d'infrastructure et Viabilité des
collectivités
Direction de l'approbation des demandes
d'aménagement et d'infrastructure

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 14743
Télé.: (613) 560-6006
www.ottawa.ca

Additional information may be obtained by contacting:

Ontario's Environmental Registry

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

The Ontario Land Registry Office

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

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

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

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

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

If you have any further questions or comments, please contact Simon Lacoste at 613-580-2424 ext. 24856 or HLUI@ottawa.ca.

Sincerely,

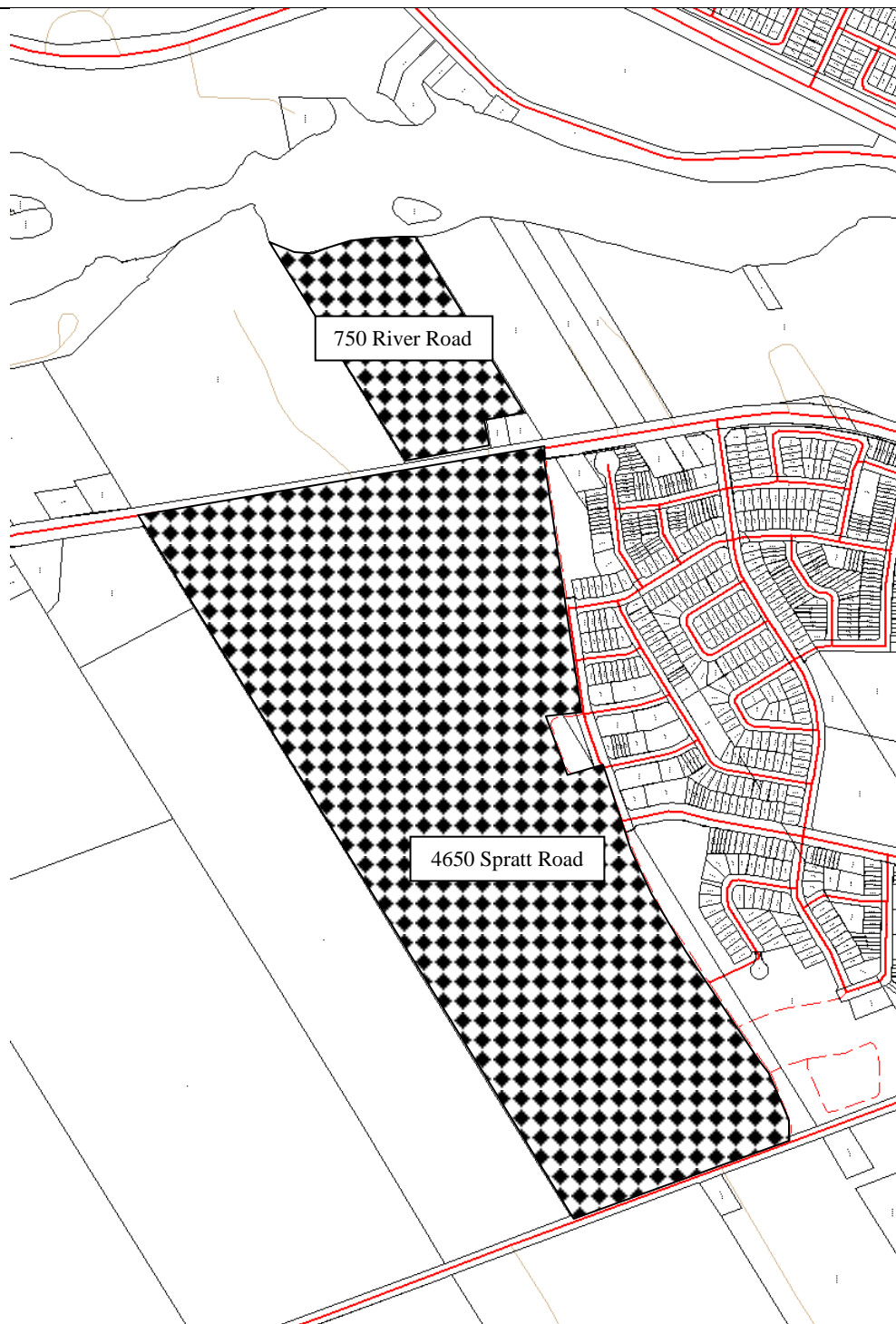
A handwritten signature in black ink, appearing to be 'David Wise', with a stylized flourish at the end.

David Wise, MUP, MCIP, RPP
Program Manager
Development Review (Suburban Services) - West
Planning and Growth Management Department

DW/AG

Attach: 1

cc: File no. C10-01-15-0021




Scale 1:
n/a

4650 Spratt Road & 750 River Road
Ottawa, ON
File # C10-01-15-0021
Simon Lacoste



ID# = Activity Identification Number

 = Subject Site

Overview

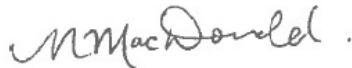
DATE August 29, 2014**PROJECT No.** 1406222**TO** Ministry of Natural Resources**FAX No.** 705-755-1677**TOTAL PAGES** 3 (Including cover sheet)**FROM** Nicole MacDonald**EMAIL** nlmacdonald@golder.com**RE: INFORMATION REQUEST - PHASE I ENVIRONMENTAL SITE ASSESSMENT
RIVERSIDE SOUTH PHASE 15 – PART OF 4650 SPRATT ROAD & 750 RIVER ROAD, OTTAWA, ONTARIO**

We are in the process of preparing a Phase I Environmental Site Assessment for the property noted above. For your reference we have included 2 figures showing the location of the site.

It is requested that the Ministry provide an Index Review Report with respect to the following:

- Information relating to areas of natural significance in the vicinity of the Site; and,
- Any other environmental concerns that may be related to the Site and surrounding area.

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

GOLDER ASSOCIATES LTD.

Nicole MacDonald, B.Eng.
Environmental Consultant

NLM

Hard copy to follow by mail: ☐ Yes ☒ No

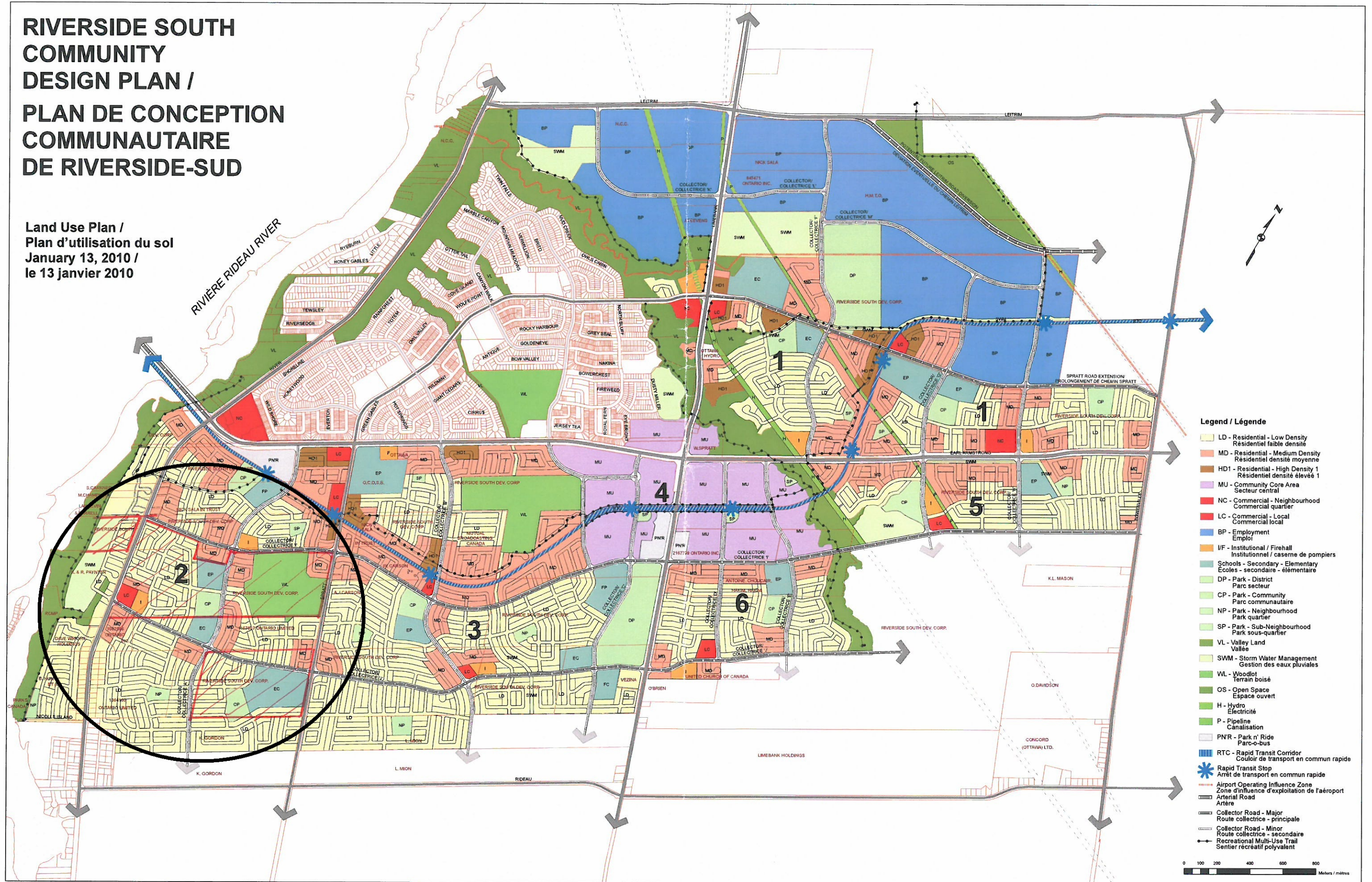
Please advise immediately if any pages are not received. The document(s) included in this transmission are intended only for the recipient(s) names above and contain privileged and confidential information. Any unauthorized disclosure, dissemination or copying of this transmission is strictly prohibited.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

n:\active\2014\1122 - dgl\1407021 urbandale corporation - rs phase 12 - 708 river rd\2 technical\3 info requests\mnr request 4650 spratt 750 river.docx



RIVERSIDE SOUTH COMMUNITY DESIGN PLAN / PLAN DE CONCEPTION COMMUNAUTAIRE DE RIVERSIDE-SUD

Land Use Plan /
Plan d'utilisation du sol
January 13, 2010 /
le 13 janvier 2010





CONCEPT PLAN OF
PART OF LOTS 22, 23 And 24
BROKEN FRONT
CONCESSION (RIDEAU FRONT)
Geographic Township of Gloucester
CITY OF OTTAWA
Prepared by Annis , O'Sullivan , Vollebakk Ltd.

Scale 1:2000
10 20 30 40 50 60 70 80 90 100 Metres

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



REVISION SCHEDULE			
NO.	REVISION	DATE	
1	PLAN PREPARED	JAN. 29, 2014	N
2	PLAN REVISED	MAR. 5, 2014	S
3	PLAN REVISED	MAR. 20, 2014	N

MODE = MEMORY TRANSMISSION

START=AUG-29 13:13

END=AUG-29 13:14

FILE NO.=328

STN NO.	COMM.	STATION NAME/EMAIL ADDRESS/TELEPHONE NO.	PAGES	DURATION
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FACSIMILE

DATE August 29, 2014

TO Ministry of Natural Resources

PROJECT No. 1406222

FAX No. 705-755-1677

TOTAL PAGES 3 (Including cover sheet)

FROM Nicole MacDonald

EMAIL nlmacdonald@golder.com

RE: INFORMATION REQUEST - PHASE I ENVIRONMENTAL SITE ASSESSMENT

RIVERSIDE SOUTH PHASE 15 - PART OF 4650 SPRATT ROAD & 750 RIVER ROAD, OTTAWA, ONTARIO

We are in the process of preparing a Phase I Environmental Site Assessment for the property noted above. For your reference we have included 2 figures showing the location of the site.

It is requested that the Ministry provide an Index Review Report with respect to the following:

- Information relating to areas of natural significance in the vicinity of the Site; and,
- Any other environmental concerns that may be related to the Site and surrounding area.

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

GOLDER ASSOCIATES LTD.

A handwritten signature in cursive script, appearing to read "N MacDonald".

Nicole MacDonald, B.Eng.
Environmental Consultant

NLM

Hard copy to follow by mail: ☐ Yes ☒ No

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n:\active\2014\1122 - dgl\1407021 urbandale corporation - rs phase 12 - 708 river rd\2 technical\3 info requests\mnr request 4650 spratt 750 river.docx



**Ministry of Natural
Resources and Forestry**

Kemptville District

10 Campus Drive
Postal Box 2002
Kemptville ON K0G 1J0
Tel.: 613 258-8204
Fax: 613 258-3920

**Ministère des Richesses
naturelles et des Forêts**

District de Kemptville

10, promenade Campus
Case postale, 2002
Kemptville ON K0G 1J0
Tél.: 613 258-8204
Téléc.: 613 258-3920



Mon. Sep 29, 2014

Nicole MacDonald
Golder
32 Steacie Drive
Kanata, Ontario
K2A 2A9

nlimacdonald@golder.com

Attention: Nicole MacDonald

Subject: Information Request - Riverside South Phase 15
Site Address: 4650 Spratt Rd and 750 River Rd, Ottawa
Our File No. 2014_GLO-2794

Natural Heritage Values

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

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

- Unevaluated Wetland (Not evaluated per OWES)
- Significant Woodlands

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

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

In addition, the following fish species were identified: alewife, banded killifish, black crappie, blackchin shiner, blacknose shiner, bluegill, bluntnose minnow, brassy minnow, brook silverside, brook stickleback, brown bullhead, Carps and Minnows, common carp, common shiner, creek chub, eastern silvery minnow, emerald shiner, fallfish, fathead minnow, golden shiner, greater redhorse, johnny darter, johnny darter/tesselated darter, largemouth bass, logperch, longnose dace, mimic shiner, Moxostoma sp., muskellunge, northern pike, northern redbelly dace, rock bass, shorthead redhorse, silver redhorse, smallmouth bass, spottail shiner, trout-perch, walleye, white sucker.

As per the Natural Heritage Reference Manual (Section 13; OMNR 2010) the MNRF strongly recommends that an Ecological Site Assessment be carried out to more thoroughly determine the presence of natural heritage features, and Species at Risk and their habitat located on site. The MNR can provide survey methodology for particular species at risk and their habitats. In addition, the local planning authority may have more details pertaining to the requirements of the assessment process, which will result in allow for the municipality to make planning decisions which are consistent with the Provincial Policy Statement (2014).

Species at Risk

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

- Barn Swallow (THR)
- Blanding's Turtle (THR)
- Bobolink (THR)
- Little Brown Bat (END)
- Northern Long-eared Bat (END)

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

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

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

- Snapping Turtle (SC)

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

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

As of July 1, 2013, the approvals processes for a number of activities that have the potential to impact SAR or their habitat were changed in an effort to streamline approvals processes while continuing to protect and sustainably manage Ontario's natural resources. For those activities that require registration with the Ministry, businesses and individuals will be able to do so through a new online system. For further information on which activities are authorized through this new online registration process and how to apply, please refer to the following website:

http://www.mnr.gov.on.ca/en/About/2ColumnSubPage/STDPROD_104342.html. General inquiries may be directed towards Kemptville District MNR, while questions and comments involving the new online forms can be directed to the Registry Approvals Service Centre (RASC) at 1-855-613-4256 or mnr.rasc@ontario.ca.

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

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

This letter is valid until: Tue. Sep 29, 2015

MNRF is streamlining and automating its approvals processes for natural resource-related activities. Some activities that may otherwise contravene the ESA may be eligible to proceed without a permit from MNR provided that regulatory conditions are met for the ongoing protection of species at risk and their habitats. There are regulatory provisions for projects that have attained a specified level of approval prior to, or shortly after, the specified species or its habitat became

protected under the ESA. There requirements include registering the activity with the Ministry of Natural Resources and Forestry, taking steps to immediately minimize adverse effects on species and habitat, and developing a mitigation plan. Anyone intending to use this regulatory provision is strongly advised to review Ontario Regulation 242/08 under the Endangered Species Act, 2007 for the full legal requirements.

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

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

Sincerely,

Lyn Garrah
District Planner
lyn.garrah@ontario.ca

Encl.\
-ESA Infosheet
-NHIC/LIO Infosheet

MacDonald, Nicole

From: squibell@tssa.org on behalf of Public Information Services
<publicinformationservices@tssa.org>
Sent: Friday, August 29, 2014 12:16 PM
To: MacDonald, Nicole
Subject: Re: Request for Info: Part of 4650 Spratt Road & 750 River Road, Ottawa, ON

Hi Nicole,

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!

Regards,

Sarah Quibell

Public Information Services

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

www.tssa.org

Toll-Free: 1-877-682-8772

On Fri, Aug 29, 2014 at 12:10 PM, MacDonald, Nicole <Nicole_MacDonald@golder.com> wrote:

To whom it may concern,

We are in the process of preparing a Phase I Environmental Site Assessment for a site located on part of 4650 Spratt Road and 750 River Road, Ottawa, ON. I have attached 2 figures with the site location labeled, for clarity.

Could you please review your records to determine if any bulk fuel underground storage tanks (USTs) were registered on or near the above-mentioned site and if there are records of fuel spills, accidents or incidents on or near the site.

Thank you,



Nicole MacDonald (B.Eng.) | Environmental Consultant | **CLAW Environmental Services Inc.**

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

T: [+1 \(613\) 592 4006 x4246](tel:+16135924006) | **F:** [+1 \(613\) 592 9601](tel:+16135929601) | **C:** [+1 \(613\) 266 2314](tel:+16132662314)

E: nmacdonald@claw.ca

www.claw.ca

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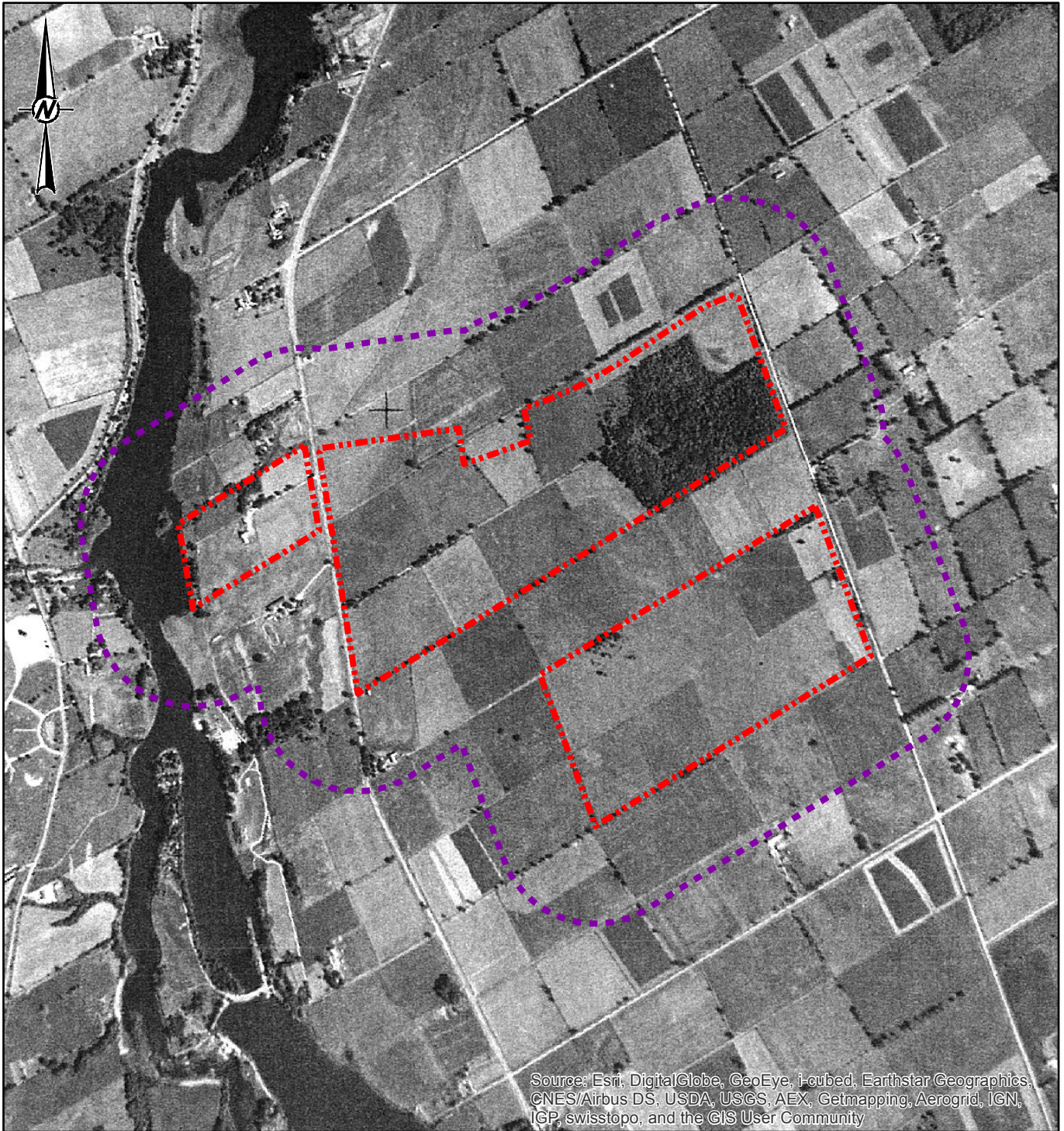
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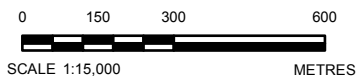


APPENDIX D



Aerial Photographs



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



LEGEND

-  PHASE I ESA STUDY AREA
-  PHASE I ESA SITE BOUNDARY

NOTES

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO.1406222

REFERENCE

1956 AERIAL PHOTO - NATIONAL AIR PHOTO LIBRARY -A14755-110-1955
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM
ZONE 9 VERTICAL DATUM: CGVD28

CLIENT

RIVERSIDE SOUTH DEVELOPMENT CORPORATION

PROJECT

PHASE I ENVIRONMENTAL ASSESSMENT
PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD
OTTAWA, ONTARIO

TITLE

1955 AERIAL PHOTO

CONSULTANT



YYYY-MM-DD 2014-12-10

PREPARED ABD

DESIGN NM

REVIEW NLM

APPROVED DHP

PROJECT
1406222

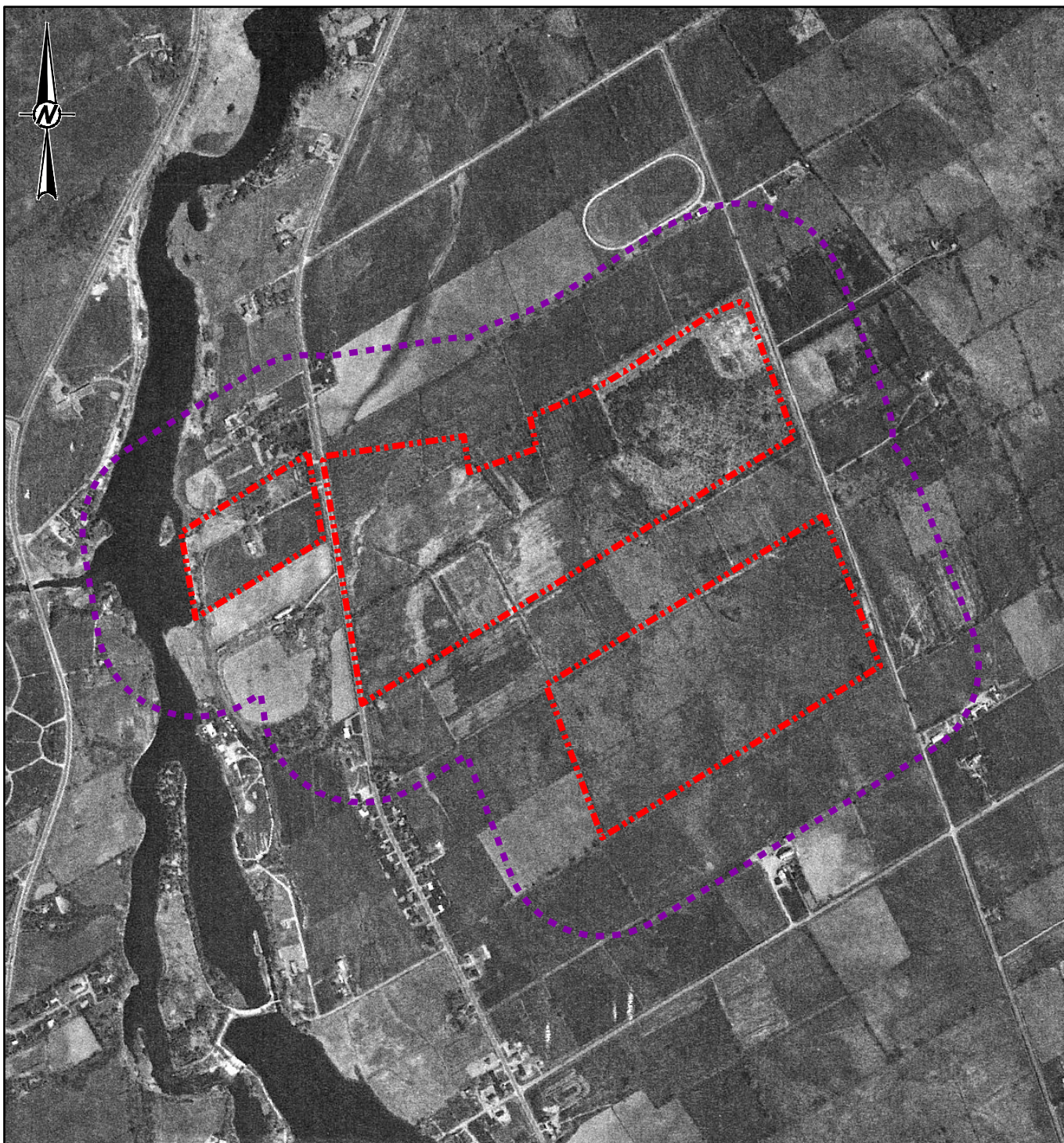
PHASE
1000

Rev.
0

APPENDIX
D1



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

25mm



0 150 300 600
SCALE 1:15,000 METRES

LEGEND

-  PHASE I ESA STUDY AREA
-  PHASE I ESA SITE BOUNDARY

NOTES

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REFERENCE

1956 AERIAL PHOTO - NATIONAL AIR PHOTO LIBRARY -A23968-72-1975
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM
ZONE 9 VERTICAL DATUM: CGVD28

CLIENT
RIVERSIDE SOUTH DEVELOPMENT CORPORATION

PROJECT
**PHASE I ENVIRONMENTAL ASSESSMENT
PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD
OTTAWA, ONTARIO**

TITLE
1975 AERIAL PHOTO

CONSULTANT



YYYY-MM-DD 2014-12-10

PREPARED ABD

DESIGN NM

REVIEW NLM

APPROVED DHP

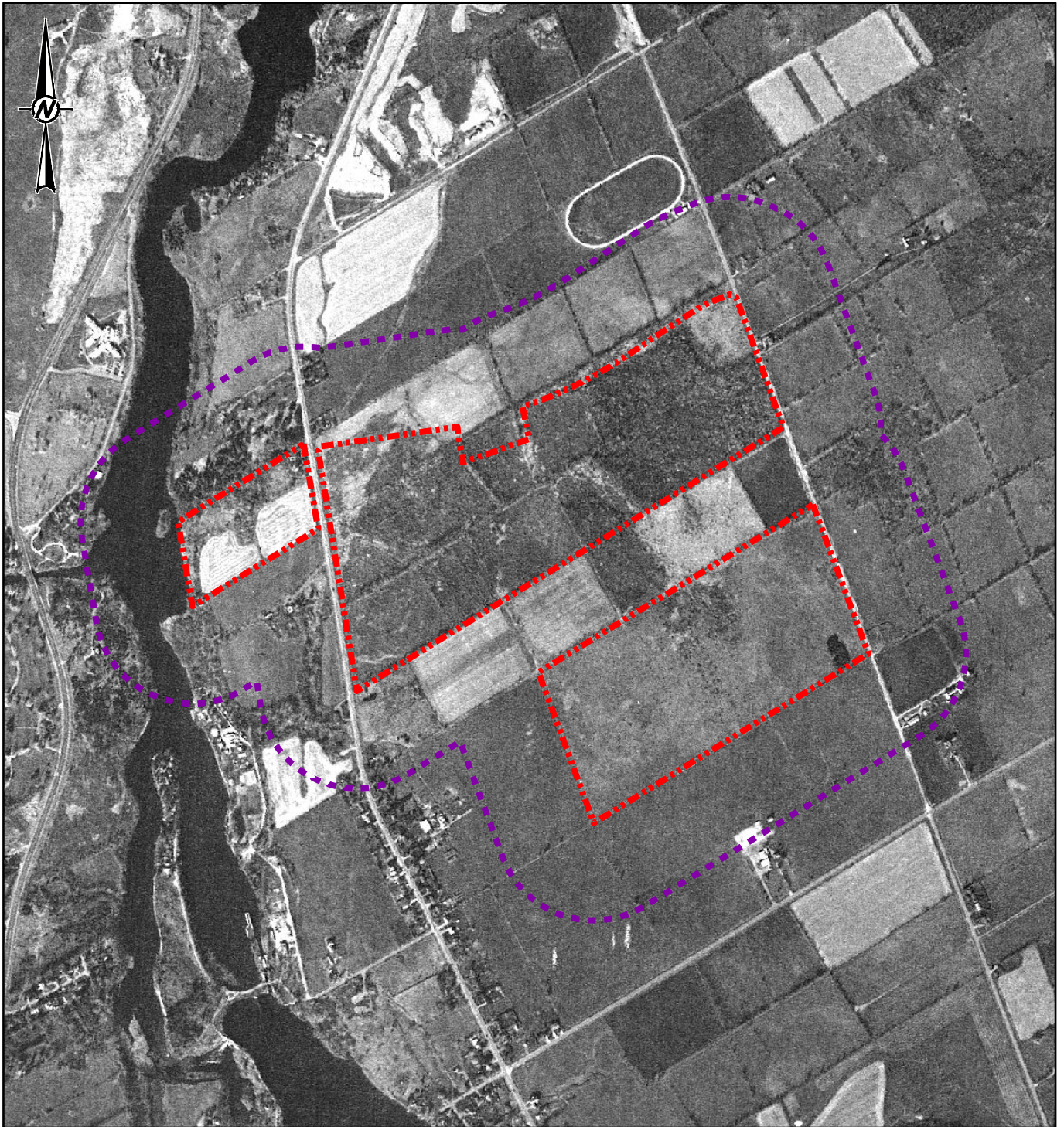
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APPENDIX
D2

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



0 150 300 600
SCALE 1:15,000 METRES

LEGEND

-  PHASE I ESA STUDY AREA
-  PHASE I ESA SITE BOUNDARY

NOTES

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REFERENCE

1956 AERIAL PHOTO - NATIONAL AIR PHOTO LIBRARY -A28361-187-1998
PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: MTM
ZONE 9 VERTICAL DATUM: CGVD28

CLIENT
RIVERSIDE SOUTH DEVELOPMENT CORPORATION

PROJECT
**PHASE I ENVIRONMENTAL ASSESSMENT
PART OF 4650 SPRATT ROAD AND 750 RIVER ROAD
OTTAWA, ONTARIO**

TITLE
1998 AERIAL PHOTO

CONSULTANT



YYYY-MM-DD 2014-12-10

PREPARED ABD

DESIGN NM

REVIEW NLM

APPROVED DHP

PROJECT
1406222

PHASE
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Rev.
0

APPENDIX
D3

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

25mm



APPENDIX E

Site Photographs



APPENDIX E

Site Photographs



Photograph 1: Looking east into Parcel 1 from River Road, near the north-east corner of the parcel. Residential development north of Borbridge Avenue observed.



Photograph 2: Looking north-west into Parcel 1 from Spratt Road, towards the woodlot on the east portion of the parcel.



APPENDIX E

Site Photographs



Photograph 3: Looking south into Parcel 1 from Borbridge Avenue at the clearing south of Borbridge Avenue. Construction fencing and heavy equipment observed.



Photograph 4: Looking north-west into Parcel 2 from Spratt Road – a primarily vacant field with some trees.



APPENDIX E

Site Photographs



Photograph 5: Looking west into Parcel 2 from Spratt Road – a primarily vacant field with some trees.



Photograph 6: Looking south down River Road on the eastern edge of Parcel 3. A ditch with cattails lies between River Road and Parcel 3.



APPENDIX E

Site Photographs



Photograph 7: Looking west into the eastern portion of Parcel 3 from River Road. The field is observed to be actively used for agriculture.



Photograph 8: Looking north-east from the south-west corner of Parcel 3 (close to the Rideau River). The western portion of the parcel slopes uphill towards the eastern half of the parcel, which is flat.



APPENDIX E

Site Photographs



Photograph 9: An old building and concrete posts located just outside the south-west corner of Parcel 1, along the east side of River Road.



Photograph 10: A landscaping company located south-east of Parcel 2, on the east side of Spratt Road.



APPENDIX E

Site Photographs



Photograph 11: Debris observed east of Parcel 1, on the east side of Spratt Road.



Photograph 12: A residential swelling located east of Parcel 1, fronting on the east side of Spratt Road.



APPENDIX E Site Photographs



Photograph 13: A residential dwelling located just outside the north-east corner of Parcel 3, fronting on the west side of River Road.



Photograph 14: A vacant field located directly south of Parcel 3.

N:\Active\2014\1122 - CLG\1406222 RSDC - RS Phase 15 - Part of 4650 Spratt and 750 River\4 Preparation of Deliverables\Appendix E - Site Photos\Appendix E - Site Photos 1406222.doc

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