



**Phase One Environmental  
Site Assessment  
2225 Mer-Bleue Road,  
Ottawa, Ontario**

**Client:**

Montfort Hospital  
c/o ZW Project Management Inc.  
150 Richmond Road  
Ottawa, Ontario  
K1Z 6W2

**Project Number:**

OTT-00239983-A0

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**Type of Document:**

Final

**Date Submitted:**

June 28, 2017

# Phase One Environmental Site Assessment


## 2225 Mer-Bleue Road, Ottawa, Ontario

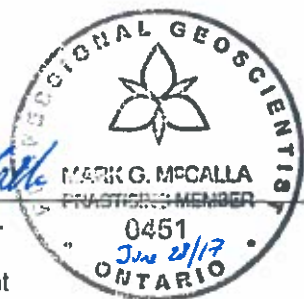
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Date Submitted:  
June 28, 2017

## Legal Notification

This report was prepared by **exp** Services Inc. for the account of the **Montfort Hospital**.

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 Z.W. Project Management Inc. on behalf of the Montfort Hospital to complete a Phase One Environmental Site Assessment (ESA) of the property referred to as 2225 Mer-Bleue 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 the Montfort Hospital plans to re-develop the land as a local health care facility. Consequently, this Phase One ESA will be used in support of the City of Ottawa Site Plan Approval permitting requirements and that 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 consists is currently vacant and has an area of 9.2 hectares. It is located at the northeast corner of Mer-Bleue Road and Brian Coburn Road. It is legally described as CUMBERLAND CON 11 PT LOT 2;RP 4R21662 Part 2 RP 4R24532;PARTS 1 and 2. The property identification numbers are 145630022, 145630025, and 145630017. The last PIN is for the triangular shaped parcel on the north edge of the site which formerly had a civic address of 2168 Tenth Line Road. A Phase I ESA was completed at the site in 2004 and Trow Associates Inc. (now **exp**) completed a Phase I and II ESA at the site in 2010. At the time of the investigation, the property was grass covered with some small scrub bush and trees towards the north part. The site was previously for rural residential purposes. Previously, there were three structures on the east portion of the site fronting on Mer-Bleue Road; a house, drive shed/carport and a barn. Several stockpiles exist in the vicinity of the former structures from the building demolition, however they have been removed.

The surrounding area of the Site was observed to be developed with residential houses, and low rise apartment buildings. No environmentally sensitive activities or infrastructures that could present any environmental concerns to the Site were observed on the adjacent properties based on observations made from the boundaries of the Site.

Topographically, the Site is relatively flat with a shallow drainage ditch that runs along the north part of the property from east to west. The surrounding area has a slight downwards slope towards the southwest. The closest body of water is McKinnon's Creek, located approximately 360 m south of the Site. Regional groundwater flow direction is inferred to be in the northeastern direction towards the Ottawa River.

Based on the results of the Phase One ESA completed at 2225 Mer-Bleue Road in Ottawa, **exp** has identified the following areas of potential environmental concern:

**Table EXEC- 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	West part	#30 – Importation of Fill Material of Unknown Quality	On-site	Petroleum hydrocarbons (PHC), benzene, toluene, ethylbenzene, xylenes (BTEX), polycyclic aromatic hydrocarbons (PAH) and metals	Soil and groundwater
APEC 2	West part	#28: Gasoline and Associated Products Storage in Fixed Tanks	On-site	PHCs, BTEX	Soil and groundwater
APEC 3	Entire Site	#40- Pesticides large scale applications	On-site	Organochlorine pesticides	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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**exp** Services Inc.

*Montfort Hospital  
Phase One Environmental Site Assessment  
2225 Mer-Bleue Road, Ottawa, Ontario  
OTT-00239983-A0  
June 28, 2017*



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# 1. Introduction

**Exp** Services Inc. (**exp**) was retained by Z.W. Project Management Inc. on behalf of the Montfort Hospital to complete a Phase One Environmental Site Assessment (ESA) of the property referred to as 2225 Mer-Bleue 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 the Montfort Hospital.

Owner Contact: Mr. David Henselwood of Z.W. Project Management Inc.  
150 Richmond Road  
Ottawa, Ontario K1Z 6W2

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 the Montfort Hospital plans to re-develop the land as a local health care facility. Consequently, this Phase One ESA will be used in support of the City of Ottawa Site Plan Approval permitting requirements and that a Record of Site Condition (RSC) is not required.

## 1.2 Phase I Property Information

The Site consists is currently vacant and has an area of 9.2 hectares. It is located at the northeast corner of Mer-Bleue Road and Brian Coburn Road. It is legally described as CUMBERLAND CON 11 PT LOT 2;RP 4R21662 Part 2 RP 4R24532;PARTS 1 and 2. The property identification numbers are 145630022, 145630025, and 145630017. The last PIN is for the triangular shaped parcel on the north edge of the site which formerly had a civic address of 2168 Tenth Line Road.

At the time of the investigation, the property was grass covered with some small scrub bush and trees towards the north part. The site was previously for rural residential purposes. Previously, there were three structures on the east portion of the site fronting on Mer-Bleue Road; a house, drive shed/carport and a barn. Several stockpiles exist in the vicinity of the former structures from the building demolition, however they have been removed (Figure 2 in Appendix A). The property is currently not serviced by the City of Ottawa, however the neighbouring residential properties to the east are municipally serviced. The residential properties that border the site to the northwest rely on private water wells for potable water.

Topographically, the Site is relatively flat with a shallow drainage ditch that runs along the north part of the property from east to west. The surrounding area has a slight downwards slope towards the southwest. The closest body of water is McKinnon's Creek, located approximately 360 m south of the Site. Regional groundwater flow direction is inferred to be in the northeastern direction towards the Ottawa River.

The approximate Universal Transverse Mercator (UTM) coordinates for the Site centroid is NAD83, Zone 18, 461122.6 m E, 5032825.6 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 Mark Devlin, B.Sc., and Mark McCalla, P. Geo. An outline of their qualifications is provided in Appendix A.

## 3. Records Review

### 3.1 Phase I 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 residential properties including stacked town homes to the southeast, townhomes to the east and two residences in the northwest corner. 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, chain of title for the property, historical maps, and other records review, it appears that the Site was developed as residential and agricultural in the early 1940s. The residence and barn were removed from the site in 2007/08 and the site has been vacant since that time.

### 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 requested from Read Abstracts Inc. for the subject site. Based on the information gathered from the title search, the following was found:

The last registered owner is Sante Montfort since March 2011. From approximately 2006 to 2011, the various parcels were owned by various property developers (Tamarack Homes, Minto Communities, Black Pass Developments, etc.). From 1971 to 1999, one of the parcels was owned by Talos Construction but the remainder of the parcel owners are private individuals back to 1882. No notable environmental concerns were identified based on the title search.

Refer to Appendix C for the title search.

### 3.5 Previous Reports

A Phase I ESA and a preliminary geotechnical investigation report were prepared for the site by Paterson Group in 2004. The Phase I ESA identified some building materials that should be further assessed prior disturbance or demolition and recommended that the well and septic field be decommissioned prior to site re-development. No areas of potential environmental concerns were identified.

The geotechnical investigation reported that the site was underlain by silty clay and that the overburden groundwater was found at approximately 5 to 6 metres below grade.

A Phase I ESA and a Phase II ESA were completed at the Site by Trow Associates Inc. (now exp) in 2010. At the time of the Phase I ESA, the residence, barn and shed had been removed and the site was vacant. The three structures had been removed and demolished from the site between 2007 and 2008. The house foundation, however, was not reportedly removed and it was possible that construction debris may have been in the material that was used to backfill the basement to grade. This indicates that PCA1 – Construction debris may be present in backfill material of former residence foundation walls (PCA#30 –

Importation of Fill Material of Unknown Quality) is applicable. In addition, PCA2 – Former on-site heating oil AST in basement of former residence, (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks) is applicable.

The areas of potential environmental concern (APEC) identified at the site included possible debris in the former building footprint, a former storage tank (AST) used to store heating oil which was located in the basement of the former residence, potential borrow pits, potential buried debris, and potential pesticides used in the agricultural fields on the site (PCA #40- Pesticides large scale applications). The potential contaminants of concern associated with the above noted APECs were benzene, toluene, ethylbenzene, xylenes (BTEX), petroleum hydrocarbons (PHC), metals and polycyclic aromatic hydrocarbons (PAH).

It was also recommended that the former water well be located and abandoned by a licensed well contractor and the former septic system be decommissioned prior to site re-development.

The Phase II ESA consisted of drilling two boreholes (BH10 and BH11) in the west part of the site and completing them as monitoring wells. The borehole and geotechnical test pit locations are shown on Figure 2. Four “worst case” soil samples submitted for laboratory analysis of PHC (F1 to F4) BTEX, metals and PAH. One shallow soil sample collected in the fields (TP30) was submitted for laboratory analysis of organochlorine pesticides. One groundwater sample from each new monitoring well and two existing monitoring wells (BH1 and BH4) were collected and submitted for laboratory analysis of PHC (F1 to F4) and BTEX, metals and PAH. The soils at the site consisted of a layer of topsoil followed by silty clay to a depth of at least 8.5 m. The four test pits excavated at the former house and barn showed evidence of building rubble and the former septic system. The water table was observed at a depth of 0.8 m in those test pits and no visual or olfactory indications of petroleum hydrocarbon impact were observed on the water. The depth to groundwater in the monitoring wells was less than 1 m and the groundwater flow direction was calculated to be to the west. The measured concentrations of, BTEX, PHC (F1 to F4), metals and PAH were less than the applicable MOECC Table 2 site condition standards (SCS) for soil and groundwater. The pesticides concentrations in the soil sample was also less than the MOECC Table 2 SCS.

A geotechnical report was also prepared by Trow Associates Inc. (now **exp**) in 2010. The investigation revealed that beneath 100 mm to 300 mm of surficial topsoil, the site was underlain by silty clay to clay deposit which extended to the maximum depth investigated of 14.3 m.

### 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 June 1, 2017, 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 June 1, 2017, 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 June 1, 2017, 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 request is provided in Appendix C.

#### 3.6.3.2 City Directory Search

The City of Ottawa Municipal Directories were reviewed at the National Library of Canada. The roads in the area of the site were not listed.

### 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)

The Intera report study area does not encompass the subject site or any surrounding properties.

### 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 natural gas spill was reported in 2015 on the property located at 519 Chaperal Private (30 m southeast of the Site). Due to the gaseous nature of the spill, this is not considered an APEC.
- Several water wells were identified in the study area. No PCAs were identified in the database search.

## 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
1945	The on-site residence is present adjacent to Mer-Bleue Road and a residence to the west, across Mer-Bleue Road. The remainder of the site and areas to the north, east and south are tilled fields.
1971	There are no changes to the Site or adjacent properties.
1976	A barn is now are present south of the residence and a smaller structure is present approximately 100 m east of the barn.
1991	There are no apparent changes to the Site. Two residences are present along Mer Bleue Road north of the site. Another residence is present to the southwest and the west.
1999	There are no apparent changes to the Site or neighbouring properties.
2005	There are no apparent changes to the Site or neighbouring properties.
2007	There are no apparent changes to the Site or neighbouring properties. There are new hydro towers that pass approximately 75 m north of the northwest corner of the site.
2008	The house barn and shed have been removed from the site. There are six fill piles across the site. There is residential development approximately 400 m east of the Site.
2014	There are no apparent changes to the Site, with the exception of the fill piles are no longer present. Residential development on the neighbouring site to the southeast and east.

Based on the review of the aerial photography, PCA3 – Former possible application of pesticides on the agricultural land. (PCA#40 – Pesticides Manufacturing, Processing, Bulk Storage and Large Scale Application) was associated with the site being used for agricultural purposes.

### 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.

The above maps revealed that the bedrock in the general area is a combination of limestone and shale (Paleozoic) of the Ottawa Formation at a depth of approximately 14.5 m. With respect to surficial geology, beneath any fill, the site is underlain by silty clay overlying glacial till. The previous geotechnical investigation identified that beneath the surficial topsoil, the site was underlain by silty clay to clay deposit which extended to the maximum depth investigated of 14.3 m.



The local topography of the Site has a slight downwards slope towards the west. Regional groundwater flow direction is inferred to be in the northeastern direction towards the Ottawa River.

### 3.8.3 Fill Materials

The geotechnical report did not indicate a significant amount of fill materials on the site. The Phase II ESA completed in 2010 indicated the presence of fill piles from the demolition of the structures.

### 3.8.4 Water Bodies and Areas of Natural Significance (ANSI)

There were no water bodies on the subject site. There was a shallow ditch that ran along the north property line. The subject site is not located in close proximity to an ANSI, according to the Ministry of Natural Resources Natural Heritage website.

The closest water body is McKinnon Creek located 360 m south of the site.

### 3.8.5 Well Records

Local MOECC water wells records show that bedrock depth in the area is approximately 14.6 m from surface. 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:

- PCA1 – Construction debris may be present in backfill material of former residence foundation walls (PCA#30 – Importation of Fill Material of Unknown Quality).
- PCA2 – Former on-site heating oil AST in basement of former residence, (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks).
- PCA3 - Potential pesticides that were formerly used in the agricultural fields on the site (PCA #40- Pesticides large scale applications).

The areas of potential environmental concern (APEC) 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. David Henselwood, agent for the current owner of the property, was interviewed by email. He indicated that the Montfort Hospital has owned the property since 2011 and that it has been vacant and unused since that time. To his knowledge no spills have occurred on the site during that time.

## 5. Site Reconnaissance

### 5.1 General Requirements

On June 7, 2017, Mr. Mark McCalla, P. Geo. 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.

Observations of the subject property and surrounding properties were conducted. The exterior observations were recorded by walking over the grounds. Adjoining properties were observed from within the grounds of the Site.

Mr. McCalla was un-accompanied during the site visit. Photographs were taken at the Site on May 25, 2017 and are included in Appendix E.

### 5.2 Specific Observations at Phase One ESA Property

#### 5.2.1 Site Description and Buildings

The Site consists is currently vacant and has an area of 9.2 hectares. At the time of the investigation, the property was grass covered with some small scrub bush and trees towards the north part. There were large areas of standing water on the property, especially in the northeast part.

The properties to the east and south are municipally serviced by the City of Ottawa but the residences to the west and north are privately serviced by water wells.

#### 5.2.2 Heating and Cooling Systems

The site was vacant. No heating or cooling systems were observed.

#### 5.2.3 Site Utilities and Services

There are no utilities or services on the Site.

#### 5.2.4 Site Use

At the time of the investigation, the site was vacant and not being used.

#### 5.2.5 Drains, Pits and Sumps

No sumps, or pits were observed at the Site.

#### 5.2.6 Storage Tanks

##### 5.2.6.1 Underground Storage Tanks

**Exp** did not observe any underground storage tanks (UST) during the site reconnaissance. No visual evidence such as fill / vent pipes, levelometers or oil fill lines associated with USTs were observed at the site.

#### **5.2.6.2 Aboveground Storage Tanks**

Exp did not observe any ASTs during the site reconnaissance. No visual evidence such as fill / vent pipes, levelometers or oil fill lines were observed at the Site.

#### **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 stained soil, pavement or vegetation were observed during the site visit.

#### **5.2.9 Fill, Debris and Methane**

The Site is similar in elevation to the surrounding properties. There were several fill piles present on the site in 2010, however these have been removed. The fill piles were reportedly attributed to the removal and demolition of the former on-site structures. There could still be construction debris in the fill material within the former residence foundation walls. There are no sources of methane at the surface of the 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.

There are no structures at the site and no potential ACMs were observed during the site visit.

#### **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.

There are no structures at the site and no potential sources of lead were observed during the site visit.

#### **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.

There are no structures at the site and no potential sources of mercury were observed during the site visit.

#### **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.

A review of the site was conducted to evaluate the potential presence of PCBs-containing equipment in use or stored at the site.

There are no structures at the site and no potential sources of PCBs were observed during the site visit.

#### **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.

There are no structures at the site and no potential 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/m<sup>3</sup>). Where radon gas is present and the annual radon concentration exceeds 200 Bq/m<sup>3</sup> 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 limestone. Based on the rock type and significant depth to bedrock and overlying silty clay soil, radon gas is not considered a concern.

#### **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 are conducted at the Site as it is residential in nature.

#### **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**

No vehicle and equipment maintenance is conducted on the Site.

#### **5.2.17 Oil/Water Separators**

No oil water separators are present and/or anticipated at the Site.

#### **5.2.18 Sewage and Wastewater Disposal**

No sewage or wastewater is generated at the Site.

#### **5.2.19 Solid Waste Generation, Storage & Disposal**

No solid waste is generated on the Site.

#### **5.2.20 Liquid Waste Generation, Storage & Disposal**

No liquid wastes are generated or stored on 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**

No abandoned or existing wells were observed on the Site. An MOECC well record was identified for the site. It was recommended that the former water well be decommissioned by a licensed well contractor. No water wells were observed during the site visit.

#### **5.2.25 Roads, Parking Facilities and Right of Ways**

Access to the Site is via Mer-Bleue Road to the west.

### 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: Vacant undeveloped (single-family followed by townhomes)
- West (across Mer-Bleue Road): Residential and agricultural, and Denis Ladouceur Excavation Ltd. - 2220 Mer Bleue Road
- South: Residential and agricultural (across Brian Coburn Road);
- East: Residential

Based on the above, Denis Ladouceur Excavation Ltd. is considered to be a PCA (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks). The remaining neighbouring properties are not considered to have caused any environmental concern to the Site.

### 5.4 Summary of Site Reconnaissance

Based on the site reconnaissance of the Phase One ESA, Denis Ladouceur Excavation Ltd. is a PCA (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks). However, due to the silty clay soil type (slow groundwater movement) and its cross-gradient location, this PCA is not considered to be an APEC.



## 6. Review and Evaluation of Information

### 6.1 Current and Past Uses

Based on a review chain of title information, air photos, and other records, the Site had been developed as residential/agricultural since the early 1940's. The residence and barn were removed in 2007/08 and the Site has remained vacant since that time.

### 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 – Construction debris may be present in backfill material of former residence foundation walls. (PCA#30 – Importation of Fill Material of Unknown Quality).
- PCA2 – Former on-site heating oil AST in basement of former residence, (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks).
- PCA3 – Former possible application of pesticides on the agricultural land. (PCA#40 – Pesticides Manufacturing, Processing, Bulk Storage and Large Scale Application).

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

- PCA4 - Denis Ladouceur Excavation Ltd. is considered to be PCA4 (PCA#28 – Gasoline and Associated Products Stored in Fixed Tanks).

### 6.3 Areas of Potential Environmental Concern

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

- APEC 1 – (west part of Site) Contaminated soil and groundwater. This APEC is associated with PCA1. The PCOCs include BTEX and PHC.
- APEC 2 – (west part of Site) Contaminated soil and groundwater. This APEC is associated with PCA2. The PCOCs include BTEX and PHC.
- APEC 3 – (entire Site) Contaminated soil. This APEC is associated with PCA3. The PCOCs include organochlorine pesticides.

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 Phase I ESA Conceptual Site Model

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. A legal survey is also found in Appendix B.

#### **6.4.1 Subsurface Stratigraphy**

With respect to surficial geology, beneath any fill, the site is underlain by silty clay to a depth of approximately 14 m where limestone and shale (Paleozoic) of the Ottawa Formation was found.

#### **6.4.2 Estimated Groundwater Flow Direction**

Topographically, the Site is relatively flat with a shallow drainage ditch that runs along the north part of the property from east to west. The surrounding area has a slight downwards slope towards the southwest. The closest body of water is McKinnon's Creek, located approximately 360 m south of the Site. The depth to groundwater in the monitoring wells in 2010 was less than 1 m and the groundwater flow direction was calculated to be to the west.

#### **6.4.3 Underground Utilities**

Currently, there are no buried utilities on the Site. Electricity and telephone services were formerly overhead.

## 7. Findings and Recommendations

Based on the results of the Phase One ESA completed at 2225 Mer-Bleue Road in Ottawa, **exp** has identified the following areas of potential environmental concern:

**Table EXEC- 2: 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	West part	#30 – Importation of Fill Material of Unknown Quality	On-site	PHCs, BTEX, PAHs and metals	Soil and groundwater
APEC 2	West part	#28: Gasoline and Associated Products Storage in Fixed Tanks	On-site	PHCs, BTEX	Soil and groundwater
APEC 3	Entire Site	#40- Pesticides large scale applications	On-site	Organochlorine pesticides	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](http://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](http://www.ene.gov.on.ca/environet/BESR/index.htm))
12. Ontario Ministry of the Environment; *Hazardous Waste Information Network website* ([www.hwin.ca](http://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](http://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*.
18. Trow Associates (now exp); January 2010; *Phase I Environmental Site Assessment, 2233 Mer Bleue Road, Ottawa, Ontario*.
19. Trow Associates (now exp); February 2010; *Phase I Environmental Site Assessment, 2233 Mer Bleue Road, Ottawa, Ontario*.
20. Trow Associates (now exp); January 22, 2010; *Geotechnical Investigation, Orleans Family Health Hub (OFHH) Mer Bleue Road and Blackburn Bypass City of Ottawa, 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 Z.W. Group Inc. and the Montfort Hospital. The Report has been prepared for the specific site, development, building, design or building assessment objectives and purpose as communicated by Z.W. Group Inc. and the Montfort Hospital. **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 Z.W. Project Management Inc. and the Montfort Hospital, communications between **exp** and Z.W. Project Management Inc. and the Montfort Hospital, other reports, proposals or documents prepared by **exp** for Z.W. Project Management Inc. and the Montfort Hospital 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.

### Use of Report

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of Z.W. Project Management Inc. and the Montfort Hospital. 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 Z.W. Project Management Inc. and the Montfort Hospital 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.

Montfort Hospital  
Phase One Environmental Site Assessment  
2225 Mer-Bleue Road, Ottawa, Ontario  
OTT-00239983-A0  
June 28, 2017

# Appendices

**exp** Services Inc.

*Montfort Hospital  
Phase One Environmental Site Assessment  
2225 Mer-Bleue Road, Ottawa, Ontario  
OTT-00239983-A0  
June 28, 2017*

## **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.

**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 included 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. McCall is a Qualified Person for completing Phase I and II Environmental Site Assessments as per O.Reg 153/04.

**Robert Renaud**, M.Sc., P.Geo. (ON/NU/NT), is a Hydrogeologist and Environmental Geoscientist with over 15 years' experience in the environmental consulting field. Mr. Renaud is a licensed Professional Geoscientist (P.Geo.) in Ontario, Nunavut and the Northwest Territories. His technical undertakings have included work in the following fields: Phase I, II, and III Environmental Assessments; contaminated site investigations; environmental site characterization; soil and groundwater sampling and data evaluation; data analysis; interpretation and technical report preparation; project coordination; hydrogeological assessments; construction dewatering projects; Class Environmental Assessments; proposal preparation and client liaison.

**exp** Services Inc.

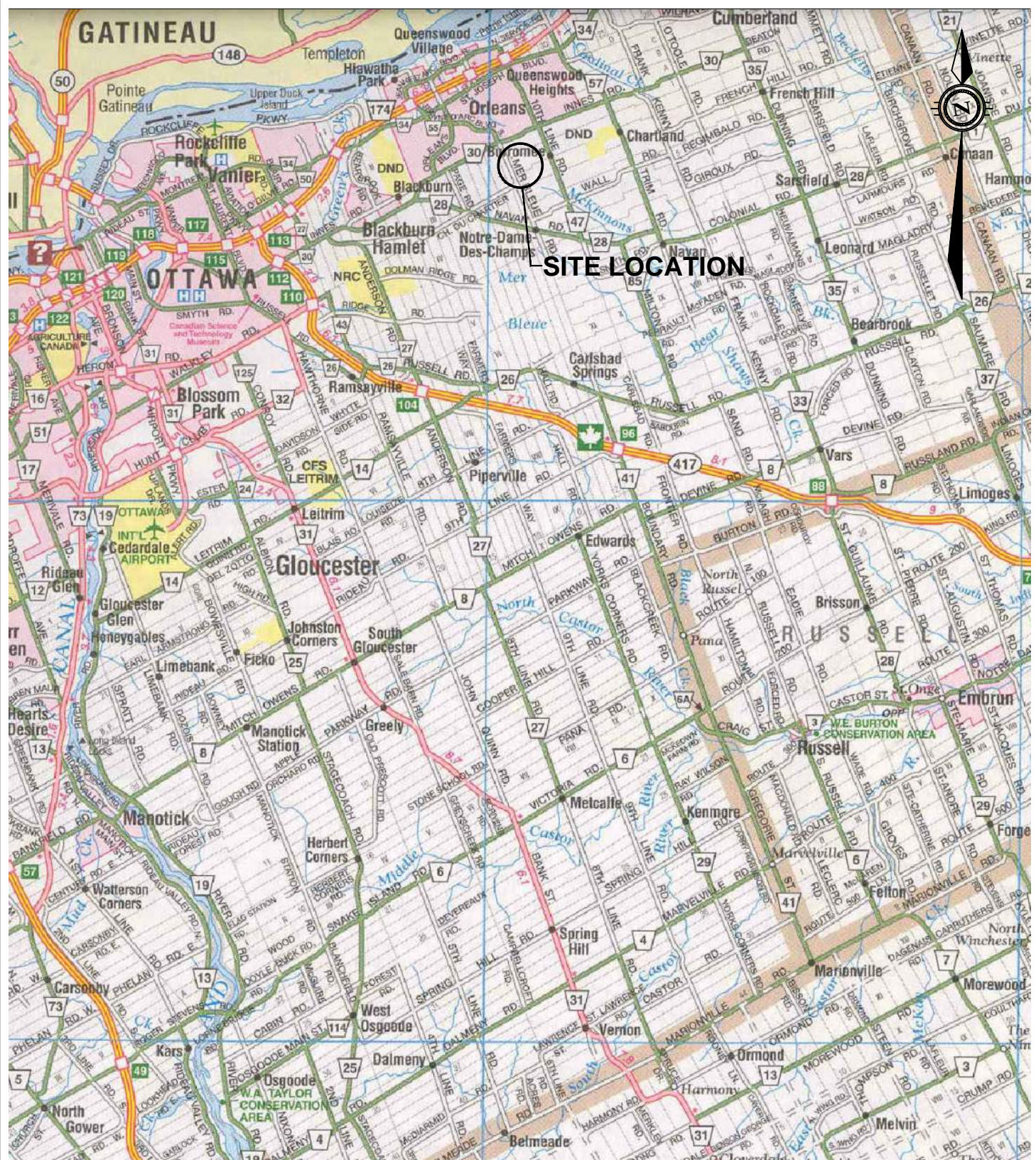
Montfort Hospital  
Phase One Environmental Site Assessment  
2225 Mer-Bleue Road, Ottawa, Ontario  
OTT-00239983-A0  
June 28, 2017

## Appendix B: Figures





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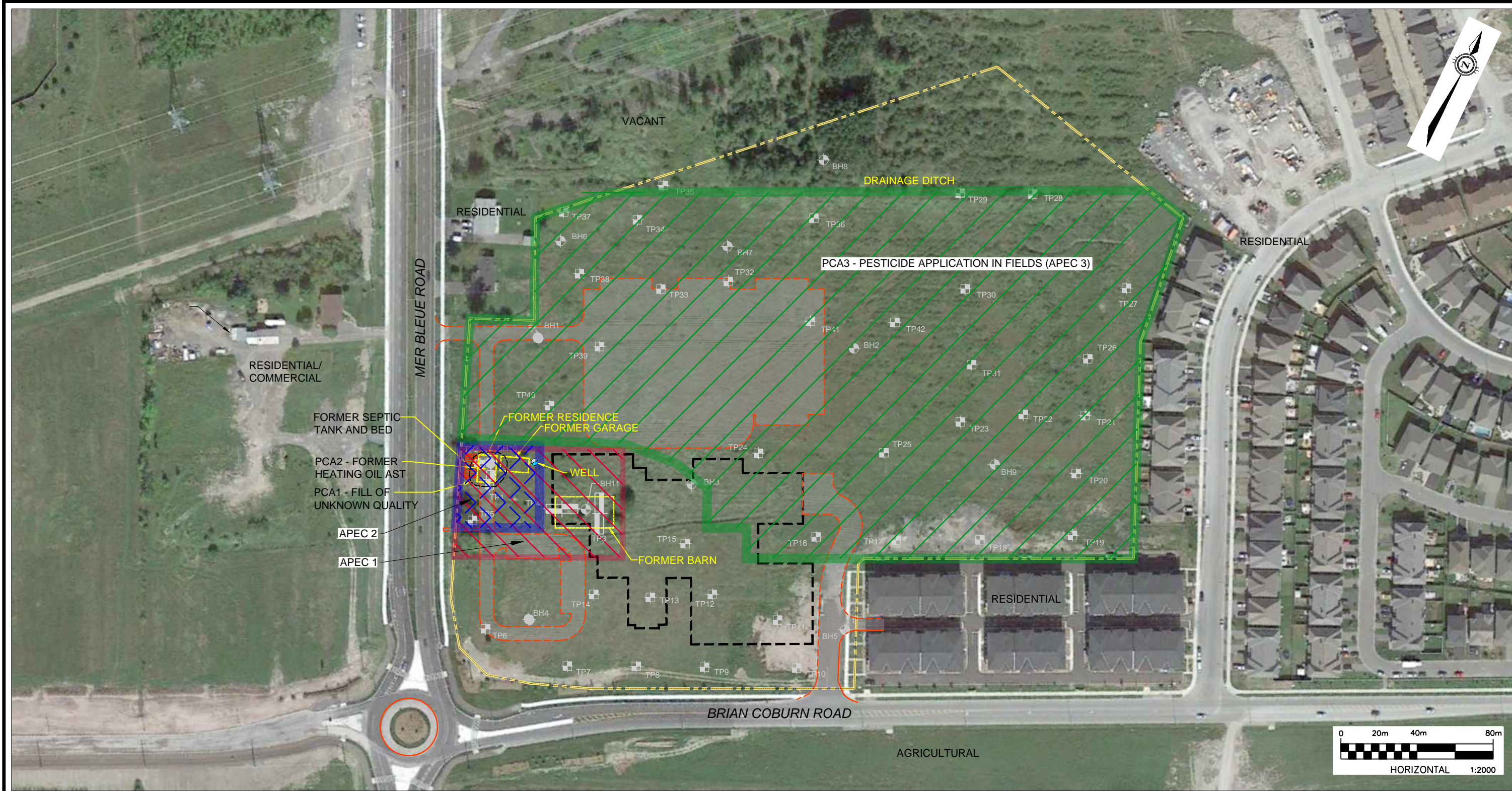


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 • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

scale 1:250,000	CLIENT: <b>MONTFORT HOSPITAL</b> ORLEANS FAMILY HEALTH HUB	project no. OTT-00239983-A0
date JUN 2017	TITLE: <b>SITE LOCATION PLAN</b> 2225 MER BLEUE ROAD, OTTAWA, ON	FIG 1
drawn by J.R.		



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Last Plotted: 6/27/2017 10:19:24 AM  
Pen Table: trw standard, July 01, 2004.ctb



LEGEND

- PREVIOUS BOREHOLE
- PREVIOUS TEST PIT (**exp** 2010)
- OUTLINE OF PROPOSED BUILDING
- PROPOSED ACCESS ROAD & PARKING AREAS

- APEC 1
- APEC 2
- APEC 3

- AST ABOVEGROUND STORAGE TANK
- APEC AREA OF POTENTIAL ENVIRONMENTAL CONCERN



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scale	1:1250	CLIENT:	MONTFORT HOSPITAL	project no.	OTT-00239983-A0
date	MAY 2017	TITLE:	SITE PLAN AND AREAS OF POTENTIAL ENVIRONMENTAL CONCERN 2225 MER BLEUE ROAD, OTTAWA, ON		
drawn by	J.R.				FIG 2







**exp** Services Inc.

Montfort Hospital  
Phase One Environmental Site Assessment  
2225 Mer-Bleue Road, Ottawa, Ontario  
OTT-00239983-A0  
June 28, 2017

## **Appendix C: Title Search, Municipal & Provincial Records**





## READ Abstracts Limited

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

Email: [search@readsearch.com](mailto:search@readsearch.com)

Tel.: 613-236-0664

Fax: 613-236-3677

### ENVIRONMENTAL SEARCH

May 24, 2017

EXP Services

Att: Kathy Radisch

#### BRIEF DESCRIPTION OF LAND:

2225 Mer Bleu Road, Ottawa  
PT LT 2 CON 11 CUMBERLAND  
PIN: 14563-0017  
14563-0021  
14563-0022  
14563-0025

LAST REGISTERED OWNER: SANTÉ MONFORT

#### CHAIN OF TITLE:

Deed 2379 registered November 6, 1882  
From Barnabe Cousineau to Guillaume Barrette

Deed 3416 registered January 12, 1884  
From Guillaume Barrette to Damase Lefevre

Deed 5492 registered June 8, 1896  
From Chas Ethier to Onisme Lachapelle

Deed 5493 registered June 8, 1896  
From Chas Ethier to Telesphore Brault

Deed 6113 registered June 18, 1898  
From Kent B. Joannis to John Joannis

Deed 7654 registered Oct 15, 1900  
From Telesphore Brault to Leon Brault

Deed 7920 registered January 3, 1902  
From Estate of Damase Lefebvre to Damase Lefebvre

Lease 7921 registered January 3, 1902  
From Damase Lefebvre to Olive Lefebvre

Deed 8499 registered June 16, 1906  
From Leon Brault to Trustees S. S. Number 11

Deed 8653 registered March 8, 1905  
From Separate S. S. No. 11 to Trustees P. S. S. No. 11

Deed 8958 registered April 25, 1906  
From Onisme Lachapelle to Leandre Lachapelle

Deed 9117 registered Oct 25, 1906  
From Hercule Lachapelle to Leandre Lachapelle

Deed 9118 registered October 25, 1906  
From Onisme Lachapelle and Leandre Lachapelle to Hercule Lachapelle

Deed 9453 registered November 23, 1907  
From Hercules Lachapelle to Theodule Gauthier

Deed 10025 registered September 3, 1909  
From Trustees of School Section No. 11 to Leon Brault

Deed 10997 registered November 4, 1914  
From John Joannis to Damase Lefebvre

Deed 12553 registered March 26, 1918  
From Leon Brault to Eusebe Lepage

Deed 13093 registered November 3, 1919  
From Damase Lefebvre to Polydore Gauthier

Deed 13292 registered May 3, 1920  
From Eusede Lepage to Adalbert Lepage

Deed 13352 registered July 12, 1920  
From Damase Lefebvre to Adelard Lefebvre and Jean B. Lefebvre

Deed 13400 registered September 16, 1920  
From Polydore Gauthier to Hector Laplante



Deed 13870 registered April 4, 1922  
From Polydore Gauthier to Hector Laplante

Mortgage 14956 registered April 22, 1927  
From Hector Laplante to Edmond Gauthier

Deed 15395 registered May 3, 1929  
From Adelard Lefebvre and Jean B. Lefebvre to Damase Lefebvre

Release of Equity and Redemption 15765 registered May 4, 1931  
From Hector Laplante to Edmond Gauthier

Release of Equity and Redemption 16303 registered November 7, 1934  
From Theodule Gauthier to William J. Edwards

Deed 16864 registered November 21, 1938  
From Alice Edwards to Joseph Edward Galipeau

Deed 16940 registered May 13, 1939  
From Joseph Lefebvre to Joseph Edward Galipeau

Deed 17795 registered May 3, 1945  
From Edmond Gauthier to Clodemir Mainville

Deed 18252 registered December 11, 1946  
From Estate of Damase Lefebvre to John Baird Darraugh

Deed 18317 registered May 2, 1947  
From John Baird Darraugh to Clodemir Mainville

Deed 19380 registered September 11, 1951  
From Claude Mainville to Gerard Ouellette

Deed 13246B registered November 13, 1966  
From Joseph Edward Galipeau to Antoine Galipeau and Fleur Agnes

Deed 28364 registered December 9, 1971  
From Antoine Galipeau and Fleur Agnes to Talos Construction Limited

Deed 120173 registered March 2, 1989  
From Gerard Ouellette to Gerard Ouellette and Lucille Ouellette

Deed LT1253645 registered December 20, 1999  
From Talos Construction Limited to Luigi Toscano

Deed LT1255456 registered December 30, 1999  
From Luigi Toscano to Carmella Loeper

Deed OC551554 registered January 5, 2006  
From Carmella Loeper to Minto Land Development Corporation

Survivorship OC558855 registered January 30, 2006  
From Gerard Oullette to Lucille Oullette

Deed OC559447 registered January 30, 2006  
From Lucille Oullette to C. Fleming Developments (Mer Bleu) Inc., Lockwood Lands (Mer Bleu) Corporation, Taggart (Mer Bleu) Corporation, and Tamarack (Mer Bleu) Corporation

Deed OC673677 registered December 22, 2006  
From C. Fleming Developments (Mer Bleu) Inc., Lockwood Lands (Mer Bleu) Corporation, Taggart (Mer Bleu) Corporation, and Tamarack (Mer Bleu) Corporation to City of Ottawa

Deed OC673691 registered December 22, 2006  
From C. Fleming Developments (Mer Bleu) Inc., Lockwood Lands (Mer Bleu) Corporation, Taggart (Mer Bleu) Corporation, and Tamarack (Mer Bleu) Corporation to Tamarack (Mer Bleu) Corporation

Deed OC673692 registered December 22, 2006  
From City of Ottawa to C. Fleming Developments (Mer Bleu) Inc., Lockwood Lands (Mer Bleu) Corporation, Taggart (Mer Bleu) Corporation

Deed OC673693 registered December 22, 2006  
From City of Ottawa to Black Pass Developments Inc.

Deed OC690610 registered February 22, 2007  
From to C. Fleming Developments (Mer Bleu) Inc. To Taggart (Mer Bleu) Corporation

Name Change OC813192 registered January 4, 2008  
From Minto Land Development Corporation to Minto Communities Inc.

Deed OC857503 registered May 30, 2008  
From Lockwood Lands (MerBleu) Corporation to Taggart (Mer Bleu) Corporation

Deed OC1212003 registered March 2, 2011  
From Minto Communities Inc. To Black Pass Developments Inc.

Deed OC1214656 registered March 11, 2011

From Tamarack (Mer Bleu) Corporation to Santé Montfort

Deed OC1214657 registered March 11, 2011

From Taggart (Mer Bleu) Corporation to Santé Montfort

Deed OC1214658 registered March 11, 2011

From Black Pass Developments Inc. to Santé Montfort

\*\*We have done our best to interpret the spelling of the names.



May 25, 2017

Via email:  
hlui@ottawa.ca

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

Re: OTT-00239983-A0     **Municipal Information Search Request**  
   **2225 Mer Bleue Road, Ottawa, Ontario**

To whom it may concern,

Our firm has been retained to conduct a Phase I Environmental Site Assessment 2225 Mer Bleue 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 as well as any available site plans, records of tanks and any available ownership history.

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 written in a cursive style. Below the signature, the text "exp Services Inc." is printed in a bold, sans-serif font.

Kathy Radisch  
Administrative Assistant  
Earth & Environment

Attachments: Disclaimer  
                         RFI Form  
                         Consent from Owner

Ministry of  
the Environment

Freedom of Information and  
Protection of Privacy Office

12<sup>th</sup> Floor  
40 St. Clair Avenue West  
Toronto ON M4V 1M2  
Tel: (416) 314-4075  
Fax: (416) 314-4285

Ministère de  
l'Environnement

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

12<sup>e</sup> étage  
40, avenue St. Clair ouest  
Toronto ON M4V 1M2  
Tél. : (416) 314-4075  
Téléc. : (416) 314-4285



RECEIVED JAN 08 2010

January 4, 2010

Kathy Radisch  
Trow Consulting Engineers Ltd  
154 Colonnade Rd S  
Ottawa, ON K2E 7J5

Dear Kathy Radisch:

RE: ***Freedom of Information and Protection of Privacy Act Request***  
**Our File # A-2009-04784, Your Reference OTEN00020336A**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 2233 Mer Bleue Road, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. **We have applied the \$30.00 for this request from your initial payment. This file is now closed.**

If you object to any decision I have made, you may request a review by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Liz Mico at (416) 212-0559.

Yours truly,

Donna Currie  
FOI Coordinator  
Freedom of Information and Protection of Privacy Office

**exp** Services Inc.

Montfort Hospital  
Phase One Environmental Site Assessment  
2225 Mer-Bleue Road, Ottawa, Ontario  
OTT-00239983-A0  
June 28, 2017

## **Appendix D: EcoLog Reports**





# DATABASE REPORT

**Project Property:** *Phase I ESA  
2225 Mer Bleue Rd  
Ottawa ON K4A3T9  
OTT-00239983-A0*

**Project No:** *OTT-00239983-A0*

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

**Order No:** *20170517044*

**Requested by:** *exp Services Inc.*

**Date Completed:** *June 1, 2017*

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

**[www.erisinfo.com](http://www.erisinfo.com)**

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# Executive Summary

## **Property Information:**

**Project Property:** *Phase I ESA  
2225 Mer Bleue Rd Ottawa ON K4A3T9*

**Project No:** *OTT-00239983-A0*

## **Order Information:**

**Order No:** *20170517044*

**Date Requested:** *May 17, 2017*

**Requested by:** *exp Services Inc.*

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

## **Additional Products:**

## Executive Summary: Report Summary

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.25km</b>	<b>Total</b>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking &amp; Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	1	2	3
CA	<i>Certificates of Approval</i>	Y	0	0	0
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	2	0	2
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	1	1	2
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 &amp; 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	0	0
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 &amp; Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.25km</b>	<b>Total</b>
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	1	0	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	1	0	1
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	2	0	2
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	7	8
<b>Total:</b>			9	10	19

## Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
<a href="#"><u>1</u></a>	ECA	Tamarack (Mer Bleu) Corporation	2233 Mer Bleue Rd Part of Lots 2 and 3, Concession 11 Ottawa ON K4A 3T9	-/0.0	0.30	<a href="#"><u>13</u></a>
<a href="#"><u>1</u></a>	EHS		2233 Mer Bleue Ottawa ON K4A 3T9	-/0.0	0.30	<a href="#"><u>13</u></a>
<a href="#"><u>2</u></a>	PINC		519 CHAPERAL PRIVATE, OTTAWA ON	-/0.0	0.14	<a href="#"><u>13</u></a>
<a href="#"><u>2</u></a>	SPL	Enbridge Gas Distribution Inc.	519 Chaperal Private, Orleans Ottawa ON	-/0.0	0.14	<a href="#"><u>14</u></a>
<a href="#"><u>2</u></a>	SPL		519 chaperal private Ottawa ON	-/0.0	0.14	<a href="#"><u>14</u></a>
<a href="#"><u>3</u></a>	BORE		ON	-/0.0	0.34	<a href="#"><u>14</u></a>
<a href="#"><u>3</u></a>	WWIS		lot 2 con 11 ON	-/0.0	0.34	<a href="#"><u>15</u></a>
<a href="#"><u>4</u></a>	ECA	Minto Communities Inc.	Part of Lot 2, Concession 11 2168 Tenth Line Road Ottawa ON	-/0.0	1.21	<a href="#"><u>17</u></a>
<a href="#"><u>4</u></a>	PTTW	Minto Communities Inc.	2168 Tenth Line Road, 2370 Tenth Line Road Ottawa ON	-/0.0	1.21	<a href="#"><u>17</u></a>

## Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<a href="#">5</a>	EHS		2215 Mer Bleue Ottawa ON	W/24.4	0.84	<a href="#">18</a>
<a href="#">6</a>	WWIS		lot 2 con 11 ON	WNW/38.0	0.38	<a href="#">18</a>
<a href="#">7</a>	WWIS		lot 2 con 11 ON	WNW/59.9	0.57	<a href="#">20</a>
<a href="#">8</a>	BORE		ON	WNW/130.0	1.07	<a href="#">22</a>
<a href="#">8</a>	WWIS		lot 2 con 11 ON	WNW/130.0	1.08	<a href="#">22</a>
<a href="#">9</a>	WWIS		lot 2 con 11 ON	NW/154.2	1.50	<a href="#">24</a>
<a href="#">10</a>	BORE		ON	WNW/204.7	1.37	<a href="#">27</a>
<a href="#">10</a>	WWIS		lot 1 con 3 ON	WNW/204.7	1.37	<a href="#">27</a>
<a href="#">11</a>	WWIS		lot 1 con 3 ON	WSW/230.9	-0.30	<a href="#">30</a>
<a href="#">12</a>	WWIS		lot 3 con 11 ON	S/243.3	-1.46	<a href="#">32</a>

## Executive Summary: Summary By Data Source

### **BORE - Borehole**

A search of the BORE database, dated 1875-Jul 2014 has found that there are 3 BORE site(s) within approximately 0.25 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	ON	0.0	<a href="#"><u>3</u></a>
	ON	130.0	<a href="#"><u>8</u></a>
	ON	204.7	<a href="#"><u>10</u></a>

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

A search of the ECA database, dated Oct 2011-Mar 2017 has found that there are 2 ECA site(s) within approximately 0.25 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
Tamarack (Mer Bleu) Corporation	2233 Mer Bleue Rd Part of Lots 2 and 3, Concession 11 Ottawa ON K4A 3T9	0.0	<a href="#"><u>1</u></a>
Minto Communities Inc.	Part of Lot 2, Concession 11 2168 Tenth Line Road Ottawa ON	0.0	<a href="#"><u>4</u></a>

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

A search of the EHS database, dated 1999-Aug 2016 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	2233 Mer Bleue Ottawa ON K4A 3T9	0.0	<a href="#"><u>1</u></a>
	2215 Mer Bleue Ottawa ON	24.4	<a href="#"><u>5</u></a>

### **PINC - TSSA Pipeline Incidents**

A search of the PINC database, dated Feb 28, 2017 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	519 CHAPERAL PRIVATE, OTTAWA ON	0.0	<a href="#"><u>2</u></a>

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

A search of the PTTW database, dated 1994-Apr 2017 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Minto Communities Inc.	2168 Tenth Line Road, 2370 Tenth Line Road Ottawa ON	0.0	<a href="#"><u>4</u></a>

### **SPL - Ontario Spills**

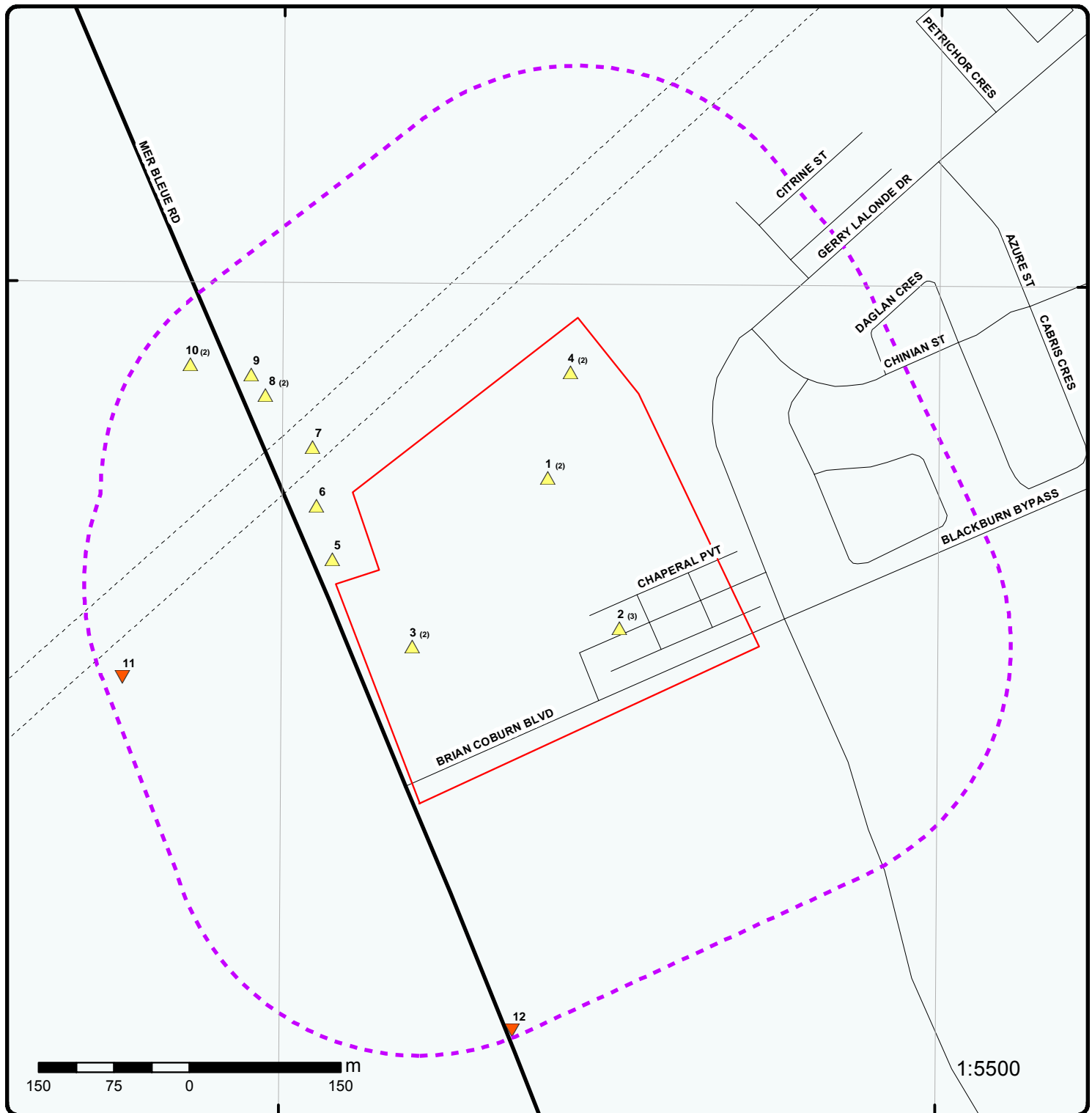
A search of the SPL database, dated 1988-Dec 2016 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Enbridge Gas Distribution Inc.	519 Chaperal Private, Orleans Ottawa ON	0.0	<a href="#"><u>2</u></a>
	519 chaperal private Ottawa ON	0.0	<a href="#"><u>2</u></a>

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

A search of the WWIS database, dated Jun 30, 2016 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 2 con 11 ON	0.0	<a href="#"><u>3</u></a>
	lot 2 con 11 ON	38.0	<a href="#"><u>6</u></a>
	lot 2 con 11 ON	59.9	<a href="#"><u>7</u></a>
	lot 2 con 11 ON	130.0	<a href="#"><u>8</u></a>
	lot 2 con 11 ON	154.2	<a href="#"><u>9</u></a>
	lot 1 con 3 ON	204.7	<a href="#"><u>10</u></a>
	lot 1 con 3 ON	230.9	<a href="#"><u>11</u></a>
	lot 3 con 11 ON	243.3	<a href="#"><u>12</u></a>



## Map : 0.25 Kilometer Radius

Order No: 20170517044

Address: 2225 Mer Bleue Rd, Ottawa, ON, K4A3T9



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



75°30'W

45°27'N

45°27'N



## Aerial

**Address: 2225 Mer Bleue Rd, Ottawa, ON, K4A3T9**

Source: ESRI World Imagery

Order No: 20170517044

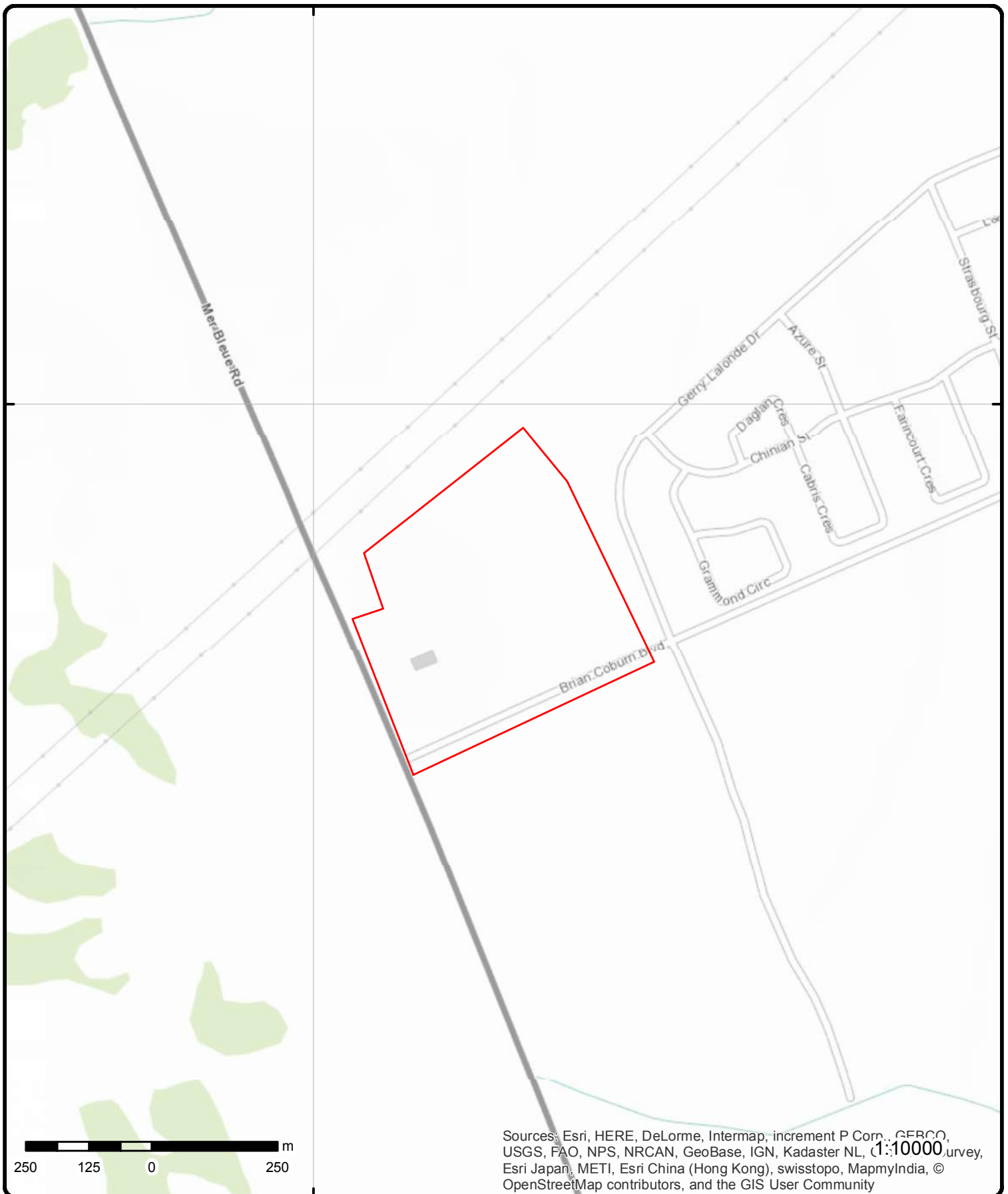


© ERIS Information Limited Partnership

75°30'W

45°27'N

45°27'N



## Topographic Map

**Address: 2225 Mer Bleue Rd, Ottawa, ON, K4A3T9**

**Source:** ESRI World Topographic Map

Order No: 20170517044



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# Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<a href="#">1</a>	1 of 2	-/0.0	88.0	Tamarack (Mer Bleu) Corporation 2233 Mer Bleue Rd Part of Lots 2 and 3, Concession 11 Ottawa ON K4A 3T9	ECA
<b>Approval No:</b> 6095-8WRPPK <b>Project Type:</b> Municipal and Private Sewage <b>Date:</b> 8/8/2012 <b>Status:</b> Approved <b>Longitude:</b> <b>Latitude:</b> <b>Record Type:</b> <b>PDF URL:</b> <b>Full Address:</b>					
<a href="#">1</a>	2 of 2	-/0.0	88.0	2233 Mer Bleue Ottawa ON K4A 3T9	EHS
<b>Postal Code:</b> <b>City:</b> <b>Address2:</b> <b>Address1:</b> <b>Provstate:</b> <b>Order No.:</b> 20091215034 <b>Addit. Info Ordered::</b> Fire Insur. Maps and/or Site Plans; <b>Report Date:</b> 12/24/2009 <b>Report Type:</b> Custom Report <b>Search Radius (km):</b> 0.25					
<a href="#">2</a>	1 of 3	-/0.0	87.9	519 CHAPERAL PRIVATE, OTTAWA ON	PINC
<b>Incident ID:</b> <b>Incident No:</b> 1729458 <b>Type:</b> FS-Pipeline Incident <b>Status Code:</b> Pipeline Damage Reason Est <b>Fuel Occurrence Tp:</b> <b>Fuel Type:</b> <b>Tank Status:</b> RC Established <b>Task No:</b> 5885606 <b>Spills Action Centre:</b> <b>Method Details:</b> E-mail <b>Fuel Category:</b> Natural Gas <b>Date of Occurrence:</b> <b>Occurrence Start</b> 2015/09/30 <b>Date:</b> <b>Operation Type:</b> <b>Pipeline Type:</b> <b>Regulator Type:</b> <b>Summary:</b> 519 CHAPERAL PRIVATE, OTTAWA - PIPELINE HIT - 2" <b>Reported By:</b> Pierre Potvin - ENBRIDGE <b>Affiliation:</b>					
<b>Health Impact:</b> <b>Environment Impact:</b> <b>Property Damage:</b> No <b>Service Interrupt:</b> <b>Enforce Policy:</b> Yes <b>Public Relation:</b> <b>Pipeline System:</b> <b>Depth:</b> <b>Pipe Material:</b> <b>PSIG:</b> <b>Attribute Category:</b> FS-Perform P-line Inc Invest <b>Regualtor Location:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Occurrence Desc:</b> <b>Damage Reason:</b> Excavation practices not sufficient <b>Notes:</b>					
<a href="#">2</a>	2 of 3	-/0.0	87.9	Enbridge Gas Distribution Inc. 519 Chaperal Private, Orleans Ottawa ON	SPL
<b>Ref No:</b> 4805-A2VGEH <b>Contaminant Code:</b> 35 <b>Contaminant Name:</b> NATURAL GAS (METHANE) <b>Contaminant Quantity:</b> 0 other - see incident description <b>Incident Cause:</b> <b>Incident Dt:</b> 9/30/2015 <b>Incident Reason:</b> Operator/Human Error <b>Incident Summary:</b> TSSA/Enbridge: 2 " gasoline damage <b>MOE Reported Dt:</b> 10/1/2015 <b>Environmental Impact:</b> <b>Nature of Impact:</b> <b>Receiving Medium:</b> <b>SAC Action Class:</b> TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill <b>Sector Source Type:</b> Unknown / N/A <b>Receiving Environment:</b> <b>Incident Event:</b> <b>Site Municipality:</b> Ottawa					
<a href="#">2</a>	3 of 3	-/0.0	87.9	519 chaperal private Ottawa ON	SPL
<b>Ref No:</b> 2052-A2UKLH <b>Contaminant Code:</b> 35 <b>Contaminant Name:</b> NATURAL GAS (METHANE) <b>Contaminant Quantity:</b> 0 other - see incident description <b>Incident Cause:</b> <b>Incident Dt:</b> 9/30/2015 <b>Incident Reason:</b> Operator/Human Error <b>Incident Summary:</b> TSSA: Chaperal service damage <b>MOE Reported Dt:</b> 9/30/2015 <b>Environmental Impact:</b> <b>Nature of Impact:</b> <b>Receiving Medium:</b> <b>SAC Action Class:</b> TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill <b>Sector Source Type:</b> Miscellaneous Industrial <b>Receiving Environment:</b> <b>Incident Event:</b> <b>Site Municipality:</b> Ottawa					
<a href="#">3</a>	1 of 2	-/0.0	88.1	ON	BORE
<b>Borehole ID:</b> 616290 <b>Use:</b> <b>Drill Method::</b> <b>Easting::</b> 461031 <b>Location Accuracy::</b> <b>Elev. Reliability</b> <b>Note::</b> <b>Total Depth m::</b> 14.6 <b>Township::</b> <b>Lot::</b>					
<b>Type:</b> Borehole <b>Status::</b> <b>UTM Zone::</b> 18 <b>Northing::</b> 5032702 <b>Orig. Ground Elev m::</b> 89.9 <b>DEM Ground Elev m::</b> 89 <b>Primary Name::</b> <b>Concession::</b> <b>Municipality:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Completion Date::	JUL-1969			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
<b>--Details--</b>					
Stratum ID:	218403576			Top Depth(m):	0.0
Bottom Depth(m):	12.2			Stratum Desc:	CLAY. BLUE.
Stratum ID:	218403577			Top Depth(m):	12.2
Bottom Depth(m):	14.6			Stratum Desc:	GRAVEL. GREY. 00048 UNSPECIFIED. SEISMIC VELOCITY = 6300. BEDROCK. SEISMIC VELOCITY = 19500

<a href="#">3</a>	2 of 2	-/0.0	88.1	lot 2 con 11 ON	WWIS
Well ID:	1512854			Lot:	002
Construction Date::				Concession:	11
Primary Water Use::	Livestock			Concession Name:	CON
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Water Supply			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	CUMBERLAND TOWNSHIP			UTM Reliability::	
County:	OTTAWA-CARLETON				
<b>Bore Hole Information</b>					
--	--				
Bore Hole ID:	10034842				
DP2BR:					
Code OB:	o				
Code OB Description:	Overburden				
Open Hole:					
Date Completed:	15-JUL-69				
Remarks:					
Zone:	18				
East 83:	461030.8				
North 83:	5032702				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	p4				
Org CS:					
Elevation:	89.03				
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
<b>Overburden and Bedrock</b>					
Materials Interval					
--	--				
Formation ID:	931021733				
Layer:	1				
General Color:	BLUE				
Most Common Material:	CLAY				
Other Materials:					
Other Materials:					
Formation Top Depth:	0				
Formation End Depth:	40				
Formation End Depth UOM:	ft				
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<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Formation ID:</b>		931021734			
<b>Layer:</b>		2			
<b>General Color:</b>		GREY			
<b>Most Common Material:</b>		GRAVEL			
<b>Other Materials:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		40			
<b>Formation End Depth:</b>		48			
<b>Formation End Depth UOM:</b>		ft			
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<b>Method of Construction &amp; Well Use</b>					
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<b>Method Construction ID:</b>		961512854			
<b>Method Construction Code:</b>		7			
<b>Method Construction:</b>		Diamond			
<b>Other Method Construction:</b>					
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<b>Pipe Information</b>					
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<b>Pipe ID:</b>		10583412			
<b>Casing Number:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
--		--			
<b>Construction Record - Casing</b>					
--		--			
<b>Casing ID:</b>		930061714			
<b>Layer:</b>		1			
<b>Open Hole or Material:</b>		GALVANIZED			
<b>Depth From:</b>					
<b>Depth To:</b>		48			
<b>Casing Diameter:</b>		2			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
--		--			
<b>Well Yield Testing</b>					
--		--			
<b>Pump Test ID:</b>		991512854			
<b>Pump Set At:</b>					
<b>Static Level:</b>		2			
<b>Final Level After Pumping:</b>		20			
<b>Recommended Pump Depth:</b>		25			
<b>Pumping Rate:</b>		10			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		6			
<b>Levels UOM:</b>		ft			
<b>Rate UOM:</b>		GPM			
<b>Water State After Test Code:</b>		1			
<b>Water State After Test:</b>		CLEAR			
<b>Pumping Test Method:</b>		1			
<b>Pumping Duration HR:</b>		2			
<b>Pumping Duration MIN:</b>		0			
<b>Flowing:</b>		N			
--		--			
<b>Draw Down &amp; Recovery</b>					
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<b>Pump Test Detail ID:</b>		934098889			
<b>Pump Test ID:</b>		991512854			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		15			
<b>Test Level:</b>		20			
<b>Test Level UOM:</b>		ft			
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<b>Pump Test Detail ID:</b>		934378002			
<b>Pump Test ID:</b>		991512854			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Test Type:</b> Draw Down <b>Test Duration:</b> 30 <b>Test Level:</b> 20 <b>Test Level UOM:</b> ft -- <b>Pump Test Detail ID:</b> 934639000 <b>Pump Test ID:</b> 991512854 <b>Test Type:</b> Draw Down <b>Test Duration:</b> 45 <b>Test Level:</b> 20 <b>Test Level UOM:</b> ft -- <b>Pump Test Detail ID:</b> 934896482 <b>Pump Test ID:</b> 991512854 <b>Test Type:</b> Draw Down <b>Test Duration:</b> 60 <b>Test Level:</b> 20 <b>Test Level UOM:</b> ft -- -- <b>Water Details</b> -- <b>Water ID:</b> 933468344 <b>Layer:</b> 1 <b>Kind Code:</b> 1 <b>Kind:</b> FRESH <b>Water Found Depth:</b> 48 <b>Water Found Depth UOM:</b> ft -- --					
<a href="#">4</a>	1 of 2	-/0.0	88.9	<b>Minto Communities Inc.</b> <b>Part of Lot 2, Concession 11 2168 Tenth Line Road</b> <b>Ottawa ON</b>	<b>ECA</b>
<b>Approval No:</b> 7971-9EAST8 <b>Project Type:</b> Municipal and Private Sewage <b>Date:</b> 10-JAN-14 <b>Status:</b> Approved <b>Longitude:</b> <b>Latitude:</b> <b>Record Type:</b> <b>PDF URL:</b> <b>Full Address:</b> Neighbourhood 5 - Avalon West - Stage 2 Part of Lot 2, Concession 11 2168 Tenth Line Road City of Ottawa					
<a href="#">4</a>	2 of 2	-/0.0	88.9	<b>Minto Communities Inc.</b> <b>2168 Tenth Line Road, 2370 Tenth Line Road</b> <b>Ottawa ON</b>	<b>PTTW</b>
<b>Year:</b> 2014 <b>EBR Registry No.:</b> 012-2683 <b>Ministry Reference Number:</b> 0277-9P3JTK <b>Notice Type:</b> Instrument Proposal <b>Instrument Type:</b> (OWRA s. 34) - Permit to take water <b>Proposal Date:</b> September 26, 2014 <b>Location:</b> North Parcel 2168 Tenth Line Road City of Ottawa South Parcel 2370 Tenth Line Road City of Ottawa AND Avalon West Residential Development - Stormwater Management Pond Lot 4, and road allowance between Lots 3 and 4, Concession 11, geographic township of Cumberland City of Ottawa CITY OF OTTAWA <b>Proponent Address:</b> 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6 <b>Notice Date:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<a href="#">5</a>	1 of 1	W/24.4	88.6	2215 Mer Bleue Ottawa ON	EHS
<b>Postal Code:</b> <b>City:</b> Ottawa <b>Address2:</b> <b>Address1:</b> 2215 Mer Bleue <b>Provstate:</b> ON <b>Order No.:</b> 20160418041 <b>Addit. Info Ordered::</b> Topographic Maps; City Directory; Aerial Photos <b>Report Date:</b> 22-APR-16 <b>Report Type:</b> Standard Report <b>Search Radius (km):</b> .25					
<a href="#">6</a>	1 of 1	WNW/38.0	88.1	lot 2 con 11 ON	WWIS
<b>Well ID:</b> 1513953 <b>Construction Date::</b> <b>Primary Water Use::</b> Domestic <b>Sec. Water Use::</b> <b>Final Well Status::</b> Water Supply <b>Specific Capacity::</b> <b>Municipality:</b> CUMBERLAND TOWNSHIP <b>County:</b> OTTAWA-CARLETON <b>Lot:</b> 002 <b>Concession:</b> 11 <b>Concession Name:</b> CON <b>Easting NAD83::</b> <b>Northing NAD83::</b> <b>Zone::</b> <b>UTM Reliability::</b>					
<b>Bore Hole Information</b>					
--					
<b>Bore Hole ID:</b> 10035935 <b>DP2BR:</b> 37 <b>Code OB:</b> r <b>Code OB Description:</b> Bedrock <b>Open Hole:</b> <b>Date Completed:</b> 08-JUN-73 <b>Remarks:</b> <b>Zone:</b> 18 <b>East 83:</b> 460935.8 <b>North 83:</b> 5032842 <b>UTMRC:</b> 6 <b>UTMRC Description:</b> margin of error : 300 m - 1 km <b>Location Method:</b> p6 <b>Org CS:</b> <b>Elevation:</b> 89.19 <b>Elevrc:</b> <b>Elevrc Description:</b> <b>Location Source Date:</b> <b>Source Revision Comment:</b> <b>Improvement Location Source:</b> <b>Improvement Location Method:</b> <b>Supplier Comment:</b> <b>Spatial Status:</b>					
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<b>Overburden and Bedrock</b>					
<b>Materials Interval</b>					
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<b>Formation ID:</b> 931024893 <b>Layer:</b> 1 <b>General Color:</b> BLUE <b>Most Common Material:</b> CLAY <b>Other Materials:</b> <b>Other Materials:</b> <b>Formation Top Depth:</b> 0 <b>Formation End Depth:</b> 37					



Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation End Depth UOM:		ft			
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Formation ID:		931024894			
Layer:		2			
General Color:		GREY			
Most Common Material:		LIMESTONE			
Other Materials:					
Other Materials:					
Formation Top Depth:		37			
Formation End Depth:		53			
Formation End Depth UOM:		ft			
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Method of Construction & Well Use					
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Method Construction ID:		961513953			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		10584505			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930063495			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		44			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
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Well Yield Testing					
--		--			
Pump Test ID:		991513953			
Pump Set At:					
Static Level:		4			
Final Level After Pumping:		20			
Recommended Pump Depth:		30			
Pumping Rate:		6			
Flowing Rate:					
Recommended Pump Rate:		6			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		N			
--		--			
Draw Down & Recovery					
--		--			
Pump Test Detail ID:		934099725			
Pump Test ID:		991513953			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		15			
Test Level UOM:		ft			
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Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Pump Test Detail ID:</b>		934380799			
<b>Pump Test ID:</b>		991513953			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		30			
<b>Test Level:</b>		10			
<b>Test Level UOM:</b>		ft			
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<b>Pump Test Detail ID:</b>		934641792			
<b>Pump Test ID:</b>		991513953			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		45			
<b>Test Level:</b>		4			
<b>Test Level UOM:</b>		ft			
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<b>Pump Test Detail ID:</b>		934899262			
<b>Pump Test ID:</b>		991513953			
<b>Test Type:</b>		Recovery			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		4			
<b>Test Level UOM:</b>		ft			
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--		--			
<b>Water Details</b>					
--		--			
<b>Water ID:</b>		933469707			
<b>Layer:</b>		1			
<b>Kind Code:</b>		1			
<b>Kind:</b>		FRESH			
<b>Water Found Depth:</b>		53			
<b>Water Found Depth UOM:</b>		ft			
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<a href="#">7</a>	1 of 1	WNW/59.9	88.3	lot 2 con 11 ON	WWIS
<b>Well ID:</b>	1512852			<b>Lot:</b>	002
<b>Construction Date::</b>				<b>Concession:</b>	11
<b>Primary Water Use::</b>	Livestock			<b>Concession Name:</b>	CON
<b>Sec. Water Use::</b>	Domestic			<b>Easting NAD83::</b>	
<b>Final Well Status::</b>	Water Supply			<b>Northing NAD83::</b>	
<b>Specific Capacity::</b>				<b>Zone::</b>	
<b>Municipality:</b>	CUMBERLAND TOWNSHIP			<b>UTM Reliability::</b>	
<b>County:</b>	OTTAWA-CARLETON				
<b>Bore Hole Information</b>					
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<b>Bore Hole ID:</b>	10034840				
<b>DP2BR:</b>					
<b>Code OB:</b>	o				
<b>Code OB Description:</b>	Overburden				
<b>Open Hole:</b>					
<b>Date Completed:</b>	06-SEP-62				
<b>Remarks:</b>					
<b>Zone:</b>	18				
<b>East 83:</b>	460931.8				
<b>North 83:</b>	5032900				
<b>UTMRC:</b>	5				
<b>UTMRC Description:</b>	margin of error : 100 m - 300 m				
<b>Location Method:</b>	gis				
<b>Org CS:</b>					
<b>Elevation:</b>	89.12				
<b>Elevrc:</b>					
<b>Elevrc Description:</b>					
<b>Location Source Date:</b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Source Revision Comment:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Supplier Comment:</b>					
<b>Spatial Status:</b>					
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<b>Overburden and Bedrock Materials Interval</b>					
--	--				
<b>Formation ID:</b>		931021728			
<b>Layer:</b>		1			
<b>General Color:</b>		BLUE			
<b>Most Common Material:</b>		CLAY			
<b>Other Materials:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		40			
<b>Formation End Depth UOM:</b>		ft			
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<b>Formation ID:</b>		931021729			
<b>Layer:</b>		2			
<b>General Color:</b>					
<b>Most Common Material:</b>		GRAVEL			
<b>Other Materials:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		40			
<b>Formation End Depth:</b>		45			
<b>Formation End Depth UOM:</b>		ft			
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<b>Method of Construction &amp; Well Use</b>					
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<b>Method Construction ID:</b>		961512852			
<b>Method Construction Code:</b>		7			
<b>Method Construction:</b>		Diamond			
<b>Other Method Construction:</b>					
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<b>Pipe Information</b>					
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<b>Pipe ID:</b>		10583410			
<b>Casing Number:</b>		1			
<b>Comment:</b>					
<b>Alt Name:</b>					
--	--				
<b>Construction Record - Casing</b>					
--	--				
<b>Casing ID:</b>		930061711			
<b>Layer:</b>		1			
<b>Open Hole or Material:</b>		STEEL			
<b>Depth From:</b>					
<b>Depth To:</b>		45			
<b>Casing Diameter:</b>		2			
<b>Casing Diameter UOM:</b>		inch			
<b>Casing Depth UOM:</b>		ft			
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<b>Well Yield Testing</b>					
--	--				
<b>Pump Test ID:</b>		991512852			
<b>Pump Set At:</b>					
<b>Static Level:</b>		3			
<b>Final Level After Pumping:</b>		15			
<b>Recommended Pump Depth:</b>		15			
<b>Pumping Rate:</b>		10			
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>		10			
<b>Levels UOM:</b>		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		4			
Pumping Duration MIN:		0			
Flowing:		N			
--		--			
Water Details					
--		--			
Water ID:		933468342			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		45			
Water Found Depth UOM:		ft			
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<hr/>					
<a href="#">8</a>	1 of 2	WNW/130.0	88.8	ON	BORE
Borehole ID:	616294			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	460885			Northing::	5032952
Location Accuracy::				Orig. Ground Elev m::	89.9
Elev. Reliability Note::				DEM Ground Elev m::	89.5
Total Depth m::	6.7			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1963			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218403588			Top Depth(m):	0.0
Bottom Depth(m):	2.4			Stratum Desc:	CLAY. BLUE.
Stratum ID:	218403589			Top Depth(m):	2.4
Bottom Depth(m):	3.0			Stratum Desc:	SAND.
Stratum ID:	218403590			Top Depth(m):	3.0
Bottom Depth(m):	6.7			Stratum Desc:	LIMESTONE. GREY. 00022ED. SEISMIC VELOCITY = 5300. BEDROCK. SEISMIC VELOCITY = 19500. K.
<hr/>					
<a href="#">8</a>	2 of 2	WNW/130.0	88.8	lot 2 con 11 ON	WWIS
Well ID:	1512853			Lot:	002
Construction Date::				Concession:	11
Primary Water Use::	Domestic			Concession Name:	CON
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Water Supply			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	CUMBERLAND TOWNSHIP			UTM Reliability::	
County:	OTTAWA-CARLETON				
Bore Hole Information					
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Bore Hole ID:	10034841				
DP2BR:	10				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Code OB:</b>		r			
<b>Code OB Description:</b>		Bedrock			
<b>Open Hole:</b>					
<b>Date Completed:</b>		12-AUG-63			
<b>Remarks:</b>					
<b>Zone:</b>		18			
<b>East 83:</b>		460884.8			
<b>North 83:</b>		5032952			
<b>UTMRC:</b>		5			
<b>UTMRC Description:</b>		margin of error : 100 m - 300 m			
<b>Location Method:</b>		p5			
<b>Org CS:</b>					
<b>Elevation:</b>		89.46			
<b>Elevrc:</b>					
<b>Elevrc Description:</b>					
<b>Location Source Date:</b>					
<b>Source Revision Comment:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Supplier Comment:</b>					
<b>Spatial Status:</b>					
--		--			
<b>Overburden and Bedrock Materials Interval</b>					
--		--			
<b>Formation ID:</b>		931021730			
<b>Layer:</b>		1			
<b>General Color:</b>		BLUE			
<b>Most Common Material:</b>		CLAY			
<b>Other Materials:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		8			
<b>Formation End Depth UOM:</b>		ft			
--		--			
<b>Formation ID:</b>		931021731			
<b>Layer:</b>		2			
<b>General Color:</b>					
<b>Most Common Material:</b>		COARSE SAND			
<b>Other Materials:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		8			
<b>Formation End Depth:</b>		10			
<b>Formation End Depth UOM:</b>		ft			
--		--			
<b>Formation ID:</b>		931021732			
<b>Layer:</b>		3			
<b>General Color:</b>		GREY			
<b>Most Common Material:</b>		LIMESTONE			
<b>Other Materials:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		10			
<b>Formation End Depth:</b>		22			
<b>Formation End Depth UOM:</b>		ft			
--		--			
<b>Method of Construction &amp; Well Use</b>					
--		--			
<b>Method Construction ID:</b>		961512853			
<b>Method Construction Code:</b>		7			
<b>Method Construction:</b>		Diamond			
<b>Other Method Construction:</b>					
--		--			
<b>Pipe Information</b>					
--		--			
<b>Pipe ID:</b>		10583411			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<hr/>					
Casing Number:	1				
Comment:					
Alt Name:					
--	--				
Construction Record - Casing					
--	--				
Casing ID:	930061712				
Layer:	1				
Open Hole or Material:	STEEL				
Depth From:					
Depth To:	11				
Casing Diameter:	2				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
--	--				
Casing ID:	930061713				
Layer:	2				
Open Hole or Material:	OPEN HOLE				
Depth From:					
Depth To:	22				
Casing Diameter:	2				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
--	--				
Well Yield Testing					
--	--				
Pump Test ID:	991512853				
Pump Set At:					
Static Level:	3				
Final Level After Pumping:	10				
Recommended Pump Depth:	20				
Pumping Rate:	10				
Flowing Rate:					
Recommended Pump Rate:	5				
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:	1				
Water State After Test:	CLEAR				
Pumping Test Method:	1				
Pumping Duration HR:	2				
Pumping Duration MIN:	0				
Flowing:	N				
--	--				
Water Details					
--	--				
Water ID:	933468343				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	22				
Water Found Depth UOM:	ft				
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<a href="#">9</a>	1 of 1	NW/154.2	89.2	lot 2 con 11 ON	WWIS
Well ID:	1512081			Lot:	002
Construction Date::				Concession:	11
Primary Water Use::	Livestock			Concession Name:	CON
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Water Supply			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	CUMBERLAND TOWNSHIP			UTM Reliability::	
County:	OTTAWA-CARLETON				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Bore Hole Information</b>					
--		--			
Bore Hole ID:		10034074			
DP2BR:		21			
Code OB:		r			
Code OB Description:		Bedrock			
Open Hole:					
Date Completed:		10-DEC-71			
Remarks:					
Zone:		18			
East 83:		460870.8			
North 83:		5032972			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		p4			
Org CS:					
Elevation:		89.69			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
<b>Overburden and Bedrock</b>					
<b>Materials Interval</b>					
--		--			
Formation ID:		931019570			
Layer:		1			
General Color:		BLUE			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		931019571			
Layer:		2			
General Color:		GREY			
Most Common Material:		QUICKSAND			
Other Materials:					
Other Materials:					
Formation Top Depth:		20			
Formation End Depth:		21			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		931019572			
Layer:		3			
General Color:		GREY			
Most Common Material:		LIMESTONE			
Other Materials:					
Other Materials:					
Formation Top Depth:		21			
Formation End Depth:		49			
Formation End Depth UOM:		ft			
--		--			
<b>Method of Construction &amp; Well Use</b>					
--		--			
Method Construction ID:		961512081			
Method Construction Code:		1			
Method Construction:		Cable Tool			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Other Method Construction:</b>					
--	--	--	--	--	--
<b>Pipe Information</b>					
--	--	--	--	--	--
Pipe ID:		10582644			
Casing Number:		1			
Comment:					
Alt Name:					
--	--	--	--	--	--
<b>Construction Record - Casing</b>					
--	--	--	--	--	--
Casing ID:		930060470			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		24			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--	--	--	--	--	--
Casing ID:		930060471			
Layer:		2			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		49			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--	--	--	--	--	--
<b>Well Yield Testing</b>					
--	--	--	--	--	--
Pump Test ID:		991512081			
Pump Set At:					
Static Level:		10			
Final Level After Pumping:		10			
Recommended Pump Depth:		20			
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:		6			
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			
--	--	--	--	--	--
<b>Draw Down &amp; Recovery</b>					
--	--	--	--	--	--
Pump Test Detail ID:		934098711			
Pump Test ID:		991512081			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		10			
Test Level UOM:		ft			
--	--	--	--	--	--
Pump Test Detail ID:		934376304			
Pump Test ID:		991512081			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		10			
Test Level UOM:		ft			
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Pump Test Detail ID:		934646639			
Pump Test ID:		991512081			



Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
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Test Type:		Draw Down			
Test Duration:		45			
Test Level:		10			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934894796			
Pump Test ID:		991512081			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		10			
Test Level UOM:		ft			
--		--			
--		--			
Water Details					
--		--			
Water ID:		933467423			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		49			
Water Found Depth UOM:		ft			
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--		--			
<hr/>					
<a href="#">10</a>	1 of 2	WNW/204.7	89.1	ON	BORE
Borehole ID:	616295			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	460811			Northing::	5032982
Location Accuracy::				Orig. Ground Elev m::	89.6
Elev. Reliability Note::				DEM Ground Elev m::	89.2
Total Depth m::	29.6			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	DEC-1970			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218403591			Top Depth(m):	0.0
Bottom Depth(m):	0.9			Stratum Desc:	SAND. YELLOW.
Stratum ID:	218403592			Top Depth(m):	0.9
Bottom Depth(m):	27.4			Stratum Desc:	CLAY. BLUE.
Stratum ID:	218403593			Top Depth(m):	27.4
Bottom Depth(m):	29.6			Stratum Desc:	SLATE. BROWN. 00097SEISMIC VELOCITY = 5300. BEDROCK. SEISMIC VELOCITY = 19500. K. DARK,G
<hr/>					
<a href="#">10</a>	2 of 2	WNW/204.7	89.1	lot 1 con 3 ON	WWIS
Well ID:	1510719			Lot:	001
Construction Date::				Concession:	03
Primary Water Use::	Domestic			Concession Name:	OF
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Water Supply			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	GLOUCESTER TOWNSHIP			UTM Reliability::	
County:	OTTAWA-CARLETON				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Bore Hole Information</b>					
--		--			
Bore Hole ID:		10032736			
DP2BR:		90			
Code OB:		r			
Code OB Description:		Bedrock			
Open Hole:					
Date Completed:		18-DEC-70			
Remarks:					
Zone:		18			
East 83:		460810.8			
North 83:		5032982			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		p4			
Org CS:					
Elevation:		89.22			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
<b>Overburden and Bedrock</b>					
<b>Materials Interval</b>					
--		--			
Formation ID:		931015648			
Layer:		1			
General Color:		YELLOW			
Most Common Material:		MEDIUM SAND			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		3			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		931015649			
Layer:		2			
General Color:		BLUE			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		3			
Formation End Depth:		90			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		931015650			
Layer:		3			
General Color:		BROWN			
Most Common Material:		SLATE			
Other Materials:					
Other Materials:					
Formation Top Depth:		90			
Formation End Depth:		97			
Formation End Depth UOM:		ft			
--		--			
<b>Method of Construction &amp; Well Use</b>					
--		--			
Method Construction ID:		961510719			
Method Construction Code:		7			
Method Construction:		Diamond			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Other Method Construction:</b>					
--	--				
<b>Pipe Information</b>					
--	--				
Pipe ID:		10581306			
Casing Number:		1			
Comment:					
Alt Name:					
--	--				
<b>Construction Record - Casing</b>					
--	--				
Casing ID:		930058038			
Layer:		1			
Open Hole or Material:		GALVANIZED			
Depth From:					
Depth To:		92			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--	--				
Casing ID:		930058039			
Layer:		2			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		97			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--	--				
<b>Well Yield Testing</b>					
--	--				
Pump Test ID:		991510719			
Pump Set At:					
Static Level:		30			
Final Level After Pumping:		50			
Recommended Pump Depth:		60			
Pumping Rate:		6			
Flowing Rate:					
Recommended Pump Rate:		6			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		N			
--	--				
<b>Draw Down &amp; Recovery</b>					
--	--				
Pump Test Detail ID:		934097310			
Pump Test ID:		991510719			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		50			
Test Level UOM:		ft			
--	--				
Pump Test Detail ID:		934380045			
Pump Test ID:		991510719			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		50			
Test Level UOM:		ft			
--	--				
Pump Test Detail ID:		934641622			
Pump Test ID:		991510719			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		45			
<b>Test Level:</b>		50			
<b>Test Level UOM:</b>		ft			
--		--			
<b>Pump Test Detail ID:</b>		934897990			
<b>Pump Test ID:</b>		991510719			
<b>Test Type:</b>		Draw Down			
<b>Test Duration:</b>		60			
<b>Test Level:</b>		50			
<b>Test Level UOM:</b>		ft			
--		--			
--		--			
<b>Water Details</b>					
--		--			
<b>Water ID:</b>		933465752			
<b>Layer:</b>		1			
<b>Kind Code:</b>		3			
<b>Kind:</b>		SULPHUR			
<b>Water Found Depth:</b>		97			
<b>Water Found Depth UOM:</b>		ft			
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<a href="#">11</a>	1 of 1	WSW/230.9	87.4	lot 1 con 3 ON	WWIS
<b>Well ID:</b>	1519786			<b>Lot:</b>	001
<b>Construction Date::</b>				<b>Concession:</b>	03
<b>Primary Water Use::</b>	Domestic			<b>Concession Name:</b>	
<b>Sec. Water Use::</b>	Commerical			<b>Easting NAD83::</b>	
<b>Final Well Status::</b>	Water Supply			<b>Northing NAD83::</b>	
<b>Specific Capacity::</b>				<b>Zone::</b>	
<b>Municipality:</b>	GLOUCESTER TOWNSHIP			<b>UTM Reliability::</b>	
<b>County:</b>	OTTAWA-CARLETON				
<b>Bore Hole Information</b>					
--	--				
<b>Bore Hole ID:</b>	10041639				
<b>DP2BR:</b>	34				
<b>Code OB:</b>	r				
<b>Code OB Description:</b>	Bedrock				
<b>Open Hole:</b>					
<b>Date Completed:</b>	10-JUN-85				
<b>Remarks:</b>					
<b>Zone:</b>	18				
<b>East 83:</b>	460743				
<b>North 83:</b>	5032672				
<b>UTMRC:</b>	9				
<b>UTMRC Description:</b>	unknown UTM				
<b>Location Method:</b>					
<b>Org CS:</b>	N83				
<b>Elevation:</b>	89.26				
<b>Elevrc:</b>					
<b>Elevrc Description:</b>					
<b>Location Source Date:</b>	July 2001				
<b>Source Revision Comment:</b>	Coordinate change in shapefile				
<b>Improvement Location Source:</b>	PWPF-SDG/PWPF-PRU Eastern Ontario 2000 GWS\E.O.W.R.M.SWater Well Record Database\arc-info coverage.well location.e00				
<b>Improvement Location Method:</b>	GIS10000				
<b>Supplier Comment:</b>	no metadata on shp file, but seems ~4000 wells updated out of ~48000, (however nothing in report to describe these changes); diffeast:539287, diffnorth:4967549; original coordinates =9999...				
<b>Spatial Status:</b>	Improved				
--	--				
<b>Overburden and Bedrock</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Materials Interval</b>					
--		--			
Formation ID:		931042725			
Layer:		1			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		9			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		931042726			
Layer:		2			
General Color:		BLUE			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		9			
Formation End Depth:		34			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		931042727			
Layer:		3			
General Color:		BLACK			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:					
Formation Top Depth:		34			
Formation End Depth:		43			
Formation End Depth UOM:		ft			
--		--			
<b>Method of Construction &amp; Well Use</b>					
--		--			
Method Construction ID:		961519786			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
--		--			
<b>Pipe Information</b>					
--		--			
Pipe ID:		10590209			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
<b>Construction Record - Casing</b>					
--		--			
Casing ID:		930072710			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		34			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
<b>Well Yield Testing</b>					
--		--			
Pump Test ID:		991519786			
Pump Set At:					
Static Level:		4			
Final Level After Pumping:		28			
Recommended Pump Depth:		40			
Pumping Rate:		35			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>	15				
<b>Levels UOM:</b>	ft				
<b>Rate UOM:</b>	GPM				
<b>Water State After Test Code:</b>	2				
<b>Water State After Test:</b>	CLOUDY				
<b>Pumping Test Method:</b>	2				
<b>Pumping Duration HR:</b>	1				
<b>Pumping Duration MIN:</b>	10				
<b>Flowing:</b>	N				
--	--				
<b>Draw Down &amp; Recovery</b>					
--	--				
<b>Pump Test Detail ID:</b>	934109672				
<b>Pump Test ID:</b>	991519786				
<b>Test Type:</b>	Draw Down				
<b>Test Duration:</b>	15				
<b>Test Level:</b>	34				
<b>Test Level UOM:</b>	ft				
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<b>Pump Test Detail ID:</b>	934384401				
<b>Pump Test ID:</b>	991519786				
<b>Test Type:</b>	Draw Down				
<b>Test Duration:</b>	30				
<b>Test Level:</b>	34				
<b>Test Level UOM:</b>	ft				
--	--				
<b>Pump Test Detail ID:</b>	934654942				
<b>Pump Test ID:</b>	991519786				
<b>Test Type:</b>	Draw Down				
<b>Test Duration:</b>	45				
<b>Test Level:</b>	34				
<b>Test Level UOM:</b>	ft				
--	--				
<b>Pump Test Detail ID:</b>	934894726				
<b>Pump Test ID:</b>	991519786				
<b>Test Type:</b>	Draw Down				
<b>Test Duration:</b>	60				
<b>Test Level:</b>	34				
<b>Test Level UOM:</b>	ft				
--	--				
--	--				
<b>Water Details</b>					
--	--				
<b>Water ID:</b>	933476860				
<b>Layer:</b>	1				
<b>Kind Code:</b>	1				
<b>Kind:</b>	FRESH				
<b>Water Found Depth:</b>	42				
<b>Water Found Depth UOM:</b>	ft				
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<a href="#">12</a>	1 of 1	S/243.3	86.3	lot 3 con 11 ON	WWIS
<b>Well ID:</b>	1519531			<b>Lot:</b>	003
<b>Construction Date::</b>				<b>Concession:</b>	11
<b>Primary Water Use::</b>	Irrigation			<b>Concession Name:</b>	CON
<b>Sec. Water Use::</b>				<b>Easting NAD83::</b>	
<b>Final Well Status::</b>	Water Supply			<b>Northing NAD83::</b>	
<b>Specific Capacity::</b>				<b>Zone::</b>	
<b>Municipality:</b>	CUMBERLAND TOWNSHIP			<b>UTM Reliability::</b>	
<b>County:</b>	OTTAWA-CARLETON				



Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<b>Bore Hole Information</b>					
--		--			
Bore Hole ID:		10041401			
DP2BR:					
Code OB:		0			
Code OB Description:		Overburden			
Open Hole:					
Date Completed:		25-MAR-85			
Remarks:					
Zone:		18			
East 83:		461129.8			
North 83:		5032321			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		p4			
Org CS:					
Elevation:		88.4			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
<b>Overburden and Bedrock Materials Interval</b>					
--		--			
Formation ID:		931041957			
Layer:		1			
General Color:		BROWN			
Most Common Material:		TOPSOIL			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		6			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		931041958			
Layer:		2			
General Color:		BLUE			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		6			
Formation End Depth:		119			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		931041959			
Layer:		3			
General Color:		BLACK			
Most Common Material:		GRAVEL			
Other Materials:					
Other Materials:					
Formation Top Depth:		119			
Formation End Depth:		120			
Formation End Depth UOM:		ft			
--		--			
<b>Method of Construction &amp; Well Use</b>					
--		--			
Method Construction ID:		961519531			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
<b>Pipe Information</b>					
--		--			
Pipe ID:		10589971			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
<b>Construction Record - Casing</b>					
--		--			
Casing ID:		930072292			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		120			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
<b>Well Yield Testing</b>					
--		--			
Pump Test ID:		991519531			
Pump Set At:					
Static Level:		45			
Final Level After Pumping:		105			
Recommended Pump Depth:		116			
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:		14			
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			
--		--			
<b>Draw Down &amp; Recovery</b>					
--		--			
Pump Test Detail ID:		934109164			
Pump Test ID:		991519531			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		90			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934383338			
Pump Test ID:		991519531			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		105			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934653315			
Pump Test ID:		991519531			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		105			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934894077			
Pump Test ID:		991519531			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		105			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elevation (m)</i>	<i>Site</i>	<i>DB</i>
<b>Test Level UOM:</b>		ft			
--		--			
--		--			
<b>Water Details</b>					
--		--			
<b>Water ID:</b>		933476558			
<b>Layer:</b>		1			
<b>Kind Code:</b>		1			
<b>Kind:</b>		FRESH			
<b>Water Found Depth:</b>		120			
<b>Water Found Depth UOM:</b>		ft			
--		--			
--		--			

# Unplottable Summary

Total: **28** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Tamarack (Mer Bleu) Corporation	Formerly Township of Cumberland	Ottawa ON	
CA	Minto Communities Inc.	Part 3, RP 4R-7806, Ward (2), Orleans	Ottawa ON	
CA	Tamarack (Mer Bleu) Corporation	Neighbourhood 5 - Chaparel, former City of Cumberland	Ottawa ON	
CA	Tamarack (Mer Bleu) Corporation		Ottawa ON	
CA	Minto Communities Inc.	Ward 21	Ottawa ON	
CA	Tamarack (Mer Bleu) Corporation		Ottawa ON	
CA	Minto Communities Inc.		Ottawa ON	
CA	Tamarack (Mer Bleu) Corporation		Ottawa ON	
CA	Tamarack (Mer Bleu) Corporation		Ottawa ON	
CA	Minto Communities Inc.	Ward 21	Ottawa ON	
CA	Tamarack (Mer Bleu) Corporation		Ottawa ON	
CA	City of Ottawa	Mer Bleue Rd (Innes Rd 700m south)	Ottawa ON	
CA	City of Ottawa	Mer Bleue Rd (Innes Rd 700m south)	Ottawa ON	
CA	Tamarack (Mer Bleu) Corporation		Ottawa ON	
EBR	Minto Communities Inc.	Ottawa, Ontario CITY OF OTTAWA	ON	
ECA	Minto Communities Inc.	Part of Lot 2, Concession 11 (West of Tenth Line Road and North of Blackburn Ham	Ottawa ON	
ECA	Minto Communities Inc.		Ottawa ON	
ECA	Minto Communities Inc.	Ottawa	ON	

ECA	Minto Communities Inc.	Ottawa	ON
ECA	Minto Communities Inc.	Ottawa	ON
ECA	Minto Communities Inc.	Neighbourhood 5 - Chaparel, former City of Cumberland	Ottawa ON
ECA	Minto Communities Inc.	Ottawa	ON
ECA	Minto Communities Inc.	Ottawa	ON
ECA	Minto Communities Inc.	Ottawa	ON
ECA	Minto Communities Inc.	Ottawa	ON
ECA	Tamarack (Mer Bleu) Corporation	Brian Coburn Boulevard	Ottawa ON
PTTW	Minto Communities Inc.		ON
SPL	Minto Developments Inc.	On Blackburn Bypass St. between Esprit St. and Lakeridge St. PRIVATE PORPERTY<UNOFFICIAL>	Ottawa ON

# Unplottable Report

---

**Site:** *Tamarack (Mer Bleu) Corporation*  
*Formerly Township of Cumberland Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 9643-8JVJU9  
**Application Year:** 2011  
**Issue Date:** 8/2/2011  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

---

**Site:** *Minto Communities Inc.*  
*Part 3, RP 4R-7806, Ward (2), Orleans Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 9811-856NNC  
**Application Year:** 2010  
**Issue Date:** 5/7/2010  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

---

**Site:** *Tamarack (Mer Bleu) Corporation*  
*Neighbourhood 5 - Chaparel, former City of Cumberland Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 9628-7ZEMFV  
**Application Year:** 2010  
**Issue Date:** 3/9/2010  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

---

**Site:** *Tamarack (Mer Bleu) Corporation*  
*Ottawa ON*

**Database:**  
*CA*

**Certificate #:** 8926-7YKQP3



**Application Year:** 2009  
**Issue Date:** 12/10/2009  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

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**Site:** **Minto Communities Inc.**  
**Ward 21 Ottawa ON**

**Database:**  
**CA**

**Certificate #:** 6616-7XYSBE  
**Application Year:** 2009  
**Issue Date:** 12/4/2009  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

---

**Site:** **Tamarack (Mer Bleu) Corporation**  
**Ottawa ON**

**Database:**  
**CA**

**Certificate #:** 1717-78GVHB  
**Application Year:** 2008  
**Issue Date:** 4/11/2008  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Revoked and/or Replaced  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

---

**Site:** **Minto Communities Inc.**  
**Ottawa ON**

**Database:**  
**CA**

**Certificate #:** 3058-7JZKTF  
**Application Year:** 2008  
**Issue Date:** 10/7/2008  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

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**Site:** Tamarack (Mer Bleu) Corporation  
Ottawa ON

**Database:**  
CA

**Certificate #:** 3672-798RWP  
**Application Year:** 2007  
**Issue Date:** 12/5/2007  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

---

**Site:** Tamarack (Mer Bleu) Corporation  
Ottawa ON

**Database:**  
CA

**Certificate #:** 3736-74URS5  
**Application Year:** 2007  
**Issue Date:** 7/11/2007  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Revoked and/or Replaced  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

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**Site:** Minto Communities Inc.  
Ward 21 Ottawa ON

**Database:**  
CA

**Certificate #:** 3852-7XHSD6  
**Application Year:** 2009  
**Issue Date:** 11/10/2009  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**  
**Client City::**  
**Client Postal Code::**  
**Project Description::**  
**Contaminants::**  
**Emission Control::**

---

**Site:** Tamarack (Mer Bleu) Corporation  
Ottawa ON

**Database:**  
CA

**Certificate #:** 4501-78NS8X  
**Application Year:** 2008  
**Issue Date:** 4/2/2008  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name::**  
**Client Address::**

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

---

**Site:** City of Ottawa  
Mer Bleue Rd (Innes Rd 700m south) Ottawa ON

**Database:**  
CA

Certificate #: 2501-6V7Q25  
Application Year: 2006  
Issue Date: 11/10/2006  
Approval Type: Municipal and Private Sewage Works  
Status: Approved  
Application Type:  
Client Name::  
Client Address::  
Client City::  
Client Postal Code::  
Project Description::  
Contaminants::  
Emission Control::

---

**Site:** City of Ottawa  
Mer Bleue Rd (Innes Rd 700m south) Ottawa ON

**Database:**  
CA

Certificate #: 8790-6VKTPK  
Application Year: 2007  
Issue Date: 4/26/2007  
Approval Type: Municipal and Private Sewage Works  
Status: Approved  
Application Type:  
Client Name::  
Client Address::  
Client City::  
Client Postal Code::  
Project Description::  
Contaminants::  
Emission Control::

---

**Site:** Tamarack (Mer Bleu) Corporation  
Ottawa ON

**Database:**  
CA

Certificate #: 5933-7EFKX2  
Application Year: 2009  
Issue Date: 3/4/2009  
Approval Type: Municipal and Private Sewage Works  
Status: Approved  
Application Type:  
Client Name::  
Client Address::  
Client City::  
Client Postal Code::  
Project Description::  
Contaminants::  
Emission Control::

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**Site:** Minto Communities Inc.  
Ottawa, Ontario CITY OF OTTAWA ON

**Database:**  
EBR

Company Name: Minto Communities Inc.  
Year: 2017

**Notice Type:** Instrument Proposal  
**EBR Registry No.:** 013-0315  
**Instrument Type:** (ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species  
**Proposal Date:** April 10, 2017  
**Ministry Ref. No.:** MNRF INST 30/17  
**Location:** Ottawa, Ontario CITY OF OTTAWA  
**Proponent Address:** 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6  
**Notice Date:** April 10, 2017

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**Site:** *Minto Communities Inc.*  
*Part of Lot 2, Concession 11 (West of Tenth Line Road and North of Blackburn Ham Ottawa ON*

**Database:**  
[ECA](#)

**Approval No:** 7875-8NEK8B  
**Project Type:** Municipal and Private Sewage  
**Date:** 11/18/2011  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

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**Site:** *Minto Communities Inc.*  
*Ottawa ON*

**Database:**  
[ECA](#)

**Approval No:** 0606-AHXJCH  
**Project Type:** Municipal and Private Sewage Works  
**Date:** 2/2/2017 12:51:44 PM  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:** ECA  
**PDF URL:** <https://www.accessenvironment.ene.gov.on.ca/instruments/4552-AHSJ74-14.pdf>  
**Full Address:**

---

**Site:** *Minto Communities Inc.*  
*Ottawa ON*

**Database:**  
[ECA](#)

**Approval No:** 3002-8PBSB4  
**Project Type:** Municipal and Private Sewage  
**Date:** 1/31/2012  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

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**Site:** *Minto Communities Inc.*  
*Ottawa ON*

**Database:**  
[ECA](#)

**Approval No:** 0195-95LSVA  
**Project Type:** Municipal and Private Sewage  
**Date:** 22-MAR-13  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

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**Site:** Minto Communities Inc.  
Ottawa ON

**Database:**  
[ECA](#)

**Approval No:** 7204-93USB8  
**Project Type:** Municipal and Private Sewage  
**Date:** 1/15/2013  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

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**Site:** Minto Communities Inc.  
Neighbourhood 5 - Chaparel, former City of Cumberland Ottawa ON

**Database:**  
[ECA](#)

**Approval No:** 5102-8SFKQW  
**Project Type:** Municipal and Private Sewage  
**Date:** 3/19/2012  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

---

**Site:** Minto Communities Inc.  
Ottawa ON

**Database:**  
[ECA](#)

**Approval No:** 1554-8Y2HZ6  
**Project Type:** Municipal and Private Sewage  
**Date:** 9/14/2012  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

---

**Site:** Minto Communities Inc.  
Ottawa ON

**Database:**  
[ECA](#)

**Approval No:** 3053-8YJNWU  
**Project Type:** Municipal and Private Sewage  
**Date:** 10/1/2012  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

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**Site:** Minto Communities Inc.  
Ottawa ON

**Database:**  
[ECA](#)

**Approval No:** 3275-8XLRU3  
**Project Type:** Municipal and Private Sewage  
**Date:** 11/13/2012  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**

Full Address:

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**Site:** Minto Communities Inc.  
Ottawa ON

**Database:**  
ECA

**Approval No:** 7202-97BLB4  
**Project Type:** Municipal and Private Sewage  
**Date:** 5/23/13  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

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**Site:** Tamarack (Mer Bleu) Corporation  
Brian Coburn Boulevard Ottawa ON

**Database:**  
ECA

**Approval No:** 3522-8S8JMQ  
**Project Type:** Municipal and Private Sewage  
**Date:** 3/12/2012  
**Status:** Approved  
**Longitude:**  
**Latitude:**  
**Record Type:**  
**PDF URL:**  
**Full Address:**

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**Site:** Minto Communities Inc.  
ON

**Database:**  
PTTW

**Year:** 2017  
**EBR Registry No.:** 012-9800  
**Ministry Reference Number:** 5771-AJEJDR  
**Notice Type:** Instrument Proposal  
**Instrument Type:** (OWRA s. 34) - Permit to Take Water  
**Proposal Date:** February 13, 2017  
**Location:** Avalon West Community Address: Lot: 3 & Part of Lot 4, Concession: 11, Geographic Township: CUMBERLAND, Ottawa, City District Office: Ottawa GeoReference: Zone: 18, UTM Easting: 461611, UTM Northing: 5032496, UTM Location Description: S1- Lot 3 Concession 11, Site #: 5712-AJEJLA CITY OF OTTAWA  
**Proponent Address:** 180 Kent Street , Suite 200, Ottawa Ontario, Canada K1P 0B6  
**Notice Date:** February 13, 2017

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**Site:** Minto Developments Inc.  
On Blackburn Bypass St. between Esprit St. and Lakeridge St. PRIVATE PORPERTY<UNOFFICIAL> Ottawa ON

**Database:**  
SPL

**Ref No:** 1232-6NYQ7C  
**Contaminant Code:** 13  
**Contaminant Name:** DIESEL FUEL  
**Contaminant Quantity:** 120 L  
**Incident Cause:** Container Leak (Fuel Tank Barrels)  
**Incident Dt:** 4/18/2006  
**Incident Reason:** Unknown - Reason not determined  
**Incident Summary:** Spill of diesel- 30 gals to grnd, contain by berms - Ottawa  
**MOE Reported Dt:** 4/18/2006  
**Environmental Impact:** Confirmed  
**Nature of Impact:** Soil Contamination  
**Receiving Medium:** Land  
**SAC Action Class:**  
**Sector Source Type:** Other  
**Receiving Environment:**  
**Incident Event:**  
**Site Municipality:** Ottawa





## Appendix: Database Descriptions

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

### **Abandoned Aggregate Inventory:**

Provincial [AAGR](#)

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

**Government Publication Date: Sept 2002\***

### **Aggregate Inventory:**

Provincial [AGR](#)

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

**Government Publication Date: Up to 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 - Oct 2016**

### **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 - Oct 2016

**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-Mar 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-Apr 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-Mar 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-Apr 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-Mar 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

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

**Government Publication Date: May 31, 2014**

**List of TSSA Expired Facilities:**

Provincial

EXP

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: June 2000-Aug 2016**

**Fisheries & Oceans Fuel Tanks:**

Federal

FOFT

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

**Government Publication Date: 1964-Sept 2003**

**Fuel Storage Tank:**

Provincial

FST

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

**Government Publication Date: 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-Sep 2016**

**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 CO<sub>2</sub> 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 - Dec 2016**

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

**Government Publication Date: 1988-Jan 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-Apr 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-Oct 2016**

**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-Apr 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: 1986-2013**

**Record of Site Condition:**

Provincial RSC

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

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

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

**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-Dec 2016**

**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 ERI's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

**Government Publication Date: 1970-Mar 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 ERI'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: Jun 30, 2016**

# 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.

**exp** Services Inc.

Montfort Hospital  
Phase One Environmental Site Assessment  
2225 Mer-Bleue Road, Ottawa, Ontario  
OTT-00239983-A0  
June 28, 2017

## **Appendix E: Site Photographs**





**Photograph No. 1**

View of site from Mer-Bleue Road.



**Photograph No. 2**

A view of the south half of the site.





**Photograph No. 3**

View of the central part of the property.



**Photograph No. 4**

View of the former farm house area of the property (APEC 1 and 2).



**Photograph No. 5**

View of previously installed MW11 from 2010 near former barn.



**Photograph No. 6**

View of southwest corner of site.





**Photograph No. 7**

View of the residence and landscaping business across Mer-Bleue Road.



**Photograph No. 8**

View of neighbouring residences to northwest.



**Photograph No. 9**

View of residences to south of site.



**Photograph No. 10**

View of north part of property with residences to the east.