



**Phase One Environmental
Site Assessment
4190, 4200, 4210, 4236
Fallowfield Road and 2740
Cedarview Road,
Ottawa, Ontario**

Client:

DCR Phoenix Group of Companies
18 Bentley Avenue
Ottawa, Ontario K2E 6T8

Project Number:

OTT-00243143-A0

Prepared By:

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Ottawa, ON K2B 7H6 Canada

Type of Document:

Final

Date Submitted:

March 29, 2018

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Date Submitted:
March 29, 2018

Legal Notification

This report was prepared by EXP Services Inc. for the account of DCR Phoenix Group of Companies.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. EXP Services Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this project.

Executive Summary

EXP Services Inc. (EXP) was retained by DCR Phoenix Group of Companies to complete a Phase One Environmental Site Assessment (ESA) of the property referred to as 4190, 4200, 4210, 4236 Fallowfield Road and 2740 Cedarview Road, located in Ottawa, Ontario. The purpose of this Phase One ESA was to determine if past or present site activities have resulted in actual or potential contamination at the site. EXP understands that Phoenix Homes plans to re-develop the land with a residence land use. Consequently, this Phase One ESA will be used in support of the City of Ottawa Site Plan Approval permitting requirements and a Record of Site Condition (RSC) is not required.

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended by Ontario Regulation 511/09 (O.Reg. 153/04), and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended. Limitation of liability, scope of report and third party reliance are outlined in Section 8 of this report.

Please note that general environmental management and housekeeping practices were reviewed as part of this assessment insofar as they could impact the environmental condition of the property, however, a detailed review of regulatory compliance issues was beyond the scope of our investigation. This Phase One ESA does not constitute an audit of environmental management practices, indicate geotechnical conditions or identify geologic hazards.

A written response from some regulatory agencies typically requires several months to receive. If upon receipt of the response from the regulatory agencies, significant environmental issues are identified, EXP will forward their response to the client as an addendum to this report.

The site is located on the south side of Fallowfield Road and the east side of Cedarview Road, at 4190, 4200, 4210, 4236 Fallowfield Road and 2740 Cedarview Road in Ottawa. The site has an area of approximately 2.43 hectares and is currently occupied by four (4) residential structures and associated outbuildings and are summarized below:

- 4190 Fallowfield Road – Single story residential with asphalt driveway, constructed in approximately the 1960s;
- 4200 Fallowfield Road - Single story residential with asphalt driveway, constructed in approximately the 1960s;
- 4120 Fallowfield Road – Vacant
- 4236 Fallowfield Road – Two story residential brick building with unpaved driveway, constructed approximately in the early 1900s; and,
- 2740 Cedarview Road – Two story residential brick building with asphalt driveway, constructed approximately in the 1970s.

The subject property is in a general residential zoned area. The local groundwater flow direction is unknown, although based on regional topography, groundwater flow is anticipated to be southwest. The closest body of water is the Jock River, located approximately 3 km south of the Site. Regional groundwater flow direction is inferred to be in the south direction towards the Jock River.

Based on the results of the Phase One ESA completed at 4190, 4200, 4210, 4236 Fallowfield Road and 2740 Cedarview Road in Ottawa, EXP has identified the following areas of potential environmental concern:

Table EX-1: Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC on Phase One Property	Potentially Contaminating Activity (PCA)	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC 1	Across all of site	PCA#30 – Importation of Fill Material of Unknown Quality	On-Site	Petroleum Hydrocarbons (PHCs), Benzene, Toluene, Ethylbenzene and Xylene (BTEX), and metals	Soil
APEC 2	Northeast part	#28: Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	Soil and groundwater
APEC 3	Central north part	#28: Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	Soil
APEC 4	Southeast part	#28: Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	Soil

Based on the findings of the Phase One ESA, a Phase Two ESA is required to assess the soil and groundwater conditions at the Site.

This executive summary is a brief synopsis of the report and should not be read in lieu of reading the report in its entirety.

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1. Introduction

EXP Services Inc. (EXP) was retained by DCR Phoenix Group of Companies to complete a Phase One Environmental Site Assessment (ESA) of the property referred to as 4190, 4200, 4210, 4236 Fallowfield Road and 2740 Cedarview Road, located in Ottawa, Ontario. A site location plan is presented on Figure 1 in Appendix B. At the time of the investigation, the Site was owned by several individual parcel owners.

Owner Contact: Mr. Michael Boucher of Phoenix Homes
18 Bentley Avenue
Ottawa, Ontario K2E 6T8

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended by Ontario Regulation 511/09 (O.Reg. 153/04), and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended. The scope of report and third-party reliance are outlined in Appendix A.

1.1 Objective

The purpose of this Phase One ESA was to determine if past or present site activities have resulted in actual or potential contamination at the site. EXP understands that Phoenix Homes plans to re-develop the land with a residential land use. Consequently, this Phase One ESA will be used in support of the City of Ottawa Site Plan Approval permitting requirements and a Record of Site Condition (RSC) is not required.

1.2 Phase One Property Information

The site has an area of approximately 2.43 hectares and is occupied four (4) residential structures and associated outbuildings with construction dates estimated between the early 1900's and 1960's. It is located at the southwest corner of Fallowfield Road and Cedarview Road in Ottawa as shown on Figure 1 in Appendix B.

The following describes each of the properties:

- 4190 Fallowfield Road: City of Ottawa PIN is 044670009 and legally described as CON 4 RF PT LOT 20 RP;4R13732 PART 1, City of Ottawa, occupied by a single-family residence;
- 4200 Fallowfield Road: City of Ottawa PIN is 044670007 and legally described as CON 4RF PT LOT 20 PCL 3, City of Ottawa, occupied by a single-family residence;
- 4210 Fallowfield Road: City of Ottawa PIN is 044670048 and legally described as CON 4 RF PT LT 20 RP4D-82; PARTS 1 AND 5, vacant and undeveloped;
- 4236 Fallowfield Road: City of Ottawa PIN is 044670292 and is legally described as CON 4RF PT LOT 20 RP 4R7681; PART 2 LESS 4R20148, occupied by a single-family residence and several sheds and a barn; and,
- 2740 Cedarview Road: City of Ottawa PIN is 044670010 and legally described as CON 4RF PT LOT 20, City of Ottawa), occupied by a single-family residence.

The properties are privately serviced with regards to sewage. All the residential houses have or previous had domestic water wells, however, the residence at 4190 Fallowfield Road has municipal water.

The local groundwater flow direction is unknown, although based on regional topography, groundwater flow is anticipated to be southwest. The closest body of water is the Jock River, located approximately 3 km south of the Site. Regional groundwater flow direction is inferred to be in the south direction towards the Jock River.

The approximate Universal Transverse Mercator (UTM) coordinates for the Site centroid is NAD83, Zone 18, 438732.3 m E, 5014084.2 m N. The UTM coordinates were based on an estimate derived using Google Earth™. The accuracy of the centroid is estimated to range from 5 to 50 m.

2. Scope of Investigation

The scope of work for the Phase One ESA consisted of the following activities:

- Reviewing the historical occupancy of the site through the use of available archived and relevant municipal and business directories, fire insurance plans (FIPs), topographical maps, and aerial photographs;
- Contacting municipal and provincial agencies to determine the existence of records of environmental regulatory non-compliance, if any, and reviewing such records where available;
- Obtaining an EcoLog Environmental Risk Information Services Ltd. (ERIS) report for the site and surrounding properties within a 250 metre radius of the site;
- Reviewing available geological maps, well records and utility maps for the vicinity of the site;
- Obtaining a search of land title and assessment rolls for the site;
- Conducting at least one site reconnaissance of the site and building facilities in order to identify the presence of actual and/or potential environmental contaminants or concerns of significance;
- Conducting interviews with designated site representative(s) as a resource for current and historical site information, as well as to provide EXP staff with unrestricted access to all areas of the site and site buildings (as required by O.Reg 153/04);
- Reviewing the current use of the site and any land use practices that may have impacted its environmental condition;
- Reviewing the current use of the surrounding properties and any land use practices that may have impacted the environmental condition of the site; and,
- Preparing a report to document the findings.

In completing the scope of work, EXP did not conduct any intrusive investigations, including sampling, analyses, or monitoring.

EXP has confirmed neither the completeness nor the accuracy of any of the records that were obtained or of any of the statements made by others.

EXP personnel who conducted assessment work for this project included Daniel Clarke, P. Eng. and Mark McCalla, P. Geo. An outline of their qualifications is provided in Appendix A.

3. Records Review

3.1 Phase One ESA Study Area Determination

The Phase One ESA study area consisted of the neighbourhood and extending a distance of 250 metres from the Site. Surrounding properties consist of mainly vacant and commercial properties. A site plan is presented as Figure 2 in Appendix B.

3.2 First Developed Use Determination

Based on a review of historical aerial photographs, historical maps, and other records review, it appears that the subject site was initially agricultural land with a residence in the 1900's, then additional residential buildings were built in the 1960's.

3.3 Fire Insurance Plans

A search of The Catalogue of Canadian Fire Insurance Plans 1875 – 1975 (Catalogue) was conducted to determine if fire insurance plans for the site existed. No fire insurance plans exist for the site or surrounding area.

3.4 Chain of Title

A chain of title was obtained from Read Abstracts Inc. for the subject site. Based on the information gathered from the title search, the following was found:

- 2740 Cedarview Road was owned by individual until 2008. The property has been owned by 2183157 Ontario Inc. since then.
- 4200 Fallowfield Road has always been owned by individuals.
- 4236 Fallowfield Road was owned by individuals until 1986. Then it was registered to Russell Neil Park Ltd. In 2003 it was sold to 1578057 Ontario Ltd. In 2006 it was sold to Hardeli Holdings Limited who still owns the property.
- 4190 Fallowfield Road was owned by individuals until 1989. Then it was registered to Brental Development Corporation. Then it was sold to individual owners in 1998 and is still owned by individuals.
- 4210 Fallowfield Road was owned by individuals until 1986. Then it was registered to Russell Neil Park Ltd. In 1992 the land was expropriated by the Carleton Board of Education. In 1992 it was sold to GIB West Inc. In 1995 it was foreclosed by Hardeli Holdings Limited who then sold it to BACLJC Ministries Corporation in 2001.

No notable environmental concerns were identified based on the title search. Refer to Appendix C for the title search.

3.5 Previous Reports

No previous environmental reports were provided to EXP for review. EXP completed a Geotechnical Investigation of the site in October 2017. Fill was encountered to a depth of 0.8 m in the three (3) boreholes. The fill consisted of a mixture of brown to grey silty sand and silty clay to sand and gravel. The fill in all the boreholes was underlain by glacial till which extended to a depth of 5.3 m in Borehole No. 3. The till contains

numerous cobbles and boulders and is in a compact to very dense state and extended to a depth of 5.3 m where limestone bedrock was encountered. The presence of fill across the site is PCA 1 (PCA #30 - Importation of Fill Material of Unknown Quality).

The groundwater table was measured at 1.0 m and 2.1 m depths in the two standpipes, seven days following the completion of drilling.

3.6 Regulatory Environmental Source Information

The appropriate regulatory agencies at the provincial and municipal levels were contacted to obtain information regarding environmental permits, past or pending environmental control orders or complaints, outstanding environmental regulatory non-compliance issues and Sewer Use By-Law infractions. EXP did not identify the need to contact any federal agencies.

The following agencies were contacted:

- The Ontario Ministry of the Environment and Climate Change (MOECC) Freedom of Information, Protection of Privacy Office; and
- The City of Ottawa.

Written responses from the regulatory agencies and copies of the requests are included in Appendix C.

3.6.1 Ontario Ministry of the Environment and Climate Change Records

Records pertaining to the site were requested from the MOECC through the *Freedom of Information and Protection of Privacy Act* (FOI). A response has not yet been received. A copy of the request is provided in Appendix C.

- On February 20, 2018, the MOECC Environmental Bill of Rights (EBR) registry website was searched by ERIS for postings in the vicinity of the subject site using 250 m radius. No areas of potential environmental concern were identified.
- On February 20, 2018, the MOECC Hazardous Waste Information Network (HWIN) database was searched by ERIS for registered waste generators in the vicinity of the subject site. No postings were listed.
- On February 20, 2018, the MOECC Brownfields Registry website was searched by ERIS for postings of Records of Site Condition (RSC). No postings for the Site or for the surrounding properties were listed.

3.6.2 Municipal Records

3.6.3.1 City Hall Records

A request for the Site was made to the City of Ottawa for the Hazardous Land Use Index (HLUI). No response has yet been received. A copy of the response is provided in Appendix C. There were no historical activities associated with the property or properties within 50 m.

3.6.3.2 City Directory Search

EXP reviewed city directories dating from 1961 to 2011 from an ERIS search of Vernon's Ottawa in order to identify the occupancy history of the site and neighbouring properties for potential environmental concerns. A copy of the directory search is included in Appendix D. The following table summarizes the directory search.

Table 3.1: City Directory Search

Address	Direction/ Distance from Site	Year	Occupant	Concern (yes/no)
4190 Fallowfield Road	Site	1992 - 2011	Residential	No
		1960 - 1990	Not Listed	
4200 Fallowfield Road		1992 - 2011	Residential	
		1960 - 1990	Not Listed	
4210 Fallowfield Road		Vacant lot		No
4236 Fallowfield Road	Site	1992 - 2011	Residential	No
		1960 - 1990	Not Listed	
2740 Cedarview Road		1995/96 - 2011	Residential	No
		1960 - 1992	Not Listed	
2760 Cedarview Road	Adjacent to south	1999/00 - 2011	Institutional (Cedarview Middle School)	No
		1960 - 1995/96	Not Listed	
4239 Fallowfield Road	40 m north (across Fallowfield Road)	1999/00 - 2011	Residential	No
		1960 - 1995/96	Not Listed	

Based on a review of the city directories, none of the surrounding properties were identified as potential sources of environmental concern to the site.

3.6.3 Land Use Documents

A review of the following publications was carried out as part of this Phase One ESA:

- Old Landfill Management Strategy Phase 1 – Identification of Sites, City of Ottawa, Ontario (Golder Associates, October 2004);
- Inventory of Coal Gasification Plant Waste Sites in Ontario (Intera, April 1987);
- Mapping and Assessment of Former Industrial Sites – City of Ottawa (Intera, July 1988); and,
- Ontario Inventory of PCB Storage Sites (Ontario Ministry of the Environment; 1993).

3.6.4 Old Landfill Management Strategy Phase 1 – Identification of Sites - Golder (2004)

No former landfills were identified within 250 m of the subject site. In addition, there is no visual evidence of a landfill in the area.

3.6.5 Inventory of Coal Gasification Plant Waste Sites in Ontario - Ontario MOE (1987)

There were no coal gasification plants identified within 250 m of the subject site.

3.6.6 Mapping and Assess Former Industrial Sites – Intera (1988)

There are no Intera sites identified within 250 m of the subject Site.

3.6.7 Ontario Inventory of PCB Storage Sites - Ontario MOE (1993)

No records pertaining to PCB storage sites were identified within 250 m of the subject site in this document.

3.7 EcoLog ERIS Database Search

A search of provincial and federal databases for records pertaining to the subject site and properties within 250 metres of the subject site was conducted by EcoLog Environmental Risk Information Services (or EcoLog ERIS). EcoLog ERIS is an environmental database and information service provider. EXP has confirmed neither the completeness nor the accuracy of the records that were provided. A summary of the more significant findings is provided below. A copy of the EcoLog ERIS report is provided in Appendix D.

Based on the EcoLog search, the following was identified:

- A Certificate of Approval was listed at Fallowfield Road and Cedarview Road (adjacent to the northeast of the site) for the year 1990 and 1991. The Certificate of Approval was for municipal water discharge. This does not represent an APEC.
- A waste generator was listed at 2760 Cedarview Road (Adjacent property to the south) for the year 2007-2017. Wastes generated include: other specified inorganic sludges, slurries or solids, waste from the used of pigments and coatings, miscellaneous waste and organic chemicals, waste crankcase oils and lubricants, alkaline solutions (containing heavy metals) and waste compressed gases including cylinders. The waste generator was listed as the Ottawa Carleton District School Board. Since this property is a school the quantity of wastes generated would be limited. Due to the anticipated limited quantity of wastes and inferred groundwater flow direction this does not represent an APEC.
- Various water wells and boreholes, certificates of approval were listed on the site and surrounding properties.

Based on the information reviewed, no APECs were identified.

3.8 Physical Setting Review

3.8.1 Aerial Photographs

The following table summarizes the development and land use history of the subject site and adjacent properties as depicted on the reviewed aerial photographs.

Table 3.1: Development and Land Use History Summary

Aerial Photograph (year)	Details
1958	The site and surrounding properties are agricultural in nature with the exception of 4239 Fallowfield Road which is observed to have a residential structure present.
1965	The site was developed current residential structures with the exception of 2470 Cedarview Road. Surrounding properties are agricultural in nature with the exception of 4239 Fallowfield Road which is observed to have a residential structure present. Three other residences are present across Fallowfield Road to the northeast.
1976	The 1976 photograph is similar to the 1965 photograph with the exception of the development of 2470 Cedarview Road. Surrounding properties remain unchanged.
1991	The 1991 photograph is similar to the 1976 photograph and site buildings remain unchanged. The site (4236 Fallowfield Road) appears to be a storage business with multiple vehicles (cars, boats) parked on the site. Residential development has occurred to the east of the site and a church was constructed to the south of the site.
1999	The 1999 photograph shows that the site and surrounding properties remain unchanged with the exception of 2760 Cedarview Road where a school has been constructed.
2002	There are no apparent changes to the Site or neighbouring properties.
2005	There are no apparent changes to the Site or neighbouring properties.
2008	There are no apparent changes to the Site or neighbouring properties.
2011	There are no apparent changes to the Site or neighbouring properties.
2014	The 2014 photograph is similar to the 2011 photograph. Residential development has begun to the west of the site (directly adjacent).
2017	There are no apparent changes to the Site or neighbouring properties.

Based on the review of the aerial photography, there are no obvious signs of exterior chemical storage such as drums or waste piles at the site. Based on the review of the aerial photographs, no APECs were noted.

3.8.2 Geology, Hydrogeology and Topography

The following information sources were reviewed to determine the nature of the subsurface materials at the site:

1. *Bedrock Geology of Southern Ontario* – Ontario Geological Survey. Scale 1:50,000. Electronic resource Issued 2003.
2. *Surficial Geology of Southern Ontario* – Ontario Geological Survey. Scale 1:50,000. Electronic resource Issued 2003.
3. Ontario Geotechnical Boreholes – Electronic Resource.
4. MOE Water Well Records – Electronic Resource.
5. Department of Natural Resources, Topographic Mapping. Electronic Resource.

Based on local mapping, beneath any fill, the surficial geology of the site is characterised by stone-poor, sandy silt to silty sand-textured till. The bedrock geology underlying the subject site consists of Ottawa Formation, limestone, dolostone, and shale. The local MOECC water well records and geotechnical boreholes indicate local geology is clay, sand and silt over limestone bedrock. The depth to bedrock is approximately 2 to 4 m below grade.

The local groundwater flow direction is unknown, although based on regional topography, groundwater flow is anticipated to be southwest.

3.8.3 Fill Materials

It is not anticipated that significant amounts of fill are present at the Site. Based on the previous Geotechnical Investigation completed at the site, fill was encountered to a depth of 0.8 m in all three (3) boreholes. The fill consisted of a mixture of brown to grey silty sand and silty clay to sand and gravel. No deleterious material was observed within the fill.

3.8.4 Water Bodies and Areas of Natural Significance (ANSI)

There are no water bodies on the subject site. The closest body of water is the Jock River located approximately 3 km south of the site. The site is not located near an ANSI according to the Ministry of Natural Resources Natural Heritage website.

3.8.5 Well Records

The local MOECC water well records and geotechnical boreholes indicate local geology is clay, sand and silt over limestone bedrock. The depth to bedrock is approximately 2 to 4 m below grade. The water well records are presented in the EcoLog report in Appendix D.

3.9 Site Operating Records

No site operating records were available for review.

3.10 Summary of Records Review

Based on a review of the available records, the following PCAs were identified in the vicinity of the site:

- PCA 1 – Fill material across the site. (PCA#30 – Importation of Fill Material of Unknown Quality).

The areas of PCAs identified at the site are shown on Figure 3.

4. Interviews

Interviews were attempted by EXP with any individuals identified to be the most knowledgeable about both the current and historical site uses. The purpose of interviews is to obtain information to assist in identifying areas of potential environmental concern and identify details of potentially contaminating activities or potential contaminant pathways, in, on or below the site.

During the completion of this Phase I ESA, the following individual was interviewed:

- Mr. Keith Woleston, listing agent for 4200 and 4190 Fallowfield, 2740 Cedarview. He has been involved with the property for the past 6 months. Mr. Woleston was interviewed over the phone on October 19, 2017.
- Mr. Katsum Idogawa, owner of 4200 Fallowfield. He has owned the property for 7 years. Mr. Idogawa was interviewed during the site visit on October 20, 2017.
- Mr. Ron Milligan, owner of 4236 Fallowfield. He has owned the property since early 1980's. Mr. Milligan was interviewed over the phone on October 20, 2017.

Mr. Woleston set up the site visit and he indicated 4192 Fallowfield Road was not part of the deal and a third party purchased the property a few weeks earlier. To his knowledge, there were no environmental issues on the site.

Mr. Idogawa provided access to all areas at 4200 Fallowfield Road, he mentioned he switched from oil to propane 2 years ago. The oil tank was empty and still located in the basement. The oil tank appeared to be in good condition with no staining and located on a concrete floor. To his knowledge, there were no environmental issues on the site.

Mr. Milligan mentioned the house was heated with electric when he purchased it in the 1980's. He then converted it to natural gas in the 1990's. He mentioned the one shed is heated with wood and the barns are not heated. Mr. Milligan indicated there was an original log cabin from the 1800's located on the property at one point. The barns were built early 1900's along with the residence. He mentioned when he purchased the property, the farmer only owned 50 acres and operated a very small farm. To his knowledge no furnace oil or fuel tank was never used at the property for heating, or for fueling tractors or work equipment. Mr. Milligan mentioned the farm was small and there was no need for fuel tanks on the site. To his knowledge, there were no environmental issues on the property.

5. Site Reconnaissance

5.1 General Requirements

On October 20 and 23, 2017, Daniel Clarke P.Eng., of EXP conducted the site visit for the property. The site visit was conducted in accordance with EXP's internal health and safety protocols and with the Ministry of Labour health and safety regulations. The purpose of the site visit was to assess the current conditions of the Site.

The general environmental management and housekeeping practices at the site were reviewed as part of this assessment insofar as they could impact the environmental condition of the property; however, a detailed review of regulatory compliance issues was beyond the scope of EXP's investigation.

Photographs were taken from the exterior and interior of the buildings. Access into the residence and the shed at 4236 Fallowfield Road were not available during the site visit, based on the interview it was not considered to be a concern. Photographs are included in Appendix E.

5.2 Specific Observations at Phase One ESA Property

5.2.1 Site Description and Buildings

The site is located on the south side of Fallowfield Road and the east side of Cedarview Road, at 4190, 4200, 4210, 4236 Fallowfield Road and 2740 Cedarview Road in Ottawa. The site has an area of approximately 2.43 hectares and is currently occupied by four (4) residential structures and associated outbuildings and are summarized below:

- 4190 Fallowfield Road: City of Ottawa PIN is 044670009 and legally described as CON 4 RF PT LOT 20 RP;4R13732 PART 1, City of Ottawa, occupied by a single-family residence;
- 4200 Fallowfield Road: City of Ottawa PIN is 044670007 and legally described as CON 4RF PT LOT 20 PCL 3, City of Ottawa, occupied by a single-family residence;
- 4210 Fallowfield Road: City of Ottawa PIN is 044670048 and legally described as CON 4 RF PT LT 20 RP4D-82; PARTS 1 AND 5, vacant and undeveloped;
- 4236 Fallowfield Road: City of Ottawa PIN is 044670292 and is legally described as CON 4RF PT LOT 20 RP 4R7681; PART 2 LESS 4R20148, occupied by a single-family residence and several sheds and a barn; and,
- 2740 Cedarview Road: City of Ottawa PIN is 044670010 and legally described as CON 4RF PT LOT 20, City of Ottawa), occupied by a single-family residence.

The subject property is in a general residential zoned area. The local groundwater flow direction is unknown, although based on regional topography, groundwater flow is anticipated to be southwest. A site plan is provided in Figure 3 of Appendix B.

5.2.2 Heating and Cooling Systems

Heating and cooling within the buildings is summarized as follows:

- 4190 Fallowfield Road was heated with natural gas and cooled with central air conditioning.
- 4200 Fallowfield Road was heated with propane, previously heated with oil and cooled with central air conditioning.
- 4210 Fallowfield Road was vacant and no with no heating or cooling sources.

- 4236 Fallowfield Road was heated with natural gas and previously heated with electricity.
- 2740 Cedarview Road was heated with oil, and cooled with central air conditioning

5.2.3 Site Utilities and Services

The Site utilities and services identified at the Site are summarized as follows:

- 4190 Fallowfield Road was serviced with natural gas, electrical, communications, and municipal water and wastewater services.
- 4200 Fallowfield Road was serviced with propane, electrical, communications, and private domestic well and septic bed.
- 4210 Fallowfield Road was vacant with no services.
- 4236 Fallowfield Road was serviced with natural gas, electrical, communications, and municipal water and wastewater services.
- 2740 Cedarview Road was serviced with oil, electrical, communications, and private domestic well and septic bed.

5.2.4 Site Use

The site was occupied by four (4) residential structures, 4236 Fallowfield has an additional four (4) outbuildings three (3) barns, and one (1) shed (Photograph 1-9, Appendix E).

5.2.5 Drains, Pits and Sumps

There were drains and sumps located in all the basements. There was no apparent staining or odours near the drains and sumps. This is not considered to be an APEC.

5.2.6 Storage Tanks

5.2.6.1 Underground Storage Tanks

The site representative indicated they had no knowledge of underground storage tanks (USTs) at the site. EXP did observe evidence of a potential UST during the site reconnaissance at 4190 Fallowfield Road. A potential fuel line was observed in the basement which could be from a former furnace oil UST located in the front of the residential dwelling (Photograph 10 and 11, Appendix E). This is considered to be a potentially contaminating activity PCA 2 (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks).

5.2.6.2 Aboveground Storage Tanks

One AST was identified at the subject Site and are summarized in the table below.

Table 5.2: Summary of Aboveground Storage Tanks

AST#	Location	Type	Volume	Contents	Year	
			Litres		Installed	Removed
AST-1	4200 Fallowfield Road, in basement	Steel	905	Furnace oil	2000	2015, stopped being used

AST-2	2740 Cedarview Road, in basement	Double wall steel	620	Furnace oil	2016	Present
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Both ASTs were located in the basement on a concrete floor, in good condition with no staining. The AST-1 (PCA 3) was empty and no longer used. There were no reports of spills/leaks associated with this tank. (Photograph 12, Appendix E). The AST-2 (PCA 4) has a secondary containment, and serviced by a licensed contractor, there were no reports of spills/leaks associated with this tank (Photograph 13, Appendix E). In addition, there may have been a heating oil AST at 4236 Fallowfield Road, however during the interview process the owner said that the house has been heated electrically for at least the last 40 years.

5.2.7 Chemical Storage and Handling and Floor Condition

No chemicals were observed at the site.

5.2.8 Areas of Stained Soil, Pavement or Stressed Vegetation

No areas of staining were observed at the site.

5.2.9 Fill, Debris and Methane

The subject site is at approximately the same elevation as the surrounding properties, therefore no significant amount of fill or debris is anticipated to be present at the Site.

Methane or radon gas-producing materials were not observed on the subject site.

5.2.10 Air Emissions

Regulatory control of air emissions in Ontario is the responsibility of the MOECC. According to the Environmental Protection Act (EPA), a Certificate of Approval (CofA) (Air) is required for the ongoing operation of any equipment that may discharge a contaminant into the natural environment if the equipment was installed, modified or altered after June 29th, 1988. Retroactive approval should be sought for equipment installed and unchanged between 1972 and June 29th, 1988 when the requirement for a CofA was added to the EPA. Unless explicitly exempted, most industrial processes or modifications to industrial processes and equipment require a CofA. The EPA provides a list of specific equipment and conditions, which are exempt from CofA (Air) requirements (i.e. fuel burning equipment for comfort heating in a building using natural gas or number 2 fuel oil at a rate of less than 1.5 million British Thermal Units per hour [BTU/hour]).

No air emissions concerns were identified at the time of the site visit.

5.2.11 Odours

No strong odours were detected during the site visit.

5.2.12 Noise

No excessive noise was detected during the site visit.

5.2.13 Special Attention Items, Hazardous Building Materials and Designated Substances

5.2.13.1 Asbestos

Asbestos-containing materials (ACMs) are fibrous hydrated silicates, and can be found in building materials as either "unbound" or "bound" asbestos. Friable asbestos refers to materials where the asbestos fibres

can be separated from the material with which it is associated. Non-Friable asbestos refers to asbestos, which is associated with a binding agent (such as tar or cement). Friable asbestos is commonly found in boiler and pipe insulation. Non-Friable asbestos is typically found in roofing tars, floor and ceiling tiles, and asbestos-containing cement.

ACMs in the workplace are defined as a Designated Substance under the Ontario Occupational Health and Safety Act (OHSA). Under OHSA, persons in the workplace are required to be notified of the presence of ACMs once they are suspected to be present, and if there is a potential for workers to be exposed. The use of ACMs was discontinued in Canada in the late 1970s/early 1980s, although non-friable asbestos can still be found in recently constructed buildings.

Based on the date of construction (constructed approximately the 1900's to the 1960's), there is a potential for ACM to have been used during the construction of the site building (i.e. in the form of insulation, roofing tars, cement, drywall filler compound, floor tiles, and ceiling tiles, etc.).

As per Ontario Regulation 278/05, if there are any planned demolitions or renovations, a Designated Substance Survey (DSS) needs to be conducted.

5.2.13.2 Lead

Lead has frequently been used in oil-based paints, roofing materials, cornices, tank linings, electrical conduits and soft solders for tinsplate and plumbing. The use of lead based paints (LBPs) was phased out circa 1976. Paint that was produced or used between 1976 and 1980 may contain small amounts of lead. Paint that was produced or used prior to 1950 may contain high levels of lead. The main concern regarding lead paint is its potential to become lead dust or chips either through deterioration and/or mechanical means (i.e., sanding, abrasion, etc.). Exposure to lead dust or chips occurs by ingestion or inhalation.

Based on the age of the site building (constructed approximately the 1900's to the 1960's), it is EXP's opinion that it is possible for LBPs to be contained within the site building.

As per Ontario Regulation 278/05, if there are any planned demolitions or renovations, a Designated Substance Survey (DSS) needs to be conducted.

5.2.13.3 Mercury

Mercury could be found in some batteries, light bulbs, old paints, thermostats, old mirrors, etc. Based on an investigation by Consumer and Corporate Affairs Canada, and an assessment of potential health risks by Health and Welfare Canada, in 1991 the decision was made to eliminate the use of mercury compounds in indoor latex paints. The Canadian Paint and Coatings Association (CPCA) supported the withdrawal and all Canadian manufacturers and formulators of the preservative voluntarily agreed to remove "interior uses" from their product labels.

Based on the age of the site building (constructed approximately the 1900's to the 1960's), it is EXP's opinion that the presence of mercury-based paints and mercury based thermostats within the site building are possible.

As per Ontario Regulation 278/05, if there are any planned demolitions or renovations, a Designated Substance Survey (DSS) needs to be conducted.

5.2.13.4 Polychlorinated Biphenyls (PCBs)

The manufacture of PCBs in North America was prohibited under the Toxic Substances Control Act (1977). Their use as a constituent of new products manufactured in or imported into Canada was prohibited by regulations in 1977 and 1980. As such, sites developed or significantly renovated after 1980 are unlikely to have PCBs-containing equipment on the Site. Potential equipment, which could contain PCBs include

fluorescent mercury and sodium vapour light ballasts, oil filled capacitors and transformers. Any electrical equipment containing PCBs must be disposed in accordance with Ontario Regulation 362 when it is removed from service. Ongoing operation of equipment containing PCBs is permissible.

If fluorescent light ballasts were in use, they may contain PCBs.

As per Ontario Regulation 278/05, if there are any planned demolitions or renovations, a Designated Substance Survey (DSS) needs to be conducted.

5.2.13.5 Urea Formaldehyde Foam Insulation

Formaldehyde is a pungent, colourless gas commonly used in water solution as a preservative and disinfectant. It is also a basis for major plastics, including durable adhesives. It occurs naturally in the human body and in the outdoor environment. Formaldehyde is used to bond plywood, particleboard, carpets and fabrics, and it contributes to "that new house smell."

Formaldehyde is also a by-product of combustion; it is found in tobacco smoke, vehicle exhaust and the fumes from furnaces, fireplaces and wood stoves. While small amounts of formaldehyde are harmless, it is an irritating and toxic gas in significant concentrations. Symptoms of overexposure to formaldehyde include irritation to eyes, nose and throat; persistent cough and respiratory distress; skin irritation; nausea; headache; and dizziness.

Urea-formaldehyde foam insulation (UFFI) was developed in Europe in the 1950s as an improved means of insulating difficult-to-reach cavities in the walls. It is typically made at a construction site from a mixture of urea-formaldehyde resin, a foaming agent and compressed air. When the mixture is injected into the wall, urea and formaldehyde unite and "cure" into an insulating foam plastic.

During the 1970s, when concerns about energy efficiency led to efforts to improve building insulation in Canada, UFFI became an important insulation product for existing buildings. Most installations occurred between 1977 and the further use of UFFI was banned in Canada in 1980.

No evidence of UFFI was observed during the site visit.

5.2.13.6 Radon

Radon is a colourless, odourless, radioactive gas that occurs naturally in the environment. It comes from the natural breakdown of uranium in soils and rocks. Exposure to high levels of radon increases the risk of developing lung cancer. This relationship has prompted concern that radon levels in some Canadian buildings may pose a health risk. Radon gas can move through small spaces in the soil and rock and seep into a building through cracks in concrete, sumps, joints and basement drains. Concrete-block walls are particularly porous to radon and radon trapped in water from wells can be released into the air when the water is used.

Due to the potential health concerns associated with radon, Health Canada released a guideline in June 2007 for a maximum acceptable level of radon gas of 200 Becquerel's per cubic metre (Bq/m³). Where radon gas is present and the annual radon concentration exceeds 200 Bq/m³ in the normal occupancy area, Health Canada recommends taking the necessary actions to reduce radon levels.

Based on local well records, the bedrock underlying the Site is a mix of the Ottawa Formation, limestone, dolostone, and shale. Black shale is known to have an increased potential to release radon gas. Since the bedrock at the site is not predominantly shale, the accumulation of radon gas is not considered likely.

5.2.13.7 Mould

Mould is found in the natural environment and is required for the breakdown of plant debris such as leaves and wood. Mould spores are found in the air in both the indoor and outdoor environments. In order for mould to grow it requires a food source (i.e. gypsum wallboard, wallpaper, wood, etc.) combined with moist conditions. Mould can have an impact on human health depending on the species and concentration of the airborne mould spores. Health effects can include allergies and mucous membrane irritation.

Currently there are no regulations governing mould; however, there are several guidelines addressing mould assessments and abatement. At the moment, the industry standards include the Canadian Construction Association (CCA) document 82-2004 titled "mould guidelines for the Canadian construction industry" and the Environmental Abatement Council of Ontario (EACO) guidelines titled "EACO Mould Abatement Guidelines, Edition 2 (2010)."

It is important to note that the Ministry of Labour (MOL) has governed protecting workers under the Occupational Health and Safety Act, which states that employers are required to take every precaution reasonable to protect their workers. This includes protecting workers from mould within workplace buildings.

No suspect mould was observed during the site visit.

5.2.13.8 Other Substances

No other special attention substances (such as acrylonitrile or isocyanates) were suspected to be present at the Site at the time of this Phase One ESA.

5.2.14 Processing and Manufacturing Operations

No processing or manufacturing operations were observed or reported to have been conducted at the Site.

5.2.15 Hazardous Materials Use and Storage

No hazardous materials are used or stored at the Site.

5.2.16 Vehicle and Equipment Maintenance Areas

A small private not commercial operations vehicle and equipment maintenance area was observed at 4236 Fallowfield Road located in the barn at the south part of the property (Photograph 14 and 15, Appendix E). There was a small waste oil drums located on a concrete floor, in good condition with no staining. This is not considered to be an APEC. No spills or leaks were reported by the owner.

5.2.17 Oil/Water Separators

No oil water separators are present at the Site.

5.2.18 Sewage and Wastewater Disposal

The subject site was serviced with private and municipal sanitary services.

5.2.19 Solid Waste Generation, Storage & Disposal

General garbage is picked up on a routine basis.

5.2.20 Liquid Waste Generation, Storage & Disposal

No liquid waste was observed at the site.

5.2.21 Unidentified Substances

No unidentified substances were observed on the Site at the time of the Site visit. No dumping or any other deleterious materials were identified.

5.2.22 Hydraulic Lift Equipment

No hydraulic equipment was observed the Site.

5.2.23 Mechanical Equipment

No mechanical equipment of concern was present on the Site.

5.2.24 Abandoned and Existing Wells

All of the residential houses have or previous had domestic water wells.

5.2.25 Roads, Parking Facilities and Right of Ways

The subject site has road access from Fallowfield Road and Cedarview Road.

5.3 Adjacent and Surrounding Properties

A visual inspection of the adjacent properties and properties within 250 m of the site was conducted from publicly accessible areas to identify the occupants and document the uses and sources of potential environmental concerns that may impact the Site. Refer to Figure 2 in Appendix B for the adjacent land uses.

The following land uses border the subject property:

- North: Fallowfield Road followed by residential
- South: Institutional (school)
- East: Cedarview Road followed by residential
- West: Residential

The site encompasses 4192 Fallowfield Road which appears to have a current AST located in the basement at the rear of the residential dwelling, this is PCA 5 (Photograph 16, Appendix E).

No other PCAs or APECs were identified from a visual inspection of the adjacent and surrounding properties.

5.4 Summary of Site Reconnaissance

Based on site reconnaissance, the following PCAs were identified in the vicinity of the site:

- PCA 1 – Fill material across the site. (PCA#30 – Importation of Fill Material of Unknown Quality).
- PCA 2 to 4– Current and Former On-Site heating oil ASTs and possible UST located at residences. (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks).

The areas of PCAs identified at the site are shown on Figure 3.

6. Phase One ESA Conceptual Site Model

6.1 Current and Past Uses

Based on a review of historical aerial photographs, historical maps, and other records review, it appears that the subject site was initially agricultural land with a residence in the 1900's, then additional residential buildings were built in the 1960's.

6.2 Summary of Potentially Contaminating Activities

As per Ontario Regulation (O.Reg.) 153/04, a Potential Contaminating Activity (PCA) is defined as one of fifty-nine (59) industrial operations set out in Table 2 of Schedule D that occurs or has occurred in a Phase One study area. The following PCAs were identified:

- PCA1 – Fill quality across the site. (PCA#30 – Importation of Fill Material of Unknown Quality).
- PCA2 – Possible former On-Site heating oil UST at 4190 Fallowfield Road. (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks).
- PCA3 – On-Site heating oil AST located in basement at 4200 Fallowfield Road. (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks). No evidence of impact was observed within the basement. Only possible minor spillage at fill pipe may have occurred.
- PCA4 – On-Site heating oil AST located in basement at 2740 Cedarview Road. (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks). No evidence of impact was observed within the basement. Only possible minor spillage at fill pipe may have occurred.

Potentially contaminating activities that took place within the vicinity of the Site (approximately 250 m radius) include:

- PCA5 – Off-Site heating oil AST located in basement at 4192 Fallowfield Road. (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks). This PCA is included in areas on the subject site that are addressed in the APECs listed below.

6.3 Areas of Potential Environmental Concern

As a result of the PCAs, the report identified the following APECs at the Site:

- APEC 1 – (entire Site) Potentially contaminated fill material. This APEC is associated with PCA4. The PCOCs include BTEX and PHC, and metals.
- APEC 2 – (northeast part of Site) Potentially contaminated soil and groundwater. This APEC is associated with PCA1. The potential contaminants of concern (PCOC) include PHC and BTEX. APEC 2 also includes area from PCA5.
- APEC 3 – (central north part of Site) Potentially contaminated soil and groundwater. This APEC is associated with PCA2. No evidence of impact was observed within the basement, possible minor spillage at fill pipe may have occurred therefore, soil was assessed near the fill pipe location. The PCOCs include BTEX and PHC. APEC 3 also includes area from PCA5.
- APEC 4 – (southeast part of Site) Potentially contaminated soil and groundwater. This APEC is associated with PCA3. No evidence of impact was observed within the basement, possible minor spillage at fill pipe may have occurred therefore, soil was assessed near the fill pipe location. The PCOCs include BTEX and PHC.

It is noted that any significant uncertainty or absence of information has the ability to affect the Phase One Conceptual Site Model. However, based on the information and findings presented within the Phase One ESA, it is EXP's opinion that any uncertainty would be minimal, and it would not alter the validity of the model presented above.

6.4 Site Characteristics

In order to develop a conceptual model for the subject site and surrounding study area, the following physical characteristics and pathways were considered. A conceptual site model showing the inferred groundwater flow direction and general site is shown in Figure 3 in Appendix B.

6.4.1 Subsurface Stratigraphy

With respect to surficial geology, beneath any fill, glacial till which extended to a depth of 5.3 m in Borehole No. 3. The till contains numerous cobbles and boulders and is in a compact to very dense state and extended to a depth of 5.3 m where limestone bedrock (Paleozoic) of the Oxford Formation was found.

6.4.2 Estimated Groundwater Flow Direction

Topographically, the Site relatively flat with a slight downwards slope towards the southwest. Regional groundwater flow direction is inferred to be to the south towards the Jock River.

6.4.3 Underground Utilities

Currently, the only underground utilities are water and sewage (septic tank and bed). Electricity and telephone services were overhead.

7. Findings and Recommendations

Based on the results of the Phase One ESA completed at 4190, 4200, 4210, 4236 Fallowfield Road and 2740 Cedarview Road in Ottawa, EXP has identified the following areas of potential environmental concern:

Table 7-1: Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC on Phase One Property	Potentially Contaminating Activity (PCA)	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC 1	Across all of site	PCA#30 – Importation of Fill Material of Unknown Quality	On-Site	Petroleum Hydrocarbons (PHCs), Benzene, Toluene, Ethylbenzene and Xylene (BTEX), and metals	Soil
APEC 2	Northeast part	#28: Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	Soil and groundwater
APEC 3	Central north part	#28: Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	Soil
APEC 4	Southeast part	#28: Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	Soil

Based on the findings of the Phase One ESA, a Phase Two ESA is required to assess the soil and groundwater conditions at the Site.

8. References

1. Canadian Standards Association; November 2001; *Z768-0 Phase I Environmental Site Assessment*.
2. Dubreuil, L. and C. Woods; 2002; *Catalogue of Canadian Fire Insurance Plans, 1875 – 1975*.
3. Department of Energy Mines and Resources, Surveys and Mapping Branch; 1976; *Ottawa Map 31 G/5, Scale 1:50,000*.
4. Geological Survey of Canada; 1982; *Generalized Bedrock Geology – Ottawa-Hull, Ontario-Quebec: Map 1508A. Scale 1:50,000*.
5. Geological Survey of Canada; 1976; *Surficial Geology – Ottawa, Ontario: Map 1507A. Scale 1:50,000*.
6. Golder Associates Inc.; October 2004; *Old Landfill Management Strategy, City of Ottawa*.
7. Intera Technologies Ltd.; July 1998; *Mapping and Assessment of Former Industrial Sites, City of Ottawa*.
8. Ministry of Labour (MOL); *Occupational Health and Safety Act*.
9. Ontario Ministry of the Environment, *Environmental Registry website* (www.ene.gov.on.ca/envision/env_reg/ebr/english/index.htm)
10. Ontario Ministry of the Environment; 1993- 2003-2004; *Ontario Inventory of PCB Storage Sites*.
11. Ontario Ministry of the Environment; *Brownfields Registry website* (www.ene.gov.on.ca/environet/BESR/index.htm)
12. Ontario Ministry of the Environment; *Hazardous Waste Information Network website* (www.hwin.ca).
13. Ontario Ministry of the Environment; November 1988; *Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario*.
14. Ontario Ministry of the Environment, Waste Management Branch; June 1991; *Waste Disposal Site Inventory*.
15. Ontario Ministry of the Environment and Intera Technologies Ltd.; June 1991; *Inventory of Coal Gasification Plant Waste Sites in Ontario*;
16. Ontario Ministry of Natural Resources, Natural Heritage website (www.mnr.gov.on.ca/MNR/nhic/areas.cfm).
17. Technical Standards and Safety Authority; May 2007; *Environmental Management Protocol for Fuel Handling Sites in Ontario*.

9. Scope of Report and Third-Party Reliance

Basis of Report

This report ("Report") is based on site conditions known or inferred by the investigation undertaken as of the date of the Report. Should changes occur which potentially impact the condition of the site the recommendations of EXP may require re-evaluation.

Reliance on Information Provided

The evaluation and conclusions contained in the Report are based on conditions in evidence at the time of site inspections and information provided to EXP by DCR Phoenix Group of Companies. The Report has been prepared for the specific site, development, building, design or building assessment objectives and purpose as communicated by DCR Phoenix Group of Companies. EXP has relied in good faith upon such representations, information and instructions and accepts no responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of any misstatements, omissions, misrepresentation or fraudulent acts of persons providing information. Unless specifically stated otherwise, the applicability and reliability of the findings, recommendations, suggestions or opinions expressed in the Report are only valid to the extent that there has been no material alteration to or variation from any of the information provided to exp. If new information about the environmental conditions at the Site is found, the information should be provided to EXP so that it can be reviewed and revisions to the conclusions and/or recommendations can be made, if warranted.

Standard of Care

The Report has been prepared in a manner consistent with the degree of care and skill exercised by engineering consultants currently practicing under similar circumstances and locale and in accordance with the MOE Reg. 511 standard. No other warranty, expressed or implied, is made. Unless specifically stated otherwise, the Report does not contain environmental consulting advice.

Complete Report

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment form part of the Report. This material includes, but is not limited to, the terms of reference given to EXP by Royal LePage Team Realty Brokerage, communications between EXP and DCR Phoenix Group of Companies, other reports, proposals or documents prepared by EXP for DCR Phoenix Group of Companies in connection with the site described in the Report. In order to properly understand the suggestions, recommendations and opinions expressed in the Report, reference must be made to the Report in its entirety. EXP is not responsible for use by any party of portions of the Report.

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The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of DCR Phoenix Group of Companies. No other party may use or rely upon the Report in whole or in part without the written consent of EXP. Any use of the Report, or any portion of the Report, by a third party are the sole responsibility of such third party. EXP is not responsible for damages suffered by any third party resulting from unauthorised use of the Report.

Report Format

Where EXP has submitted both electronic file and a hard copy of the Report, or any document forming part of the Report, only the signed and sealed hard copy shall be the original documents for record and working purposes. In the event of a dispute or discrepancy, the hard copy shall govern. Electronic files transmitted by EXP utilize specific software and hardware systems. EXP makes no representation about the compatibility of these files with DCR Phoenix Group of Companies current or future software and hardware systems. Regardless of format, the documents described herein are EXP's instruments of professional service and shall not be altered without the written consent of EXP.

We trust this report satisfies your immediate requirements. If you have any questions regarding the information in this report, please do not hesitate to contact this office.

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
Fallowfield and Cedarview Roads, Ottawa, Ontario
OTT-00243143-A0
March 29, 2018*

Appendices



EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
Fallowfield and Cedarview Roads, Ottawa, Ontario
OTT-00243143-A0
March 29, 2018*

Appendix A: Qualifications of Assessors



Qualifications of Assessors

EXP provides a full range of environmental services through a full-time Environmental Services Group. EXP's Earth and Environment Group has developed a strong working relationship with clients in both the private and public sectors and has developed a positive relationship with Ontario Ministry of the Environment. Personnel in the numerous branch offices form part of a large network of full-time dedicated environmental professionals in the EXP organization.

Matthew Laneville, B.A., has 10 years of experience in the environmental consulting field. Technical undertakings have included: project coordination; Phase I Environmental Site Assessments; ground water monitoring, environmental sampling and data evaluation; and technical report preparation.

Daniel Clarke, P. Eng., has 8 years of experience in the environmental consulting field. Technical undertakings have included: project coordination; Phase I, II and III Environmental Site Assessments; contaminated site investigations including drilling supervision, environmental sampling and data evaluation; and technical report preparation.

Mark McCalla, P.Geo., is a senior Environmental Scientist with EXP who has 27 years of experience in the environmental consulting field. His technical undertakings have including work in the following fields: Phase I and II Environmental Site Assessments; Site Specific Risk Assessments; Petroleum and chlorinated hydrocarbon contaminated sites; Soil and groundwater remediation technologies; Hydrogeological, Terrain Analysis and Aggregate Assessments; Preparation of Ontario Ministry of Environment Certificate of Approvals and Records of Site Condition. Mr. McCalla is a Qualified Person for completing Phase I and II Environmental Site Assessments as per O.Reg 153/04

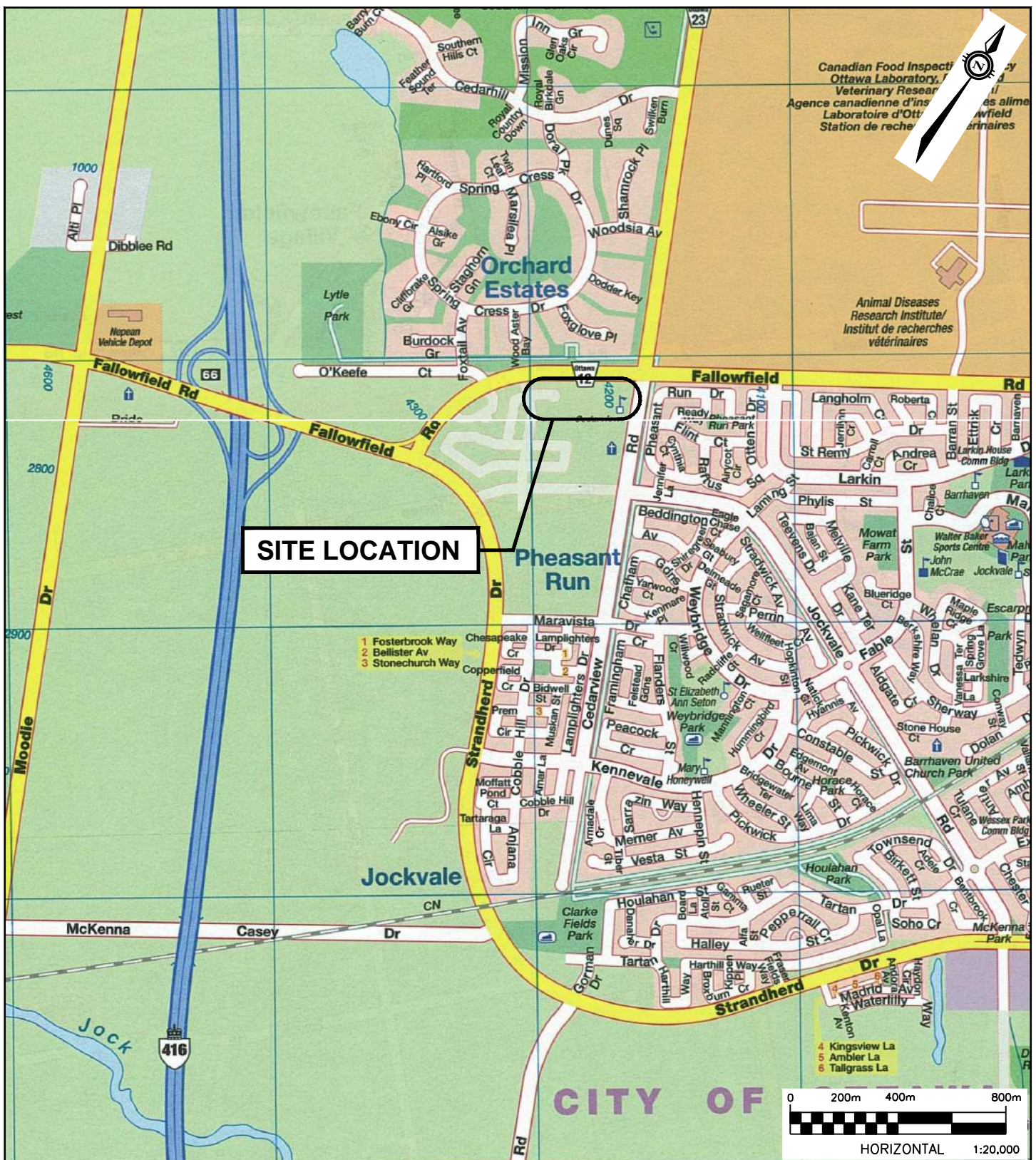
EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
Fallowfield and Cedarview Roads, Ottawa, Ontario
OTT-00243143-A0
March 29, 2018*

Appendix B: Figures



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scale 1:20 000	CLIENT: DCR PHOENIX GROUP OF COMPANIES PROPOSED RESIDENTIAL DEVELOPMENT	project no. OTT-00243143-A0
date APRIL 2018	TITLE: SITE LOCATION PLAN	FIG 1
drawn by J.R.	4190, 4200, 4210, 4236 FALLOWFIELD ROAD & 2740 CEDARVIEW ROAD, NEPEAN, ON	

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APRIL 2018

drawn by
J.R.

CLIENT:

DCR PHOENIX GROUP OF COMPANIES
PROPOSED RESIDENTIAL DEVELOPMENT

4190, 4200, 4210, 4236 FALLOWFIELD ROAD & 2740 CEDARVIEW ROAD, NEPEAN, ON

TITLE:

PIESA STUDY AREA

project no.

OTT-00243143-A0

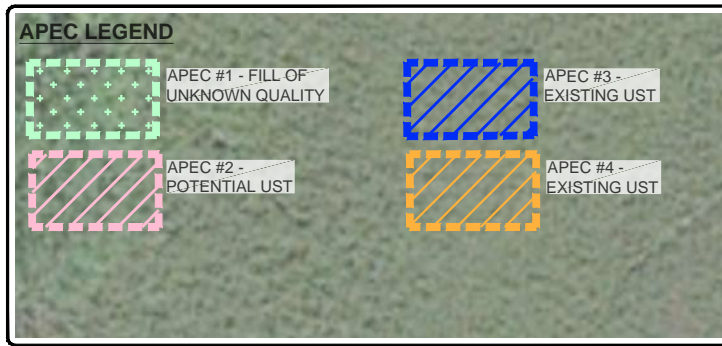
FIG 2

Filename: r:\240000\243000\243143-a0 4190-4236 fallowfield, 2740 cedarview\243143-a0-en-xs.dwg
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Last Plotted: 4/10/2018 11:26:02 AM Plotted by: RevellJ Pen Table: trw standard, July 01, 2004.ctb



NOTES :

1. MAP DATA ©2018 GOOGLE, IMAGE DATA LANDSAT/ COPERNICUS, IMAGE DATA ©2018 DIGITALGLOBE
2. SITE BUILDING LAYOUT COURTESY OF NOVATECH



			exp Services Inc. t: +1.613.688.1899 f: +1.613.225.7337 2650 Queensview Drive, Suite 100 Ottawa, ON K2B 8H6 Canada www.exp.com	
			• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •	
scale 1:800	CLIENT: DCR PHOENIX GROUP OF COMPANIES PROPOSED RESIDENTIAL DEVELOPMENT 4190, 4200, 4210, 4236 FALLOWFIELD ROAD & 2740 CEDARVIEW ROAD, NEPEAN, ON	project no. OTT-00243143-A0		
date APRIL 2018	TITLE: PCA & APEC PLAN		FIG 3	
drawn by J.R.				

Distances shown on this plan are ground distances and can be converted to grid distances by multiplying by the combined scale factor of 0.9999xx.

Bearings are grid, derived from Can-Net 2016 Real Time Network GPS observations on reference points A and B, shown hereon, having a bearing of N59°31'10"E and are referenced to Specified Control Points 01919791338 and 01919871649, MTM Zone 9 (76°30' West Longitude) NAD-83 (original).

For bearing comparisons, a rotation of 0°00'00" counter-clockwise was applied to bearings on plan

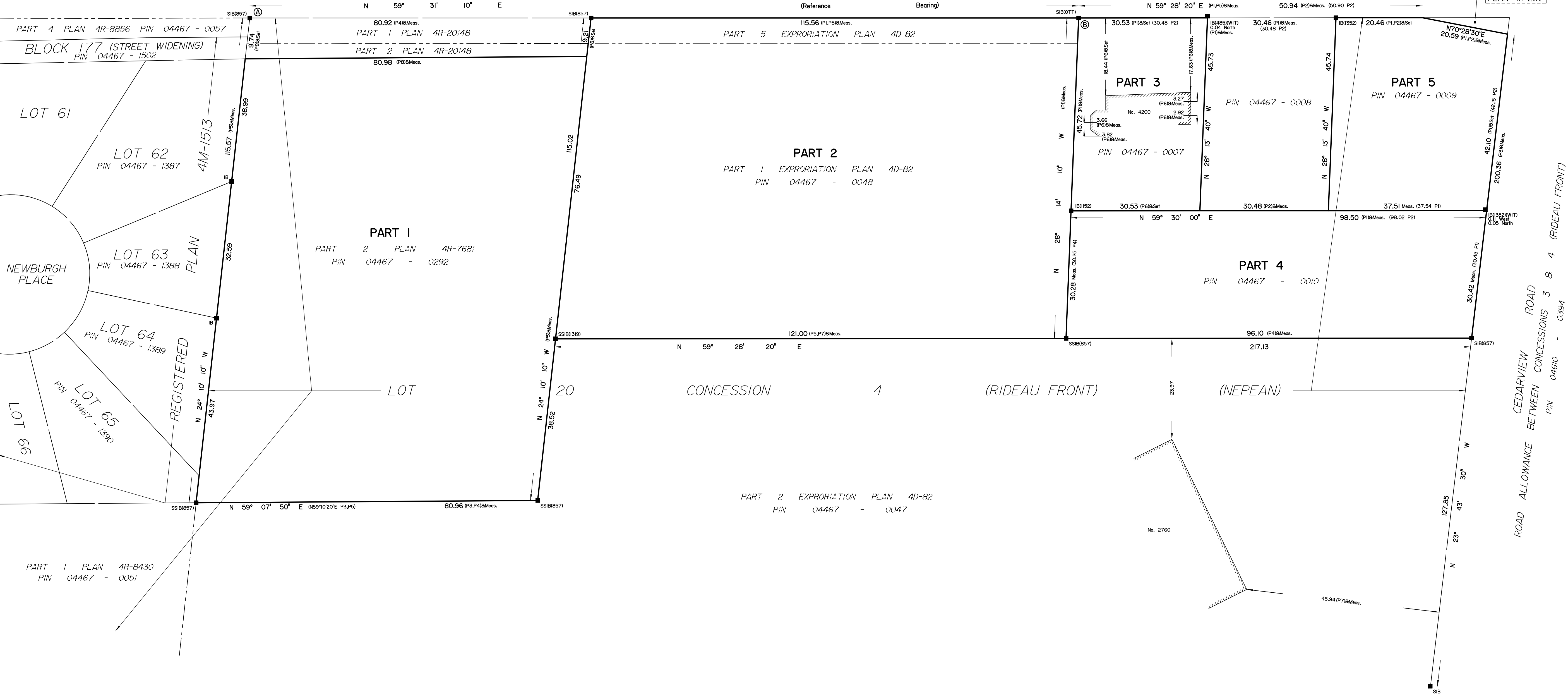
For comparison purposes, bearings shown on Plans P1 ... are astronomic bearings.

Coordinates are derived from Can-Net 2016 Real Time Network GPS observations referenced to Specified Control Points 01919791338 and 01919871649, MTM Zone 9 (76°30' West Longitude) NAD-83 (original).

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

. 01919791338	Northing	5006055.96	Easting	346140.91
. 01919871649	Northing	5007189.87	Easting	372435.05
. Point A	Northing	5015492.71	Easting	361034.56
. Point B	Northing	5015592.37	Easting	361203.87

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



I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.
DATE: _____

V. ANDREW SHELP
ONTARIO LAND SURVEYOR

PLAN 4R-
RECEIVED AND DEPOSITED
DATE: _____

REPRESENTATIVE FOR
LAND REGISTRAR FOR THE
LAND TITLES DIVISION OF
OTTAWA-CARLETON NO. 4.

SCHEDULE			
AREA (Sq.m.)	PART	LOT	CONCESSION
9269.51	1	PART OF 20	4 (RIDEAU FRONT NEPEAN)
8986.88	2		
1395.05	3		
2941.72	4		
1756.57	5		

Parts x,x,x: Subject to easement, Inst.

PLAN OF SURVEY OF

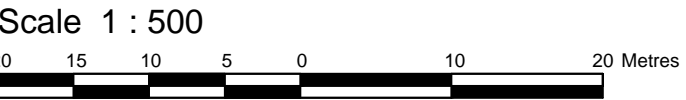
PART OF LOT 20

CONCESSION 4 (RIDEAU FRONT)

Geographic Township of Nepean

CITY OF OTTAWA

Surveyed by Annis, O'Sullivan, Vollebekk Ltd.



Metric

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

Surveyor's Certificate

I CERTIFY THAT :

1. This survey and plan are correct and in accordance with the Surveys Act, the Surveyors Act and the Land Titles Act and the regulations made under them.

2. The survey was completed on the 8th day of March, 2018.

Date V. Andrew Shelp
Ontario Land Surveyor

- Notes & Legend
- | | | |
|-------|---------|-----------------------------------|
| —□— | Denotes | Survey Monument Planted |
| —■— | " | Survey Monument Found |
| SIB | " | Standard Iron Bar |
| SSIB | " | Short Standard Iron Bar |
| IB | " | Iron Bar |
| (WIT) | " | Witness |
| (AOG) | " | Annis, O'Sullivan, Vollebekk Ltd. |
| Meas. | " | Measured |
| (P1) | " | Plan 4R-13732 |
| (P2) | " | Plan 4R-280 |
| (P3) | " | Plan 4R-8430 |
| (P4) | " | Plan 4R-7681 |
| (P5) | " | Plan 4D-82 |
| (P6) | " | (1236) Plan June 25, 1991 |
| (D1) | " | Plan 4R-13732 |

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
Fallowfield and Cedarview Roads, Ottawa, Ontario
OTT-00243143-A0
March 29, 2018*

Appendix C: Title Search, Municipal & Provincial Records





READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

EXP Services Inc.
Attn: Kathy Radisch

BRIEF DESCRIPTION OF LAND:

2740 Cedarview and 4190, 4200, 4210, 4236 Fallowfield Rd., Ottawa
Part of 20, Concession 4 RF. Nepean

PIN: 04467-0010 (2740 Cedarview)
04467-0292 (4236 Fallowfield)
04467-0048 (4210 Fallowfield)
04467-0007 (4200 Fallowfield)
04467-0009 (4190 Fallowfield)

LAST REGISTERED OWNER: 2183157 ONTARIO INC. (PIN 0010)

HARDELI HOLDINGS LIMITED (PIN 0292)

B.A.C.L.J.C. MINISTRIES CORPORATION (PIN 0048)

EKETE, EVA and IDOGAWA, KATSUMI (PIN 0007)

NASR SALIB, JANE CRISPO, RAMI NASSAR and
MARIE-ANNE SIORIS (PIN 0009)

CHAIN OF TITLE:

Deed RO6383 registered April 30, 1853
From William Thompson to Thomas Neil

Quit Claim Deed NP30239 registered December 1916
From John Neill, Mary Neil, Margaret Neil to Robert H. Neill
(re: Thomas Neil estate)

Deed NP49472 registered August 1943
From Robert H. Neill to William O. Neill

Deed CR476011 registered April 24, 1964
From William O. Neill to William R. Neill

PIN 0010

Deed CR544134 registered June 27, 1968
From William R. Neill to Ronald and Lorna Poulton

Deed CR637943 registered August 30, 1973
From Ronald and Lorna Poulton to Mary and William Marielle

Deed CR689416 registered May 19, 1976
From William Marielle to Mary C. Marielle

Deed CR711578 registered June 30, 1977
From Mary C. Marielle to James Victor Heyes

Deed OC613131 registered July 10, 2006
From James Victor Heyes to James Victor Heyes and Heather Ruth Heyes

Deed OC899432 registered September 5, 2008
From James Victor Heyes and Heather Ruth Heyes to 2183157 Ontario Inc.

PIN 0007

Deed CR429834 registered August 24, 1961
From William O. Neill to Donald Raymond Featherston and Mary Helen Featherston

DeedOC1020456 registered September 24, 2009
From Donald Raymond Featherston and Mary Helen Featherston to Eva Fekete and
Katsumi Idogawa

PIN 0292

Deed N282868 registered April 15, 1985
From estate of William Russell Neill to Edith Georgina Neill

Deed N331133 registered April 3, 1986
From Edith Georgina Neill to Russell Neil Park Ltd.

Deed OC262110 registered October 23, 2003
From Russell Neil Park Ltd. to 1578057 Ontario Inc.

Deed OC558684 registered January 30, 2006
From 1578057 Ontario Inc. to Hardeli Holdings Limited

PIN 0009

Deed CR594415 registered July 14, 1971
From estate of William O. Neill to Anna M. Neill

Deed CR693562 registered July 30, 1976
From Anna M. Neill to Gerard C. Raymond and Anita Raymond

Deed NS26636 registered August 30, 1978
From Gerard C. Raymond and Anita Raymond to Margarete Murray

Deed N445269 registered June 30, 1988
From Margarete Murray to Eugenlo Montemurro and Pina Montemurro

Deed N518316 registered December 29, 1989
From Eugenlo Montemurro and Pina Montemurro to Brental Development Corporation

Deed LT1119523 registered May 5, 1998
From Brental Development Corporation to Ghanimat Fahandazh-Saadi and Janet Fahandazh

Deed OC830001 registered March 5, 2008
From Ghanimat Fahandazh-Saadi and Janet Fahandazh to Janet Fahandazh

Deed OC1152082 registered August 25, 2010
From Janet Fahandazh to Nasr Salib, Jane Crispo, Rami Nassar and Mari-Anne Sioris

PIN 0048

Deed N282868 registered April 15, 1985
From estate of William Russell Neill to Edith Georgina Neill

Deed N331133 registered April 3, 1986
From Edith Georgina Neill to Russell Neil Park Ltd.

Expropriation plan 4D82 registered February 4, 1992
By The Carleton board of Education

Deed LT792299 registered September 11, 1992
From The Carleton Board of Education to Her Majesty the Queen in right of Canada as represented by Revenue Canada

Deed LT794148 registered September 23, 1992
From Her Majesty the Queen in right of Canada as represented by Revenue Canada
To GIB-West Inc.

Foreclosure LT937631 registered June 16, 1995
From GIB-West Inc. to Hardeli Holdings Limited

Deed LT1373642 registered April 4, 2001

From Hardeli Holdings Limited to Bibleway Apostolic Church of the Lord Jesus

Deed OC1245303 registered June 14, 2011

From Bibleway Apostolic Church of the Lord Jesus to B.A.C.L.J.C. Ministries Corporation



October 16, 2017

Via email:
hlui@ottawa.ca

Planning Division
City of Ottawa
110 Laurier Avenue West
Ottawa, Ontario

Re: OTT-00243143-A0 **Municipal Information Search Request**
 4210 Fallowfield Road, Ottawa, Ontario

To whom it may concern,

Our firm has been retained to conduct a Phase I Environmental Site Assessment for 4210 Fallowfield Road, Ottawa, Ontario. We require information pertaining to the property.

We request that the City of Ottawa search their files and provide any information pertaining to the environmental condition of these properties and surrounding areas, including any past environmental reports, orders, certificates or approvals.

Please find attached the consent letter from the property owner to release this information for the property in question. A request for information form has been completed to initiate a search on the property.

If you should have any questions, please do not hesitate to contact me.

Yours truly,

A handwritten signature in blue ink that reads "Kathy Radisch". The signature is fluid and cursive, with the first name "Kathy" and last name "Radisch" clearly distinguishable.

exp Services Inc.
Kathy Radisch
Administrative Assistant
Earth & Environment

Attachments: Disclaimer
 RFI Form
 Consent from Owner



October 25, 2017

VIA FACSIMILE:
416-314-4285

FOI Manager
Freedom of Information & Protection of Privacy Office
Ontario Ministry of the Environment
12th Floor, 40 St. Clair Avenue West
Toronto, Ontario M4V 1M2

Re: OTT-00243143-A0 **File Review Request**
Fallowfield & Cedarview, Ottawa, Ontario

Dear Sir or Madam:

I am sending a Freedom of Information Request to you for 4190, 4200, and 4210 Fallowfield Road, and 2740 Cedarview Road, Ottawa, Ontario. We are conducting an environmental site assessment and require any environmental concerns.

If possible, we would appreciate receiving the documentation by email (kathy.radisch@exp.com) and by mail. If you have any questions, or require any further information, please do not hesitate to contact the undersigned at 613-688-1891, ext. 3296.

Yours truly,
exp Services Inc.

A handwritten signature in blue ink that reads "Kathy Radisch". The signature is written in a cursive, flowing style.

Kathy Radisch
Administrative Assistant
Earth & Environment

Enclosures: FOI Form
Credit Card Payment Form

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
Fallowfield and Cedarview Roads, Ottawa, Ontario
OTT-00243143-A0
March 29, 2018*

Appendix D: EcoLog Reports





DATABASE REPORT

Project Property: *Phase I ESA
4200 Fallowfield Rd
Ottawa ON K2J4S2
OTT-00243143-A0*

Project No: *OTT-00243143-A0*

Report Type: *Standard Report*

Order No: *20171012031*

Requested by: *exp Services Inc.*

Date Completed: *October 18, 2017*

**Environmental Risk
Information Services**
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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Executive Summary

Property Information:

Project Property: *Phase I ESA
4200 Fallowfield Rd Ottawa ON K2J4S2*

Project No: *OTT-00243143-A0*

Coordinates:

Latitude: *45.277912*
Longitude: *-75.780779*
UTM Northing: *5,014,120.08*
UTM Easting: *438,760.91*
UTM Zone: *UTM Zone 18T*

Elevation: *341 FT
103.88 M*

Order Information:

Order No: *20171012031*
Date Requested: *October 12, 2017*
Requested by: *exp Services Inc.*
Report Type: *Standard Report*

Historical/Products:

City Directory Search *Subject Site plus 5 Adjacent Properties*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	6	6
CA	<i>Certificates of Approval</i>	Y	0	2	2
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	0	0
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EXP	<i>List of TSSA Expired Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	10	10
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBW	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGW	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>TSSA Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>TSSA Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	7	7
		Total:	0	25	25

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>
--------------------	-----------	--------------------------	----------------	---------------------	--------------------------	------------------------

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	WWIS		lot 20 con 4 ON	N/2.0	0.00	14
2	WWIS		lot 20 con 4 ON	NE/51.0	-0.02	16
3	BORE		ON	ENE/51.2	0.00	18
4	WWIS		lot 21 con 4 ON	NNE/65.1	-0.08	18
5	WWIS		lot 20 con 4 ON	NE/65.1	-0.02	21
6	BORE		ON	E/79.8	0.00	23
6	WWIS		lot 20 con 4 ON	E/79.8	0.00	23
7	WWIS		lot 21 con 4 ON	NNE/95.9	1.00	26
8	CA	R.M. OF OTTAWA-CARLETON- LOT 21, CONC. IV	FALLOWFIELD RD./CEDARVIEW RD. NEPEAN CITY ON	NE/108.8	1.00	28
8	CA	R.M. OF OTTAWA-CARLETON - FOXTAIL RD.	FALLOWFIELD RD./CEDARVIEW RD. NEPEAN CITY ON	NE/108.8	1.00	28
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	28
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	29
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	29
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	30
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	31
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON	SSE/109.0	-1.00	31
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	32
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	32
9	GEN	Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	33
9	GEN	Ottawa-Carleton District School Board Health & Safety	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE/109.0	-1.00	33
10	BORE		ON	ENE/114.6	1.00	34
11	BORE		ON	NE/117.5	1.00	34
12	BORE		ON	NE/118.1	1.00	35

<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>
13	BORE		ON	WSW/196.4	-1.00	35
13	WWIS		lot 20 con 4 ON	WSW/196.4	-1.00	36

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 6 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	ENE	51.24	<u>3</u>
	ON	E	79.81	<u>6</u>
	ON	ENE	114.59	<u>10</u>
	ON	NE	117.54	<u>11</u>
	ON	NE	118.10	<u>12</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	WSW	196.43	<u>13</u>

CA - Certificates of Approval

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

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
R.M. OF OTTAWA-CARLETON- LOT 21, CONC. IV	FALLOWFIELD RD./CEDARVIEW RD. NEPEAN CITY ON	NE	108.79	<u>8</u>
R.M. OF OTTAWA-CARLETON - FOXTAIL RD.	FALLOWFIELD RD./CEDARVIEW RD. NEPEAN CITY ON	NE	108.79	<u>8</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jun 2017 has found that there are 10 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Ottawa-Carleton District School Board Health & Safety	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>

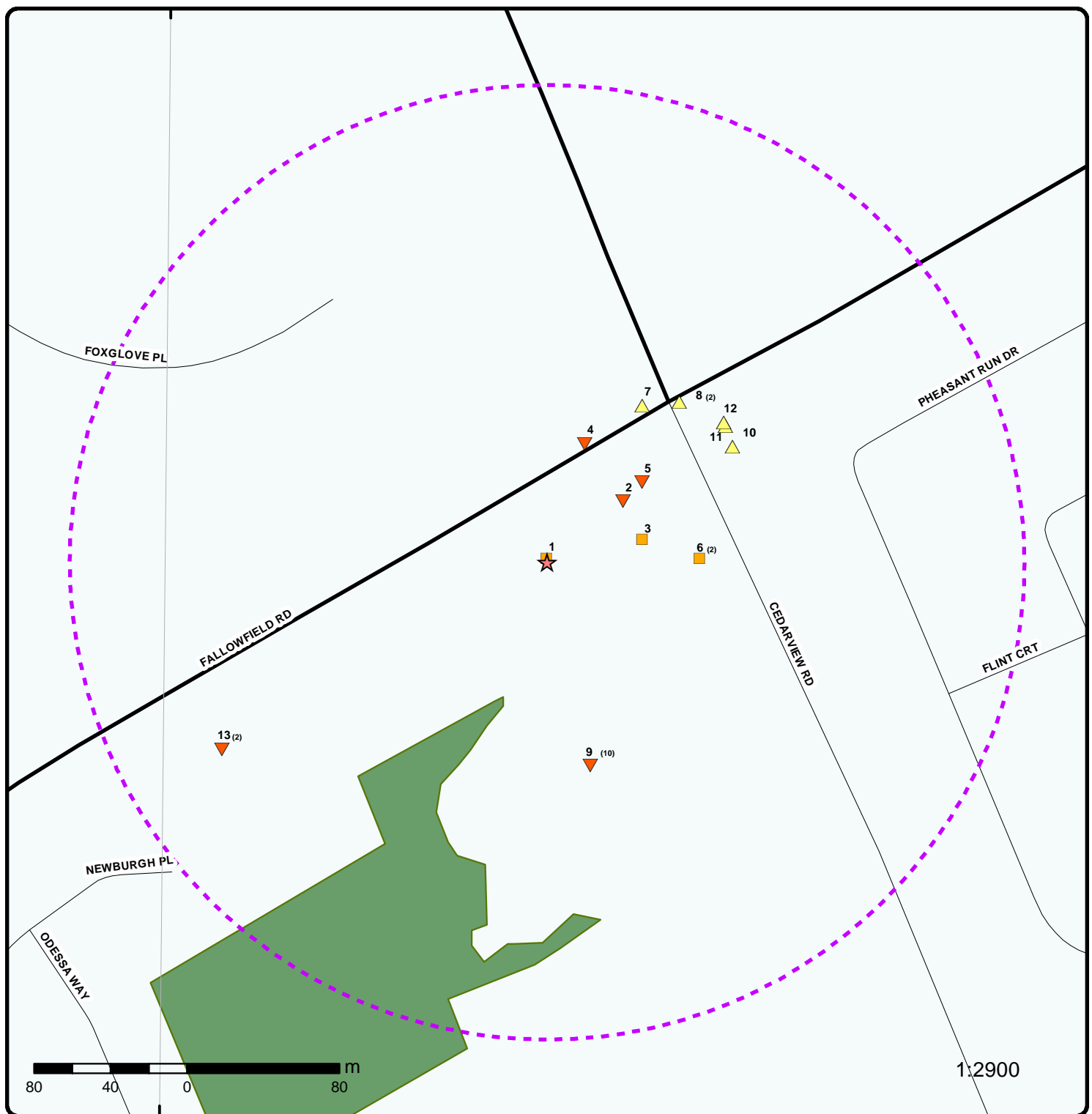
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON	SSE	109.00	<u>9</u>
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>
Ottawa-Carleton District School Board	2760 Cedarview Rd. Nepean ON K2J 4J2	SSE	109.00	<u>9</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Mar 31, 2017 has found that there are 7 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 20 con 4 ON	N	1.96	<u>1</u>
	lot 20 con 4 ON	E	79.81	<u>6</u>
	lot 21 con 4 ON	NNE	95.86	<u>7</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 20 con 4 ON	NE	50.97	<u>2</u>
	lot 21 con 4 ON	NNE	65.06	<u>4</u>
	lot 20 con 4 ON	NE	65.10	<u>5</u>
	lot 20 con 4 ON	WSW	196.43	<u>13</u>



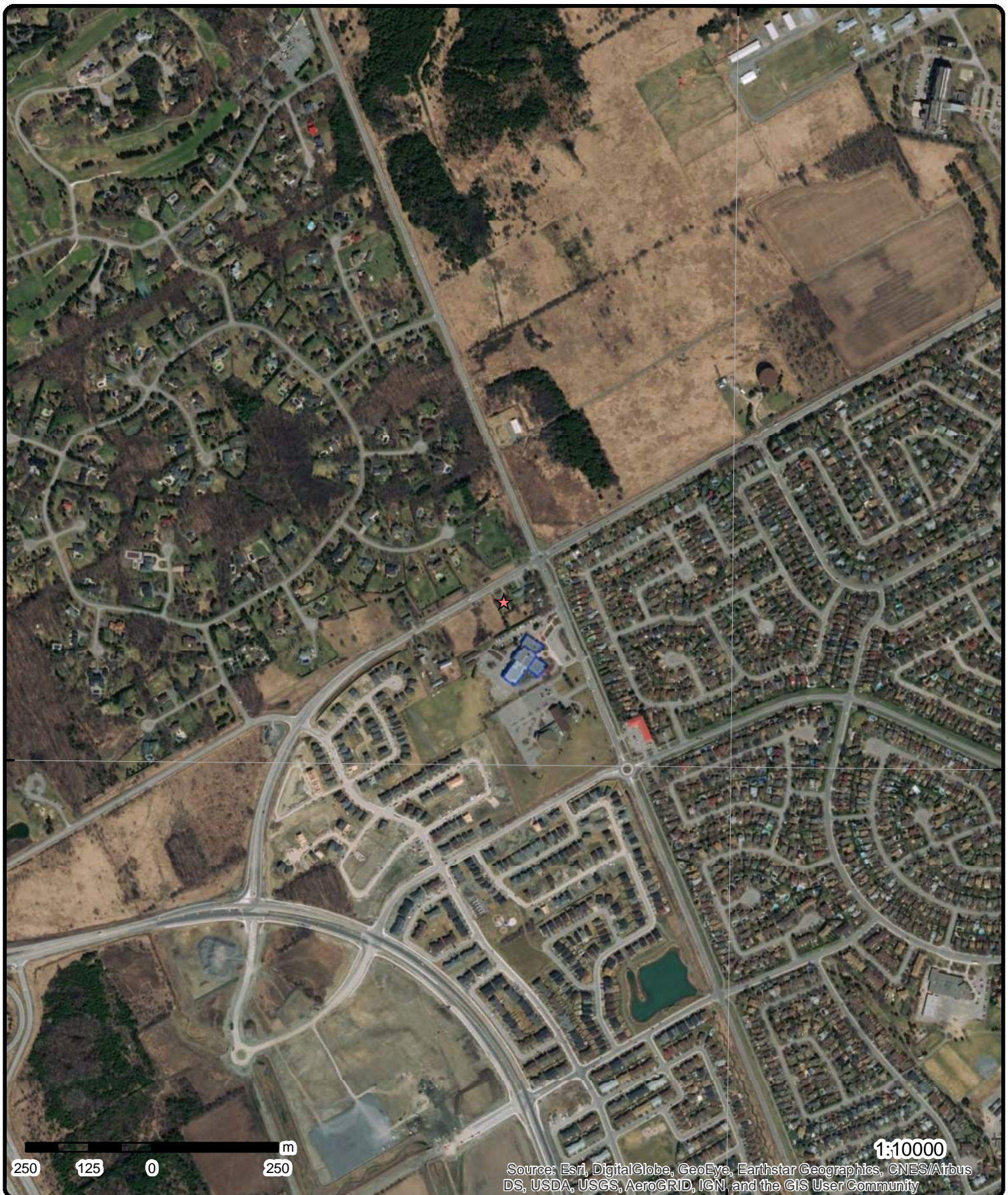
Map : 0.25 Kilometer Radius

Order No: 20171012031

Address: 4200 Fallowfield Rd, Ottawa, ON, K2J4S2



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		



Aerial

Address: 4200 Fallowfield Rd, Ottawa, ON, K2J4S2

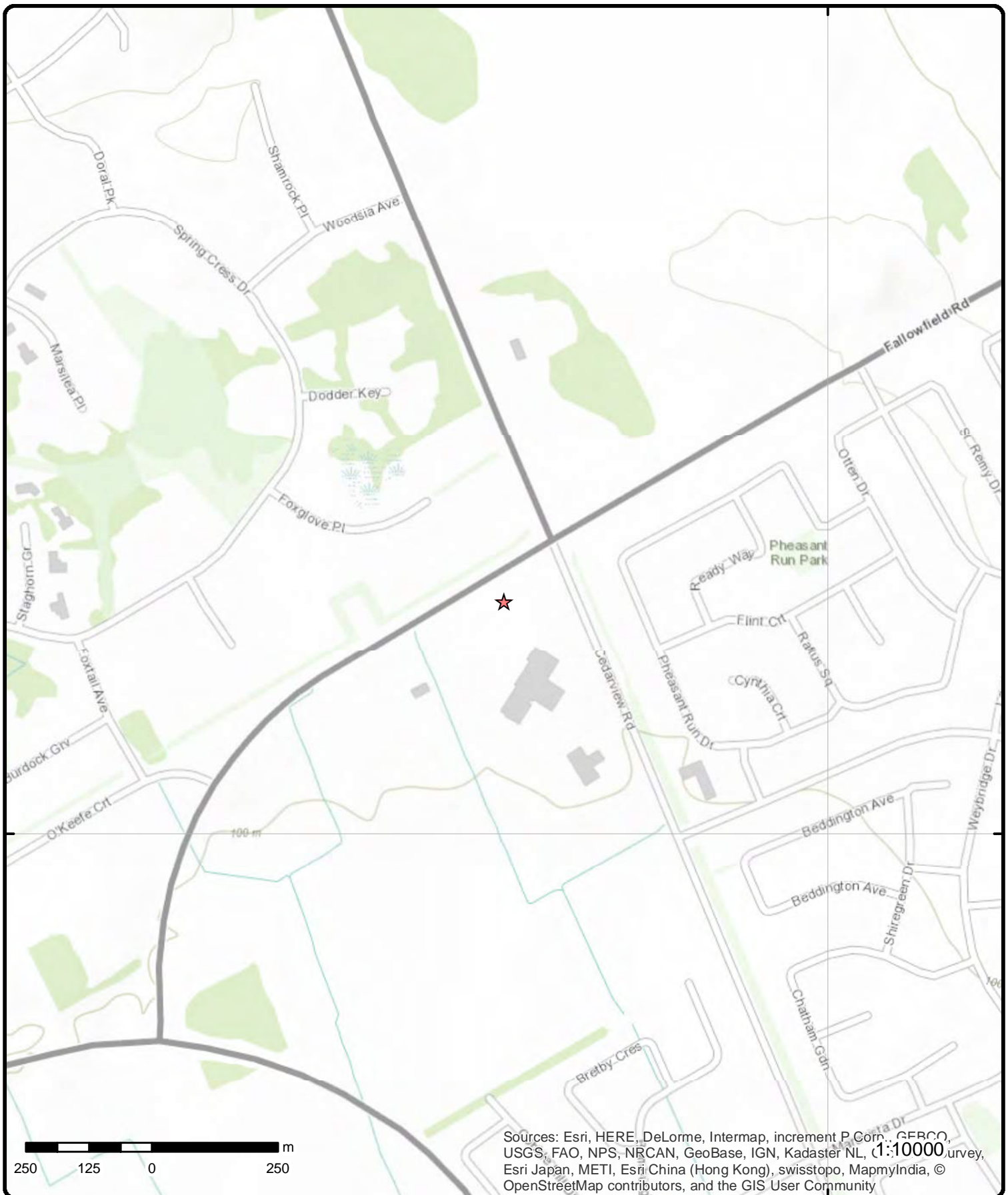
Source: ESRI World Imagery

Order No: 20171012031

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



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Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Topographic Map

Address: 4200 Fallowfield Rd, Ottawa, ON, K2J4S2

Source: ESRI World Topographic Map

Order No: 20171012031



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<u>1</u>	1 of 1	N/2.0	103.9	lot 20 con 4 ON	WWIS
<div> <div> Well ID: 1506092 Construction Date: Primary Water Use: Domestic Sec. Water Use: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: </div> <div> Data Entry Status: Data Src: 1 Date Received: 6/27/1960 Selected Flag: 1 Abandonment Rec: Contractor: 3601 Form Version: 1 Owner: Street Name: County: OTTAWA-CARLETON Municipality: NEPEAN TOWNSHIP Site Info: Lot: 020 Concession: 04 Concession Name: RF Easting NAD83: Northing NAD83: Zone: UTM Reliability: </div> </div>					
<u>Bore Hole Information</u>					
<div> <div> Bore Hole ID: 10028135 DP2BR: 24 Code OB: r Code OB Desc: Bedrock Open Hole: Elevation: 104.213615 Elevrc: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: </div> <div> Spatial Status: Cluster Kind: UTMRC: 5 UTMRC Desc: margin of error : 100 m - 300 m Location Method: p5 Org CS: Date Completed: 4/8/1960 </div> </div>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
<div> <div> Formation ID: 931003775 Layer: 1 Color: General Color: Mat1: 05 Most Common Material: CLAY Mat2: 12 Other Materials: STONES Mat3: Other Materials: </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation Top Depth:		0.00			
Formation End Depth:		24.00			
Formation End Depth UOM:		ft			
Formation ID:		931003776			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		24.00			
Formation End Depth:		84.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961506092			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10576705			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930049016			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		24.00			
Casing Diameter:		4.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930049017			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		84.00			
Casing Diameter:		4.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991506092			
Pump Set At:					
Static Level:		18.00			
Final Level After Pumping:		24.00			
Recommended Pump Depth:		24.00			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Pumping Rate:		3.00			
Flowing Rate:					
Recommended Pump Rate:		3.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			
 <u>Water Details</u>					
Water ID:		933460170			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		84.00			
Water Found Depth UOM:		ft			
<hr/>					
2	1 of 1	NE/51.0	103.9	lot 20 con 4 ON	WWIS
Well ID:	1506094			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	10/4/1962
Sec. Water Use:	0			Selected Flag:	1
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	020
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
 <u>Bore Hole Information</u>					
Bore Hole ID:	10028137			Spatial Status:	
DP2BR:	12			Cluster Kind:	
Code OB:	r			UTMRC:	5
Code OB Desc:	Bedrock			UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	p5
Elevation:	104.444839			Org CS:	
Elevrc:				Date Completed:	8/9/1962
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931003779			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		02			
Other Materials:		TOPSOIL			
Mat3:					
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		12.00			
Formation End Depth UOM:		ft			
Formation ID:		931003780			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		12.00			
Formation End Depth:		80.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961506094			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10576707			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930049020			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930049021			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Depth To:		80.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991506094			
Pump Set At:					
Static Level:		15.00			
Final Level After Pumping:		70.00			
Recommended Pump Depth:		70.00			
Pumping Rate:		5.00			
Flowing Rate:					
Recommended Pump Rate:		5.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		N			
<u>Water Details</u>					
Water ID:		933460174			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		80.00			
Water Found Depth UOM:		ft			
<u>3</u>	1 of 1	ENE/51.2	103.9	ON	BORE
Borehole ID:	610546			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	438811			Northing::	5014132
Location Accuracy::				Orig. Ground Elev m::	102
Elev. Reliability Note::				DEM Ground Elev m::	104
Total Depth m::	-999			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::				Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
<u>--Details--</u>					
Stratum ID:	218385855			Top Depth(m):	0.0
Bottom Depth(m):	2.4			Stratum Desc:	CLAY.
Stratum ID:	218385856			Top Depth(m):	2.4
Bottom Depth(m):				Stratum Desc:	BEDROCK,LIMESTONE. LIMESTONE,SAND. 00064ISMIC VELOCITY = 4750. BEDROCK. SEISMIC VELOCITY =
<u>4</u>	1 of 1	NNE/65.1	103.8	lot 21 con 4 ON	WWIS
Well ID:	1506098			Data Entry Status:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	5/20/1958
Sec. Water Use:	0			Selected Flag:	1
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3601
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	021
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	10028141	Spatial Status:	
DP2BR:	24	Cluster Kind:	
Code OB:	r	UTMRC:	5
Code OB Desc:	Bedrock	UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:		Location Method:	p5
Elevation:	104.879974	Org CS:	
Elevrc:		Date Completed:	5/7/1958
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931003787
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Other Materials:	BOULDERS
Mat3:	
Other Materials:	
Formation Top Depth:	0.00
Formation End Depth:	24.00
Formation End Depth UOM:	ft
Formation ID:	931003788
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation Top Depth:		24.00			
Formation End Depth:		80.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961506098			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10576711			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930049028			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		26.00			
Casing Diameter:		4.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930049029			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		80.00			
Casing Diameter:		4.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991506098			
Pump Set At:					
Static Level:		18.00			
Final Level After Pumping:		24.00			
Recommended Pump Depth:					
Pumping Rate:		5.00			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Water Details</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Water ID:		933460180			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		80.00			
Water Found Depth UOM:		ft			
5	1 of 1	NE/65.1	103.9	lot 20 con 4 ON	WWIS
Well ID:	1506090			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	9/21/1960
Sec. Water Use:	0			Selected Flag:	1
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	4216
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	020
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10028133			Spatial Status:	
DP2BR:	8			Cluster Kind:	
Code OB:	r			UTMRC:	5
Code OB Desc:	Bedrock			UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	p5
Elevation:	104.380073			Org CS:	
Elevrc:				Date Completed:	8/12/1960
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:	931003771				
Layer:	1				
Color:					
General Color:					
Mat1:	05				
Most Common Material:	CLAY				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	0.00				
Formation End Depth:	8.00				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Formation End Depth UOM:		ft			
Formation ID:		931003772			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		8.00			
Formation End Depth:		85.00			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		961506090			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10576703			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930049012			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		12.00			
Casing Diameter:		5.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930049013			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		85.00			
Casing Diameter:		5.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		991506090			
Pump Set At:					
Static Level:		8.00			
Final Level After Pumping:		8.00			
Recommended Pump Depth:		28.00			
Pumping Rate:		30.00			
Flowing Rate:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Recommended Pump Rate: 30.00 Levels UOM: ft Rate UOM: GPM Water State After Test Code: 1 Water State After Test: CLEAR Pumping Test Method: 1 Pumping Duration HR: 1 Pumping Duration MIN: 0 Flowing: N					
<u>Water Details</u>					
Water ID: 933460167 Layer: 1 Kind Code: 1 Kind: FRESH Water Found Depth: 85.00 Water Found Depth UOM: ft					
6	1 of 2	E/79.8	103.9	ON	BORE
Borehole ID: 610545 Use: Drill Method:: Easting:: 438841 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 24.4 Township:: Lot:: Completion Date:: AUG-1968 Primary Water Use::					
Type: Borehole Status:: UTM Zone:: 18 Northing:: 5014122 Orig. Ground Elev m:: 101 DEM Ground Elev m:: 104 Primary Name:: Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218385852 Bottom Depth(m): 4.3 Stratum ID: 218385853 Bottom Depth(m): 18.3 Stratum ID: 218385854 Bottom Depth(m): 24.4					
Top Depth(m): 0.0 Stratum Desc: CLAY,BOULDERS. Top Depth(m): 4.3 Stratum Desc: LIMESTONE. Top Depth(m): 18.3 Stratum Desc: LIMESTONE,SAND. 00064ISMIC VELOCITY = 4750. BEDROCK. SEISMIC VELOCITY = 15000. SILT. GRE					
6	2 of 2	E/79.8	103.9	lot 20 con 4 ON	WWIS
Well ID: 1509683 Construction Date: Primary Water Use: Domestic Sec. Water Use: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock:					
Data Entry Status: Data Src: 1 Date Received: 9/12/1968 Selected Flag: 1 Abandonment Rec: Contractor: 3503 Form Version: 1 Owner: Street Name: County: OTTAWA-CARLETON Municipality: NEPEAN TOWNSHIP Site Info: Lot: 020					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10031715			Spatial Status:	
DP2BR:	14			Cluster Kind:	
Code OB:	r			UTMRC:	4
Code OB Desc:	Bedrock			UTMRC Desc:	margin of error : 30 m - 100 m
Open Hole:				Location Method:	p4
Elevation:	104.136756			Org CS:	
Elevrc:				Date Completed:	8/24/1968
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931012786				
Layer:	1				
Color:					
General Color:					
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	13				
Other Materials:	BOULDERS				
Mat3:					
Other Materials:					
Formation Top Depth:	0.00				
Formation End Depth:	14.00				
Formation End Depth UOM:	ft				
Formation ID:	931012787				
Layer:	2				
Color:					
General Color:					
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	14.00				
Formation End Depth:	60.00				
Formation End Depth UOM:	ft				
Formation ID:	931012788				
Layer:	3				
Color:					
General Color:					
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:	09				
Other Materials:	MEDIUM SAND				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Mat3:					
Other Materials:					
Formation Top Depth:		60.00			
Formation End Depth:		80.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961509683			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10580285			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930056068			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		25.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930056069			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		80.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991509683			
Pump Set At:					
Static Level:		8.00			
Final Level After Pumping:		20.00			
Recommended Pump Depth:		55.00			
Pumping Rate:		15.00			
Flowing Rate:					
Recommended Pump Rate:		5.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		N			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<u>Water Details</u>					
Water ID:		933464574			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		64.00			
Water Found Depth UOM:		ft			
<u>7</u>	1 of 1	NNE/95.9	104.9	lot 21 con 4 ON	WWIS
Well ID:	1506097			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Livestock			Date Received:	8/14/1957
Sec. Water Use:	Domestic			Selected Flag:	1
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3601
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	021
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10028140			Spatial Status:	
DP2BR:	3			Cluster Kind:	
Code OB:	r			UTMRC:	5
Code OB Desc:	Bedrock			UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	p5
Elevation:	104.402976			Org CS:	
Elevrc:				Date Completed:	8/8/1957
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:	931003785				
Layer:	1				
Color:					
General Color:					
Mat1:	05				
Most Common Material:	CLAY				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation Top Depth:		0.00			
Formation End Depth:		3.00			
Formation End Depth UOM:		ft			
Formation ID:		931003786			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		3.00			
Formation End Depth:		84.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961506097			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10576710			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930049026			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10.00			
Casing Diameter:		4.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930049027			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		84.00			
Casing Diameter:		4.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991506097			
Pump Set At:					
Static Level:		14.00			
Final Level After Pumping:		20.00			
Recommended Pump Depth:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Pumping Rate: 7.00 Flowing Rate: Recommended Pump Rate: Levels UOM: ft Rate UOM: GPM Water State After Test Code: 1 Water State After Test: CLEAR Pumping Test Method: 1 Pumping Duration HR: 1 Pumping Duration MIN: 0 Flowing: N					
<u>Water Details</u>					
Water ID: 933460179 Layer: 1 Kind Code: 1 Kind: FRESH Water Found Depth: 84.00 Water Found Depth UOM: ft					
<u>8</u>	1 of 2	NE/108.8	104.9	R.M. OF OTTAWA-CARLETON-LOT 21, CONC. IV FALLOWFIELD RD./CEDARVIEW RD. NEPEAN CITY ON	CA
Certificate #: 7-0770-90- Application Year: 90 Issue Date: 6/5/1990 Approval Type: Municipal water Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
<u>8</u>	2 of 2	NE/108.8	104.9	R.M. OF OTTAWA-CARLETON - FOXTAIL RD. FALLOWFIELD RD./CEDARVIEW RD. NEPEAN CITY ON	CA
Certificate #: 7-0371-91- Application Year: 91 Issue Date: 4/29/1991 Approval Type: Municipal water Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
<u>9</u>	1 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd. Nepean ON K2J 4J2	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON6802619 07,08 611110	 Elementary and Secondary Schools		PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:	
--Details--					
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
<u>9</u>	2 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd. Nepean ON K2J 4J2	GEN
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON6802619 2009 611110	 Elementary and Secondary Schools		PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:	
--Details--					
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
<u>9</u>	3 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd.	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Nepean ON K2J 4J2					
Generator No.:	ON6802619			PO Box No.:	
Status:				Country:	
Approval Years:	2010			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:	611110				
SIC Description:		Elementary and Secondary Schools			
--Details--					
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		121			
Waste Description:		ALKALINE WASTES - HEAVY METALS			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
<hr/>					
9	4 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd. Nepean ON K2J 4J2	GEN
Generator No.:	ON6802619			PO Box No.:	
Status:				Country:	
Approval Years:	2011			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:	611110				
SIC Description:		Elementary and Secondary Schools			
--Details--					
Waste Code:		121			
Waste Description:		ALKALINE WASTES - HEAVY METALS			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Code: Waste Description:		146 OTHER SPECIFIED INORGANICS			
9	5 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd. Nepean ON K2J 4J2	GEN
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:		ON6802619 2012 611110 Elementary and Secondary Schools		PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:	
--Details--					
Waste Code: Waste Description:		146 OTHER SPECIFIED INORGANICS			
Waste Code: Waste Description:		331 WASTE COMPRESSED GASES			
Waste Code: Waste Description:		252 WASTE OILS & LUBRICANTS			
Waste Code: Waste Description:		145 PAINT/PIGMENT/COATING RESIDUES			
Waste Code: Waste Description:		121 ALKALINE WASTES - HEAVY METALS			
Waste Code: Waste Description:		148 INORGANIC LABORATORY CHEMICALS			
Waste Code: Waste Description:		263 ORGANIC LABORATORY CHEMICALS			
9	6 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd. Nepean ON	GEN
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:		ON6802619 2013 611110 ELEMENTARY AND SECONDARY SCHOOLS		PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:	
--Details--					
Waste Code: Waste Description:		252 WASTE OILS & LUBRICANTS			
Waste Code: Waste Description:		146 OTHER SPECIFIED INORGANICS			
Waste Code: Waste Description:		148 INORGANIC LABORATORY CHEMICALS			
Waste Code:		145			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		121			
Waste Description:		ALKALINE WASTES - HEAVY METALS			
9	7 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd. Nepean ON K2J 4J2	GEN
Generator No.:		ON6802619		PO Box No.:	
Status:				Country:	
Approval Years:		2015		Choice of Contact:	
Contam. Facility:		No		Co Admin:	
MHSW Facility:		No		Phone No. Admin:	
SIC Code:		611110		Canada	
SIC Description:		ELEMENTARY AND SECONDARY SCHOOLS		CO_OFFICIAL	
Greg Benson				613-596-8211 Ext.8549	
--Details--					
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		121			
Waste Description:		ALKALINE WASTES - HEAVY METALS			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
9	8 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd. Nepean ON K2J 4J2	GEN
Generator No.:		ON6802619		PO Box No.:	
Status:				Country:	
Approval Years:		2016		Choice of Contact:	
Contam. Facility:		No		Co Admin:	
MHSW Facility:		No		Phone No. Admin:	
SIC Code:		611110		Canada	
SIC Description:		ELEMENTARY AND SECONDARY SCHOOLS		CO_OFFICIAL	
Greg Benson				613-596-8211 Ext.8549	
--Details--					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		121			
Waste Description:		ALKALINE WASTES - HEAVY METALS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
<hr/>					
9	9 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board 2760 Cedarview Rd. Nepean ON K2J 4J2	GEN
Generator No.:	ON6802619			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2014			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	Greg Benson
MHSW Facility:	No			Phone No. Admin:	613-596-8211 Ext.8549
SIC Code:	611110				
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS				
 <u>--Details--</u>					
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		121			
Waste Description:		ALKALINE WASTES - HEAVY METALS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
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9	10 of 10	SSE/109.0	102.9	Ottawa-Carleton District School Board Health & Safety 2760 Cedarview Rd. Nepean ON K2J 4J2	GEN
Generator No.:	ON6802619			PO Box No.:	
Status:	Registered			Country:	Canada
Approval Years:	As of Jun 2017			Choice of Contact:	
Contam. Facility:				Co Admin:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
MHSW Facility: SIC Code: SIC Description:				Phone No. Admin:	
--Details--					
Waste Code:		146 R			
Waste Description:		Other specified inorganic sludges, slurries or solids			
Waste Code:		145 I			
Waste Description:		Wastes from the use of pigments, coatings and paints			
Waste Code:		148 C			
Waste Description:		Misc. wastes and inorganic chemicals			
Waste Code:		145 L			
Waste Description:		Wastes from the use of pigments, coatings and paints			
Waste Code:		263 I			
Waste Description:		Misc. waste organic chemicals			
Waste Code:		146 T			
Waste Description:		Other specified inorganic sludges, slurries or solids			
Waste Code:		252 L			
Waste Description:		Waste crankcase oils and lubricants			
Waste Code:		121 C			
Waste Description:		Alkaline slutions - containing heavy metals			
Waste Code:		331 I			
Waste Description:		Waste compressed gases including cylinders			
10	1 of 1	ENE/114.6	104.9	ON	BORE
Borehole ID:	803294	Type:	Borehole		
Use:	Geotechnical/Geological Investigation	Status::			
Drill Method::	Not known	UTM Zone::	18		
Easting::	438858.11	Northing::	5014180.76		
Location Accuracy::		Orig. Ground Elev m::	99.7		
Elev. Reliability Note::		DEM Ground Elev m::	104		
Total Depth m::	2.3	Primary Name::	TP 2		
Township::		Concession::			
Lot::		Municipality:			
Completion Date::	02-JUN-1986	Static Water Level::	-999.9		
Primary Water Use::		Sec. Water Use::			
--Details--					
Stratum ID:	218575797	Top Depth(m):	0.0		
Bottom Depth(m):	0.8	Stratum Desc:	Brown Fill-Misc Silt - Sand With: Gr Trace: Org M		
Stratum ID:	218575798	Top Depth(m):	0.8		
Bottom Depth(m):	2.3	Stratum Desc:	Grey-Brown Till Silt - Sand With: Gr Occasional: Cob Occ Blds Refusal to digging on Sandstone BR (Elev. 97.48)		
11	1 of 1	NE/117.5	104.9	ON	BORE
Borehole ID:	803292	Type:	Borehole		

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Not known			UTM Zone::	18
Easting::	438854.34			Northing::	5014191.33
Location Accuracy::				Orig. Ground Elev m::	99.9
Elev. Reliability Note::				DEM Ground Elev m::	104
Total Depth m::	1.1			Primary Name::	TP 1A
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	02-JUN-1986			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218575793			Top Depth(m):	0.0
Bottom Depth(m):	0.8			Stratum Desc:	Brown Fill-Misc Sand With: Si
Stratum ID:	218575794			Top Depth(m):	0.8
Bottom Depth(m):	1.1			Stratum Desc:	Grey-Brown Till Silt - Sand With: Gr Trace: Cl
<hr/>					
<u>12</u>	1 of 1	NE/118.1	104.9	ON	BORE
Borehole ID:	803291			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Not known			UTM Zone::	18
Easting::	438853.57			Northing::	5014193.35
Location Accuracy::				Orig. Ground Elev m::	99.9
Elev. Reliability Note::				DEM Ground Elev m::	104
Total Depth m::	2			Primary Name::	TP 1
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	02-JUN-1986			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218575791			Top Depth(m):	0.0
Bottom Depth(m):	0.8			Stratum Desc:	Brown Fill-Misc Sand With: Si Trace: Org M Occasional: Cob
Stratum ID:	218575792			Top Depth(m):	0.8
Bottom Depth(m):	2.0			Stratum Desc:	Grey-Brown Till Silt - Sand With: Gr Trace: Cl Occasional: Cob Occ Blds
<hr/>					
<u>13</u>	1 of 2	WSW/196.4	102.9	ON	BORE
Borehole ID:	610542			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	438591			Northing::	5014022
Location Accuracy::				Orig. Ground Elev m::	102
Elev. Reliability Note::				DEM Ground Elev m::	102
Total Depth m::	24.7			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	FEB-1962			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218385846			Top Depth(m):	0.0
Bottom Depth(m):	4.3			Stratum Desc:	GRAVEL,SAND,BOULDERS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Stratum ID:	218385847			Top Depth(m):	4.3
Bottom Depth(m):	24.7			Stratum Desc:	LIMESTONE. BLUE. 00060ED. SEISMIC VELOCITY = 4750. BEDROCK. SEISMIC VELOCITY = 15000. SI
<hr/>					
13	2 of 2	WSW/196.4	102.9	lot 20 con 4 ON	WWIS
<hr/>					
Well ID:	1506093			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	6/1/1962
Sec. Water Use:	0			Selected Flag:	1
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1503
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	020
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<hr/>					
<u>Bore Hole Information</u>					
Bore Hole ID:	10028136			Spatial Status:	
DP2BR:	14			Cluster Kind:	
Code OB:	r			UTMRC:	5
Code OB Desc:	Bedrock			UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	p5
Elevation:	102.906173			Org CS:	
Elevrc:				Date Completed:	2/23/1962
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<hr/>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931003777				
Layer:	1				
Color:					
General Color:					
Mat1:	11				
Most Common Material:	GRAVEL				
Mat2:	09				
Other Materials:	MEDIUM SAND				
Mat3:	13				
Other Materials:	BOULDERS				
Formation Top Depth:	0.00				
Formation End Depth:	14.00				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Formation End Depth UOM:		ft			
Formation ID:		931003778			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		14.00			
Formation End Depth:		81.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961506093			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10576706			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930049018			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20.00			
Casing Diameter:		5.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930049019			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		81.00			
Casing Diameter:		5.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991506093			
Pump Set At:					
Static Level:		12.00			
Final Level After Pumping:		27.00			
Recommended Pump Depth:		60.00			
Pumping Rate:		10.00			
Flowing Rate:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Recommended Pump Rate:		10.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		N			
<u>Water Details</u>					
Water ID:		933460171			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		40.00			
Water Found Depth UOM:		ft			
Water ID:		933460172			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		60.00			
Water Found Depth UOM:		ft			
Water ID:		933460173			
Layer:		3			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		78.00			
Water Found Depth UOM:		ft			

Unplottable Summary

Total: **24** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AGR	The Warren Paving & Materials Group Limited, a sub. of Lafarge Canada Inc.	Lot 21, Con IV RF	NEPEAN ON	
CA	Ottawa-Carleton District School Board		Ottawa ON	
CA	NEPEAN CITY	CEDARVIEW RD/BARRHAVEN MID.SCH	NEPEAN CITY ON	
CA	MINTO CONSTRUCTION LTD. FOSTER DRAIN	W. OF CEDARVIEW RD.	NEPEAN CITY ON	
CA	PUBLIC WORKS CANADA	FALLOWFIELD RD.	NEPEAN CITY ON	
CA	PETRO-CANADA PRODUCTS	FALLOWFIELD RD., BLK.113 (SWM)	NEPEAN CITY ON	
CA	TDL GROUP LIMITED	BLK. 114 FALLOWFIELD RD., SWM	NEPEAN ON	
ECA	City of Ottawa	From Oriska Way, 200m E. To Fallowfield Rd.	Ottawa ON	K1P 1J1
EHS		Fallowfield Road	Ottawa (Former Township of Goulburn) ON	
EXP	SUPERIOR PROPANE INC	FALLOWFIELD RD	NEPEAN ON	
EXP	SUPERIOR PROPANE ATTN WARREN HAYES	FALLOWFIELD RD PRT LOT 20 4 RF	OTTAWA ON	
EXP	SUPERIOR PROPANE INC	FALLOWFIELD RD	OTTAWA ON	
PRT	I C G PROPANE INC	FALLOWFIELD RD PRT LOT 20 4 RF	OTTAWA ON	
PRT	SUPERIOR PROPANE	FALLOWFIELD RD	NEPEAN ON	
SPL	PUBLIC WORKS CANADA	AGRICULTURE CANADA FALLOWFIELD ROAD STORAGE TANK	NEPEAN CITY ON	
SPL	PRIVATE OWNER	GENERAL WELDING, FALLOWFIELD RD. STITTSVILLE STORAGE TANK/BARREL	OTTAWA CITY ON	
SPL	DEPARTMENT OF AGRICULTURE	ANIMAL DISEASE CONTROL CENTRE FALLOWFIELD ROAD	OTTAWA CITY ON	

WWIS	lot 20	ON
WWIS	lot 20 con 4	ON
WWIS	lot 20 con 4	ON
WWIS	lot 20 con 4	ON
WWIS	lot 21	ON
WWIS	lot 21	ON
WWIS		OTTAWA ON

Unplottable Report

Site: *The Warren Paving & Materials Group Limited, a sub. of Lafarge Canada Inc.*
Lot 21, Con IV RF NEPEAN ON

Database:
[AGR](#)

ID: 4051
Approval Type: Aggregate Licence
Effective Date:: 10/26/2006 2:03:14 PM
Current Status: Amended
Status Date: Up to March 2008
Operation Type: Quarry
Max Tonnage:
Unlimted Tonnage:
Geographic Township:
Client Name:
Authority Type:: CLASS A LICENCE > 20000 TONNES
Extraction Area::
Licenced Area:: 6.6
Lot:: 21
Concession:: IV RF
Section::
Municipality:: OTTAWA
County:: OTTAWA-CARLETON R
District:: Kemptville District

Site: *Ottawa-Carleton District School Board*
Ottawa ON

Database:
[CA](#)

Certificate #: 3668-7ZNLYJ
Application Year: 2010
Issue Date: 2/11/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: *NEPEAN CITY*
CEDARVIEW RD/BARRHAVEN MID.SCH NEPEAN CITY ON

Database:
[CA](#)

Certificate #: 3-0147-94-
Application Year: 94
Issue Date: 2/24/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: MINTO CONSTRUCTION LTD. FOSTER DRAIN
W. OF CEDARVIEW RD. NEPEAN CITY ON

Database:
CA

Certificate #: 3-0519-87-
Application Year: 87
Issue Date: 7/18/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: PUBLIC WORKS CANADA
FALLOWFIELD RD. NEPEAN CITY ON

Database:
CA

Certificate #: 8-4023-88-
Application Year: 88
Issue Date: 9/12/1988
Approval Type: Industrial air
Status: Cancelled
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: CHEMICAL STORAGE FAC.
Contaminants::
Emission Control::

Site: PETRO-CANADA PRODUCTS
FALLOWFIELD RD., BLK.113 (SWM) NEPEAN CITY ON

Database:
CA

Certificate #: 3-1223-94-
Application Year: 94
Issue Date: 10/5/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: TDL GROUP LIMITED
BLK. 114 FALLOWFIELD RD., SWM NEPEAN ON

Database:
CA

Certificate #: 3-0846-98-
Application Year: 98
Issue Date: 7/22/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::

Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: City of Ottawa
From Oriska Way, 200m E. To Fallowfield Rd. Ottawa ON K1P 1J1

Database:
[ECA](#)

Project Type: Municipal and Private Sewage Works
Approval No: 6725-4YQS8P
Date: 2001-08-21
Status: Approved
Longitude: -75.743200000000002
Latitude: 45.291600000000003
Record Type: ECA
PDF URL: <https://www.accessenvironment.ene.gov.on.ca/instruments/0046-4XFMQC-14.pdf>
Full Address:

Site: Fallowfield Road Ottawa (Former Township of Goulburn) ON

Database:
[EHS](#)

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20060922004
Addit. Info Ordered::
Report Date: 9/25/2006
Report Type: Complete Report
Search Radius (km): 0.25

Site: SUPERIOR PROPANE INC
FALLOWFIELD RD NEPEAN ON

Database:
[EXP](#)

Instance No: 9669823
Instance ID: 392708
Instance Type: FS Facility
Description: FS Propane Vehicle Conv Centre
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: SUPERIOR PROPANE ATTN WARREN HAYES
FALLOWFIELD RD PRT LOT 20 4 RF OTTAWA ON

Database:
[EXP](#)

Instance No: 9631753
Instance ID: 391550
Instance Type: FS Facility
Description: Fuels Safety Propane Filling Plant > 5000 USW
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: SUPERIOR PROPANE INC
FALLOWFIELD RD OTTAWA ON

Database:
[EXP](#)

Instance No: 9558985

Instance ID: 390259
Instance Type: FS Facility
Description: Fuels Safety Propane Filling Plant > 5000 USW
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: I C G PROPANE INC
 FALLOWFIELD RD PRT LOT 20 4 RF OTTAWA ON

Database:
 PRT

Location ID: 11051
Type: retail
Expiry Date: 1990-12-31
Capacity (L): 30000
Licence #: 0033255001

Site: SUPERIOR PROPANE
 FALLOWFIELD RD NEPEAN ON

Database:
 PRT

Location ID: 9601
Type: private
Expiry Date: 1992-01-31
Capacity (L): 0.00
Licence #: 0038379001

Site: PUBLIC WORKS CANADA
 AGRICULTURE CANADA FALLOWFIELD ROAD STORAGE TANK NEPEAN CITY ON

Database:
 SPL

Ref No:	79801	Site Address:	
Contaminant Name:		Site Conc:	
Contaminant Code:		Site Lot:	
Contaminant Limit 1:		Site County/District:	
Contam. Limit Freq 1:		Site Municipality:	20104
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Sector Type:	
MOE Reported Dt:	12/11/1992	Source Type:	
Health/Env Conseq:		Receiving Medium:	LAND
Incident Dt:	//	Receiving Env:	
Incident Cause:	UNDERGROUND TANK LEAK	Environment Impact:	CONFIRMED
Incident Event:		Nature of Impact:	Soil contamination
Incident Reason:	CORROSION	SAC Action Class:	
Incident Summary:	AGRICULTURE CANADA - SOIL CONTAMINATION DUE TO UNDERGROUND TANKS		

Site: PRIVATE OWNER
 GENERAL WELDING, FALLOWFIELD RD. STITTSVILLE STORAGE TANK/BARREL OTTAWA CITY ON

Database:
 SPL

Ref No:	213503	Site Address:	
Contaminant Name:		Site Conc:	
Contaminant Code:		Site Lot:	
Contaminant Limit 1:		Site County/District:	
Contam. Limit Freq 1:		Site Municipality:	20107
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Sector Type:	
MOE Reported Dt:	10/10/2001	Source Type:	
Health/Env Conseq:		Receiving Medium:	Land
Incident Dt:	10/10/2001	Receiving Env:	
Incident Cause:	OTHER CONTAINER LEAK	Environment Impact:	Possible
Incident Event:		Nature of Impact:	Soil contamination
Incident Reason:	OTHER	SAC Action Class:	
Incident Summary:	SPILL OF 2 -3 L FUEL OIL TO GROUND		

FROM TANK. CLEANED.

Site: DEPARTMENT OF AGRICULTURE
ANIMAL DISEASE CONTROL CENTRE FALLOWFIELD ROAD OTTAWA CITY ON

Database:
SPL

Ref No:	44068	Site Address:	
Contaminant Name:		Site Conc:	
Contaminant Code:		Site Lot:	
Contaminant Limit 1:		Site County/District:	
Contam. Limit Freq 1:		Site Municipality:	20101
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Sector Type:	
MOE Reported Dt:	11/29/1990	Source Type:	
Health/Env Conseq:		Receiving Medium:	LAND
Incident Dt:	11/26/1990	Receiving Env:	
Incident Cause:	UNDERGROUND TANK LEAK	Environment Impact:	POSSIBLE
Incident Event:		Nature of Impact:	Soil contamination
Incident Reason:	CORROSION	SAC Action Class:	
Incident Summary:	DEPARTMENT OF AGRICULTURE- UNDERGROUND FURNACE OIL TANK LEAKING.		

Site:
lot 20 ON

Database:
WWIS

Well ID:	1527942	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:		Date Received:	6/9/1994
Sec. Water Use:		Selected Flag:	1
Final Well Status:		Abandonment Rec:	
Water Type:		Contractor:	3142
Casing Material:		Form Version:	1
Audit No:	139317	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	020
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10049484	Spatial Status:	
DP2BR:	16	Cluster Kind:	
Code OB:	r	UTMRC:	9
Code OB Desc:	Bedrock	UTMRC Desc:	unknown UTM
Open Hole:		Location Method:	na
Elevation:		Org CS:	
Elevrc:		Date Completed:	6/3/1994
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 931068040
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3: 79
Other Materials: PACKED
Formation Top Depth: 0.00
Formation End Depth: 16.00
Formation End Depth UOM: ft

Formation ID: 931068041
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 16.00
Formation End Depth: 70.00
Formation End Depth UOM: ft

Formation ID: 931068042
Layer: 3
Color: 8
General Color: BLACK
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 70.00
Formation End Depth: 97.00
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112804
Layer: 1
Plug From: 0.00
Plug To: 21.00
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961527942
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 10598054
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086442
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930086443
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 97.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991527942
Pump Set At:
Static Level: 4.00
Final Level After Pumping: 60.00
Recommended Pump Depth: 80.00
Pumping Rate: 25.00
Flowing Rate:
Recommended Pump Rate: 10.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934111811
Test Type:
Test Duration: 15
Test Level: 60.00
Test Level UOM: ft

Pump Test Detail ID: 934386620
Test Type:
Test Duration: 30
Test Level: 60.00
Test Level UOM: ft

Pump Test Detail ID: 934655949
Test Type:
Test Duration: 45
Test Level: 60.00
Test Level UOM: ft

Pump Test Detail ID: 934904319
Test Type:
Test Duration: 60
Test Level: 60.00
Test Level UOM: ft

Water Details

Water ID: 933487482
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 84.00
Water Found Depth UOM: ft

Water ID: 933487483
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 93.00
Water Found Depth UOM: ft

Site:

lot 20 con 4 ON

Database:
WWIS

Well ID: 1534313
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Abandoned-Quality
Water Type:
Casing Material:
Audit No: 267002
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 11/13/2003
Selected Flag: 1
Abandonment Rec:
Contractor: 1558
Form Version: 2
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession: 04
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11097363
DP2BR:
Code OB: —
Code OB Desc: No formation data
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 9/18/2003

Method of Construction & Well Use

Method Construction ID: 961534313
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101078
Casing No: 1
Comment:
Alt Name:

Site:
lot 20 con 4 ON

Database:
WWIS

Well ID: 1536188
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z17661
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 1/17/2006
Selected Flag: 1
Abandonment Rec:
Contractor: 6907
Form Version: 3
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession: 04
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11550254
DP2BR:
Code OB: u
Code OB Desc: all layers are unknown type
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 12/22/2005

Overburden and Bedrock
Materials Interval

Formation ID: 933043020
Layer: 1
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 80.00
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961536188
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11559861
Casing No: 1
Comment:
Alt Name:

Results of Well Yield Testing

Pump Test ID: 11569337
Pump Set At: 75.00
Static Level: 12.00
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Site:
lot 20 con 4 ON

Database:
[WWIS](#)

Well ID: 1521188
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 07417
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 2/18/1987
Selected Flag: 1
Abandonment Rec:
Contractor: 3142
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession: 04
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043024
DP2BR: 23
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 1/17/1987

Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock
Materials Interval

Formation ID: 931047127
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Other Materials: PACKED
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 8.00
Formation End Depth UOM: ft

Formation ID: 931047128
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 8.00
Formation End Depth: 16.00
Formation End Depth UOM: ft

Formation ID: 931047129
Layer: 3
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 16.00
Formation End Depth: 23.00
Formation End Depth UOM: ft

Formation ID: 931047130
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 23.00
Formation End Depth: 78.00
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961521188

Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10591594
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075103
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 24.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930075104
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 78.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521188
Pump Set At:
Static Level: 4.00
Final Level After Pumping: 18.00
Recommended Pump Depth: 50.00
Pumping Rate: 40.00
Flowing Rate:
Recommended Pump Rate: 10.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934105888
Test Type:
Test Duration: 15
Test Level: 18.00
Test Level UOM: ft

Pump Test Detail ID: 934389007
Test Type:
Test Duration: 30
Test Level: 18.00
Test Level UOM: ft

Pump Test Detail ID: 934651135
Test Type:
Test Duration: 45
Test Level: 18.00
Test Level UOM: ft

Pump Test Detail ID: 934908364
Test Type:
Test Duration: 60
Test Level: 18.00
Test Level UOM: ft

Water Details

Water ID: 933478674
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.00
Water Found Depth UOM: ft

Water ID: 933478675
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 76.00
Water Found Depth UOM: ft

Site:
lot 21 ON

Database:
WWIS

Well ID: 1519741
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/3/1985
Selected Flag: 1
Abandonment Rec:
Contractor: 3142
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 021
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10041594
DP2BR: 81
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 5/16/1985

**Overburden and Bedrock
Materials Interval**

Formation ID: 931042567
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Other Materials: PACKED
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 16.00
Formation End Depth UOM: ft

Formation ID: 931042568
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 77
Other Materials: LOOSE
Mat3:
Other Materials:
Formation Top Depth: 16.00
Formation End Depth: 65.00
Formation End Depth UOM: ft

Formation ID: 931042569
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 13
Other Materials: BOULDERS
Formation Top Depth: 65.00
Formation End Depth: 81.00
Formation End Depth UOM: ft

Formation ID: 931042570
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 81.00
Formation End Depth: 84.00
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961519741
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10590164
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930072633
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 86.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930072634
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991519741
Pump Set At:
Static Level: 0.00
Final Level After Pumping: 0.00
Recommended Pump Depth: 30.00
Pumping Rate: 30.00
Flowing Rate:
Recommended Pump Rate: 8.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934108649
Test Type:
Test Duration: 15
Test Level: 0.00
Test Level UOM: ft

Pump Test Detail ID: 934654899
Test Type:
Test Duration: 45
Test Level: 0.00
Test Level UOM: ft

Pump Test Detail ID: 934894683
Test Type:
Test Duration: 60
Test Level: 0.00

Test Level UOM: ft

Water Details

Water ID: 933476800
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 84.00
Water Found Depth UOM: ft

Site:
lot 21 ON

Database:
[WWIS](#)

Well ID: 1519738
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/24/1985
Selected Flag: 1
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 021
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10041591
DP2BR: 112
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 6/3/1985

Overburden and Bedrock
Materials Interval

Formation ID: 931042558
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 88.00

Formation End Depth UOM: ft
Formation ID: 931042559
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 88.00
Formation End Depth: 112.00
Formation End Depth UOM: ft

Formation ID: 931042560
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 112.00
Formation End Depth: 165.00
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961519738
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10590161
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930072629
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 113.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930072630
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 165.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991519738
Pump Set At:
Static Level:
Final Level After Pumping: 30.00
Recommended Pump Depth: 30.00
Pumping Rate: 10.00
Flowing Rate:
Recommended Pump Rate: 6.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934108646
Test Type:
Test Duration: 15
Test Level: 30.00
Test Level UOM: ft

Pump Test Detail ID: 934384356
Test Type:
Test Duration: 30
Test Level: 30.00
Test Level UOM: ft

Pump Test Detail ID: 934654896
Test Type:
Test Duration: 45
Test Level: 30.00
Test Level UOM: ft

Pump Test Detail ID: 934894680
Test Type:
Test Duration: 60
Test Level: 30.00
Test Level UOM: ft

Water Details

Water ID: 933476796
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 140.00
Water Found Depth UOM: ft

Water ID: 933476797
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 160.00
Water Found Depth UOM: ft

Site:

OTTAWA ON

Database:
WWIS

Well ID: 1535676
Construction Date:
Primary Water Use:

Data Entry Status:
Data Src:
Date Received: 8/4/2005

Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: Z33652
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Selected Flag: 1
Abandonment Rec: Yes
Contractor: 6894
Form Version: 3
Owner:
Street Name: FALLOWFIELD RD
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11316215
DP2BR:
Code OB: —
Code OB Desc: No formation data
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC:
UTMRC Desc:
Location Method: na
Org CS:
Date Completed: 6/8/2005

Annular Space/Abandonment Sealing Record

Plug ID: 933273995
Layer: 1
Plug From: 14.00
Plug To: 1.90
Plug Depth UOM: m

Plug ID: 933273996
Layer: 2
Plug From: 1.90
Plug To: 0.00
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961535676
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 11331070
Casing No: 1
Comment:
Alt Name:

Hole Diameter

Hole ID: 11533760
Diameter: 20.00
Depth From: 0.00
Depth To: 18.00
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole ID: 11533761
Diameter: 6.00
Depth From: 0.00
Depth To: 7.00
Hole Depth UOM: m
Hole Diameter UOM: cm

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial

AGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

AGR

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

Government Publication Date: Up to Sep 2016

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-Nov 2016

Anderson's Waste Disposal Sites:

Private

ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies:

Private

AUWR

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

Government Publication Date: 1999-May 2017

Borehole:

Provincial

BORE

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial

CA

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

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks:

Provincial

CFOT

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

Government Publication Date: Feb 28, 2017

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: 1999-May 2017

Compressed Natural Gas Stations:

Private

CNG

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

Government Publication Date: Dec 31, 2012

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-Sep 2017

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-Sep 2017

Drill Hole Database:

Provincial

DRL

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

Government Publication Date: 1886-Aug 2015

Environmental Activity and Sector Registry:

Provincial

EASR

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

Government Publication Date: Oct 2011-Jul 2017

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-Sep 2017

Environmental Compliance Approval:

Provincial

ECA

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

Government Publication Date: Oct 2011-Jul 2017

Environmental Effects Monitoring:

Federal

EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

EHS

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

Government Publication Date: 1999-Aug 2016

Environmental Issues Inventory System:

Federal

EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

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

Government Publication Date: Dec 31, 2016

List of TSSA Expired Facilities:

Provincial

EXP

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal

FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

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

Government Publication Date: Jun 2000-Mar 2017

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

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

Government Publication Date: 1964-Apr 2015

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: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial

FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-Jun 2017

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

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

Government Publication Date: 2013-Dec 2015

TSSA Historic Incidents:

Provincial

HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents:

Provincial

INC

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

Government Publication Date: Feb 28, 2017

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: Dec 31, 2013

Canadian Mine Locations:

Private

MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

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

Government Publication Date: 1846-Feb 2017

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

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

Government Publication Date: Dec 31, 2014

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

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

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

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

Government Publication Date: 2008 -Jun 2017

National Energy Board Wells:

Federal

NEBW

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

Government Publication Date: 1974-2003***National PCB Inventory:**

Federal

NPCB

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

Government Publication Date: 1988-2008***National Pollutant Release Inventory:**

Federal

NPRI

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

Government Publication Date: 1993-2014**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-May 2017**Ontario Oil and Gas Wells:**

Provincial

OOGW

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

Government Publication Date: 1800-Oct 2016**Inventory of PCB Storage Sites:**

Provincial

OPCB

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

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

Provincial

ORD

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

Government Publication Date: 1994-Sep 2017**Canadian Pulp and Paper:**

Private

PAP

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

Government Publication Date: 1999, 2002, 2004, 2005, 2009**Parks Canada Fuel Storage Tanks:**

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

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

Government Publication Date: 1988-Aug 2017

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: Feb 28, 2017

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-Sep 2017

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: 1986-2016

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 2017

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-May 2017

Scott's Manufacturing Directory:

Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

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

Government Publication Date: 1988-Jun 2017

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: 1990-2014

Anderson's Storage Tanks:

Private

TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

TCFT

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

Government Publication Date: 1970-Jan 2015

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Government Publication Date: Feb 28, 2017

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: Jul 31, 2017

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: Mar 31, 2017

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

City Directory Information Source

Vernon's Ottawa and Area ON Criss Cross

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 2011	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	
Fallowfield Road 4190	-Res (1 tenant)
Fallowfield Road 4236	-Address Not Listed
Fallowfield Road 4239	-Res (1 tenant)
Cedarview Road 2740	-Address Not Listed
Cedarview Road 2760	-Ottawa Carleton District School Board

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 2005-2006	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	
Fallowfield Road 4190	-Res (1 tenant)
Fallowfield Road 4236	-Res (1 tenant)
Fallowfield Road 4239	-Res (1 tenant)
Cedarview Road 2740	-Res (1 tenant)
Cedarview Road 2760	-Ottawa Carleton District School Board

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1999-2000	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	

Fallowfield Road 4190	-Res (1 tenant)
Fallowfield Road 4236	-Res (1 tenant)
Fallowfield Road 4239	-Res (1 tenant)
Cedarview Road 2740	-Res (1 tenant)
Cedarview Road 2760	-Ottawa Carleton District School Board

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1995-1996	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	
Fallowfield Road 4190	-Address Not Listed
Fallowfield Road 4236	-Res (1 tenant)
Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Res (1 tenant)

Cedarview Road 2760	-Address Not Listed

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1992	
Site Listing:	-Res (1 tenant)
Adjacent Properties:	
Fallowfield Road 4190	-Res (4 tenants)
Fallowfield Road 4236	-Address Not Listed
Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Address Not Listed
Cedarview Road 2760	-Address Not Listed

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1990	

Site Listing:	-Address Not Listed
Adjacent Properties:	
Fallowfield Road 4190	-Address Not Listed
Fallowfield Road 4236	-Address Not Listed
Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Address Not Listed
Cedarview Road 2760	-Address Not Listed

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1984	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Fallowfield Road 4190	-Address Not Listed
Fallowfield Road 4236	-Address Not Listed

Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Address Not Listed
Cedarview Road 2760	-Address Not Listed

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1979	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Fallowfield Road 4190	-Address Not Listed
Fallowfield Road 4236	-Address Not Listed
Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Address Not Listed
Cedarview Road 2760	-Address Not Listed

PROJECT NUMBER: 20171012031	
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Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1975	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Fallowfield Road 4190	-Address Not Listed
Fallowfield Road 4236	-Address Not Listed
Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Address Not Listed
Cedarview Road 2760	-Address Not Listed

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1970	
Site Listing:	-Address Not Listed
Adjacent Properties:	

Fallowfield Road 4190	-Address Not Listed
Fallowfield Road 4236	-Address Not Listed
Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Address Not Listed
Cedarview Road 2760	-Address Not Listed

PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1965	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Fallowfield Road 4190	-Address Not Listed
Fallowfield Road 4236	-Address Not Listed
Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Address Not Listed

Cedarview Road 2760	-Address Not Listed
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PROJECT NUMBER: 20171012031	
Site Address:	4200 Fallowfield Road, Ottawa, Ontario
Year: 1960	
Site Listing:	-Address Not Listed
Adjacent Properties:	
Fallowfield Road 4190	-Address Not Listed
Fallowfield Road 4236	-Address Not Listed
Fallowfield Road 4239	-Address Not Listed
Cedarview Road 2740	-Address Not Listed
Cedarview Road 2760	-Address Not Listed

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

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

EXP Services Inc.

*DCR Phoenix Group of Companies
Phase One Environmental Site Assessment
Fallowfield and Cedarview Roads, Ottawa, Ontario
OTT-00243143-A0
March 29, 2018*

Appendix E: Site Photographs





Photograph No. 1

View of the residential dwelling at 4190 Fallowfield Road



Photograph No. 2

View of the residential dwelling at 4200 Fallowfield Road



Photograph No. 3

View of the residential dwelling at 2740 Cedarview Road



Photograph No. 4

View of the vacant field at 4210 Fallowfield Road



Photograph No. 5

View of the residential dwelling at 4236 Fallowfield Road



Photograph No. 6

View of the large barn at 4236 Fallowfield Road



Photograph No. 7

View of the shed at the west side of the property at 4236 Fallowfield Road



Photograph No. 8

View of the barn at 4236 Fallowfield Road



Photograph No. 9

View of the barn at the south part of the property at 4236 Fallowfield Road



Photograph No. 10

View of the potential fuel supply line at 4190 Fallowfield Road



Photograph No. 11

View of the potential fuel supply line cut off at 4190 Fallowfield Road



Photograph No. 12

View of AST-1 at 4200 Fallowfield Road



Photograph No. 13

View of AST-2 at 2740 Cedarview Road



Photograph No. 14

View of vehicle and equipment maintenance area at 4236 Fallowfield Road



Photograph No. 15

View of vehicle and equipment maintenance area floor at 4236 Fallowfield Road



Photograph No. 16

View of AST fill and vent pipes at the adjacent property at 4192 Fallowfield Road