



PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

**1161 Old Montreal Road
(Vacant Land, North of Old Montreal Road (Registered Plan 4R24727, Part of Part
1, Part of Lot 28 Concession 1 [Old Survey], Cumberland)
Ottawa, Ontario**

RiskCheck Project No. 29870

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EXECUTIVE SUMMARY

RiskCheck Environmental Ltd. (RiskCheck) was retained by Arch Corporation (Arch), herein also referred to as the “Client”, to carry out a Phase One Environmental Site Assessment (ESA) of a vacant land parcel, located on the north side of Old Montreal Road and the east side of Famille-Laporte Avenue in Ottawa (in the former Township of Cumberland), Ontario (hereafter referred to as the “Subject Property” or “Phase One Property”). The Phase One ESA was completed in accordance with the requirements of Ontario Regulation (O. Reg.) 153/04 (as amended).

Authorization to proceed with this Phase One ESA was awarded by Mr. Kirk Lloyd (Senior Vice President, Finance) of Arch on August 5, 2021. RiskCheck understands that the Client requires this Phase One ESA for due diligence purposes in support of their submission of a site plan application to The City of Ottawa as part of the proposed development of the Phase One Property.

The Phase One Property appeared to be irregular in shape and comprised a total area of approximately 2.01 hectares (4.97 acres). The Phase One Property information is presented in the following table:

Municipal Address	Property Identification Number (PIN)	Approximate Total Land Area	Legal Description
1161 Old Montreal Road, Ottawa, Ontario	Part of 14530-0473 (Division from PINs 14530-0418, 14530-0416 and 14530-0013)	2.01 hectares (4.97 acres)	Registered Plan 4R24727, Part of Part 1, Part of Lot 28 Concession 1 (Old Survey), Cumberland, City of Ottawa

The geographic coordinates of the Phase One Property and the ownership and contact details are presented in the following table:

Phase One Property Information	Detail/Description
Geographical References (UTM Coordinate system)	Datum: NAD 83 Zone: 18 Easting: 463,357.00, Northing: 5,038,152.00
Client	Arch Corporation
Property Owner(s)	DTOC II Ottawa Facility Inc.
Contact Name of the Owners and Client	Mr. Ben Villani (Vice President, Development) and Mr. Kirk Lloyd (Senior Vice President, Finance)
Contact Address of the Owners and Client	TD Canada Trust Tower Brookfield Place 161 Bay Street, Suite 2100 Toronto, Ontario, Canada M5J 2S1

The Subject Property consisted of a vacant land, generally covered with vegetation (i.e., primarily grass-covered) with overgrown grass, shrubs, and trees along the east and southeast boundaries of the Phase One Property. There were no buildings or structures on the Phase One Property at the time of the site visit.

Based on the findings of the Phase One ESA, there were no potentially contaminating activities (PCAs) that resulted in areas of potential environmental concern (APECs) at the Phase One Property at this time.

A Phase Two ESA is not recommended for the Phase One Property at this time.

At the time of issuance of this report, a response had not been received from the Ontario Ministry of the Environment, Conservation and Parks (MECP) Freedom of Information and Privacy Office regarding a search of their records for any pertinent information on the Phase One Property. Should further information be received which alters the conclusions of this report, an addendum will be forwarded to the Client.

The statements made here in the Executive Summary are subject to the same limitations outlined in Section 9. - *Limitations* and are to be read in conjunction with the remainder of the Phase One ESA report.



TABLE OF CONTENTS

	Page No.
1. INTRODUCTION	1
1.1. Phase One Property Information	1
2. SCOPE OF INVESTIGATION	2
3. RECORDS REVIEW	3
3.1. General.....	3
3.1.1. Phase One Study Area Determination	3
3.1.2. First Developed Use Determination.....	3
3.1.3. Fire Insurance Plans	4
3.1.4. Chain of Title	4
3.1.5. City Directories.....	5
3.1.6. Environmental Reports and Documents.....	6
3.2. Environmental Source Information	14
3.2.1. ERIS Report.....	16
3.2.2. Opta Records.....	17
3.2.3. Technical Standards and Safety Authority	17
3.2.4. Ontario Ministry of the Environment, Conservation and Parks.....	17
3.2.5. City of Ottawa Historic Land Use Inventory.....	17
3.3. Physical Setting Sources.....	18
3.3.1. Aerial Photographs.....	18
3.3.2. Topography, Hydrology and Geology	19
3.3.3. Fill Materials.....	21
3.3.4. Water Bodies and Areas of Natural Significance	21
3.3.5. Well Records	22
3.4. Site Operating Records	22
4. INTERVIEWS	22
4.1. Property Representatives	22
4.1.1. RiskCheck Pre-Assessment Questionnaire.....	22
4.1.2. Interviews.....	22
5. SITE RECONNAISSANCE.....	23
5.1. General.....	23
5.2. Specific Observations at the Phase One Property	23
5.2.1. Building Details, Structures, and Surface Features	23
5.2.2. Fill Materials and Debris	23
5.2.3. Asbestos	23
5.2.4. Urea Formaldehyde Foam Insulation.....	23
5.2.5. Polychlorinated Biphenyls.....	24
5.2.6. Lead.....	24
5.2.7. Ozone Depleting Substances.....	24
5.2.8. Mould.....	24



5.2.9.	Fuel and Chemical Storage Tanks	24
5.2.10.	Hydraulic Equipment and Oil Reservoirs	24
5.2.11.	Air Emissions	24
5.2.12.	Chemicals and Other Unidentified Substances.....	25
5.2.13.	Waste Management.....	25
5.2.14.	Water and Wastewater Management	25
5.2.15.	Sumps, Pits and Below Grade Structures.....	25
5.2.16.	Water and Wastewater Equipment	25
5.2.17.	Wells.....	25
5.2.18.	Spill and Stained Areas.....	26
5.2.19.	Subsurface Structures and Utilities.....	26
5.2.20.	Radon	26
5.2.21.	Surrounding Land Use.....	27
5.3.	Enhanced Investigation Property.....	27
5.4.	Written Description of Investigation	27
6.	REVIEW AND EVALUATION OF INFORMATION	28
6.1.	Current and Past Uses of the Phase One Property	28
6.2.	Current and Past Uses of the Neighbouring Properties.....	30
6.3.	Potentially Contaminating Activity	32
6.4.	Areas of Potential Environmental Concern.....	35
6.5.	Phase One Conceptual Site Model.....	35
7.	CONCLUSIONS AND RECOMMENDATIONS	43
7.1.	Record of Site Condition Based on a Phase One ESA Alone	43
7.2.	Whether Phase Two ESA Required Before Record of Site Condition Submitted	43
7.3.	Signatures.....	44
8.	REFERENCES	45
9.	LIMITATIONS	48
10.	QUALIFICATIONS OF ASSESSORS.....	49

LIST OF APPENDICES

Appendix A	– Figures
Appendix B	– Plan of Survey
Appendix C	– Chain of Title
Appendix D	– ERIS Report
Appendix E	– Regulatory Responses
Appendix F	– Aerial Photographs
Appendix G	– Photographs
Appendix H	– Limitations, Terms and Conditions of Retainer



LIST OF FIGURES

- Figure No. 1 – Location Plan
- Figure No. 2 – Phase One Study Area and Land Use Plan
- Figure No. 3 – Site and Surrounding Land Use Plan and Offsite Potentially Contaminating Activities PCAs that do not contribute to Areas of Potential Environmental Concern (APECs)
- Figure No. 4 – Detailed Site and Surrounding Land Use Plan and Onsite PCAs that do not contribute to APECs



1. INTRODUCTION

RiskCheck Environmental Ltd. (RiskCheck) was retained by Arch Corporation (Arch), herein also referred to as the “Client”, to carry out a Phase One Environmental Site Assessment (ESA) of the vacant land, located on the north side of Old Montreal Road and the east side of Famille-Laporte Avenue in Ottawa (in the former Township of Cumberland), Ontario (hereafter referred to as the “Subject Property” or “Phase One Property”). The Phase One ESA was completed in accordance with the requirements of Ontario Regulation (O. Reg.) 153/04 (as amended).

Authorization to proceed with this Phase One ESA was awarded by Mr. Kirk Lloyd (Senior Vice President, Finance) of Arch on August 5, 2021. RiskCheck understands that the Client requires this Phase One ESA for due diligence purposes in support of their submission of a site plan application to The City of Ottawa as part of the proposed development of the Phase One Property.

1.1. Phase One Property Information

The Subject Property was located on the north side of Old Montreal Road and the east side of Famille-Laporte Avenue in Ottawa, Ontario.

The Phase One Property appeared to be irregular in shape and comprised a total area of approximately 2.01 hectares (4.97 acres). The Phase One Property information is presented in the following table:

Municipal Address	Property Identification Number (PIN)	Approximate Total Land Area	Legal Description
1161 Old Montreal Road, Ottawa, Ontario	Part of 14530-0473 (Division from PINs 14530-0418, 14530-0416 and 14530-0013)	2.01 hectares (4.97 acres)	Registered Plan 4R24727, Part of Part 1, Part of Lot 28 Concession 1 (Old Survey), Cumberland, City of Ottawa

The geographic coordinates of the Phase One Property and the ownership and contact details are presented in the following table:

Phase One Property Information	Detail/Description
Geographical References (UTM Coordinate system)	Datum: NAD 83 Zone: 18 Easting: 463,357.00, Northing: 5,038,152.00
Client	Arch Corporation
Property Owner(s)	DTOC II Ottawa Facility Inc.
Contact Name of the Owners and Client	Mr. Ben Villani (Vice President, Development) and Mr. Kirk Lloyd (Senior Vice President, Finance)
Contact Address of the Owners and Client	TD Canada Trust Tower Brookfield Place 161 Bay Street, Suite 2100 Toronto, Ontario, Canada M5J 2S1

At the time of the site visit, the Subject Property consisted of a vacant land, generally covered with vegetation (i.e., primarily grass-covered) with overgrown grass, shrubs, and trees along the east and

southeast boundaries of the Phase One Property. There were no buildings or structures on the Phase One Property at the time of the site visit.

Based on discussions with the Client, RiskCheck understands that the proposed future land use of the Phase One Property will be a senior/assisted living facility (residential) and will consist of a four (4) storey building with a partial basement. Parking and access lanes will be present to the north, east, and south of the proposed building.

The Subject Property was bounded to the north, east, and south by residential properties and to the west (across Famille-Laporte Avenue) by residential properties and an institutional property (Capital City Church).

A location plan, including a depiction of the Phase One Study Area (i.e., defined as within approximately 250 m from the boundaries of the Phase One Property) and topographic information is presented as Figure No. 1 in Appendix A. A Phase One Study Area and Land Use Plan is presented as Figure No. 2 in Appendix A. A current plan of survey showing the Phase One Property is included in Appendix B.

2. SCOPE OF INVESTIGATION

The Phase One ESA was completed in accordance with the requirements of the Ontario Regulation (O. Reg.) 153/04 (as amended). The scope of this Phase One ESA consisted of the following:

- i. Review of historical records (where reasonably available) for the Subject Property and neighbouring properties including available previous environmental reports (provided by the Client), city directories, fire insurance plans (FIPs) and aerial photographs to evaluate the current environmental condition at the Subject Property;
- ii. Review of a historical title search for the Subject Property;
- iii. Assess the physical setting of the Subject Property and environs using reasonably available topographic and physiographic maps, and geological and hydrogeological information;
- iv. Review of an Environmental Risk Information Services Ltd. (ERIS) report for the Subject Property and surrounding properties;
- v. Review of available property underwriters' plans, property underwriters' reports and other available records from Opta Information Intelligence (Opta) for the Subject Property;
- vi. Contacting municipal and provincial agencies to determine the existence of any records for the Subject Property regarding environmental regulatory non-compliance or environmental impacts;
- vii. Conducting interviews with personnel knowledgeable about the Subject Property and its history;
- viii. Complete a site visit to assess the current environmental condition of the Subject Property and a visual assessment of the surrounding properties (where visible from the Subject Property and/or publicly accessible areas); and,
- ix. Complete a report and provide recommendations for further actions or investigations, if any.

For the purposes of this investigation, the Phase One Study Area was generally defined as a radius of approximately 250 m from the Subject Property boundaries and the above noted resources were consulted up to the maximum extent of the Phase One Study Area (see Figure Nos. 1, 2 and 3 in Appendix A).

A Phase One ESA does not include any intrusive testing and/or laboratory analysis of site conditions, and no intrusive testing and/or laboratory analysis of site conditions was authorized under this Phase One ESA scope of work.

3. RECORDS REVIEW

3.1. General

A historical review was undertaken to assess potential environmental impacts from prior use of the Subject Property and neighbouring properties. RiskCheck conducted a review of records and files including computer databases, city directories, chain of title, previous environmental reports, FIPs, and aerial photographs (where reasonably available or as provided by the Client through previous environmental reports). RiskCheck also contacted the Technical Standards & Safety Authority (TSSA), Opta, ERIS, the City of Ottawa Historic Land Use Inventory and the Ontario Ministry of the Environment, Conservation and Parks (MECP) Freedom of Information and Privacy Office regarding the Subject Property.

3.1.1. Phase One Study Area Determination

The Phase One Study Area consisted of the Phase One Property and other surrounding properties located within approximately 250 m from the nearest point on the Phase One Property boundary. The Phase One Study Area was noted to include single-family residential dwellings to the north, east, and south, single-family residential dwellings and an institutional property to the west, and commercial properties further to the north. RiskCheck has determined that the extents of the Phase One Study Area noted above is adequate for this Phase One ESA and it is our opinion that other properties beyond the Phase One Study Area would not result in any Area of Potential Environmental Concern (APEC) on the Phase One Property.

3.1.2. First Developed Use Determination

Based on a review of the available historical records including aerial photographs, city directories and chain of title, the Phase One Property was historically associated with the neighbouring institutional property (Capital City Church) from approximately 2001 to approximately 2020 and was formerly one land parcel that included the neighbouring property to the west (across Famille-Laporte Avenue) at 1123 Old Montreal Road (former municipal address included 1123-1161 Old Montreal Road). The neighbouring property at 1123 Old Montreal Road has been occupied by a church since approximately the mid-2000s, and a former dirt/gravel parking lot utilized for this neighbouring church was noted to occupy a small portion of the Phase One Property (west portion), from approximately the mid-2000s to 2014. According to a review of the title records (see Section 3.1.4), the land parcel was separated (i.e., the Phase One Property was separated from the neighbouring property at 1123 Old Montreal Road) in approximately the early 2010s. Famille-Laporte Avenue to the west of the Phase One Property was developed in approximately 2015. The Phase One Property remained under the ownership of Capital City Church Properties until approximately 2020 according to a review of the title records. A dog training park was located on the north portion of the Phase One Property from approximately the late 2000s to the mid-2010s and on the south portion of the Phase One Property from approximately the mid-2010s to 2017. Other than the small west portion of the Phase One Property formerly occupied by the dirt/gravel parking lot for the neighbouring church and the former dog training park located on the north portion and

subsequently, the south portion, the Phase One Property has always appeared to have been agricultural or undeveloped land.

3.1.3. Fire Insurance Plans

The Phase One Study Area was not listed in the Catalogue of Canadian Fire Insurance Plans 1875-1975 published by the Association of Canadian Map Libraries and Archives, 2002.

A previous search of FIPs maintained at the Toronto Reference Library and the City of Ottawa Archives indicated no FIPs for the Phase One Study Area were available for review.

3.1.4. Chain of Title

Title records for the Phase One Property were extracted from previous environmental investigations (see Section 3.1.6) including the 2018 RiskCheck Phase One ESA (for the Subject Property). In addition, title records were obtained through ONLAND (Land Registry Office 4: Ottawa-Carleton) on August 19, 2021, by RiskCheck.

According to a review of the title records noted above the Phase One Property was formerly a part of 1123 Old Montreal Road which included former municipal addresses of 1123 Old Montreal Road and 1161 Old Montreal Road. A summary of the findings of the chain of title for the Phase One Property is provided in the following table:

Name(s) of the Owner(s)	Date(s) of Ownership	Comments
Crown	May 28, 1830	Assumed to be agricultural or other use.
Matilda Cozena	May 1830 to 1847	
Benjamin Cozena	Unknown – records were noted to be poor. Presumed to be from approximately 1847 to 1852.	
Unknown – records were noted to be poor. Assumed to individual owners	1852 to January 1860	
William Sache	January 1860 to June 1878	
Honoré Cotte	June 1878 to June 1883	
Frances Warren	June 1883 to December 1885	
Isadore Cardinal	December 1885 to February 28, 1907	
Maria Louisa Cardinal, wife of Alderic Cardinal (deceased)	February 28, 1907 to January 11, 1962	
Elsett Realty Company Limited	January 11, 1962 to October 31, 2001	
Word Life Church (Ottawa/Hull)	October 31, 2001 to February 14, 2013	

Name(s) of the Owner(s)	Date(s) of Ownership	Comments
		when the City of Ottawa acquired the land between the Phase One Property and the neighbouring property at 1123 Old Montreal Road, for the purposes of developing Famille-Laporte Avenue, and thus, severing the two parcels (i.e., 1123 Old Montreal Road and the Phase One Property).
Capital City Church (Canada)	February 14, 2013 to May 27, 2016	The Phase One Property was assumed to be a vacant land with a dog park and the property at 1123 Old Montreal Road was assumed to be occupied by the church. The Subject Property was noted as a parkland (i.e., dog training park). An easement was noted in 2015 for Hydro One Networks which is assumed to be associated with a buried electrical utility line (Hydro One) that runs adjacent to the west of the Phase One Property Boundary, generally in a north-south direction.
Capital City Church Properties	May 27, 2016 to May 29, 2020	PINS: 14530-0473 (Division from PINs 14530-0418, 14530-0416 and 14530-0013). The Phase One Property was assumed to be a vacant land with a dog park and the property at 1123 Old Montreal Road was assumed to be occupied by the Church (as noted today). The Subject Property was noted as a parkland (i.e., dog training park).
DTOC II Ottawa Facility Inc.	May 29, 2020 to the present	Phase One Property

A copy of the chain of title records is included in Appendix C.

3.1.5. City Directories

The city directories at the Toronto Reference Library were previously accessed for the Subject Property and the immediate adjacent/neighbouring properties and were reviewed for this Phase One ESA. RiskCheck reviewed selected years in the available city directories for the Phase One Property and the adjacent/neighbouring properties generally between 1981 and 2011.

The Subject Property was not listed in the city directories reviewed.

The neighbouring properties to the north, east and west of the subject property were not developed until the mid-2010s and were not listed in the city directories reviewed. The majority of the listings along Old Montreal Road were noted to be residential from approximately the early 2000s to 2011.

The following pertinent findings were noted for the surrounding properties in the city directories reviewed:

- The neighbouring property approximately 20 m to the west of the Phase One Property at 1123 Old Montreal Road was listed as Capital City Church from approximately the mid-2000s to 2011;
- The neighbouring property located approximately 260 m to the north of the Phase One Property at 455 Famille-Laporte Avenue (former municipal address of 1211 Old Montreal Road), which included lands within the Phase One Study Area, was listed as J.A. Laporte Flowers and Nursery in approximately the mid-2000s;
- The neighbouring property located approximately 100 m to the southwest of the Phase One Property (across Famille-Laporte Avenue) at 1105 Old Montreal Road was listed as Stepping Stones Foster Care Inc. in approximately the mid-2000s;
- The neighbouring property located approximately 95 m to the east of the Phase One Property at the former municipal address of 1213 Old Montreal Road (presumed current municipal addresses of 624-656 and 633-671 Cartographe Street) was listed as Exterior Dreams Landscaping in approximately 2011; and
- The neighbouring property located approximately 205 m to the southwest of the Phase One Property (across Old Montreal Road and Famille-Laporte Avenue) at 1108 Old Montreal Road was listed as Solutions Educa-Logik in approximately the mid-2000s.

Based on a review of the available records, Old Montreal Road was formerly noted as Queen Street or Regional Road 34 prior to the early 2000s. No addresses related to Queen Street or Regional Road 34 were noted within the Phase One Study Area.

There were no other pertinent findings noted in the city directories reviewed.

3.1.6. Environmental Reports and Documents

RiskCheck requested the Client to provide any previous environmental reports for the Phase One Property and was provided with the following environmental reports for the Phase One Property and reports completed within the Phase One Study Area:

- ✓ *“Phase I – Environmental Site Assessment, Proposed Cardinal Creek Village Subdivision Lands, Old Montreal Road, Ottawa (Cumberland), Ontario”* report, prepared by Paterson Group Inc. (PGI) for Taggart Group of Companies, dated November 7, 2012;
- ✓ *“Phase I Environmental Site Assessment, 1154, 1172, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario”* report, prepared by exp Services Inc. (EXP) for DCR/Phoenix Group of Companies, dated August 19, 2016;
- ✓ *“Phase II Environmental Site Assessment, 1208 Old Montreal Road, Ottawa, Ontario”* report, prepared by EXP for DCR/Phoenix Group of Companies, dated September 13, 2016;
- ✓ *“Phase One Environmental Site Assessment, Vacant Land, North of Old Montreal Road, Ottawa, Ontario”* report, prepared by RiskCheck for Arch, dated September 19, 2018; and

- ✓ “Phase Two Environmental Site Assessment, Vacant Land, North of Old Montreal Road, Ottawa, Ontario” report, prepared by RiskCheck for Arch, dated November 16, 2018.

In addition, the following supporting documentation also provided by the Client, were reviewed only to obtain any pertinent information that would assist in assessing the current environmental condition of the Phase One Property:

- ✓ “Existing Conditions Report: Hydrogeology, Cardinal Creek Village, Ottawa (Cumberland), Ontario” report, prepared by PGI for Tamarack (Queen Street) Corporation, dated December 13, 2012, and updated June 28, 2013;
- ✓ “Geotechnical Investigation, Proposed Cardinal Creek Village, Residential/Commercial Development, Old Montreal Road, Ottawa, Ontario” report prepared by PGI for Tamarack (Queen Street) Corporation, dated July 16, 2013;
- ✓ “Preliminary Geotechnical Investigation, Proposed Residential Subdivision, 1154-1208 Old Montreal Road, Ottawa (Formerly Township of Cumberland), Ontario” report, prepared by EXP for DCR/Phoenix Group of Companies, dated November 7, 2016;
- ✓ “Desktop Hydrogeological Study, 1208 Old Montreal Road, Ottawa, Ontario” report, prepared by EXP for Michael Boucher (Manager of Planning) of Phoenix Homes, dated January 30, 2018;
- ✓ “Preliminary Geotechnical Investigation, Vacant Property, North of Old Montreal Road and East of Famille-Laporte Avenue, Ottawa, Ontario” report, prepared by RiskCheck for Arch, dated September 19, 2018; and
- ✓ “Geotechnical Investigation, Proposed Four (4) Storey Long Term Care. Old Montreal Road and Famille-Laporte Avenue, Ottawa, Ontario” report, prepared by LRL Associates Ltd. (LRL) for Arch, dated October 2021.

While RiskCheck has reviewed the above noted previous environmental reports, not all information from these reports is reproduced here, unless required to resolve previously identified issues of potential environmental concern.

2012 PGI Phase I ESA report

PGI was retained by Taggart Group of Companies to conduct a Phase I ESA at the Cardinal Creek Village subdivision lands (consisting of properties with the former municipal addresses of 1079 to 1422 Old Montreal Road and 1313 to 1325 Grand-Chêne Court) and additional land with no municipal address(es) in Lots 25, 26, and 27, Concession 1, in the City of Ottawa (formerly township of Cumberland), herein referred to as “the 2012 PGI Site” for the purposes of this summary.

A review of historical records indicated that the properties under investigation had been (generally) vacant or utilized for agricultural purposes, with several residential dwellings along Old Montreal Road and farmstead buildings at 1291 Old Montreal Road (noted to be located further to the east outside of the Phase One Study Area), since at least 1949. At the time of PGI’s site visit, the Word of Life Church was noted to be present at 1123-1161 Old Montreal Road (currently 1123 Old Montreal Road, located

approximately 20 m to the west of the Phase One Property) and Laporte Flowers and Nursery was present at 1211 Old Montreal Road (currently 455 Famille-Laporte Avenue, located approximately 260 m to the north/northeast of the Phase One Property) which included land within the Phase One Study Area to the east and northeast of the Phase One Property.

Geotechnical investigations were conducted by PGI in 2009 and 2010 at the 2012 PGI Site (with the exception of the Laporte Nursery property and the single-family residential properties). No signs of environmental contamination or deleterious fill materials were reportedly observed during the geotechnical investigations.

The residential dwellings at 1291 Old Montreal were believed to be serviced by a private water well. Other private water wells were suspected to be located on the 2012 PGI Site.

It was PGI's opinion that no Phase II ESA was required for the 2012 PGI Site at the time of the investigation.

RiskCheck notes that the 2012 PGI Phase I ESA was completed on various properties which included the Phase One Property and neighbouring properties within the Phase One Study Area. The Word of Life Church that was noted to be present at 1123-1161 Old Montreal Road is suspected to be the current Capital City Church on the neighbouring property at 1123 Old Montreal Road (approximately 20 m to the west of the Subject Property across Famille-Laporte Avenue) noted at the time of RiskCheck's site visit. RiskCheck notes that Laporte Flowers and Nursery was located outside of the Phase One Study Area at 455 Famille-Laporte Avenue (approximately 260 m to the north/northeast of the Phase One Property) at the time of RiskCheck's site visit; however, based on a review of available aerial photographs (see Section 3.3.1.), it appeared that the land adjacent to the east of the Phase One Property was graded and select portions of this land may have been formerly utilized as agricultural land for Laporte Flowers and Nursery (i.e. nursery land) from approximately the mid-1960s to the early 2010s.

2012 (Updated 2013) PGI Hydrogeology report

PGI was retained by Tamarack (Queen Street) Corporation to complete an existing conditions assessment (from a hydrogeological perspective) for the (at the time, proposed) residential development to be located along Old Montreal Road (i.e., Cardinal Creek Village subdivision) and herein referred to as "the Hydrogeology Site" for the purposes of this summary. PGI was noted to complete a concurrent geotechnical investigation with this hydrogeology report (see 2013 PGI Geotechnical Investigation summarized below).

Surficial soils at the Hydrogeology Site were noted to generally consist of silty clay and glacial till (comprised of a heterogenous mixture of gravel, sandy silt and clay, and containing significant clay content). Overburden thickness across the Hydrogeology Site was noted to generally range between 1 m and greater than 10 m across the study area. It was noted that the surficial drainage and shallow overburden groundwater flowed generally to the north/northeast towards the Ottawa River, or towards Cardinal Creek, which drains into the Ottawa River.

An upper bedrock aquifer was reportedly present at depths between 12 m below ground surface (mbgs) and 20 mbgs. A lower aquifer was reportedly present between approximately 26 mbgs and more than 99 mbgs. Shallow and/or exposed bedrock was noted in an isolated area (further to the southeast outside

of the Phase One Study Area) and noted with less than 2 m of overburden cover. This was the only noted area to be mapped as high aquifer vulnerability.

The in-situ saturated hydraulic conductivity was noted to be 10^{-6} to 10^{-8} cm/second, 10^{-5} to 10^{-6} cm/second and 10^0 to 10^{-7} cm/second in the silty clay, glacial till and carbonate bedrock, respectively.

2013 PGI Geotechnical Investigation

PGI was retained by Tamarack (Queen Street) Corporation to complete a Geotechnical Investigation for the (at the time, proposed) residential development to be located along Old Montreal Road (i.e., Cardinal Creek Village subdivision) and herein referred to as “the Geotechnical Site” for the purposes of this summary.

PGI noted that investigating the presence or potential presence of contamination at the Geotechnical Site was outside of the scope of work for this investigation. The original field investigation was completed in 2009, which involved advancing 21 boreholes to depths ranging between approximately 0.7 mbgs to 9.8 mbgs. In 2012 and 2013, 86 additional boreholes were advanced ranging from depths between approximately 1.5 mbgs to 15.5 mbgs. Piezometers and/or monitoring wells were installed in the majority of the advanced boreholes. Based on a review of the appended soil profile and test data (logs), approximately 58 test pits were also completed.

RiskCheck notes that the 2013 PGI Geotechnical Investigation was completed on various properties which included the Subject Property and neighbouring properties within the Phase One Study Area. Based on a review of the Site Plans attached to the end of the 2013 PGI Geotechnical Report, it appeared that three (3) boreholes (BH16, BH1-12 and BH3-12) and one (1) test pit (TP 35-12) were advanced on (or in very close vicinity to) the Phase One Property as follows:

- BH16, located on the northeast portion of the Phase One Property;
- BH1-12, located on Famille-Laporte Avenue (adjacent to the west of the Phase One Property);
- BH3-12, located on the northwest portion of the Phase One Property; and,
- TP 35-12, located on the southeast portion of the Phase One Property.

Based on RiskCheck’s review of the borehole/test pit logs from the 2013 PGI Geotechnical Report, the soil stratigraphy below the surficial topsoil in BH16, BH3-12 and TP 35-12 (with a thickness ranging from approximately 0.20 mbgs to 0.33 mbgs) can generally be described as silty clay in BH16, BH1-12, BH3-12 and TP 35-12 to a maximum depth of approximate 9.45 mbgs (in BH1-12), followed by Glacial Till (consisting of silty clay with sand, gravel, cobbles and boulders) in BH16 and BH3-12 to a maximum depth of approximately 9.75 mbgs (in BH16). No bedrock was encountered within BH16, BH1-12, BH3-12 and TP 35-12; however, it was noted that “practical refusal to augering” was encountered at approximately 8.02 mbgs in BH3-12.

Grey soil conditions were encountered within BH16, BH1-12 and BH3-12 at depths ranging from approximately 4.0 mbgs to 4.3 mbgs, and in TP 35-12 at a depth of approximately 2.4 mbgs. Piezometers were noted to be installed in BH16, BH1-12 and BH3-12. Groundwater levels were noted at 0.50 mbgs (in BH16), 6.75 mbgs (in BH1-12) and 0.43 mbgs (in BH3-12).

2016 EXP Phase I ESA report

EXP was retained by DCR/Phoenix Group of Companies, to complete a Phase I ESA for the properties located at 1154, 1172, 1176, 1180 and 1208 Old Montreal Road in Ottawa, Ontario (located on the south side of Old Montreal Road, south and southeast of the Phase One Property). These properties are herein referred to as “the Phase I Site” for the purposes of this summary.

Each of the properties at 1154, 1172, 1176 and 1180 Old Montreal Road were noted to be occupied by single-family residential dwellings with various sheds and parking garages. The remaining portion of the Phase I Site (i.e., 1208 Old Montreal Road) was described as a farm and consisted of a farmhouse and several barns and sheds in the northeast corner of the Phase I Site, an unused farm field in the central portion of the Phase I Site, a communications tower on the eastern portion of the Phase I Site and utilized agricultural lands on the southern portion (which was leased to a farmer).

Heating oil tanks (aboveground storage tanks (ASTs)) were reportedly located in the basements of the residential dwelling and the farmhouse, located at 1180 Old Montreal Road and 1208 Old Montreal Road, respectively. In addition, it was reported that a former heating oil tank was located in the basement of the residential dwelling located at 1176 Old Montreal Road (which was recently converted to propane). The residential dwellings at 1154 and 1172 Old Montreal Road were reportedly heated by electricity (and a wood stove at 1172 Old Montreal Road). There were no issues reported with any of the current/historical heating oil tanks at the Phase I Site.

A former AST containing fuel oil (diesel) reportedly utilized to refuel farm vehicles, was located in the loft of a barn near the old farmhouse at 1208 Old Montreal Road. The ground surface in the vicinity of the AST was noted to be gravel. A Phase II ESA was recommended to assess the potential environmental concerns (i.e., potential spillage) associated with this fuel (diesel) AST.

2016 EXP Phase II ESA report

EXP was retained by DCR/Phoenix Group of Companies to complete a Phase II ESA for the property located at 1208 Old Montreal Road (located approximately 80 m to the southeast of the Phase One Property) in Ottawa, Ontario and herein referred to as “the Phase II Site” for the purposes of this summary.

The Phase II ESA consisted of drilling ten (10) boreholes at the Phase II Site (BH7, BH7A, BH7B, BH7C, BH8, BH9, BH10, BH11, BH12 and BH13), eight (8) completed at monitoring wells (BH7, BH7B, and BH8 to BH13), to a maximum depth of 8.23 mbgs. Soil and groundwater samples were submitted for laboratory analysis of Petroleum Hydrocarbon (PHC) Fractions F1 to F4 (F1-F4) and Benzene, Toluene, Ethylbenzene and Xylene (BTEX) and were compared to the Ministry of the Environment, Conservation and Parks (MECP) Table 2 Standards for residential land use and medium/fine textured soils (MECP Table 2 Standards).

Concentrations of one or more of PHC F1 and BTEX were noted to exceed the applicable MECP Table 2 Standards in soil samples BH7-SS4 and BH7-SS5 (from BH7, in the dispensing area of the former fuel AST) at depths ranging from approximately 3.1 mbgs to 3.7 mbgs and 4.6 mbgs to 5.2 mbgs, respectively, and in soil samples BH7A-SS3 (from borehole BH7A at a depth of approximately 2.3 mbgs to 2.9 mbgs) and BH7C-SS3 (from borehole BH7C at a depth of approximately 2.3 mbgs to 2.9 mbgs). In addition, concentrations of BTEX were noted to exceed the MECP Table 2 Standards in the groundwater sample

obtained from the monitoring well in BH7. The PHC and BTEX impacted soil and groundwater was noted to be located at the southeast portion of the Phase II Site.

Groundwater was encountered at depths ranging between approximately 1.34 mbgs to 5.90 mbgs. Based on the observed groundwater levels, groundwater was inferred to flow to the northwest.

Based on RiskCheck's review of the 2016 EXP Phase II ESA, it appeared that delineation was achieved for the impacted soil and groundwater noted at 1208 Old Montreal Road and that there was no offsite migration of the identified petroleum impacts on this neighbouring property. In addition, it appeared that the impacted soil and groundwater was located approximately 120 m to the southeast of the Phase One Property.

2018 RiskCheck Phase One ESA report

RiskCheck was retained by Arch to conduct a Phase One ESA at the Subject Property in 2018. As part of the Phase One ESA, RiskCheck reviewed the above noted reports and additional historical records associated with the Subject Property.

As part of the 2018 RiskCheck Phase One ESA, Pastor Mike Welch of Capital City Church Properties (i.e., the previous owner of the Phase One Property) was interviewed on past and present environmental issues at the Phase One Property. Mr. Welch had been familiar with the Phase One Property since approximately 2001.

Mr. Welch indicated that the Phase One Property (and 1123 Old Montreal Road) was acquired in approximately 2001 by Capital City Church Properties. It was noted that the Phase One Property was formerly one land parcel that included the neighbouring property to the west (across Famille-Laporte Avenue) at 1123 Old Montreal Road. The neighbouring property at 1123 Old Montreal Road has been occupied by a Church from approximately 2005 to the present, and the former dirt/gravel parking lot utilized for the church occupied a small west portion of the Phase One Property from approximately 2005 to 2014. In approximately the early 2010s, the land parcel was separated (i.e., the Phase One Property was separated from the neighbouring property at 1123 Old Montreal Road), and Famille-Laporte Avenue was constructed in approximately 2015.

The Phase One Property was reportedly utilized as a dog training park from approximately 2008 to 2017. In addition, the developers (Taggart Construction Limited) of the Cardinal Creek Village subdivision utilized the Phase One Property to store scrap wood during subdivision development activities in approximately 2015 and 2016. It is assumed that the wood storage was primarily for untreated wood products, however, is likely that limited quantities of pressure treated wood products (i.e., fencing) would have been stored on the Phase One Property. Prior to 2001, the Phase One Property was reportedly owned as vacant agricultural (farm) land with no buildings for 47 years.

In approximately 2009, an estimated "200 loads" (assumed to be truckloads) of clay fill materials were placed on the south/southeast portions of the Phase One Property. It was reported that a contractor (AA Manning Construction) was responsible for bringing the clay fill materials to the Phase One Property; however, no contact information for this contractor was provided and the source of reported the fill materials was unknown. It was believed that this contractor is no longer in business. A berm consisting of topsoil formerly utilized by the Church in their parking lot (formerly located on the current Famille-

Laporte Avenue) was placed on the south/southeast portion of the Phase One Property (over the clay fill materials) and graded.

Based on the available information, RiskCheck identified the following potentially contaminating activities (PCAs) within the Phase One Study Area resulting in an area of potential environmental concern (APEC) on the Subject Property. The PCAs identified by RiskCheck that contributed to an APEC on the Subject Property are presented in the following table:

Potentially Contaminating Activity (PCAs) ¹	Location of PCA (on-site or off-site)	Description
PCA 30 – Importation of Fill Material of Unknown Quality	On-Site	Based on interviews with the site representative, an estimated “200 loads” of clay fill materials were reportedly historically placed on south/southeast portion of the Subject Property. In addition, a berm consisting of topsoil formerly utilized on the parking lot of neighbouring property approximately 20 m to the west of the Subject Property at 1123 Old Montreal Road was reportedly historically placed on the south/southeast portion of the Subject Property and graded (over the clay fill materials). The quality of the fill material and topsoil is unknown at this time. The above PCA contributed to an APEC on the south/southeast portion of the Subject Property.

Notes: 1 – PCA obtained from Table 2, Schedule D of O. Reg. 153/04 (as amended)

RiskCheck recommended a Phase Two ESA be completed at the Subject Property to assess the subsurface conditions based on the above noted PCA and associated APEC. PCAs and associated APECs and contaminants of potential concern (CoPC) that were identified as part of the Phase One ESA are presented in the table below:

"Table of areas of potential environmental concern" (Refer to clause 16(2)(a), Schedule D, O. Reg. 153/04)

APEC ¹	Location of APEC on the Phase One Property	PCAs ²	Location of PCA (on-site or off-site)	Contaminants of Potential Concern (CoPC) ³	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC-1	South and southeast portion of the Subject Property	PCA 30 – Importation of Fill Material of Unknown Quality	On-site	PHCs and BTEX, polycyclic aromatic hydrocarbons (PAHs) and Metals and Inorganics including Arsenic, Antimony, Selenium, Hot Water Soluble Boron, Chromium VI and Mercury, Cyanide, low and high pH, Electrical Conductivity (EC), Sodium Adsorption Ratio (SAR)	Soil and Groundwater

Notes: 1 - Areas of potential environmental concern means the area on, in or under a Phase One Property where one or more contaminants are potentially present, as determined through the Phase One Environmental Site Assessment, including through; (a) identification of past or present uses on, in or under the Phase One Property, and (b) identification of potentially contaminating activity.
2 - Potentially Contaminating Activity (PCA) means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a Phase One Study Area
3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:



List of Method Groups

ABNs	PCBs	Metals	Electrical Conductivity
CPs	PAHs	AS, Sb, Se	Cr (VI)
1,4-Dioxane	THMs	Na	Hg
Dioxins/Furans, PCDDs/PCDFs	VOCs	B-HWS	Methyl Mercury
OCs	BTEX	Cl-	Low or high pH
PHCs	Ca, Mg	CN-	SAR

2018 RiskCheck Phase Two ESA report

RiskCheck was retained by Arch to conduct a Phase Two ESA in 2018 at the Subject Property to address the APEC identified in the 2018 RiskCheck Phase One ESA report (as noted above).

RiskCheck advanced three (3) boreholes at the south and southeast portions of the Subject Property (i.e., within the APEC previously identified in the 2018 RiskCheck Phase One ESA) to a maximum depth of approximately 6.10 mbgs (20 ft). All three boreholes were equipped with monitoring wells (denoted herein as MW1, MW2 and MW3) to facilitate groundwater monitoring and sampling.

The soil samples were submitted for laboratory analysis of one or more of the identified contaminants of potential concern (CoPC) in soils noted in the 2018 RiskCheck Phase One ESA and included PHC F1 to F4/BTEX, PAHs and metals and inorganics (inclusive of pH, cobalt and vanadium) to assess the soil quality at the Subject Property. Groundwater samples were submitted for laboratory analysis of one or more of the identified CoPC in groundwater noted in the 2018 RiskCheck Phase One ESA and included PHC F1 to F4/BTEX, PAHs and selected metals and inorganics (inclusive of cobalt and vanadium) to assess the groundwater quality at the Subject Property.

Soil and groundwater samples were compared to the “*Full Depth Generic Site Condition Standards in a Potable Ground Water Condition*” from the MECP document entitled “*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*”, April 15, 2011 (herein referred to as the “MECP Table 2 Standards”) for the proposed future property use of the Subject Property (i.e., residential) for medium-fine textured soils.

RiskCheck provided the following findings based on the areas investigated:

- Groundwater was encountered at depths ranging from approximately 0.92 mbgs (in MW2) to 2.21 mbgs (in MW3);
- All soil samples met the applicable MECP Table 2 Standards with the exception of the soil samples BH1-SS6 (from borehole MW1), BH2-SS3, BH2-SS3’s field duplicate DUP-1 and BH2-SS6 (from borehole MW2), and BH3-SS1 and BH3-SS7 (from borehole MW3), which exceeded the MECP Table 2 Standards for cobalt; and soil samples BH1-SS2 and BH1-SS6 (from borehole MW1), BH2-SS3, BH2-SS3’s field duplicate DUP-1 and BH2-SS6 (from borehole MW2) and BH3-SS1 and BH3-SS7 (from borehole MW3), exceeded the MECP Table 2 Standards for vanadium;
- All groundwater samples collected for one or more of PHC F1 to F4/BTEX, PAHs and selected metals and inorganics met the MECP Table 2 Standards.

Based on a review of available records in the Ottawa area, RiskCheck noted that native clay soils associated with post-glacial Champlain Sea marine deposits commonly have elevated levels of trace metals, including barium, boron, chromium, cobalt and vanadium. A study presented at GeoOttawa 2017 for the Eastern Region of Ontario found that typical metals including cobalt and vanadium were elevated in the post-glacial Champlain Sea marine deposits. The study proposed a geo-regional background value of 35 µg/g for cobalt and 123 µg/g for vanadium. Studies indicated that natural background concentrations of vanadium could occur to a maximum concentration of 133 µg/g.

Based on the surficial geology in the Phase Two Study Area and the observed clay at the Subject Property, it was RiskCheck's opinion that the cobalt and vanadium exceedances in soil (i.e., above the MECP Table 2 Standards) are likely naturally occurring background levels and would not be associated with any anthropogenic (man-made) sources of impact. More specifically, RiskCheck notes the elevated levels of cobalt and vanadium concentrations were found in all of the boreholes completed at the Subject Property in similar concentrations ranging between 20 µg/g and 27 µg/g for cobalt in six soils samples collected and one duplicate sample and ranging between 91 µg/g and 130 µg/g for vanadium in six soils samples collected and one duplicate sample. In addition, contaminant concentration at the Subject Property in the locations investigated appeared to increase with depth or remain consistent at depth which is atypical of contamination from onsite PCAs that generally affect the surface soils and that of subsurface soils at expected lowered concentrations. Furthermore, since soil samples submitted were collected from native soils, and the concentrations were generally similar to those noted in the submitted samples from the suspected fill materials (likely mixed with imported topsoil), it is further indicative that the above noted soil exceedances are likely related to natural background levels and the fill materials may have been relocated from soil obtained in the vicinity of the Subject Property. Finally, concentrations of cobalt and vanadium in groundwater from the monitoring wells installed in borehole MW1 to MW3 were either non-detectable or significantly below the MECP Table 2 Standards.

As per the recent amendment to Ontario Regulation (O. Reg.) 153/04 (i.e., O. Reg. 407/19, filed and published on December 4, 2019), the MECP Table 2 Standards are deemed to have been met if the identified concentrations do not exceed the naturally occurring range of concentrations of that contaminant typically found within the area where the Subject Property is located. A review of the applicability of the excess soils management amendment to O. Reg. 153/04 (i.e., O. Reg. 407/19) was not completed at that time.

Based on the above and findings of the Phase Two ESA, no further investigations were recommended at that time.

3.2. Environmental Source Information

Additional environmental databases or publications were reviewed on September 21, 2021 (unless otherwise noted below) for the Phase One Property and the immediate adjacent and neighbouring properties (where applicable) as follows:

Database or Publication Name and Details	Results
MECP Hazardous Waste Information Network (HWIN) Registered Generator List (May 2021 to the present), database includes hazardous waste generators, carriers, and receivers registered with the MECP. Searched for the Phase One Property and selected surrounding properties.	The Phase One Property was formerly part of 1123 Old Montreal Road and 1161 Old Montreal Road. No records were found for 1123 or 1161 Old Montreal Road or the surrounding properties within the Phase One Study Area.
MECP Small Landfill Sites database for small active and closed landfill sites located in the vicinity of the Phase One Property. Data includes information regarding open/closed status, site owner, site location and Certificate of Approval (CofA) number.	All active and closed small landfill sites are located beyond the Phase One Study Area.
MECP Large Landfill Sites database and map for current active waste disposal sites, for the Phase One Property and surrounding properties.	All active large landfill sites according to this database are located in excess of 1 km from the Phase One Property.
RiskCheck reviewed the Environment Canada National PCB Inventory (1994 and 1998) and MECP Ontario Inventory of PCB Storage Sites (1994 to 1996, 1998 to 2000, 2003, 2004 and 2012 to 2013).	No records were found within the Phase One Study Area.
RiskCheck reviewed the Inventory of Coal Gasification Plant Waste Sites in Ontario (published in April 1987) and the Inventory of Industrial Sites Producing and Using Coal Tar and Related Tars in Ontario (published in November 1988) from the MECP.	No records were found within the Phase One Study Area.
MECP Access Environment for MECP approvals and registration information from December 1999 onward including Environmental Compliance Approvals (ECA) consisting of all Certificates of Approval (CAs) previously issued under the Environmental Protection Act (EPA) and approvals previously issued under s.53 of the Ontario Water Resources Act (OWRA), Renewable Energy Approvals (REA) and registrations on the Environmental Activity and Sector Registry (EASR). In addition, a search of Permits to Take Water (PTTW), and certificates of property use (CPUs) or other similar instruments from the MECP. Searched for the Phase One Property only.	The Phase One Property was formerly part of 1123 Old Montreal Road and 1161 Old Montreal Road. There were no pertinent records noted for 1123 Old Montreal Road or 1161 Old Montreal Road.
MECP Environmental Compliance Reports (2012 to 2019). Data includes information regarding air emissions, municipal/private sewage discharges and industrial sewer discharges that exceed limits found in legislation, environmental approvals and orders and/or policies/guidelines. Searched for the Phase One Property only.	The Phase One Property was formerly part of 1123 Old Montreal Road and 1161 Old Montreal Road. No records were found for 1123 Old Montreal Road or 1161 Old Montreal Road.
MECP Environmental Penalty Annual Reports (2008 to 2020). Data includes company name, site address, order date, violation date, description of violation, reductions to environmental penalty amount (%), and amount of environmental penalty, settlement agreement and reduction to penalty. Searched for the Phase One Property only.	The Phase One Property was formerly part of 1123 Old Montreal Road and 1161 Old Montreal Road. No records were found for 1123 Old Montreal Road or 1161 Old Montreal Road.
MECP Brownfields Environmental Site Registry including records of site conditions (RSCs) and transition notices filed from October 1, 2004, to June 30, 2011, and since July 1, 2011. Searched for the Phase One Property and surrounding properties. Searched for the Phase One Property only.	No records were found for the Phase One Property.
Natural Heritage Map, Ontario Ministry of Natural Resources and Forestry. Identification of wetlands, area of natural and scientific interest (ANSI), conservation reserves, and provincial	No ANSIs, conservation reserves, provincial parks or wetlands were identified on or adjacent to the Phase One Property or within the Phase One Study Area.



Database or Publication Name and Details	Results
parks or other significant features such as Oak Ridges Moraine and Niagara Escarpment lands.	
ERIS Report, dated August 24, 2021, for the Phase One Study Area	See ERIS summary of results below (see Section 3.2.1).
Opta Report, dated August 25, 2021	See Opta summary of results below (see Section 3.2.2)
Records of retail fuel storage tanks maintained by the Technical Standards and Safety Authority (TSSA) for the Phase One Property and selected neighbouring properties in the Phase One Study Area.	See Section 3.2.3 for details.
City of Ottawa Official Plan	No ANSIs, environmentally sensitive areas, significant woodlands, and Wetlands were identified within the Phase One Study Area.
Source Water Protection Maps and environmental sensitive areas via geoOttawa.	The Phase One Property is not located within a Wellhead Protection Area (WHPA) and no environmentally sensitive areas or wetlands were noted in the vicinity of the Phase One Property.

3.2.1. ERIS Report

The ERIS Report consists of historical environmental information compiled from governmental and private source records (including federal, provincial and private databases). The extent of historical environmental information varies with each database and current information is determined by what is available to ERIS at the time of their report preparation. The ERIS Report, including a brief description of each of the databases searched for the Phase One ESA is included in Appendix D. A summary of reportable and pertinent information associated with the Phase One Property and/or neighbouring properties is provided below.

Phase One Property

There were no pertinent findings for the Phase One Property identified in the ERIS report.

Neighbouring Properties

A relevant database entry for the adjacent/neighbouring properties located within the Phase One Study Area identified in the ERIS report is described in the following table:

Database	Address	Description	Location Relative to the Phase One Property
Ontario Spills (SPL)	1105 Old Montreal Road	- One (1) record for a spill of an unknown quantity of motor oil to a catch basin due to a motor vehicle collision/accident in 2018	Approximately 100 m to the southwest; cross-gradient

RiskCheck reviewed the other listings associated with the neighbouring properties (including unplotable records noted by ERIS) to determine issues of potential environmental concern to the Phase One Property.

It is our opinion that there were no other pertinent listings for the neighbouring properties from the review of the ERIS report.

3.2.2. Opta Records

RiskCheck initiated a search for the property underwriters' reports, property underwriters' plans, and any other FIPs available from Opta for the Phase One Property. No records were found by Opta for the Phase One Property.

3.2.3. Technical Standards and Safety Authority

RiskCheck contacted the TSSA regarding the Phase One Property and selected surrounding properties on September 17, 2021, to inquire about records of registered fuel tanks, which may include compliance orders, incident reports, inspection records, spills or records of contamination or specifications of the registered fuel tanks. The response from the TSSA, dated September 17, 2021, indicated that no records were found on the Phase One Property, or the neighbouring properties searched.

3.2.4. Ontario Ministry of the Environment, Conservation and Parks

RiskCheck contacted the MECP Freedom of Information and Privacy Office regarding the Phase One Property on August 19, 2021. The MECP response is strictly limited to a search of available records including environmental concerns (general correspondence, occurrence reports or abatement), orders, historical spills and investigations/prosecutions. At the time of writing this report, no response from the MECP had been received. Should further information be received which alters the conclusions of this report, an addendum will be forwarded to the Client.

A copy of the MECP correspondence is included as Appendix E.

3.2.5. City of Ottawa Historic Land Use Inventory

RiskCheck contacted the City of Ottawa for a search of the Historic Land Use Inventory (HLUI) for records associated the Phase One Property on August 25, 2021. The response is strictly limited to a search of available environmental records related to the Phase One Property with respect to its usage and environmental matters such as: contaminant discharge, orders and spills, waste disposal sites, storm sewer use, by-law infractions and abatement.

A response from the City of Ottawa indicated that beyond the Phase One Study Area (but within 500 m of the boundaries of the Subject Property) was a landfill (an unnamed waste disposal site [Canadian Waste]). No pertinent details were provided reading this landfill. Based on the available information to-date, the distance from the Phase One Property and the inferred groundwater flow direction, the potential for significant contaminant migration to the Subject Property from this landfill appears to be low at this time. No other pertinent findings were noted in the response provided.

A copy of the correspondence with the City of Ottawa with respect to the Historic Land Use Inventory (HLUI) records search is included as Appendix E.

3.3. Physical Setting Sources

3.3.1. Aerial Photographs

Available aerial photographs for 1976, 1991, 1999, 2002, 2005, 2008, 2011, 2014, 2015, 2017 and 2019 (from geoOttawa), 1954 (from the University of Toronto Map and Data Library), 1926, 1945, 1953, 1965, 1970, 1979, 1985 and 1994 (from LGI Copy Service Canada) and 2003, 2004, 2005, 2008, 2012, 2013, 2014, 2015, 2016, 2017, 2018 and 2021 (from Google Earth) were reviewed by RiskCheck. Aerial photographs (dated 1965, 1979, 1985, 1994, 2008, 2016 and 2021) are included in Appendix F.

The Phase One Property was noted to be agricultural/undeveloped land in the available aerial photographs from 1926 to 2005. The available 2008 aerial photograph depicted a suspected dog training park on the northeast portion of the Phase One Property, and the 2014 aerial photograph indicated that the suspected dog training park had been moved to the southeast portion of the Phase One Property. The 2015 available aerial photograph indicated that surface soils on the north and central portions of the Phase One Property had been stripped; piles of wood appeared to be stored on the east and west portions of the Phase One Property and the suspected dog training park remained present on the southeast portion of the Phase One Property. The 2019 available aerial photograph depicted the suspected dog training park had been removed, and the Phase One Property appeared to be covered in vegetation, similar to the present-day.

Based on the review of the available aerial photographs, the following pertinent details for the surrounding properties were identified in the following table:

Year of Aerial Photograph	Surrounding Properties
1926	Surrounding properties to the north, east, south and west appeared to be undeveloped or agricultural land. A suspected residential dwelling was depicted approximately 50 m to the southeast of the Phase One Property at 1199-1201 Old Montreal Road. In addition, a driveway oriented in a northwest-southeast direction was located to the west of the Phase One Property, presumed to be associated with suspected residential and/or agricultural buildings located greater than 100 m to the west of the Phase One Property.
1953	A suspected road or driveway appeared to have been constructed adjacent to the east of the Phase One Property generally oriented in a north-south direction, presumably associated with the suspected agricultural buildings or possible greenhouses located greater than 250 m to the northeast of the Phase One Property.
1965	Additional suspected residential and/agricultural buildings had been developed along the north and south sides of Old Montreal Road. An additional suspected road or driveway had been constructed approximately 50 m to the east of the Phase One Property generally oriented in a north-south direction, presumably associated with the suspected agricultural buildings or possible greenhouses located greater than 250 m to the northeast of the Phase One Property.
2003	The suspected driveway adjacent to the east of the Phase One Property appeared to have been removed and replaced with a line of trees.

Year of Aerial Photograph	Surrounding Properties
2004	The neighbouring property approximately 20 m to the west of the Phase One Property at 1123 Old Montreal Road appeared to be under development.
2008	The building on the neighbouring property approximately 20 m to the west of the Phase One Property at 1123 Old Montreal Road appeared to be constructed and a pond appeared to have been constructed on the southeast portion of this neighbouring property.
2011	The neighbouring property approximately 85 m to the east of the Phase One Property (currently 633-671 Cartographe Street) appeared to be utilized for truck storage on the north and east portions of this neighbouring property.
2015	The Cardinal Creek Village subdivision located to the north, northeast, east, west and northwest of the Phase One Property appeared to be under development including the neighbouring roadways (i.e., Famille-Laporte Avenue, Minoterie Ridge, Brouage Way, Astrolabe Place, Mishawashkode Street and Cartographe Street) and residential dwellings along these roads were depicted to be developed and/or under development. The north portion of the neighbouring property located approximately 20 m to the west of the Phase One Property at 1123 Old Montreal Road appeared to be utilized as a developer's yard.
2017	The Cardinal Creek Village subdivision was depicted to be nearly completed, with a few portions still under development located further to the northwest and east of the Phase One Property. MillStone Park appeared to be located approximately 60 m to the north of the Phase One Property at 420 Famille-Laporte Avenue.
2018 to 2021	The Cardinal Creek Village subdivision was depicted to be fully constructed.

There were no other pertinent findings noted in the aerial photographs reviewed.

3.3.2. Topography, Hydrology and Geology

The topography of the Phase One Property was noted to have a gentle slope downwards to the northwest. The average ground surface elevation at the Phase One Property was reportedly 67 m above mean sea level (m AMSL).

Geology

A review of the Quaternary Geology of Ontario, Southern Sheet; Ontario Geological Survey, Map 2556, scale 1:1,000,000 (Barnett, P.J., Cowan, W.R., and Henry, A.P., 1991) obtained from the Ontario Ministry of Energy, Northern Development and Mines (MENDM) indicated that the subsurface soil conditions in the vicinity of the Phase One Property consisted predominantly of silt and clay; basin and quiet water deposits (Glaciolacustrine and Marine Deposits). In addition, a review of the Surficial Geology of Russell, Ontario, Map 1507A, scale 1:50,000 (Richard, S.H., 1982) obtained from the Ontario and Quebec; Geological Survey of Canada indicated the native clay in the vicinity of the Subject Property is associated with the Champlain Sea marine deposits.

A review of the Ontario Geological Survey (1991), Bedrock Geology of Ontario, Southern Sheet; Ontario Geological Survey, Map 2544, scale 1:1,000,000 and obtained from the MENDM, indicated that the bedrock type in the vicinity of the Phase One Property consisted of limestone, dolostone, shale, arkose and sandstone (Ottawa Group; Simcoe Group; Shadow Lake Formation).

The 2018 RiskCheck Phase Two ESA completed for the Subject Property indicated that the subsurface soil at the south portion of the Subject Property below the surficial topsoil (with a maximum thickness of approximately 1.22 m) consisted of silty clay to a maximum boring termination depth of approximately 6.10 mbgs.

The 2018 RiskCheck Preliminary Geotechnical Investigation and 2021 Geotechnical Investigation indicated that the subsurface soil at the Subject Property below the surficial topsoil (with a maximum thickness of approximately 1.20 m) consisted of silty clay to a maximum depth of approximately 12.2 mbgs, with apparent deposits of silty sand or silt and clay followed by “glacial till” comprised of silt and sand to a maximum boring termination depth of 14.0 mbgs.

Based on a review of additional previous subsurface investigations completed at and in the vicinity of the Subject Property (see Section 3.1.6.), the soil stratigraphy at the Subject Property below the surficial topsoil (with a thickness ranging from approximately 0.20 m to 0.33 m) was generally described as silty clay to a maximum depth of approximately 9.5 mbgs followed by a glacial till (silty clay with sand, gravel, cobbles and boulders) to a maximum depth of approximately 9.8 mbgs. No bedrock was encountered within the borehole/test pit locations previously completed at (or in close vicinity to) the Subject Property; however, it was noted that refusal and/or bedrock was observed from 0 mbgs to 9.3 mbgs at several borehole locations within the Cardinal Creek Village subdivision. In addition, the 2013 PGI Geotechnical Investigation indicated that based on available geological mapping, the bedrock in the area was expected to range from 15 mbgs to 50 mbgs (west of the Subject Property) and from 0 mbgs to 10 mbgs (east of the Subject Property).

Bedrock was not encountered in any of the borehole locations completed at the Phase One Property to a maximum termination depth of approximately 14.0 mbgs. As such, the Phase One Property is not a “shallow soil property” as defined in O. Reg. 153/04. According to the 2013 PGI Geotechnical Investigation bedrock in the vicinity of the Phase One Property is anticipated between ground surface at a maximum of 50 mbgs.

Hydrology

The Phase One Property and surrounding area were reportedly municipally serviced, and wells were not required to supply potable water. No potable water wells were observed on the Phase One Property or neighbouring properties at the time of the site visit, however, based on a review of the available records, potable water wells were identified within the Phase One Study Area (located to the east and south (across Old Montreal Road) of the Phase One Property).

Based on a review of the Atlas of Canada (Natural Resources Canada) interactive topographic maps database (Map 031G06), groundwater was inferred to flow to the northwest towards Cardinal Creek, located approximately 210 m to the west of the Phase One Property. However, foundations, buried utilities/services, subsurface drainage (including septic) systems and zones of local, natural high permeability soils (sand seams/lenses and fissures) and zones of buried rubble (concrete and building stone, metal) may significantly alter the groundwater movement. Shallow groundwater may be encountered as a perched layer on underlying soils of low permeability or buried floor slabs.

A review of the 2018 RiskCheck Phase Two ESA indicated that groundwater was encountered at the south portion of the Subject Property at depths ranging from approximately 0.81 mbgs (in MW2) to

2.04 mbgs (in MW3), and from approximately 0.92 mbgs (in MW2) to 2.21 mbgs (in MW3). Groundwater was determined to flow to the west at the time of the 2018 RiskCheck Phase Two ESA. In addition, the horizontal groundwater gradient was determined by RiskCheck to be approximately 0.05 m/m at that time.

According to the 2021 LRL Geotechnical Investigation the estimated hydraulic conductivity for the silty clay layer at the Phase One Property was approximately 5×10^{-8} m/sec while the silt and clay layer was approximately 5×10^{-6} m/sec. The permeability of the soil was reportedly not determined.

As previously stated, it is expected that groundwater levels would seasonally fluctuate, and groundwater levels may be different, if monitored at different points in time. An updated hydrogeological investigation would be required to accurately assess the current soil permeability and other hydrogeological characteristics for the Phase One Property.

3.3.3. Fill Materials

No obvious evidence of deleterious fill materials (i.e., fill mounds or pits) was observed on the Phase One Study Area at the time of the site visit.

Based on a review of the 2018 RiskCheck Phase One ESA, approximately “200 loads” of imported clay fill materials were reportedly placed on the south/southeast portion of the Subject Property. In addition, a berm consisting of topsoil formerly utilized on the parking lot of neighbouring property approximately 20 m to the west of the Subject Property at 1123 Old Montreal Road was reportedly placed on the south/southeast portion of the Subject Property and graded (over the clay fill materials).

Topsoil (fill material) was identified in all the borehole locations during previous environmental investigations at the Phase One Property including the 2018 RiskCheck Phase Two ESA investigation. The identified fill material at the Phase One Property was likely brought-in as described above. The topsoil was identified to a maximum depth of 1.22 mbgs in the previous environmental investigations.

3.3.4. Water Bodies and Areas of Natural Significance

No water bodies were observed on the Phase One Property at the time of the site visit. Cardinal Creek was observed within the Phase One Study Area (approximately 210 m to the west of the Phase One Property) at the time of the site visit.

A review of the Ontario Ministry of Natural Resources and Forestry (MNRF) natural heritage map did not identify any environmentally sensitive areas or areas of natural significance within the Phase One Study Area. According to the City of Ottawa Official Plan and a review of Source Water mapping from geoOttawa, there were no environmentally sensitive areas, wellhead protection areas, high aquifer vulnerability areas, wetlands, and woodlands noted in the Phase One Study Area.

3.3.5. Well Records

According to the MECP Well Records database and ERIS Report, approximately 26 well records (i.e., for monitoring wells or test wells/test holes, dewatering wells, water supply wells, abandoned wells or wells with no reported specific use) were identified within the Phase One Study Area (none were identified on the Phase One Property).

Based on a review of the available records, potable water wells were identified within the Phase One Study Area (located to the east and south (across Old Montreal Road) of the Phase One Property).

Wells identified in the MECP Well Records database and ERIS report for the Phase One Study Area are depicted on Figure No. 2 in Appendix A. Monitoring wells observed during the Phase One ESA site visit are depicted on Figure Nos. 3 and 4 in Appendix A.

3.4. Site Operating Records

The Phase One Property is currently undeveloped vacant land and was formerly a part of the neighbouring property at 1123 Old Montreal Road. The Phase One Property was previously owned by Capital City Church Properties (current owners of 1123 Old Montreal Road) and was reportedly severed from the neighbouring property at 1123 Old Montreal in approximately 2011. There were no buildings and no commercial or industrial operations identified on the Phase One Property. Based on a review of the available information to-date, no drycleaners, retail fuel outlets (RFOs), automobile service garages or industrial activities were located on the Phase One Property or on the immediate adjacent properties. The Phase One Property is not an Enhanced Investigation Property as defined in the O.Reg. 153/04.

4. INTERVIEWS

4.1. Property Representatives

4.1.1. RiskCheck Pre-Assessment Questionnaire

A Pre-Assessment Questionnaire for the Phase One Property was previously circulated out to the former owners as part of the 2018 RiskCheck Phase One ESA to gain an initial understanding on environmental conditions at the Phase One Property at that time. Mr. Ben Villani (Vice President of ARCH) confirmed there were no changes at the Phase One Property since the 2018 RiskCheck Phase One ESA. A review of the previously completed questionnaire did not identify any potential environmental concerns at the Phase One Property.

4.1.2. Interviews

Mr. Ben Villani (Vice President) of Arch was interviewed on past and present environmental issues at the Phase One Property. There were no potential environmental concerns noted from the interviews conducted at the time of the Phase One ESA.

5. SITE RECONNAISSANCE

5.1. General

RiskCheck conducted an inspection at the Phase One Property on September 10, 2021 (from approximately 11:20 to 13:30). The Phase One ESA site visit was conducted by Mr. Mitchell Reynolds, B.Eng., of RiskCheck. The weather was generally clear and sunny with an approximate ambient temperature of 17°C (measured from the Ottawa CDA RCS weather station). RiskCheck was unaccompanied during the site visit. The entire Phase One Property was accessed at the time of the site visit, with the exception of portions of the southeast property boundary, which were inaccessible due to heavy vegetation.

Selected photographs of the Phase One Property are presented in Appendix G. A Site and Surrounding Land Use Plan and Detailed Site and Surrounding Land Use Plan are presented as Figure Nos. 3 and 4 in Appendix A. A current plan of survey showing the Phase One Property is included in Appendix B.

5.2. Specific Observations at the Phase One Property

5.2.1. Building Details, Structures, and Surface Features

The Phase One Property was vacant land with no buildings or structures at the time of the site visit and was overgrown with grass and vegetation throughout the majority of the Phase One Property. Two gravel pathways were noted along the south/southeast and west portions of the Phase One Property, respectively. No driveways were present and pedestrian access to the Subject Property was provided off Famille-Laporte Avenue located to the west of the Phase One Property.

5.2.2. Fill Materials and Debris

No evidence of deleterious fill materials, stressed vegetation, ponded water, watercourses and significant source of noise/vibration and electromagnetic fields were observed on the Phase One Property at the time of the site visit. The majority of the Phase One Property was overgrown with grass, shrubs and trees at the time of the site visit. Fill materials (generally topsoil) was identified to a maximum depth of 1.22 mbgs in the previous environmental investigations.

5.2.3. Asbestos

There were no potential environmental concerns associated with asbestos-containing materials (ACMs) at the Phase One Property.

5.2.4. Urea Formaldehyde Foam Insulation

There were no potential environmental concerns associated with urea formaldehyde foam insulation (UFFI) at the Phase One Property.

5.2.5. Polychlorinated Biphenyls

The import, manufacture, and sale including for re-use of polychlorinated biphenyls (PCBs) were made illegal in Canada in 1977 and release of PCBs to the environment was made illegal in 1985 (Environment Canada, 2014). Storage and end-of-use deadlines for PCB-containing equipment are regulated federally through the Canadian Environmental Protection Act, 1999, PCB Regulations, SOR/2008-273. Handling, transportation and disposal of PCB wastes are regulated in Ontario by Waste Management – PCBs, R.R.O. 1990, Regulation 362.

No suspected PCB containing transformers or pad-mounted transformers were observed on the Phase One Property. There were no potential environmental concerns associated with PCB-containing electrical equipment at the Phase One Property.

5.2.6. Lead

There were no potential environmental concerns associated with lead containing materials at the Phase One Property.

5.2.7. Ozone Depleting Substances

Ozone depleting substances (ODSs) and halocarbon alternatives were not identified to be present at the Phase One Property at the time of the site visit. There were no potential environmental concerns associated with ODSs at the Phase One Property.

5.2.8. Mould

There were no potential environmental concerns associated with mould affected or water damaged building materials at the Phase One Property.

5.2.9. Fuel and Chemical Storage Tanks

No vent or fill pipes or other evidence of underground storage tanks (USTs) were observed in the accessed areas of the Phase One Property by RiskCheck or reported by the site representative at the time of site visit. In addition, no aboveground storage tanks (ASTs) for fuel or chemical storage were observed in the accessed areas of the Phase One Property by RiskCheck or reported by the site representative at the time of site visit.

5.2.10. Hydraulic Equipment and Oil Reservoirs

The Phase One Property was not equipped with hydraulic elevators or equipment with oil reservoirs (dock levellers, compactors, etc.) at the time of the site visit.

5.2.11. Air Emissions

No sources of air emissions that are suspected to result in residual contamination at the Phase One Property were identified at the Phase One Property.

5.2.12. Chemicals and Other Unidentified Substances

No chemicals or other unidentified substances were observed to be stored at the Phase One Property at the time of the site visit. There were no potential environmental concerns associated with chemical storage on the Phase One Property.

5.2.13. Waste Management

The Phase One Property was not registered to generate hazardous wastes and no hazardous wastes were stored at the Phase One Property at the time of the site visit. No waste materials were stored or generated at the Phase One Property at the time of the site visit.

There were no potential environmental concerns associated with waste management on the Phase One Property.

5.2.14. Water and Wastewater Management

The Phase One Property was reportedly serviced by municipal water and sewers. A water valve, suspected to connect to the municipal water service, was observed on the west portion of the Phase One Property. In addition, one catch basin was observed on the southwest portion of the Phase One Property, and two catch basins were observed with manhole covers on the northwest portion of the Phase One Property, suspected to drain into storm sewers along Famille-Laporte Avenue. Storm water drainage for the Phase One Property was through surface infiltration in the vegetated areas and through the catch basins observed on the Phase One Property.

5.2.15. Sumps, Pits and Below Grade Structures

No sumps (elevator, storm, sanitary) were identified at the Phase One Property at the time of the site visit or were reported to be present by the property representative.

5.2.16. Water and Wastewater Equipment

No water or wastewater management devices were observed on the Phase One Property at the time of the site visit or were reported to be present by the property representative.

5.2.17. Wells

No monitoring wells or potable water wells were observed in the accessed areas of the Phase One Property at the time of the site visit with the exception of three monitoring wells (piezometers), presumed to be associated with previous environmental investigations at the Phase One Property, were observed on the southeast and central-west portions of the Phase One Property, respectively.

A total of three monitoring wells were noted to be in good condition at the Phase One Property and are depicted on Figure No 3 and Figure No. 4 in Appendix A.

RiskCheck notes that the monitoring wells which were observed to be in good condition should be maintained in accordance to Regulation 903 – Wells. In the event the monitoring wells are not in use (or found to be damaged), the monitoring wells should be decommissioned in accordance to this regulation.

5.2.18. Spill and Stained Areas

No evidence of active spills or stained areas were observed at the Phase One Property and no spills were reported by the property representative at the time of the site visit. A drill rig was observed to be parked on the southwest portion of the Phase One Property assumed to be associated with the then upcoming Geotechnical Investigation (which has since been completed). No spills or staining was observed on the ground in the vicinity of the drill rig.

5.2.19. Subsurface Structures and Utilities

Based on our site observations, no subsurface structures were identified on the Phase One Property or were reported to be present by the property representative.

A buried electrical utility line was noted adjacent to the west property boundary of the Phase One Property, running generally in a north-south direction. A water valve, suspected to connect to the municipal water service, and a municipal sewer were observed on the west boundary of the Phase One Property. In addition, two catch basins were observed on the northwest portion of the Phase One Property and one catch basin was observed on the southwest portion of the Phase One Property, suspected to drain into storm sewers along Famille-Laporte Avenue. Furthermore, a telephone box was observed adjacent to the southwest of the Phase One Property near the intersection of Old Montreal Road and Famille-Laporte Avenue, and overhead hydro lines were observed to run along Old Montreal Road generally in an east-west direction.

5.2.20. Radon

Radon is a radioactive gas that is found naturally throughout the environment. Radon gas is typically associated with the decay of uranium found in rocks, soil, and water. Since radon is a gas, it can move freely through the soil enabling it to escape into the atmosphere or seep into buildings. When radon gas enters an enclosed space, such as a basement, it can accumulate to high levels. The level of risk associated with radon gas is dependent upon the concentration of the radon gas and the length of exposure. The Canadian Guideline for Radon in Indoor Air recommends action be taken to reduce radon levels if the average annual concentration exceeds 200 Becquerel per cubic metre (Bq/m³) in indoor air.

According to Health Canada's March 2012 report entitled "Cross-Canada Survey of Radon Concentrations in Homes", natural radon levels were found to be below the 200 Bq/m³ threshold within the 64 sites surveyed in the City of Ottawa health unit.

Based on the available information to-date and no permanent buildings or structures on the Phase One Property, radon is not expected to pose significant human health concern to the Phase One Property.

5.2.21. Surrounding Land Use

At the time of the site visit, RiskCheck visually assessed the surrounding properties from publicly accessible locations in the Phase One Study Area or from the Phase One Property. The following relevant findings were observed at the surrounding properties:

- A vent pipe and a fill pipe were observed on the exterior south portion of the residential building on the neighbouring property located approximately 50 m to the southeast of the Phase One Property at 1201 Old Montreal Road (as presented on Figure No. 3 and Figure No. 4 in Appendix A). Based on available information, the vent and fill pipes are likely associated with fuel oil storage in an AST in the basement of the residential building on this neighbouring property; and
- Pole-mounted transformers were observed along Old Montreal Road at the time of the site visit. No oil staining was observed on the ground surface below the transformers at the time of the site visit.

At the time of the site visit, no evidence of USTs, including suspected vent or fill pipes, or ASTs were observed on the neighbouring properties from publicly accessible areas of the surrounding properties with the exception of those noted above at 1201 Old Montreal Road. Furthermore, no evidence of significant chemical storage or obvious evidence of significant deleterious fill materials (i.e., fill mounds or pits) were observed on the neighbouring properties from publicly accessible areas of the surrounding properties.

The current and past uses of the surrounding properties are summarized in Section 6.2.

5.3. Enhanced Investigation Property

The Phase One Property was vacant land with no permanent buildings or structures. Based on a review of the available information to-date, no drycleaners, RFOs, automobile service garages or industrial activities were located on the Phase One Property. The Phase One Property is not an Enhanced Investigation Property as defined in the O.Reg. 153/04.

5.4. Written Description of Investigation

This Phase One ESA was supervised by a Qualified Person (QP) for Environmental Site Assessments. Assessor qualifications are included in Section 10. Interviews with the property representatives were conducted by RiskCheck immediately prior to, or following, the site visit and as part of the 2018 RiskCheck Phase One ESA, and details of the previous site uses were evaluated based on a review of the historical files, past environmental reports, and searches from available sources of information. The site visit was completed following a review of the historical records that included but was not limited to previous environmental reports, property assessment records, ERIS report, Opta responses, city directories, aerial photographs and FIPs. The Phase One ESA included a review of records of storage tanks from the TSSA (if any). The MECP freedom of information request is pending a response from the MECP.

The PCAs and APECs are discussed in further detail in Sections 6.3 and 6.4, respectively.

6. REVIEW AND EVALUATION OF INFORMATION

6.1. Current and Past Uses of the Phase One Property

Based on a review of the available historical records, the current and past uses of the Phase One Property are outlined in the following table.

"Table of current and past uses of the phase one property" (Refer to clause 16(2)(b), Schedule D, O. Reg. 153/04)

Year	Name of Owner	Description of Property Use	Property Use ¹	Other observations from aerial photographs, fire insurance plans, etc.
Prior to 1830	Crown	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property was assumed to be undeveloped or agricultural land.
1830 to 1847	Matilda Cozena	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property was assumed to be undeveloped or agricultural land.
Unknown – records were poor quality. Presumed to be from approximately 1847 to 1852.	Benjamin Cozena	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property was assumed to be undeveloped or agricultural land.
1852 to 1860	Unknown – records were poor quality. Assumed to be individual owners	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property was assumed to be undeveloped or agricultural land.
1860 to 1878	William Sache	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property was assumed to be undeveloped or agricultural land.
1878 to 1883	Honore Cotte	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property was assumed to be undeveloped or agricultural land.
1883 to 1885	Frances Warren	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property was assumed to be undeveloped or agricultural land.
1885 to 1907	Isadore Cardinal	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property was assumed to be undeveloped or agricultural land.
1907 to 1962	Maria Louisa Cardinal, wife of Alderic Cardinal (deceased)	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property appeared to be undeveloped or agricultural land.
1962 to 2001	Elsett Realty Company Limited	Undeveloped and agricultural land	Agricultural or Other Use	The Phase One Property appeared to be undeveloped or agricultural land.
2001 to 2013	Word Life Church (Ottawa/Hull)	Vacant Land	Parkland	The Phase One Property appeared to be a vacant land, which was maintained by World Life Church (World Life Church was located at 1123 Old Montreal Road, approximately 20 m to the west of the Phase One Property). A former dirt/gravel parking lot utilized for this church was noted to occupy a small portion on the west side of the Phase One Property, from approximately the mid-2000s to 2013. A dog training park was noted on the northeast portion of the Phase One Property from approximately 2005 to 2013.

Year	Name of Owner	Description of Property Use	Property Use ¹	Other observations from aerial photographs, fire insurance plans, etc.
				An easement was noted on April 15, 2011 for the property, and it is presumed that this is when the City of Ottawa acquired the land between the Phase One Property and the neighbouring property to the west at 1123 Old Montreal Road, for the purposes of developing Famille-Laporte Avenue, and thus, severing the two parcels (i.e., 1123 Old Montreal Road and the Phase One Property).
2013 to 2016	Capital City Church (Canada)	Vacant Land	Parkland	A former dirt/gravel parking lot utilized for this church was noted to occupy a small west portion of the Phase One Property in approximately 2014. The dog training park was noted on the southeast portion of the Phase One Property from 2014 to 2016. The surface soils on the north and central portions of the Phase One Property appeared to be stripped, and multiple piles of wood were depicted on these portions (in 2015 and 2016). An easement was noted in 2015 for Hydro One Networks which is assumed to be associated with a buried electrical utility line (Hydro One) that runs adjacent to the west of the Phase One Property Boundary, generally in a north-south direction.
2016 to 2020	Capital City Church Properties	Vacant Land	Parkland	The Phase One Property appeared to be regraded with grass (in 2017). The dog training park was present on the southeast portion of the Phase One Property (in 2016 and 2017). The dog training park appeared to have been removed from the Phase One Property prior to 2019.
2020 to the present	DTOC II Ottawa Facility Inc.	Vacant Land	Parkland	At the time of RiskCheck's site visit in 2021, the Phase One Property was overgrown with vegetation.

Notes: 1 - For each owner, specify one of the following types of property use (as defined in O. Reg. 153/04) that applies:
Agriculture or other use; Commercial use; Community use; Industrial use
Institutional use
Parkland use
Residential use

At the time of the site visit, the Phase One Property was vacant land with no permanent buildings or structures.

Based on interviews from the previous 2018 RiskCheck Phase One ESA, approximately “200 loads” of imported clay fill materials were reportedly placed on the south/southeast portion of the Phase One Property in approximately 2009. A contractor (AA Manning Construction) was reportedly responsible for bringing the clay fill material to the Phase One Property; however, no contact information for this contractor was provided and the source and quality of the reported fill material is currently unknown. It was presumed that this contractor is no longer in business. In addition, a berm consisting of topsoil formerly utilized on the parking lot of neighbouring property approximately 20 m to the west of the Phase One Property at 1123 Old Montreal Road was reportedly placed on the south/southeast portion of the

Phase One Property and graded (over the clay fill materials). Elevated concentrations of cobalt and vanadium were found in boreholes completed at the Subject Property during the 2018 RiskCheck Phase Two ESA. Further details are presented in Section 6.3.

A review of the previous 2018 RiskCheck Phase Two ESA completed at the Phase One Property identified fill materials (topsoil) throughout the south/southeast portion of the Phase One Property. The fill materials were noted to a depth of approximately 1.22 mbgs.

A review of 2015 and 2016 aerial photographs depicted that the surface soils on the north and central portions of the Phase One Property had been stripped and multiple piles of reported wood were stored at these locations. Based on interviews from the previous 2018 Phase One ESA, the developers (Taggart Construction Limited) of the Cardinal Creek Village subdivision utilized the Phase One Property to store portions of their scrap wood during subdivision development activities in approximately 2015 and 2016. RiskCheck has assumed that the wood storage was primarily for untreated wood products, and it is likely that limited quantities of pressure treated wood products (i.e., fencing) would have been stored on the Phase One Property. Based on the available information to-date, the potential for significant subsurface contamination at the Phase One Property from the storage of scrap wood appears to be low at this time.

Details of the PCAs associated with the current and past uses at the Phase One Property are presented in Section 6.3.

6.2. Current and Past Uses of the Neighbouring Properties

A review of historical records indicated that the neighbouring properties were developed for residential, commercial or institutional uses from at least the mid-1920s to the mid-2010s. A review of the aerial photographs indicated that the area in the vicinity of the Phase One Property previous to this period was agricultural and/or undeveloped land.

The following is a general description of the current and historical land use in the immediate surroundings of the Phase One Property and discussions on the significant findings identified in the Phase One Study Area:

Direction and Inferred Gradient	Immediate adjacent/neighbouring properties (Current occupant and current/historical land use)	Other Neighbouring Properties /Features (Current land use only)	Potentially Contaminating Activities ¹
North; cross-/down-gradient	<p>300-322 Mishawashkode Street, adjacent to the north</p> <ul style="list-style-type: none"> - Residential from approximately 2015 to the present - Prior to these developments, these properties were undeveloped or used for agricultural purposes 	Parkland (Millstone Park at 420 Famille-Laporte Avenue) and single-family residential properties to the north, northeast and northwest along Mishawashkode Street, Cartographe Street, Famille-Laporte Avenue and Astrolabe Place.	None noted

Direction and Inferred Gradient	Immediate adjacent/neighbouring properties (Current occupant and current/historical land use)	Other Neighbouring Properties /Features (Current land use only)	Potentially Contaminating Activities ¹
		Commercial (401-.425 Famille-Laporte Avenue)	
East; Cross-/up-gradient	<p>675-683 and 685 to 717 Cartographe Street, adjacent to the east</p> <ul style="list-style-type: none"> - Residential from approximately 2016 to the present - Prior to these developments, these properties were undeveloped or used for agricultural purposes <p>1195 Old Montreal Road, adjacent to the east</p> <ul style="list-style-type: none"> - Residential from approximately the early 1970s to the present - Prior to this development, this property was undeveloped or used for agricultural purposes 	Single-family residential properties to the east, northeast and southeast along Cartographe Street, Old Montreal Road, Mishawashkode Street, Geographe Terrace, Diamant Way and Stadaconé Row.	<p>PCA 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications - Former Laporte Flowers and Nursery lands located adjacent to the east of the Subject Property (685-717 and 675-683 Cartographe Street)</p> <p>PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks – Suspected historical fuel oil use for heating of the neighbouring residential property to the east at 1195 Old Montreal Road</p>
South; Up-/cross-gradient	<p>1171 and 1183, 1199 and 1201 Old Montreal Road, adjacent to the south</p> <ul style="list-style-type: none"> - Residential from approximately the mid-1960s to the present - Prior to these developments, these properties were undeveloped or used for agricultural purposes 	Single-family residential properties to the south, southeast and southwest along Old Montreal Road and Grand Chêne Court	<p>PCA Not Defined (ND)² – “A” – A spill of an unknown quantity of motor oil to a catch basin at 1105 Old Montreal Road</p> <p>PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks – Suspected historical fuel oil use for heating of the neighbouring residential properties to the south, southeast and southwest along Old Montreal Road. In addition, an aboveground storage tank containing diesel located at the neighbouring residential property to the south at 1208 Old Montreal Road</p>
West (across Famille-Laporte Avenue); down-gradient	<p>1123 Old Montreal Road, approximately 20 m west</p> <ul style="list-style-type: none"> - Institutional (a church) from approximately the mid-2000s to the present. The north portion of this property had been utilized as a developer’s yard from approximately 2015 to the present - Prior to this development, this property was undeveloped or used for agricultural purposes 	Single-family residential properties to the west and northwest along Minoterie Ridge and Brouage Way	None noted



Direction and Inferred Gradient	Immediate adjacent/neighbouring properties (Current occupant and current/historical land use)	Other Neighbouring Properties /Features (Current land use only)	Potentially Contaminating Activities ¹
	<p>100-124 and 101-129 Minoterie Ridge and 200-218 and 201-223 Brouage Way, approximately 20 m west</p> <ul style="list-style-type: none"> - Residential from approximately 2015 to the present. - Prior to these developments, these properties were undeveloped or used for agricultural purposes 		

Notes: 1 – PCA list obtained from Table 2, Schedule D of O. Reg. 153/04 (as amended)
2 – PCA was not defined (ND) in Table 2, Schedule D of O. Reg. 153/04 (as amended)

Details of the PCAs associated with the current and past uses at the neighbouring properties are presented in Section 6.3.

6.3. Potentially Contaminating Activity

Phase One Property

As discussed in Section 6.1, RiskCheck identified potentially contaminating activities (PCAs) on the Phase One Property as presented in the following table:

Potentially Contaminating Activity (PCAs) ¹	Location of PCA (on-site or off-site)	Description
PCA 30 – Importation of Fill Material of Unknown Quality	On-Site	Based on interviews with the site representative, an estimated “200 loads” of clay fill materials were reportedly historically placed on south/southeast portion of the Subject Property. In addition, a berm consisting of topsoil formerly utilized on the parking lot of neighbouring property approximately 20 m to the west of the Subject Property at 1123 Old Montreal Road was reportedly historically placed on the south/southeast portion of the Subject Property and graded (over the clay fill materials).

Notes: 1 – PCA list obtained from Table 2, Schedule D of O. Reg. 153/04 (as amended)

RiskCheck completed a Phase Two ESA in 2018 at the Subject Property to assess the above PCA and associated APEC. Details of this investigation at the south and southeast portion of the Phase One Property is documented in Section 3.1.6. There were no exceedances above the current applicable MECP Standards identified in soil and groundwater samples collected at the south/southeast portion of Phase One Property (see natural background discussion below) for one or more of the identified CoPCs in soils and groundwater (i.e., PHC F1 to F4, BTEX, PAHs and metals and inorganics (inclusive of arsenic, lead, zinc, cyanide, hexavalent chromium, mercury, selenium, electrical conductivity [EC], sodium adsorption ratio [SAR], hot water soluble boron, and pH).

RiskCheck notes that elevated levels of cobalt and vanadium concentrations were found in all of the boreholes completed at the Subject Property in similar concentrations ranging between 20 µg/g and

27 µg/g for cobalt in six soils samples collected and one duplicate sample and ranging between 91 µg/g and 130 µg/g for vanadium in six soils samples collected and one duplicate sample.

Based on a review of available records in the Ottawa area, RiskCheck noted that native clay soils associated with post-glacial Champlain Sea marine deposits commonly have elevated levels of trace metals, including barium, boron, chromium, cobalt and vanadium. A study presented at GeoOttawa 2017 for the Eastern Region of Ontario found that typical metals including cobalt and vanadium were elevated in the post-glacial Champlain Sea marine deposits. Based on the surficial geology in the Phase Two Study Area and the observed clay at the Subject Property, it was RiskCheck’s opinion that the cobalt and vanadium exceedances in soil (i.e., above the MECP Table 2 Standards) are likely naturally occurring background levels and would not be associated with any anthropogenic (man-made) sources of impact.

Further justification for the application of natural background levels include the contaminant concentration at the Subject Property in the locations investigated increasing with depth or remaining consistent at depth which is atypical of contamination from onsite PCAs that generally affect the surface soils and that of subsurface soils at expected lowered concentrations. Furthermore, since soil samples submitted were collected from native soils, and the concentrations were generally similar to those noted in the submitted samples from the suspected fill materials (likely mixed with imported topsoil), it is further indicative that the above noted soil exceedances are likely related to natural background levels and the fill materials may have been relocated from soil obtained in the vicinity of the Subject Property. Finally, concentrations of cobalt and vanadium in groundwater from the monitoring wells installed in borehole MW1 to MW3 were either non-detectable or significantly below the MECP Table 2 Standards.

As per the recent amendment to Ontario Regulation (O. Reg.) 153/04 (i.e., O. Reg. 407/19, filed and published on December 4, 2019), the MECP Table 2 Standards are deemed to have been met if the identified concentrations do not exceed the naturally occurring range of concentrations of that contaminant typically found within the area where the Subject Property is located. A review of the applicability of the excess soils management amendment to O. Reg. 153/04 (i.e., O. Reg. 407/19) was not completed at that time.

The Phase One Study Area and PCAs on the Subject Property that no longer contribute to an APEC on the Phase One Property are presented on Figure No. 4 in Appendix A (Detailed Site and Surrounding Land Use Plan and On-site PCAs that do not contribute to APECs).

Neighbouring Properties

As discussed in Section 6.2, RiskCheck identified potentially contaminating activities (PCAs) in the Phase One Study Area as presented in the following table:

Potentially Contaminating Activity (PCAs) ¹	Location of PCA (on-site or off-site)	Description
PCA 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-site	Former Laporte Flowers and Nursery Lands located adjacent to the east of the Phase One Property including the potential for large-scale applications of pesticides



Potentially Contaminating Activity (PCAs) ¹	Location of PCA (on-site or off-site)	Description
PCA Not Defined (ND) ² – “A”	Off-site	A spill of an unknown quantity of motor oil to a catch basin at 1105 Old Montreal Road
PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks	Off-site	An aboveground storage tank containing diesel located at the neighbouring residential property to the south at 1208 Old Montreal Road. Based on available information in 2016, The PHC and BTEX impacted soil and groundwater was noted to be located at the southeast portion of this neighbouring property located approximately 120 m to the southeast of the Phase One Property
PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks	Off-site	Vent and fill pipes observed approximately 50 m to the southeast at 1201 Old Montreal Road and suspected historical heating in the form of fuel oil at the residential dwellings along Old Montreal Road to the east, south, southeast and southwest of the Phase One Property

Notes: 1 – PCA list obtained from Table 2, Schedule D of O. Reg. 153/04 (as amended)
2 – PCA was not defined (ND) in Table 2, Schedule D of O. Reg. 153/04 (as amended)

The adjacent land to the east (currently occupied by residential properties along Cartographe Street associated with the Cardinal Creek Village subdivision) may have been formerly utilized as agricultural land for the Laporte Flowers and Nursery (i.e., nursery land) from approximately the mid-1960s to the early 2010s. A review of available aerial photographs from approximately the mid-1960s to the present depicted greenhouses and/or farmstead buildings presumably associated with this nursery land, located greater than 250 m to the northeast of the Phase One Property (outside the Phase One Study Area). RiskCheck notes Laporte Flowers and Nursery was located at 455 Famille-Laporte Avenue (approximately 260 m to the north/northeast of the Phase One Property) and the associated lands including the adjacent lands to the east may have included the potential for large-scale applications of pesticides (PCA 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications). However, pesticides tend to remain in the surface soil and would be relatively insoluble in water. Therefore, any residual pesticides would be expected to remain in the surface soils at the neighbouring property. The primary operations of this nursery was located outside the Phase One Study Area. Based on the available information to-date, results of the previous environmental reports, the relatively low permeability of soils in the Phase One Study Area and minimal area of nursery lands located adjacent to the east, the potential for significant contaminant migration to the Subject Property from the former adjacent nursery land appears to be low at this time.

One record for a spill of an unknown quantity of motor oil to a catch basin due to a motor vehicle collision/accident (PCA Not Defined – “A”) was noted in the ERIS report (See Section 3.2.1 for details) for the neighbouring property located approximately 100 m to the southwest of the Phase One Property at 1105 Old Montreal Road in 2018. Based on the available information to-date, the distance from the Phase One Property and the inferred groundwater flow direction, the potential for significant contaminant migration to the Subject Property from this spill appears to be low at this time.

A review of the 2016 EXP Phase II ESA report for the neighbouring property located approximately 80 m to the southeast of the Phase One Property at 1208 Old Montreal Road identified PHC and BTEX contamination in soil and groundwater at this neighbouring property as a result of a former AST containing diesel reportedly utilized to refuel farm vehicles at this neighbouring property (PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks). It appeared that delineation was achieved for the impacted soil and groundwater noted at 1208 Old Montreal Road during the 2016 EXP Phase II ESA and that there

was no offsite migration of the identified petroleum impacts on this neighbouring property. In addition, it appeared that the impacted soil and groundwater was located approximately 120 m to the southeast of the Phase One Property. Based on the available information to-date, reported removal of the AST and the distance of the impacted soil and groundwater from the Phase One Property, the potential for significant contaminant migration to the Subject Property from this neighbouring property appears to be low at this time.

Based on the initial development of the neighbouring properties to the east, south, southeast and southwest along Old Montreal Road, it is possible that these properties could have been historically heated by fuel oil (PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks). A vent pipe and a fill pipe were observed to be protruding from the south exterior side of the residential dwelling approximately 50 m to the southeast of the Phase One Property at 1201 Old Montreal at the time of the site visit (as presented on Figure No. 3 and Figure No. 4 in Appendix A). Based on available information, this vent pipe and fill pipe are likely associated with fuel oil storage in an AST in the basement of the residential building on this neighbouring property. In addition, the 2016 EXP Phase I ESA report noted that there were heating oil tanks (ASTs) located in the basement of the residential dwelling located approximately 190 m to the southeast of the Phase One Property at 1180 Old Montreal Road, and in the basement of the farmhouse at 1208 Old Montreal Road, located approximately 80 m to the southeast of the Phase One Property (approximately 125 m from the Phase One Property to the AST location). In addition, it was reported that a former heating oil tank was located in the basement of the residential dwelling located approximately 130 m to the south of the Phase One Property at 1176 Old Montreal Road (which was reportedly recently converted to propane). Based on the available information to-date, and our site observations, no obvious visual evidence of USTs (i.e., no vent and/or fill pipes or fill ports suspected to be associated with USTs) were observed from public properties and/or publicly accessible portions of the neighbouring properties. Given the information above, RiskCheck also notes that historical fuel oil storage at any remaining neighbouring residential buildings were likely within ASTs in the basements (similar to residential buildings in the Phase One Study Area previously discussed). Based on the available information to-date, results of the previous environmental reports, the relatively low permeability of soils in the Phase One Study Area, and the likely use of ASTs to store fuel oil, the potential for significant contaminant migration to the Phase One Property from the past sources of heating on these neighbouring properties to the east, south, southeast and southwest along Old Montreal Road appears to be low.

The Phase One Study Area and PCAs on the neighbouring properties that do not contribute to an APEC on the Phase One Property are presented on Figure No. 3 in Appendix A (Site and Surrounding Land Use Plan and Off-site PCAs that do not contribute to APECs).

6.4. Areas of Potential Environmental Concern

As discussed above, based on a review of the previous environmental reports, including the 2018 RiskCheck Phase One ESA report, the 2018 RiskCheck Phase Two ESA report, the 2016 EXP Phase I report and the 2016 EXP Phase II report, none of the identified PCAs resulted in APECs on the Phase One Property.

6.5. Phase One Conceptual Site Model

The pertinent details of the Phase One Conceptual Site Model are noted below. A location plan, including a depiction of the Phase One Study Area (i.e., defined as within approximately 250 m from the boundaries

of the Phase One Property) and topographic information is presented as Figure No. 1 and a Phase One Study Area and Land Use Plan, and wells identified in the MECP Well records database and ERIS report is presented as Figure No. 2 in Appendix A.

The Phase One Property was located on the north side of Old Montreal Road and the east side of Famille-Laporte Avenue in Ottawa, Ontario (reportedly with a municipal address of 1161 Old Montreal Road). The Phase One Property consisted of a vacant land, generally covered with vegetation (i.e., primarily grass-covered) with overgrown grass, shrubs, and trees along the east and southeast boundaries of the Phase One Property. There were no buildings or structures on the Phase One Property at the time of the site visit.

The Phase One Property was formerly a part of the neighbouring property at 1123 Old Montreal Road. The Phase One Property was previously owned by Capital City Church Properties (current owners of 1123 Old Montreal Road) and was reportedly severed from the neighbouring property at 1123 Old Montreal in approximately 2011. There were no buildings and no commercial or industrial operations identified on the Phase One Property. Based on a review of the available information to-date, no drycleaners, retail fuel outlets (RFOs), automobile service garages or industrial activities were located on the Phase One Property or on the immediate adjacent properties. The Phase One Property is not an Enhanced Investigation Property as defined in the O.Reg. 153/04.

Based on interviews from the previous 2018 RiskCheck Phase One ESA, approximately “200 loads” of imported clay fill materials were reportedly placed on the south/southeast portion of the Phase One Property in approximately 2009. A contractor (AA Manning Construction) was reportedly responsible for bringing the clay fill material to the Phase One Property; however, no contact information for this contractor was provided and the source and quality of the reported fill material is currently unknown. It was presumed that this contractor is no longer in business. In addition, a berm consisting of topsoil formerly utilized on the parking lot of neighbouring property approximately 20 m to the west of the Phase One Property at 1123 Old Montreal Road was reportedly placed on the south/southeast portion of the Phase One Property and graded (over the clay fill materials).

A review of the previous 2018 RiskCheck Phase Two ESA completed at the Phase One Property identified fill materials (topsoil) throughout the south/southeast portion of the Phase One Property. The fill materials were noted to a depth of approximately 1.22 mbgs.

Water Bodies and Areas of Natural Significance

- ✓ No areas of natural significance were identified within 250 m of the Phase One Property. The nearest water body was identified to be Cardinal Creek, located approximately 210 m to the west of the Phase One Property.

Wells

- ✓ According to the MECP Well Records database and ERIS Report, approximately 26 well records (i.e., for monitoring wells or test wells/test holes, dewatering wells, water supply wells, abandoned wells or wells with no reported specific use) were identified within the Phase One Study Area (none were identified on the Phase One Property) with the closest potable water well located approximately 50 m to the east of the Phase One Property in the vicinity of 1201 Old Montreal Road.

Subsurface Utilities

- ✓ Underground utilities were anticipated to exist on the Phase One Property to connect to future municipal utilities.

The approximate locations of underground utilities (i.e., water, sewer and electricity) based on our site observations were generally located adjacent to, and on, the west portion of the Phase One Property, running in a generally north-south direction. The depth of the underground utilities noted above are unknown; however, they are estimated at depths ranging from approximately 1 to 2 mbgs. The presence of underground utilities noted in the above noted locations are not expected to significantly affect contaminant distribution and transport on the Phase One Property.

Geology

A review of the Quaternary Geology of Ontario, Southern Sheet; Ontario Geological Survey, Map 2556, scale 1:1,000,000 (Barnett, P.J., Cowan, W.R., and Henry, A.P., 1991) obtained from the Ontario Ministry of Energy, Northern Development and Mines (MENDM) indicated that the subsurface soil conditions in the vicinity of the Phase One Property consisted predominantly of silt and clay; basin and quiet water deposits (Glaciolacustrine and Marine Deposits). In addition, a review of the Surficial Geology of Russell, Ontario, Map 1507A, scale 1:50,000 (Richard, S.H., 1982) obtained from the Ontario and Quebec; Geological Survey of Canada indicated the native clay in the vicinity of the Subject Property is associated with the Champlain Sea marine deposits.

A review of the Ontario Geological Survey (1991), Bedrock Geology of Ontario, Southern Sheet; Ontario Geological Survey, Map 2544, scale 1:1,000,000 and obtained from the MENDM, indicated that the bedrock type in the vicinity of the Phase One Property consisted of limestone, dolostone, shale, arkose and sandstone (Ottawa Group; Simcoe Group; Shadow Lake Formation).

The 2018 RiskCheck Phase Two ESA completed for the Subject Property indicated that the subsurface soil at the south portion of the Subject Property below the surficial topsoil (with a maximum thickness of approximately 1.22 m) consisted of silty clay to a maximum boring termination depth of approximately 6.10 mbgs.

The 2018 RiskCheck Preliminary Geotechnical Investigation and 2021 Geotechnical Investigation indicated that the subsurface soil at the Subject Property below the surficial topsoil (with a maximum thickness of approximately 1.20 m) consisted of silty clay to a maximum depth of approximately 12.2 mbgs, with apparent deposits of silty sand or silt and clay followed by “glacial till” comprised of silt and sand to a maximum boring termination depth of 14.0 mbgs.

Based on a review of additional previous subsurface investigations completed at and in the vicinity of the Subject Property (see Section 3.1.6.), the soil stratigraphy at the Subject Property below the surficial topsoil (with a thickness ranging from approximately 0.20 m to 0.33 m) was generally described as silty clay to a maximum depth of approximately 9.5 mbgs followed by a glacial till (silty clay with sand, gravel, cobbles and boulders) to a maximum depth of approximately 9.8 mbgs. No bedrock was encountered within the borehole/test pit locations previously completed at (or in close vicinity to) the Subject Property; however, it was noted that refusal and/or bedrock was observed from 0 mbgs to 9.3 mbgs at several borehole locations within the Cardinal Creek Village subdivision. In addition, the 2013 PGI Geotechnical Investigation indicated that based on available geological mapping, the bedrock in the area was expected to range from 15 mbgs to 50 mbgs (west of the Subject Property) and from 0 mbgs to 10 mbgs (east of the Subject Property).

Bedrock was not encountered in any of the borehole locations completed at the Phase One Property to a maximum termination depth of approximately 14.0 mbgs. As such, the Phase One Property is not a “shallow soil property” as defined in O. Reg. 153/04. According to the 2013 PGI Geotechnical Investigation bedrock in the vicinity of the Phase One Property is anticipated between ground surface at a maximum of 50 mbgs.

Hydrology

- ✓ Groundwater flow was inferred to flow to the northwest towards Cardinal Creek, located approximately 210 m to the west of the Phase One Property and determined to flow to the west as part of the 2018 RiskCheck Phase Two ESA at the Phase One Property.

A review of the 2018 RiskCheck Phase Two ESA indicated that groundwater was encountered at the south portion of the Subject Property at depths ranging from approximately 0.81 mbgs (in MW2) to 2.04 mbgs (in MW3), and from approximately 0.92 mbgs (in MW2) to 2.21 mbgs (in MW3). In addition, the horizontal groundwater gradient was determined by RiskCheck to be approximately 0.05 m/m at that time.

According to the 2021 LRL Geotechnical Investigation the estimated hydraulic conductivity for the silty clay layer at the Phase One Property was approximately 5×10^{-8} m/sec while the silt and clay layer was approximately 5×10^{-6} m/sec. The permeability of the soil was reportedly not determined.

As previously stated, it is expected that groundwater levels would seasonally fluctuate, and groundwater levels may be different, if monitored at different points in time. An updated hydrogeological investigation would be required to accurately assess the current soil permeability and other hydrogeological characteristics for the Phase One Property.

Potentially Contaminating Activities

RiskCheck identified potentially contaminating activities (PCAs) on the Phase One Property as presented in the following table:

Potentially Contaminating Activity (PCAs) ¹	Location of PCA (on-site or off-site)	Description
PCA 30 – Importation of Fill Material of Unknown Quality	On-Site	Based on interviews with the site representative, an estimated “200 loads” of clay fill materials were reportedly historically placed on south/southeast portion of the Subject Property. In addition, a berm consisting of topsoil formerly utilized on the parking lot of neighbouring property approximately 20 m to the west of the Subject Property at 1123 Old Montreal Road was reportedly historically placed on the south/southeast portion of the Subject Property and graded (over the clay fill materials).

Notes: 1 – PCA list obtained from Table 2, Schedule D of O. Reg. 153/04 (as amended)

PCAs and associated APEC and contaminants of potential concern (CoPC) that were identified as part of the 2018 RiskCheck Phase One ESA are presented in the table below:

"Table of areas of potential environmental concern" (Refer to clause 16(2)(a), Schedule D, O. Reg. 153/04)

APEC ¹	Location of APEC on the Phase One Property	PCAs ²	Location of PCA (on-site or off-site)	Contaminants of Potential Concern (CoPC) ³	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC-1	South/southeast portion of the Phase One Property	PCA 30 – Importation of Fill Material of Unknown Quality	On-site	PHCs, BTEX, PAHS, Metals & Inorganics	Soil and Groundwater

Notes: 1 - Areas of potential environmental concern means the area on, in or under a Phase One Property where one or more contaminants are potentially present, as determined through the Phase One Environmental Site Assessment, including through; (a) identification of past or present uses on, in or under the Phase One Property, and (b) identification of potentially contaminating activity.
2 - Potentially Contaminating Activity (PCA) means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a Phase One Study Area
3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

List of Method Groups

ABNs	PCBs	Metals	Electrical Conductivity
CPs	PAHs	AS, Sb, Se	Cr (VI)
1,4-Dioxane	THMs	Na	Hg
Dioxins/Furans, PCDDs/PCDFs	VOCs	B-HWS	Methyl Mercury
OCs	BTEX	Cl-	Low or high pH
PHCs	Ca, Mg	CN-	SAR

RiskCheck completed a Phase Two ESA in 2018 at the Subject Property to assess the above PCA and associated APEC. Details of this investigation at the south and southeast portion of the Phase One Property is documented in Section 3.1.6. There were no exceedances above the current applicable MECF

Standards identified in soil and groundwater samples collected at the south/southeast portion of Phase One Property (see natural background discussion below) for one or more of the identified CoPCs in soils and groundwater (i.e., PHC F1 to F4, BTEX, PAHs and metals and inorganics (inclusive of arsenic, lead, zinc, cyanide, hexavalent chromium, mercury, selenium, electrical conductivity [EC], sodium adsorption ratio [SAR], hot water soluble boron, and pH).

RiskCheck notes that elevated levels of cobalt and vanadium concentrations were found in all of the boreholes completed at the Subject Property in similar concentrations ranging between 20 µg/g and 27 µg/g for cobalt in six soils samples collected and one duplicate sample and ranging between 91 µg/g and 130 µg/g for vanadium in six soils samples collected and one duplicate sample.

Based on a review of available records in the Ottawa area, RiskCheck noted that native clay soils associated with post-glacial Champlain Sea marine deposits commonly have elevated levels of trace metals, including barium, boron, chromium, cobalt and vanadium. A study presented at GeoOttawa 2017 for the Eastern Region of Ontario found that typical metals including cobalt and vanadium were elevated in the post-glacial Champlain Sea marine deposits. Based on the surficial geology in the Phase Two Study Area and the observed clay at the Subject Property, it was RiskCheck's opinion that the cobalt and vanadium exceedances in soil (i.e., above the MECP Table 2 Standards) are likely naturally occurring background levels and would not be associated with any anthropogenic (man-made) sources of impact.

Further justification for the application of natural background levels include the contaminant concentration at the Subject Property in the locations investigated increasing with depth or remaining consistent at depth which is atypical of contamination from onsite PCAs that generally affect the surface soils and that of subsurface soils at expected lowered concentrations. Furthermore, since soil samples submitted were collected from native soils, and the concentrations were generally similar to those noted in the submitted samples from the suspected fill materials (likely mixed with imported topsoil), it is further indicative that the above noted soil exceedances are likely related to natural background levels and the fill materials may have been relocated from soil obtained in the vicinity of the Subject Property. Finally, concentrations of cobalt and vanadium in groundwater from the monitoring wells installed in borehole MW1 to MW3 were either non-detectable or significantly below the MECP Table 2 Standards.

As per the recent amendment to Ontario Regulation (O. Reg.) 153/04 (i.e., O. Reg. 407/19, filed and published on December 4, 2019), the MECP Table 2 Standards are deemed to have been met if the identified concentrations do not exceed the naturally occurring range of concentrations of that contaminant typically found within the area where the Subject Property is located. A review of the applicability of the excess soils management amendment to O. Reg. 153/04 (i.e., O. Reg. 407/19) was not completed at that time.

The Phase One Study Area and PCAs on the Subject Property that do not contribute to an APEC on the Phase One Property are presented on Figure No. 4 in Appendix A (Detailed Site and Surrounding Land Use Plan and On-site PCAs that do not contribute to APECs).

Neighbouring Properties

RiskCheck identified potentially contaminating activities (PCAs) in the Phase One Study Area as presented in the following table:

Potentially Contaminating Activity (PCAs) ¹	Location of PCA (on-site or off-site)	Description
PCA 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-site	Former Laporte Flowers and Nursery Lands located adjacent to the east of the Phase One Property including the potential for large-scale applications of pesticides
PCA Not Defined (ND) ² – “A”	Off-site	A spill of an unknown quantity of motor oil to a catch basin at 1105 Old Montreal Road
PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks	Off-site	An aboveground storage tank containing diesel located at the neighbouring residential property to the south at 1208 Old Montreal Road. Based on available information in 2016, The PHC and BTEX impacted soil and groundwater was noted to be located at the southeast portion of this neighbouring property located approximately 120 m to the southeast of the Phase One Property
PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks	Off-site	Vent and fill pipes observed approximately 50 m to the southeast at 1201 Old Montreal Road and suspected historical heating in the form of fuel oil at the residential dwellings along Old Montreal Road to the east, south, southeast and southwest of the Phase One Property

Notes: 1 – PCA list obtained from Table 2, Schedule D of O. Reg. 153/04 (as amended)
2 – PCA was not defined (ND) in Table 2, Schedule D of O. Reg. 153/04 (as amended)

The adjacent land to the east (currently occupied by residential properties along Cartographe Street associated with the Cardinal Creek Village subdivision) may have been formerly utilized as agricultural land for the Laporte Flowers and Nursery (i.e., nursery land) from approximately the mid-1960s to the early 2010s. A review of available aerial photographs from approximately the mid-1960s to the present depicted greenhouses and/or farmstead buildings presumably associated with this nursery land, located greater than 250 m to the northeast of the Phase One Property (outside the Phase One Study Area). RiskCheck notes Laporte Flowers and Nursery was located at 455 Famille-Laporte Avenue (approximately 260 m to the north/northeast of the Phase One Property) and the associated lands including the adjacent lands to the east may have included the potential for large-scale applications of pesticides (PCA 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications). However, pesticides tend to remain in the surface soil and would be relatively insoluble in water. Therefore, any residual pesticides would be expected to remain in the surface soils at the neighbouring property. The primary operations of this nursery was located outside the Phase One Study Area. Based on the available information to-date, results of the previous environmental reports, the relatively low permeability of soils in the Phase One Study Area and minimal area of nursery lands located adjacent to the east, the potential for significant contaminant migration to the Subject Property from the former adjacent nursery land appears to be low at this time.

One record for a spill of an unknown quantity of motor oil to a catch basin due to a motor vehicle collision/accident (PCA Not Defined – “A”) was noted in the ERIS report (See Section 3.2.1 for details) for the neighbouring property located approximately 100 m to the southwest of the Phase One Property at

1105 Old Montreal Road in 2018. Based on the available information to-date, the distance from the Phase One Property and the inferred groundwater flow direction, the potential for significant contaminant migration to the Subject Property from this spill appears to be low at this time.

A review of the 2016 EXP Phase II ESA report for the neighbouring property located approximately 80 m to the southeast of the Phase One Property at 1208 Old Montreal Road identified PHC and BTEX contamination in soil and groundwater at this neighbouring property as a result of a former AST containing diesel reportedly utilized to refuel farm vehicles at this neighbouring property (PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks). It appeared that delineation was achieved for the impacted soil and groundwater noted at 1208 Old Montreal Road during the 2016 EXP Phase II ESA and that there was no offsite migration of the identified petroleum impacts on this neighbouring property. In addition, it appeared that the impacted soil and groundwater was located approximately 120 m to the southeast of the Phase One Property. Based on the available information to-date, reported removal of the AST and the distance of the impacted soil and groundwater from the Phase One Property, the potential for significant contaminant migration to the Subject Property from this neighbouring property appears to be low at this time.

Based on the initial development of the neighbouring properties to the east, south, southeast and southwest along Old Montreal Road, it is possible that these properties could have been historically heated by fuel oil (PCA 28 – Gasoline and Associated Products Storage in Fixed Tanks). A vent pipe and a fill pipe were observed to be protruding from the south exterior side of the residential dwelling approximately 50 m to the southeast of the Phase One Property at 1201 Old Montreal at the time of the site visit (as presented on Figure No. 3 and Figure No. 4 in Appendix A). Based on available information, this vent pipe and fill pipe are likely associated with fuel oil storage in an AST in the basement of the residential building on this neighbouring property. In addition, the 2016 EXP Phase I ESA report noted that there were heating oil tanks (ASTs) located in the basement of the residential dwelling located approximately 190 m to the southeast of the Phase One Property at 1180 Old Montreal Road, and in the basement of the farmhouse at 1208 Old Montreal Road, located approximately 80 m to the southeast of the Phase One Property (approximately 125 m from the Phase One Property to the AST location). In addition, it was reported that a former heating oil tank was located in the basement of the residential dwelling located approximately 130 m to the south of the Phase One Property at 1176 Old Montreal Road (which was reportedly recently converted to propane). Based on the available information to-date, and our site observations, no obvious visual evidence of USTs (i.e., no vent and/or fill pipes or fill ports suspected to be associated with USTs) were observed from public properties and/or publicly accessible portions of the neighbouring properties. Given the information above, RiskCheck also notes that historical fuel oil storage at any remaining neighbouring residential buildings were likely within ASTs in the basements (similar to residential buildings in the Phase One Study Area previously discussed). Based on the available information to-date, results of the previous environmental reports, the relatively low permeability of soils in the Phase One Study Area, and the likely use of ASTs to store fuel oil, the potential for significant contaminant migration to the Phase One Property from the past sources of heating on these neighbouring properties to the east, south, southeast and southwest along Old Montreal Road appears to be low.

The Phase One Study Area and PCAs on the neighbouring properties that do not contribute to an APEC on the Phase One Property are presented on Figure No. 3 in Appendix A (Site and Surrounding Land Use Plan and Off-site PCAs that do not contribute to APECs).

Areas of Potential Environmental Concern

As discussed above, based on a review of the previous environmental reports, including the 2018 RiskCheck Phase One ESA report, the 2018 RiskCheck Phase Two ESA report, the 2016 EXP Phase I report and the 2016 EXP Phase II report, none of the identified on-site or off-site PCAs resulted in APECs on the Phase One Property.

Uncertainty or Data Gaps

There were no uncertainties or data gaps that raise questions regarding the reliability of the work performed.

7. CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase One ESA, the following conclusions and recommendations were made at this time.

7.1. Record of Site Condition Based on a Phase One ESA Alone

Based on the information available at this time including a review of the previous environmental reports (including the 2018 RiskCheck Phase One ESA report, the 2018 RiskCheck Phase Two ESA report, the 2016 EXP Phase I report and the 2016 EXP Phase II report), none of the identified PCAs resulted in APECs on the Phase One Property. Therefore, an RSC can be filed based on this Phase One ESA alone. It does not appear submission of an RSC is required at this time.

7.2. Whether Phase Two ESA Required Before Record of Site Condition Submitted

Based on the findings of the Phase One ESA, there were no potentially contaminating activities (PCAs) that resulted in areas of potential environmental concern (APECs) at the Phase One Property at this time.

A Phase Two ESA is not recommended for the Phase One Property at this time and thus a Phase Two ESA would not be required before an RSC is submitted.

At the time of issuance of this report, a response had not been received from the Ontario Ministry of the Environment, Conservation and Parks (MECP) Freedom of Information and Privacy Office regarding a search of their records for any pertinent information on the Phase One Property. Should further information be received which alters the conclusions of this report, an addendum will be forwarded to the Client.

7.3. Signatures

RiskCheck confirms that the undersigned Qualified Persons have carried out and/or supervised the Phase One ESA and the findings and conclusions of this report have been assessed by Qualified Persons. For Assessor qualifications see Section 10.

We trust the information presented herein meets your requirements. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Yours truly,

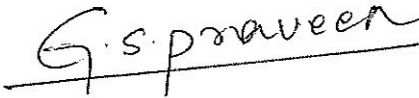
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8. REFERENCES

The following documents and reports were used in this Phase One ESA report:

- ✓ Ontario Regulation (O. Reg.) 153/04 – Records of Site Condition – Part XV.1 of the Act; last amendment: O. Reg. 214/21 on March 19, 2021.
- ✓ “Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act”, MECP, dated April 15, 2011.
- ✓ “Guide for Completing Phase One Environmental Site Assessments under Ontario Regulation 153/04”, Queen’s Printer of Ontario. June 2011.
- ✓ “Guide for Completing Phase Two Environmental Site Assessments under Ontario Regulation 153/04”, Queen’s Printer of Ontario. June 2011;
- ✓ “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act”, MECP, dated June 2011;
- ✓ “Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario”, MECP, dated December 1996;
- ✓ “Guideline for Use at Contaminated Sites in Ontario”, MECP, dated February 1997;
- ✓ “Phase I – Environmental Site Assessment, Proposed Cardinal Creek Village Subdivision Lands, Old Montreal Road, Ottawa (Cumberland), Ontario” report, prepared by Paterson Group Inc. (PGI) for Taggart Group of Companies, dated November 7, 2012;
- ✓ “Existing Conditions Report: Hydrogeology, Cardinal Creek Village, Ottawa (Cumberland), Ontario” report, prepared by PGI for Tamarack (Queen Street) Corporation, dated December 13, 2012, and updated June 28, 2013;
- ✓ “Geotechnical Investigation, Proposed Cardinal Creek Village, Residential/Commercial Development, Old Montreal Road, Ottawa, Ontario” report prepared by PGI for Tamarack (Queen Street) Corporation, dated July 16, 2013;
- ✓ “Phase I Environmental Site Assessment, 1154, 1172, 1176, 1180, and 1208 Old Montreal Road, Ottawa, Ontario” report, prepared by exp Services Inc. (EXP) for DCR/Phoenix Group of Companies, dated August 19, 2016;
- ✓ “Phase II Environmental Site Assessment, 1208 Old Montreal Road, Ottawa, Ontario” report, prepared by EXP for DCR/Phoenix Group of Companies, dated September 13, 2016;
- ✓ “Preliminary Geotechnical Investigation, Proposed Residential Subdivision, 1154-1208 Old Montreal Road, Ottawa (Formerly Township of Cumberland), Ontario” report, prepared by EXP for DCR/Phoenix Group of Companies, dated November 7, 2016;



- ✓ *"Desktop Hydrogeological Study, 1208 Old Montreal Road, Ottawa, Ontario"* report, prepared by EXP for Michael Boucher (Manager of Planning) of Phoenix Homes, dated January 30, 2018.
- ✓ *"Phase One Environmental Site Assessment, Vacant Land, North of Old Montreal Road, Ottawa, Ontario"* report, prepared by RiskCheck for Arch, dated September 19, 2018.
- ✓ *"Phase Two Environmental Site Assessment, Vacant Land, North of Old Montreal Road, Ottawa, Ontario"* report, prepared by RiskCheck for Arch, dated November 16, 2018.
- ✓ *"Preliminary Geotechnical Investigation, Vacant Property, North of Old Montreal Road and East of Famille-Laporte Avenue, Ottawa, Ontario"* report, prepared by RiskCheck for Arch, dated September 19, 2018.
- ✓ *"Geotechnical Investigation, Proposed Four (4) Storey Long Term Care, Old Montreal Road and Famille-Laporte Avenue, Ottawa, Ontario"* report, prepared by LRL Associates Ltd. (LRL) for Arch, dated October 2021.
- ✓ *"ERIS Database Report"* completed for the Vacant Land, North of Old Montreal Road, Ottawa, Ontario, prepared by Environmental Risk Information Services (ERIS), a division of Glacier Media Inc., dated August 24, 2021.
- ✓ "City of Ottawa Official Plan". Consolidation A Component of Ottawa 20/20, the City's Growth Management Strategy, Publication 1-32, As Adopted by Council - May 2003
- ✓ "Inventory of Coal Gasification Plant Waste Sites in Ontario". Ministry of the Environment. April 1987.
- ✓ "Inventory of Industrial Sites Producing and Using Coal Tar and Related Tars in Ontario". Ministry of the Environment. November 1988.
- ✓ Barnett, P.J., Cowan, W.R., and Henry, A.P., 1991. "Quaternary Geology of Ontario, Southern Sheet"; Ontario Geological Survey, Map 2556, scale 1:1,000,000.
- ✓ Richard, S.H., 1982. "Surficial Geology of Russell, Ontario"; Ontario and Quebec; Geological Survey of Canada, Map 1507A, scale 1:50,000.
- ✓ Ontario Geological Survey. 1991. "Bedrock Geology of Ontario, Southern Sheet"; Ontario Geological Survey, Map 2544, scale 1:1,000,000.
- ✓ "Elevated Background Metals Concentrations in Champlain Sea Clay - Ottawa Region", Sean Sterling and Kenneth Raven of Geofirma Engineering Ltd, Ottawa, ON, Canada, Brent Loney and Asia Reid, Dillon Consulting Limited., Ottawa, ON, Canada and Brad Carew City of Ottawa, Ottawa, ON, Canada; study presented at GEO Ottawa 2017.

Other references were collected from various sources obtained from various locations as noted below:

- ✓ Google Earth;

- ✓ City Directories at the Toronto Reference Library and the City of Ottawa Archives;
- ✓ The Ontario Ministry of Natural Resources online Natural Heritage Map;
- ✓ The MECP Source Protection Information Atlas;
- ✓ The MECP well records map;
- ✓ Permits To Take Water (PTTWs) were reviewed from the online MECP database;
- ✓ The Atlas of Canada interactive topographic maps from Natural Resources Canada obtained from <http://atlas.nrcan.gc.ca/toporama/en/index.html>;
- ✓ Source water protection, and land use mapping from the Ottawa Region via geoOttawa;
- ✓ Various online MECP databases for the Hazardous Waste Information Network (HWIN), Environmental Compliance Reports, Environmental Penalty Annual Reports, small and large landfill sites, PCB Storage Sites, Environmental Compliance Approvals, Environmental Activity and Sector Registry, and Brownfields Environmental Site Registry;
- ✓ Title search was compiled by Meridian Land and Title in coordination (contact) with the Ottawa/Carlton Registry Office, Ontario on August 14, 2018;
- ✓ City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004;
- ✓ MECP document titled “Waste Disposal Site Inventory in Ontario”;
- ✓ MECP Freedom of Information and Privacy Office (results pending);
- ✓ City of Ottawa Historical Land Use Inventory (HLUI) Database;
- ✓ Map reference information used in the Figure Nos. 1 to 4 from Natural Resources Canada – Toporama and Google Earth (from Digital Globe images); and
- ✓ Aerial photographs for 1965, 1979, 1985 and 1994 in Appendix F from LGI Copy Service Canada.



9. LIMITATIONS

This report has been prepared for Arch Corporation (Client). The information and conclusions outlined in this report cannot be used by third parties without the expressed written consent of the Client and RiskCheck.

It should be noted that the findings and results contained in this report are limited to site conditions at the time of the Phase One ESA and information obtained from available documents, records and interviews. RiskCheck does not claim responsibility for undisclosed environmental concerns that may result in costs for environmental clean-up, remediation or any other consequential loss.

Any quantities or areas (including but not limited to damaged areas, mould affected areas, asbestos or lead containing materials, chemicals, contaminated media) provided in this report are order-of-magnitude values or estimates and should not be considered as exact values. Should there be a requirement for abatement (e.g., asbestos, lead or mould) or remediation services (e.g., soil or groundwater), the estimated quantities or areas noted are not to be used for tender documents or providing quotations or for any other business decisions without prior consent from RiskCheck. A more detailed site investigation may be required to verify the quantity and/or areas of materials and site conditions that may affect the overall project cost. Furthermore, it is important to note that the conditions of the potential hazardous building materials or areas of subsurface contamination may have changed since the time of the RiskCheck site visit or investigation. RiskCheck will not be held responsible for any deviations in the estimated quantities or areas documented.

The limitations outlined herein are supplemental to our Limitations, Terms and Conditions of Retainer, attached to this report as Appendix H and applies to all work performed.



10. QUALIFICATIONS OF ASSESSORS

RiskCheck Environmental Ltd. is a privately held Canadian company incorporated in 1999. Our mandate is to remain solely focused on providing top quality Environmental Consulting Services.

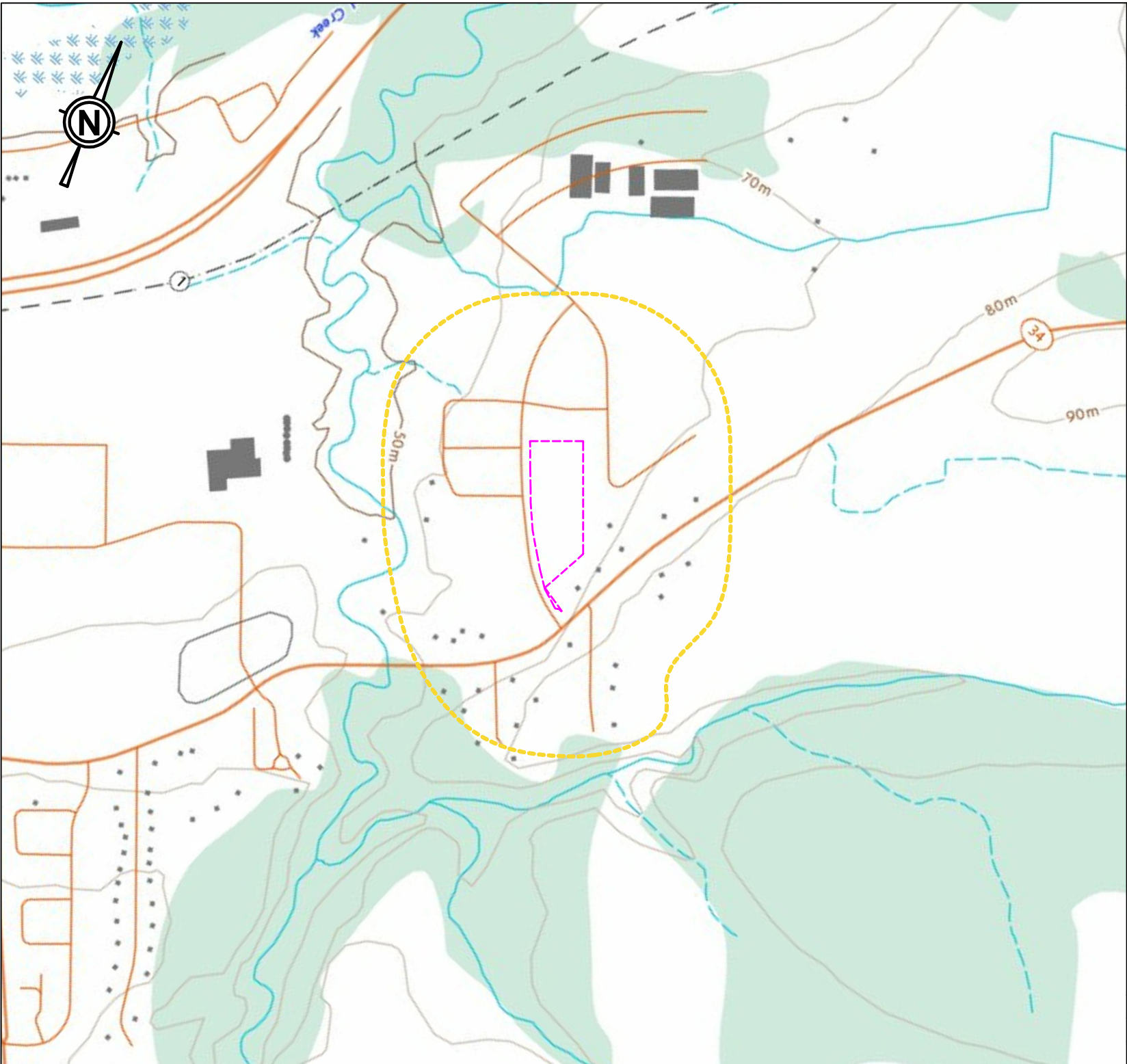
Mr. Praveen Gurukar, P.Eng. has over 15 years of environmental consulting, project management and contracting experience including Phase One ESA, Phase II ESA, and contaminated site remediation projects for real estate and financing due diligence, property risk management and compliance, and brownfields re-development. Mr. Gurukar is responsible for technical review, technical proposals, project management, and management of junior staff. Mr. Gurukar graduated from the University of Windsor with a Master of Applied Science in Environmental Engineering degree, and is licensed with the Professional Engineers Ontario, and is a Qualified Person for environmental site assessments as defined in the amended O. Reg. 153/04.

Mr. Pierre D'Angelo has over 12 years of environmental consulting and contracting experience across Canada with Phase One ESA, Phase II ESA and contaminated site remediation projects for; real estate and financing due diligence, property risk management, brownfield re-development and the downstream petroleum sector. Mr. D'Angelo is responsible for project management and management of junior staff, report preparation, technical review and technical proposals. Mr. D'Angelo graduated from Queen's University in 2008 with a degree in Civil Engineering. Mr. D'Angelo is licensed with the Professional Engineers Ontario and is a Qualified Person for environmental site assessments as defined in the amended O. Reg. 153/04.

Mr. Mitchell Reynolds, EIT has over two years of experience in environmental consulting including Phase I ESAs, Phase II ESAs and Environmental, Health and Safety inspections at various properties in Ontario. Mr. Reynolds graduated from the University of Guelph with a degree in Environmental Engineering and is current registered as an Engineer-in-Training (EIT) by Professional Engineers Ontario. Mr. Reynolds was responsible for reviewing historical information, site reconnaissance, and report preparation and writing.

APPENDIX A

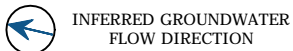
FIGURES



LEGEND

- - - PHASE ONE PROPERTY BOUNDARY
- - - PHASE ONE STUDY AREA

NOTES
 - SOURCE: NATURAL RESOURCES CANADA - TOPORAMA, ACCESSED SEPTEMBER 2021
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE AND ARE NOT TO SCALE



INFERRED GROUNDWATER FLOW DIRECTION

FIGURE TITLE:
LOCATION PLAN

PROJECT ADDRESS:
**VACANT LAND NORTH OF
 OLD MONTREAL ROAD,
 OTTAWA, ONTARIO**

DATE: SEPTEMBER 10, 2021		1
DRAWN BY: J. KELBERT	REVIEWED BY: P. D'ANGELO	
SCALE: NOT TO SCALE	PROJECT NO: 29870	

LEGEND

- PHASE ONE PROPERTY BOUNDARY
- PHASE ONE STUDY AREA
- RESIDENTIAL
- COMMERCIAL
- INSTITUTIONAL
- UNDEVELOPED LAND
- VACANT LAND
- PARKLAND
- AGRICULTURAL OR OTHER USE
- CREEK LOCATION
- MECP MONITORING WELL (ERIS REPORT MAP KEY)

NOTES
 - SOURCE: GOOGLE EARTH 2021, ERIS REPORT DATED AUGUST 24, 2021
 - MECP MAP: WELL RECORDS ACCESSED SEPTEMBER 2021
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE
 - MECP: MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS

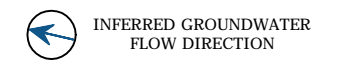


FIGURE TITLE:
PHASE ONE STUDY AREA AND LAND USE PLAN

PROJECT ADDRESS:
VACANT LAND NORTH OF OLD MONTREAL ROAD, OTTAWA, ONTARIO

DATE: SEPTEMBER 10, 2021	FIGURE: 2
DRAWN BY: J. KELBERT	REVIEWED BY: P. D'ANGELO
SCALE: AS SHOWN	PROJECT NO: 29870



LEGEND

- PHASE ONE PROPERTY BOUNDARY
- PHASE ONE STUDY AREA
- RES RESIDENTIAL
- COM COMMERCIAL
- INST INSTITUTIONAL
- CREEK LOCATION
- VENT PIPE
- FILL PIPE
- # PCA DOES NOT CONTRIBUTE TO APEC
- # OBSERVED MONITORING WELL/PIEZOMETER

LIST OF OFFSITE PCAs THAT DO NOT CONTRIBUTE TO APECs:

- A PCA NOT DEFINED - SPILL OF AN UNKNOWN QUANTITY OF MOTOR OIL TO A CATCH BASIN AT 1105 OLD MONTREAL RD.
 - 28 GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS - SUSPECTED FORMER FUEL OIL STORAGE FOR HEATING AT THE RESIDENTIAL PROPERTIES ALONG OLD MONTREAL RD (TO THE EAST, SOUTH, SOUTHEAST AND SOUTHWEST OF THE PHASE ONE PROPERTY). VENT AND FILL PIPES OBSERVED AT 1201 OLD MONTREAL RD. FORMER AST CONTAINING DIESEL AT 1208 OLD MONTREAL RD AND PETROLEUM IMPACTED SOIL AND GROUNDWATER IN THE VICINITY OF THIS FORMER AST.
 - 40 PESTICIDES (INCLUDING HERBICIDES, FUNGICIDES AND ANTI-FOULING AGENTS) MANUFACTURING, PROCESSING, BULK STORAGE AND LARGE-SCALE APPLICATIONS - FORMER LAPORTE FLOWERS AND NURSERY LANDS LOCATED ADJACENT TO THE EAST OF THE SUBJECT PROPERTY (685-717 AND 675-683 CARTOGRAPHE ST).
- IN BRIEF, THE ABOVE PCAs IDENTIFIED IN THE PHASE ONE STUDY AREA DO NOT CONTRIBUTE TO APECs ON THE SUBJECT PROPERTY BASED ON PROXIMITY TO THE PHASE ONE PROPERTY OR PREVIOUS SUBSURFACE INVESTIGATIONS

NOTES

- SOURCE: GOOGLE EARTH 2021
- FOR ILLUSTRATIVE PURPOSES ONLY
- ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE
- PCAs: POTENTIALLY CONTAMINATING ACTIVITIES
- APEC: AREA OF POTENTIAL ENVIRONMENTAL CONCERN
- AST: ABOVEGROUND STORAGE TANK



INFERRED GROUNDWATER FLOW DIRECTION

FIGURE TITLE:
SITE AND SURROUNDING LAND USE PLAN AND OFFSITE PCAs THAT DO NOT CONTRIBUTE TO APECs

PROJECT ADDRESS:
VACANT LAND NORTH OF OLD MONTREAL ROAD, OTTAWA, ONTARIO

DATE: SEPTEMBER 10, 2021

FIGURE:

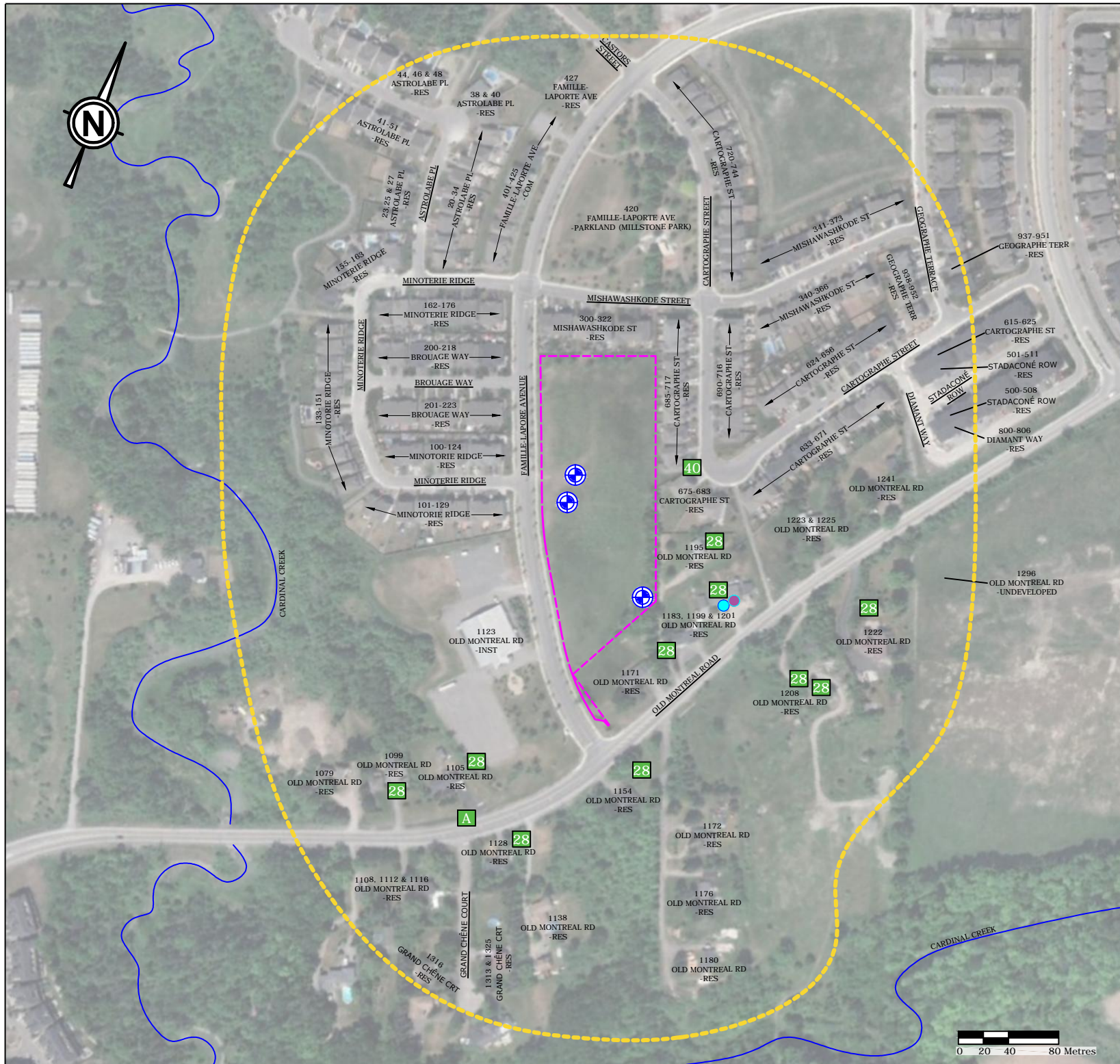
DRAWN BY:
J. KELBERT

REVIEWED BY:
P. D'ANGELO

3

SCALE:
AS SHOWN

PROJECT NO:
29870





LEGEND

- - - PHASE ONE PROPERTY BOUNDARY
- RES RESIDENTIAL
- COM COMMERCIAL
- INST INSTITUTIONAL
- CREEK LOCATION
- VENT PIPE
- FILL PIPE
- 30 PCA DOES NOT CONTRIBUTE TO APEC
- + OBSERVED MONITORING WELL/PIEZOMETER

LIST OF ONSITE PCAs THAT DO NOT CONTRIBUTE TO APECs:

30 IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY - IMPORTATION OF CLAY FILL MATERIALS AND TOPSOIL OF UNKNOWN QUALITY ON THE SOUTH AND SOUTHEAST PORTIONS OF THE PHASE ONE PROPERTY.

IN BRIEF, PCAs DO NOT CONTRIBUTE TO APECs AT THE SUBJECT PROPERTY BASED ON PREVIOUS SUBSURFACE INVESTIGATIONS.

- NOTES**
- SOURCE: GOOGLE EARTH 2021
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE
 - PCAs: POTENTIALLY CONTAMINATING ACTIVITIES
 - APEC: AREA OF POTENTIAL ENVIRONMENTAL CONCERN

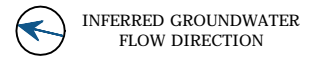


FIGURE TITLE:
DETAILED SITE AND SURROUNDING LAND USE PLAN AND ONSITE PCAs THAT DO NOT CONTRIBUTE TO APECs

PROJECT ADDRESS:
VACANT LAND NORTH OF OLD MONTREAL ROAD, OTTAWA, ONTARIO

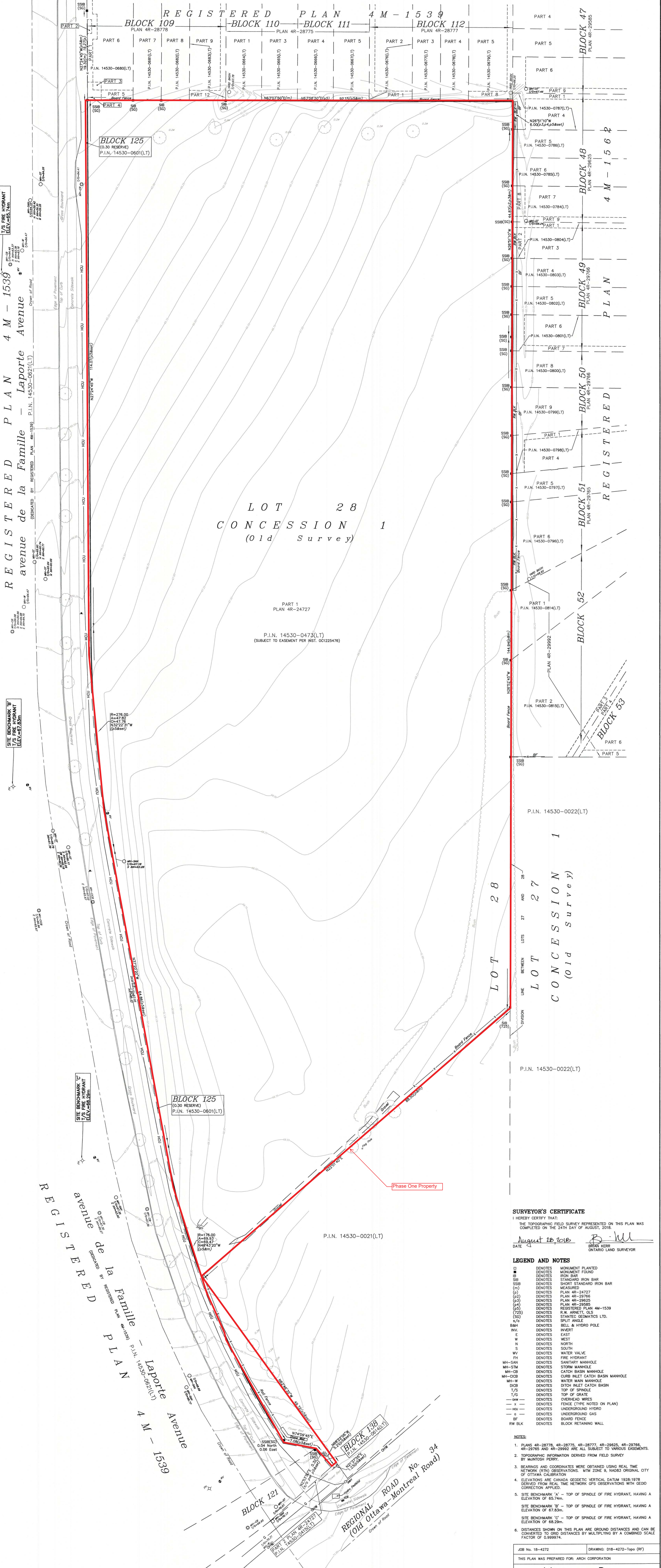
DATE: SEPTEMBER 10, 2021	FIGURE:
DRAWN BY: J. KELBERT	REVIEWED BY: P. D'ANGELO
SCALE: AS SHOWN	PROJECT NO: 29870

APPENDIX B

PLAN OF SURVEY

TOPOGRAPHIC SURVEY OF PART OF LOT 28 CONCESSION 1 (Old Survey) GEOGRAPHIC TOWNSHIP OF CUMBERLAND CITY OF OTTAWA
 McINTOSH PERRY SURVEYING INC

SCALE 1 : 250
 METRIC
 DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.



SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY THAT THE TOPOGRAPHIC FIELD SURVEY REPRESENTED ON THIS PLAN WAS COMPLETED ON THE 24TH DAY OF AUGUST, 2018.
 August 28, 2018
 BRIAN KERR
 ONTARIO LAND SURVEYOR

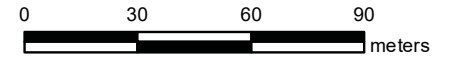
- LEGEND AND NOTES**
- DENOTES MONUMENT PLANTED
 - DENOTES MONUMENT FOUND
 - SB DENOTES IRON BAR
 - SSB DENOTES STANDARD IRON BAR
 - (S) DENOTES SHORT STANDARD IRON BAR
 - (M) DENOTES MEASURES
 - (P) DENOTES PLAN 4R-24727
 - (C-2) DENOTES REGISTERED PLAN 4R-29786
 - (P-3) DENOTES PLAN 4R-29625
 - (P-4) DENOTES PLAN 4R-29625
 - (C-5) DENOTES REGISTERED PLAN 4M-1539
 - (725) DENOTES R.W. ARNETT, O.L.S.
 - (S) DENOTES STANTEC GEOMATICS LTD.
 - 3/4 DENOTES SPLIT ANGLE
 - B&H DENOTES BELL & HYDRO POLE
 - INV. DENOTES INVERT
 - E DENOTES EAST
 - W DENOTES WEST
 - N DENOTES NORTH
 - S DENOTES SOUTH
 - WV DENOTES WATER VALVE
 - FH DENOTES FIRE HYDRANT
 - MH-SAN DENOTES SANITARY MANHOLE
 - MH-STM DENOTES STORM MANHOLE
 - MH-CB DENOTES CATCH BASIN MANHOLE
 - MH-CIB DENOTES CURB INLET CATCH BASIN MANHOLE
 - MH-W DENOTES WATER MAIN MANHOLE
 - DICB DENOTES DITCH INLET CATCH BASIN
 - T/S DENOTES TOP OF SPINDLE
 - T/G DENOTES TOP OF GRATE
 - OW DENOTES OVERHEAD WIRES
 - X DENOTES FENCE (TYPE NOTED ON PLAN)
 - HU DENOTES UNDERGROUND HYDRO
 - G DENOTES UNDERGROUND GAS
 - BF DENOTES BOARD FENCE
 - RW BLK DENOTES BLOCK RETAINING WALL
- NOTES:**
- PLANS 4R-28778, 4R-28775, 4R-28777, 4R-29625, 4R-29786, 4R-29785 AND 4R-29992 ARE ALL SUBJECT TO VARIOUS EASEMENTS.
 - TOPOGRAPHIC INFORMATION DERIVED FROM FIELD SURVEY BY McINTOSH PERRY.
 - BEARINGS AND COORDINATES WERE OBTAINED USING REAL TIME NETWORK (RTN) OBSERVATIONS. MTM ZONE 9, NAD83 ORIGINAL CITY OF OTTAWA CALIBRATION.
 - ELEVATIONS ARE CANADA GEODETIC VERTICAL DATUM 1928:1978 DERIVED FROM REAL TIME NETWORK GPS OBSERVATIONS WITH GEOD CORRECTION APPLIED.
 - SITE BENCHMARK 'A' - TOP OF SPINDLE OF FIRE HYDRANT, HAVING AN ELEVATION OF 65.74m.
 - SITE BENCHMARK 'B' - TOP OF SPINDLE OF FIRE HYDRANT, HAVING AN ELEVATION OF 67.83m.
 - SITE BENCHMARK 'C' - TOP OF SPINDLE OF FIRE HYDRANT, HAVING AN ELEVATION OF 68.20m.
 - DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.9999974.

JOB No. 18-4272 DRAWING: D18-4272-Topo (RF)
 THIS PLAN WAS PREPARED FOR: ARCH CORPORATION
McINTOSH PERRY SURVEYING INC.
 3240 Drummond Corn. SA, R.R. #7, Perth, ON K7H 3C9
 Tel: 613-267-6524 Fax: 613-267-7992
 www.mcintoshperry.com

APPENDIX C

CHAIN OF TITLE

SCALE



PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

LEGEND

- FREEHOLD PROPERTY
- LEASEHOLD PROPERTY
- LIMITED INTEREST PROPERTY
- CONDOMINIUM PROPERTY
- RETIRED PIN (MAP UPDATE PENDING)
- PROPERTY NUMBER 0449
- BLOCK NUMBER 08050
- GEOGRAPHIC FABRIC
- EASEMENT

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

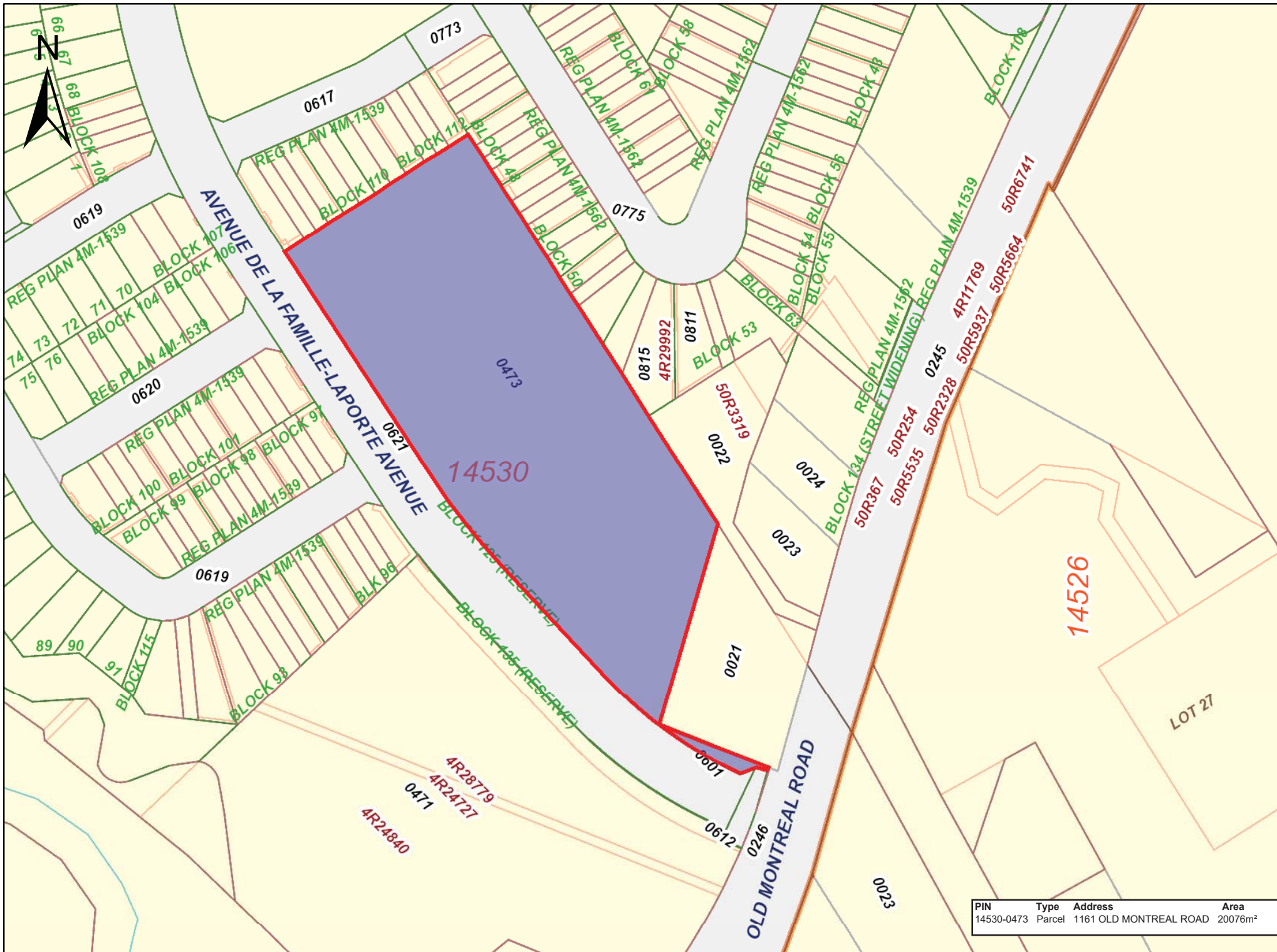
FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



PIN	Type	Address	Area
14530-0473	Parcel	1161 OLD MONTREAL ROAD	20076m ²



PROPERTY DESCRIPTION: PART LOT 28 CONCESSION 1 OS CUMBERLAND PART 1 PLAN 4R24727 EXCEPT PLAN 4M1539; CITY OF OTTAWA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 14530-0418

PIN CREATION DATE:
2015/05/28

OWNERS' NAMES
DIOC II OTTAWA FACILITY INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<i>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2015/05/28 **</i>						
4R24727	2010/08/25	PLAN REFERENCE				C
OC1166122	2010/10/01	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC1169937	2010/10/14	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC1225473	2011/04/15	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
<i>REMARKS: OC1166122, OC1169937</i>						
OC1225476	2011/04/15	TRANSFER EASEMENT		*** DELETED AGAINST THIS PROPERTY *** WORD OF LIFE CHURCH (OTTAWA/HULL)	CITY OF OTTAWA	
OC1453290	2013/02/14	TRANSFER		*** DELETED AGAINST THIS PROPERTY *** WORD OF LIFE CHURCH (OTTAWA/HULL)	CAPITAL CITY CHURCH (CANADA)	
OC1668365	2015/03/23	TRANSFER EASEMENT		*** DELETED AGAINST THIS PROPERTY *** TAMARACK (CARDINAL CREEK) CORPORATION CAPITAL CITY CHURCH (CANADA)	HYDRO ONE NETWORKS INC.	
OC1691326	2015/06/17	TRANSFER REL&ABAND		*** COMPLETELY DELETED *** HYDRO ONE NETWORKS INC.	TAMARACK (CARDINAL CREEK) CORPORATION CAPITAL CITY CHURCH (CANADA) CITY OF OTTAWA	
<i>REMARKS: OC1668365.</i>						
OC1790465	2016/05/27	TRANSFER		*** DELETED AGAINST THIS PROPERTY *** CAPITAL CITY CHURCH (CANADA)	CAPITAL CITY CHURCH PROPERTIES	
OC2056017	2018/11/19	TRANSFER REL&ABAND		*** COMPLETELY DELETED *** CITY OF OTTAWA	CAPITAL CITY CHURCH PROPERTIES	
<i>REMARKS: OC1225476.</i>						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
REGISTRY
OFFICE #4

14530-0473 (LT)

PAGE 2 OF 2
PREPARED FOR riskcheck
ON 2021/08/19 AT 13:17:35

ONLAND

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2220962	2020/05/29	TRANSFER	\$2,900,000	CAPITAL CITY CHURCH PROPERTIES	DTOC II OTTAWA FACILITY INC.	C
REMARKS: PLANNING ACT STATEMENTS.						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Parcel Register
Registre des parcelles

Originally:
Description d'origine:
and
Recently:
Description récente:

Land Titles Division
Division d'enregistrement
des droits immobiliers de

RUSSELL (NO. 50)

Page 1
Parcel 28-1
Parcelle 50-1(O.S.)
Section (CUMBERLAND)



Parcel: 28-1 Estate in Fee Simple with an Absolute Title
Domaine en fief simple à titre absolu
Section: 50-1(OLD SURVEY) CUMBERLAND

Subject to subsequent entries this parcel comprises the following land
Bois réservés des inscriptions ultérieures, cette parcelle se compose de biens-fonds suivants

LEGAL DESCRIPTION: In the Township of Cumberland in the Regional Municipality of Ottawa-Carleton, (formerly in the County of Russell), being composed of Parts of Lots 28 and 29 in Concession 1, Old Survey, designated as PARTS 1, 2, 3, 4 and 5 on Reference Plan number 50R-7211.

Subject to a Right-of-Way as described in instrument number 2541B in, over, along and upon that Part of said Lot 28, designated as PART 2 on Reference Plan number 50R-7211.

0082-50-121 Application 91 08 09

ELSETT REALTY COMPANY LIMITED
(OWNER)

APPROVED FOR FIRST REGISTRATION
UNDER THE LAND TITLES ACT
J. J. [Signature]
DEPUTY DIRECTOR OF LAND REGISTRATION
DATE: 1 August 1991

J. M. [Signature]
ACTING LAND REGISTRAR

4R-8134 92 06 15

Lays out part of the above parcel as
Parts 1 and 2.

D. McKay Dep L.R.

776063 TRANSFER & RE-ENTRY 92 06 22
Part of the above parcel being part of Lot 29, Concession 1, (Old Survey), designated as Parts 1 and 2 on Plan 4R-8134, is now entered as Parcel 28-2 in the Register for Section 50-1 (O.S.) Cumberland.

[Signature] L.R.

4R-8326 92 08 05

Lays out Part of the above parcel as
Parts 9, 10, 11, 12, 13, 14, 15, 21,
22, 23, 28, 29, 31, 32, 33, 34, 35.

Previous

115 of 416

Next

[Signature] L.R.

Registration Number	Instrument Type	Registration Date	Parties to	Consideration	Land/Remarks
			(Applicant, Cautoner, Claimant, etc)		

Registre des parcelles

Page 2
 Parcelle 28-1
 Section 50-1 (O.S.)
 (Cumberland)

Registration Number Numéro d'enregistrement	Instrument Type Type d'acte	Registration Date Date d'enregistrement YY MM DD AA MM JJ	Parties to Parties (Applicant, Cautions, Claimant, etc.) (Demandeur, auteur de l'avertissement, réclamaient, etc.)	Consideration Contrepartie	Land/Remarks Bien-fonds/Observations
786382	TRANSFER & RE-ENTRY	92 08 12	Part of the above parcel being part of Lot 29, Concession 1, Old Survey, Township of Cumberland designated as Parts 11, 23, and 28 Plan 4R-8326 now entered as Parcel 28-3 in the Register for Section 50-1 (O.S.) (Cumberland).		<i>M. J. ...</i> L.R.
793447	TRANSFER & RE-ENTRY	92 08 18	Part of the above parcel being part of Lot 29, Concession 1, Old Survey, Township of Cumberland designated as Part 10 on Plan 4R-8326 now entered as Parcel 29-19 in the Register for Section 50-1 (O.S.) Cumberland.		<i>Robert ...</i> L.R.
832332	TRANSFER & RE-ENTRY	93 06 04	Part of the above parcel being part of Lots 28 and 29, Concession 1 (Old Survey), designated as Parts 9 and 14 on Plan 4R-8326, is now entered as Parcel 28-4 in the Register for Section 50-1 (O.S.) Cumberland.		<i>Robert ...</i> L.R.
4R-10024		94 03 16			Lays out Part of the above parcel as Part 1. <i>M. J. ...</i> L.R.
4R-10922		94 12 21			Lays out Part of the above Parcel as Part 1. <i>George ...</i>
967529	EASEMENT	96 02 22	THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	\$1.00	Over Part 1 on 4R-10024 and Part 1 on Plan 4R-10922. <i>George ...</i> L.R.

NOTICE
 The entry in this current register is
 impu-
 MAY 26 1997
 MAY 26 1997

under part II of the L.R.R.A. 1994. An
 under part II of the L.R.R.A. 1994. An
 recorded in the Register for Section 50-1
 recorded in the Register for Section 50-1

NUMBER	DATE	DATE	NAME	NAME	AMOUNT	REMARKS
20216	Grand	May 1955	12 May 1955	Hormidas St Pierre	George J. Brule	\$5000 - Pt. Comm. at a point on S. limit of Old Hy #17 which point is distant 750 ft. N.W. from Dir line between lots 27 & 28 measured as thereto; S.W. 811 with S.D. Dir line 555.48 ft. to an est fence, then S. 1/4 W. 555 ft. to Center line of Cardinal Creek. N. on center line of Creek to S. limit of Montreal Rd. E on S. limit of Rd. 300 ft to p of c.
20434	Grant	13 Jun. 1956	12 Jan. 1956	Hormidas St Pierre	Ferdinand Lelond	\$7000 - Pt. Comm. at a point on E. side of Montreal Hy. distant 750 ft. W. from Dir line between lots 27 & 28, thence S.W. 1/4 W. with dir line 555.48 ft., thence N.E. from last mentioned course 102.39 ft., thence N. 1/4 W. with dir line to S. side of Mont. Hy., thence W. on S. side of Hy. to p of c.
20435	Mont.	11 Jan 1956	16 Jan 1956	Ferdinand Lelond	Hormidas St Pierre	Plas 20434
20508	D.M.	2 May 1950	7 May 1952	Omce Dugre	Rheas Michaud	Discharges 19268 B33
				Louise Dugre	Ferdinand Lelond	
22215	Grant	24 Nov 1958	27 Nov. 1958	Hormidas St Pierre	Cyril Allon St Pierre	\$1. - See Plan attached for desc.
22387	Grant	27 May 1959	1 June 1959	Hormidas St Pierre	Paul Henry Johnson	\$1000 - See Plan attached for desc.
22551	Grant	8 July 1959	16 Oct. 1959	Mme Louise Cardinal	Rita Cardinal	\$1. - Pt. Comm. at a point on N. limit of Mont. Road distant 519.6 ft. W. from its intersection with E limit of lot, N 150', N.W. 210', N.E. 150', S.E. 210' to p of c. 0.628 ac
22576	D.M.	20 Jan 1960	10 Feb. 1960	Mme Ange Jolbert	George Cardinal	Discharges 20038
				Therese Jolbert		
22707	Grant	9 March 1960	23 March 1960	Hormidas St Pierre	Charles Remy	\$10000 - Pt. See Plan attached
22708	M.O.R.T.			Charles Remy	Communio Berton Legault	\$10000 - same as 22707
22711	Grant	21 March 1960	28 March 1960	Cyril Allon St Pierre	Hormidas St Pierre	\$1 - Love's affection Pt. Comm. on S. side of 4 p 350 ft W from E. limit of lot W on S. limit of Hy. of 24 ft. to N. limit of lot 59.5 ft. E & deflecting 82 deg from N to E from last mentioned course 100 ft N on straight line 606.9 ft. to p of c.
22712	Grant	26 March 1960	1 May 1960	Gulou Legault	Robert Charrelly	\$10000 - same as 22707
22713	M.O.R.T.	1 Sept 1960	1 Sept 1960	Charles Remy	Jean E. Higgs	\$936 - same as 22707
22714	M.O.R.T.	1 Dec 1960	5 Dec 1960	Charles Remy	Peter Cooper in Trust	\$1500 - same as 22707
22715	D.M.	15 Dec 1960	16 Jan 1961	Robert Rasmussen	Charles Remy	Discharges 22708 - 22716
22716	D.M.	1 Sept 1960		Jean E. Higgs	Charles Remy	22716
20026	Mont.	5 July 1961	14 Sept 1961			
2392	By Law	31 March 1962	6 May 1962			
25468	Grant	5 Jan 1962	11 Jan 1962	Mme Louise Cardinal	Clair Realty Co. Ltd.	\$16000 - Pt. Lots 25 & 26 Plan att.
29518	Grant	27 March 1962	7 April 1962	Edouard St Pierre	Paul Henry Johnson	\$1785 - same as 22707

Plan attached

Abstract Index
Répertoire par lot

ROYAUME DU QUÉBEC

Lot

28

Concession

Lot

Page 140

Township of Cambridge

Lot No.	Document Type	Date	Particular Parties	Particular Parties	Concessionaire	Particular Parties
13614	Charge	91-08-11	LAVOIE, Luc LAVOIE, Suzanne	THE CIVIC SERVICE CO-OPERATIVE CENTRE SOCIETY, LTD.	\$112,000.00	Pt 6 sur 100-1749.
13615	Chgt. de 1 ^{er} Reg. Loco. 13614	91-08-19		ELSETT REALTY CO. LTD.		Appt. n° 1 sur 1000-50-121, 18 and Portes 1, 2, 3, 4, 5 et 6 sur 100-1749 New Bridge St., St. Jov. St. Jov. Quintessence St.
13616	Transfer	91-10-17	DA SILVA, Antonio DA SILVA, Delphine	DA SILVA, Antonio DA SILVA, Delphine	\$10,000.00	As in No. 13614
13617	Charge	91-12-1	DA SILVA, Antonio DA SILVA, Delphine	CIBC MORTGAGE BANK	\$50,000.00	As in No. 13614
140390	Transfer	92-02-27	DUGRE, Gerard	DUGRE, Raymond DUGRE, Denise	\$187,000.00	As in 13614, 13615
140391	Charge	92-04-1	DUGRE, Raymond DUGRE, Denise	DUGRE, Gerard	\$97,350.00	As in 140390.
1614273	Acte de Charge	92-04-13	LASALLE, Gerard Joseph LASALLE, Claudette Nicol	Caisse Populaire Orleans Inc.	\$300,000.00	Pt 6 sur 508-1749.

Charged By 13614 - Ass. Dir. Land Reg. 13614

PART 100-1749

NUMBER OF INSTRUMENT	INSTRUMENT	DATE OF INSTRUMENT	DATE OF REGISTRATION	GRANTOR	GRANTEE	CONSIDERATION	REMARKS
14541	MORT.	25 Oct. 1926	30 Oct. 1926	ERNEST DUBOIS & W WILFRID LUBORD & W	HIERONYME CARLINAL	\$1200.00	Part of #14500
15236	GRANT	2 May 1928	26 May 1928	ERNEST DUBOIS & W WILFRID LUBORD & W	HIERONYME CARLINAL	\$1.00	Party of 2nd part rems Tax off. Cons. \$312.-) all claims on party of
16128	A.C. BLDG	7 July 1933	24 July 1933	ALBERT CARDINAL & W	HIERONYME CARLINAL	\$1.00	All these parts COMM. at a point the E. side of Montreal Rd. as at present widened 113,5/10 ft. Wily. from the line shown. Lots 29 & 30 & measured at right angles thereto; 2 deg. 30' N E 1350 ft. N 1/2 Sec. 27 Cont. 12', 377 ft.; S Wily. along an irregular line fence to the N.E. Montreal Rd.; Wily 790 5/10 ft. to S.W. c. TROTTER with W/W to Mill from Wily. etc. 14, 9/10 ac.
16129	GRANT	6 July 1933	28 July 1933	HIERONYME CARLINAL & W	ALBERT ROY	\$1,000.00	Part of # 16128 after attached.
16130	MORT.	"	"	ALBERT ROY & W	HIERONYME CARLINAL	\$1,000.00	"
16288	"	20 July 1934	27 Sept. 1934	ALBERT CARDINAL & W	AMBROSE RAY. BE. H.	\$ 2600.00	All, a.o.l. SAVE #16128-16129-16130, 9135, 9597, 11187, 11311 & 12791.
16331	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16332	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16333	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16334	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16335	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16336	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16337	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16338	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16339	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16340	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16341	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16342	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16343	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16344	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16345	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16346	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16347	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16348	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16349	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16350	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16351	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16352	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16353	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16354	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16355	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16356	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16357	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16358	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16359	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16360	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16361	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16362	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16363	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16364	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16365	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16366	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16367	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16368	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16369	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16370	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16371	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16372	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16373	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16374	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16375	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16376	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16377	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16378	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16379	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16380	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16381	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16382	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16383	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16384	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16385	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16386	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16387	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16388	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16389	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16390	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
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16392	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16393	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16394	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16395	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16396	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16397	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16398	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16399	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288
16400	"	10 Oct. 1934	14 Oct. 1934	ALBERT CARDINAL & W	ALBERT ROY	Discharged	# 16288

11 Deposit

Consent of Peter ...
 At Albert Cardinal attested

~~11175~~ ~~July 25 1918~~ ~~John~~ ~~Cardinal~~ ~~John~~ ~~Cardinal~~ ~~John~~ ~~Cardinal~~

~~11176~~ ~~July 25 1918~~ ~~John~~ ~~Cardinal~~ ~~John~~ ~~Cardinal~~ ~~John~~ ~~Cardinal~~

11187 B & S 124.5 1918 124.25 1918 Alderic Cardinal James Wright Pt 0.02. 750m de superficie 125
full description 3.3.22.

11195 ~~July 25 1918~~ ~~July 25 1918~~ Alderic Cardinal ~~James Wright~~ ~~James Wright~~ ~~James Wright~~
Alderic Cardinal

~~11196~~ ~~July 25 1918~~ ~~July 25 1918~~ Alderic Cardinal ~~James Wright~~ ~~James Wright~~ ~~James Wright~~

12015 ~~July 25 1918~~ ~~July 25 1918~~ Alderic Cardinal ~~James Wright~~ ~~James Wright~~ ~~James Wright~~

12016 ~~July 25 1918~~ ~~July 25 1918~~ Alderic Cardinal ~~James Wright~~ ~~James Wright~~ ~~James Wright~~

12017 ~~July 25 1918~~ ~~July 25 1918~~ Alderic Cardinal ~~James Wright~~ ~~James Wright~~ ~~James Wright~~

14940 ~~July 25 1918~~ ~~July 25 1918~~ Alderic Cardinal ~~James Wright~~ ~~James Wright~~ ~~James Wright~~

as follows commencing at a post on E bank of a creek on N.S. of the Kings Highway road
running from Orleans to Cumberland thence northerly in a crooked line about
E. bank of said creek. by other lands owned by Sidor Cardinal on 6th Jan 1900
thence westerly in a straight line by other lands of said Sidor Cardinal 397 ft
thence southerly in a crooked line on W. bank of said creek and by other lands
of said Sidor Cardinal 1071 ft. thence Easterly along Kings Road 798 ft to place of beginning
also the use of a certain road. see deed.

Township of Cumberland Lot Concession. *Fruit*

Lot	Acquirement	Transfer	Concession	Notes
27	Patent May 20, 1836	May 20, 1836	230	62
28	Patent June 21, 1836	June 21, 1836	230	62
29	Patent July 1, 1836	July 1, 1836	230	62
30	Patent Aug 1, 1836	Aug 1, 1836	230	62
31	Patent Sept 1, 1836	Sept 1, 1836	230	62
32	Patent Oct 1, 1836	Oct 1, 1836	230	62
33	Patent Nov 1, 1836	Nov 1, 1836	230	62
34	Patent Dec 1, 1836	Dec 1, 1836	230	62
35	Patent Jan 1, 1837	Jan 1, 1837	230	62
36	Patent Feb 1, 1837	Feb 1, 1837	230	62
37	Patent Mar 1, 1837	Mar 1, 1837	230	62
38	Patent Apr 1, 1837	Apr 1, 1837	230	62
39	Patent May 1, 1837	May 1, 1837	230	62
40	Patent June 1, 1837	June 1, 1837	230	62
41	Patent July 1, 1837	July 1, 1837	230	62
42	Patent Aug 1, 1837	Aug 1, 1837	230	62
43	Patent Sept 1, 1837	Sept 1, 1837	230	62
44	Patent Oct 1, 1837	Oct 1, 1837	230	62
45	Patent Nov 1, 1837	Nov 1, 1837	230	62
46	Patent Dec 1, 1837	Dec 1, 1837	230	62
47	Patent Jan 1, 1838	Jan 1, 1838	230	62
48	Patent Feb 1, 1838	Feb 1, 1838	230	62
49	Patent Mar 1, 1838	Mar 1, 1838	230	62
50	Patent Apr 1, 1838	Apr 1, 1838	230	62
51	Patent May 1, 1838	May 1, 1838	230	62
52	Patent June 1, 1838	June 1, 1838	230	62
53	Patent July 1, 1838	July 1, 1838	230	62
54	Patent Aug 1, 1838	Aug 1, 1838	230	62
55	Patent Sept 1, 1838	Sept 1, 1838	230	62
56	Patent Oct 1, 1838	Oct 1, 1838	230	62
57	Patent Nov 1, 1838	Nov 1, 1838	230	62
58	Patent Dec 1, 1838	Dec 1, 1838	230	62
59	Patent Jan 1, 1839	Jan 1, 1839	230	62
60	Patent Feb 1, 1839	Feb 1, 1839	230	62
61	Patent Mar 1, 1839	Mar 1, 1839	230	62
62	Patent Apr 1, 1839	Apr 1, 1839	230	62
63	Patent May 1, 1839	May 1, 1839	230	62
64	Patent June 1, 1839	June 1, 1839	230	62
65	Patent July 1, 1839	July 1, 1839	230	62
66	Patent Aug 1, 1839	Aug 1, 1839	230	62
67	Patent Sept 1, 1839	Sept 1, 1839	230	62
68	Patent Oct 1, 1839	Oct 1, 1839	230	62
69	Patent Nov 1, 1839	Nov 1, 1839	230	62
70	Patent Dec 1, 1839	Dec 1, 1839	230	62
71	Patent Jan 1, 1840	Jan 1, 1840	230	62
72	Patent Feb 1, 1840	Feb 1, 1840	230	62
73	Patent Mar 1, 1840	Mar 1, 1840	230	62
74	Patent Apr 1, 1840	Apr 1, 1840	230	62
75	Patent May 1, 1840	May 1, 1840	230	62
76	Patent June 1, 1840	June 1, 1840	230	62
77	Patent July 1, 1840	July 1, 1840	230	62
78	Patent Aug 1, 1840	Aug 1, 1840	230	62
79	Patent Sept 1, 1840	Sept 1, 1840	230	62
80	Patent Oct 1, 1840	Oct 1, 1840	230	62
81	Patent Nov 1, 1840	Nov 1, 1840	230	62
82	Patent Dec 1, 1840	Dec 1, 1840	230	62
83	Patent Jan 1, 1841	Jan 1, 1841	230	62
84	Patent Feb 1, 1841	Feb 1, 1841	230	62
85	Patent Mar 1, 1841	Mar 1, 1841	230	62
86	Patent Apr 1, 1841	Apr 1, 1841	230	62
87	Patent May 1, 1841	May 1, 1841	230	62
88	Patent June 1, 1841	June 1, 1841	230	62
89	Patent July 1, 1841	July 1, 1841	230	62
90	Patent Aug 1, 1841	Aug 1, 1841	230	62
91	Patent Sept 1, 1841	Sept 1, 1841	230	62
92	Patent Oct 1, 1841	Oct 1, 1841	230	62
93	Patent Nov 1, 1841	Nov 1, 1841	230	62
94	Patent Dec 1, 1841	Dec 1, 1841	230	62
95	Patent Jan 1, 1842	Jan 1, 1842	230	62
96	Patent Feb 1, 1842	Feb 1, 1842	230	62
97	Patent Mar 1, 1842	Mar 1, 1842	230	62
98	Patent Apr 1, 1842	Apr 1, 1842	230	62
99	Patent May 1, 1842	May 1, 1842	230	62
100	Patent June 1, 1842	June 1, 1842	230	62

LAND
REGISTRY
OFFICE #4

14530-0473 (LT)

PAGE 1 OF 1
PREPARED FOR STEWART DAVEY
ON 2018/08/14 AT 09:00:36

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PART LOT 28 CONCESSION 1 O\$ CUMBERLAND PART 1 PLAN 4R24727 EXCEPT PLAN 4M1539; SUBJECT TO AN EASEMENT IN GROSS AS IN OC1225476; CITY OF OTTAWA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 14530-0418

PIN CREATION DATE:
2015/05/28

OWNERS' NAMES
CAPITAL CITY CHURCH PROPERTIES

CAPACITY SHARE
ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2015/05/28 **						
4R24727	2010/08/25	PLAN REFERENCE				C
OC1166122	2010/10/01	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC1169937	2010/10/14	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC1225473	2011/04/15	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
REMARKS: OC1166122, OC1169937						
OC1225476	2011/04/15	TRANSFER EASEMENT	\$1	WORD OF LIFE CHURCH (OTTAWA/HULL)	CITY OF OTTAWA	C
OC1453290	2013/02/14	TRANSFER		*** DELETED AGAINST THIS PROPERTY *** WORD OF LIFE CHURCH (OTTAWA/HULL)	CAPITAL CITY CHURCH (CANADA)	
OC1668365	2015/03/23	TRANSFER EASEMENT		*** DELETED AGAINST THIS PROPERTY *** TAMARACK (CARDINAL CREEK) CORPORATION CAPITAL CITY CHURCH (CANADA)	HYDRO ONE NETWORKS INC.	
OC1691326	2015/06/17	TRANSFER REL&ABAND		*** COMPLETELY DELETED *** HYDRO ONE NETWORKS INC.	TAMARACK (CARDINAL CREEK) CORPORATION CAPITAL CITY CHURCH (CANADA) CITY OF OTTAWA	
REMARKS: OC1668365.						
OC1790465	2016/05/27	TRANSFER	\$1	CAPITAL CITY CHURCH (CANADA)	CAPITAL CITY CHURCH PROPERTIES	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

The applicant(s) hereby applies to the Land Registrar.

Properties

PIN 14530 - 0054 LT **Interest/Estate** Fee Simple
Description PCL 28-1, SEC 50-10SCUM ; PT LT 28, CON 10S , PART 4, 50R7211, EXCEPT PART 14, 4R8326, LYING N OF THE LANDS EXPROPRIATED BY RR5001B ; CUMBERLAND
Address CUMBERLAND

PIN 14530 - 0471 LT **Interest/Estate** Fee Simple
Description PART LOT 28 CONCESSION 10S CUMBERLAND PARTS 11 TO 15 PLAN 4R24727 EXCEPT PLAN 4M1539; SUBJECT TO AN EASEMENT IN GROSS AS IN OC1225476; SUBJECT TO AN EASEMENT OVER PART 47 ON PLAN 4R28779 AS IN OC1690845; CITY OF OTTAWA
Address CUMBERLAND

PIN 14530 - 0473 LT **Interest/Estate** Fee Simple
Description PART LOT 28 CONCESSION 1 OS CUMBERLAND PART 1 PLAN 4R24727 EXCEPT PLAN 4M1539; SUBJECT TO AN EASEMENT IN GROSS AS IN OC1225476; CITY OF OTTAWA
Address CUMBERLAND

Consideration

Consideration \$1.00

Transferor(s)

The transferor(s) hereby transfers the land to the transferee(s).

Name CAPITAL CITY CHURCH (CANADA)
Address for Service 1123 Old Montreal Road, Ottawa, ON K4A 3N6

I, Felix Omara, Treasurer, have the authority to bind the corporation.
 This document is not authorized under Power of Attorney by this party.

Transferee(s)

	Capacity	Share
Name CAPITAL CITY CHURCH PROPERTIES	Registered Owner	
Address for Service 1123 Old Montreal Road, Ottawa, ON K4A 3N6		

Signed By

Robin Ann Goski 2788 St. Joseph Blvd. acting for Signed 2016 05 27
 Orleans Transferor(s)
 K1C 1G5

Tel 613-837-7880

Fax 613-837-7664

I am the solicitor for the transferor(s) and the transferee(s) and this transfer is being completed in accordance with my professional standards.

I have the authority to sign and register the document on behalf of all parties to the document.

Robin Ann Goski 2788 St. Joseph Blvd. acting for Signed 2016 05 27
 Orleans Transferee(s)
 K1C 1G5

Tel 613-837-7880

Fax 613-837-7664

I am the solicitor for the transferor(s) and the transferee(s) and this transfer is being completed in accordance with my professional standards.

I have the authority to sign and register the document on behalf of all parties to the document.

Submitted By

JACQUES ROBERT 2788 St. Joseph Blvd. 2016 05 27
 Orleans
 K1C 1G5

Tel 613-837-7880

The applicant(s) hereby applies to the Land Registrar.

Properties

PIN 14530 - 0417 LT Interest/Estate Easement Add Easement

Description SERVICENT LANDS: PART OF LOT 28, CONCESSION 1, OLD SURVEY, GEOGRAPHIC TOWNSHIP OF CUMBERLAND DESIGNATED AS PARTS 3, 4 AND 6 ON PLAN 4R-24727, OTTAWA.

Address OTTAWA

PIN 14530 - 0418 LT Interest/Estate Easement Add Easement

Description SERVICENT LANDS: PART OF LOT 28, CONCESSION 1, OLD SURVEY, GEOGRAPHIC TOWNSHIP OF CUMBERLAND DESIGNATED AS PART 1 ON PLAN 4R-24727, OTTAWA.

Address OTTAWA

PIN 14530 - 0420 LT Interest/Estate Easement Add Easement

Description SERVICENT LANDS: PART OF LOT 28 CONCESSION 1, OLD SURVEY, GEOGRAPHIC TOWNSHIP OF CUMBERLAND DESIGNATED AS PARTS 11, 12, 13, 14 AND 15 ON PLAN 4R-24727, OTTAWA.

Address OTTAWA

Consideration

Consideration \$1.00

Transferor(s)

The transferor(s) hereby transfers the easement to the transferee(s).

Name WORD OF LIFE CHURCH (OTTAWA/HULL)

Address for Service 1123 Old Montreal Road
PO Box 59
Ottawa, Ontario
K4C 1E5

I, Michael J. Welch, Chairman, have the authority to bind the corporation.

This document is not authorized under Power of Attorney by this party.

Transferee(s)

Capacity

Share

Name CITY OF OTTAWA

Address for Service C/O Mgr Real Estate Services
REPDO Mail Code 01-86
110 Laurier Avenue West
Ottawa, ON
K1P 1J1
file: L0106-MONT (JH)

Statements

Schedule: See Schedules

Signed By

Joseph Jacques Robert 2788 St. Joseph Blvd. acting for First 2011 04 15
Orleans Transferor(s) Signed
K1C 1G5

Tel 613-837-7880

Fax 6138377664

Joseph Jacques Robert 2788 St. Joseph Blvd. acting for Last 2011 04 26
Orleans Transferor(s) Signed
K1C 1G5

Tel 613-837-7880

Fax 6138377664

I have the authority to sign and register the document on behalf of the Transferor(s).

BLANKET ACCESS EASEMENT

SCHEDULE Easement in Gross

The Transferor grants, conveys and transfers to the Transferee, its successors and assigns, in perpetuity, but subject to all the terms and conditions hereinafter contained, a surface easement to provide access to, in, over, along, across, and upon the lands hereinbefore described, being Part of Lot 28, Concession 1, O.S., designated as Parts 1, 3, 4, 6, 11 to 15, all inclusive, Plan 4R-24727 (hereinafter called "the said lands").

Together with the right to the Transferee, its servants, agents contractors and sub-contractors to enter on and to pass and repass at any and all times from the date of acceptance of this easement, in, over, along and upon the said lands of the Transferor with or without supplies and equipment for all purposes necessary or convenient to the exercise and enjoyment of the rights and easement hereby granted.

The aforementioned rights and easement are herein granted on the following terms and conditions which are hereby mutually covenanted and agreed to by and between the Transferor and the Transferee.

1. The Transferor shall be responsible for any damage to the property of the Transferee on the said lands, caused directly or indirectly by the acts or omissions of the Transferor or of persons acting under the authority of the Transferor.
2. Notwithstanding any rule of law or equity, all equipment and appurtenances brought onto, the said lands by the Transferee shall at all times remain the property of the Transferee notwithstanding that the same may be annexed or affixed to the freehold and shall at any time and from time to time be removable in whole or in part by the Transferee or its successors and assigns.
3. Upon completion of any work on the said lands or surrounding lands in relation to the aforesaid surface easement the Transferee shall at its expense restore the said lands, including any surrounding lands, to the reasonable satisfaction of the Transferor.
4. The Transferee shall protect the Transferor's sidewalks, buildings, fences, ditches, water supply, drainage tiles, trees and hedges, and shall be liable for any damage to the said sidewalks, buildings, fences, ditches, water supply, drainage tiles, trees and hedges created by or resulting from the exercise of the rights granted herein.
5. The Transferee shall not fell, cut, trim, log, damage, destroy or remove any trees or parts thereof, on or from either the said lands or surrounding lands without the prior written consent of the Transferor, which consent will not be unreasonably withheld.
6. The Transferee shall save harmless and indemnify the Transferor from and against all manner of action, causes of action, claims, demands, loss, costs, suits, including legal costs of such suits that may arise, be sustained or prosecuted against the Transferor whatever and including, but without restricting the generality of the foregoing, any claims for nuisance made against the Transferor as owner of the said lands for or by reason of the neglect or fault of the Transferee and persons for whom it is responsible in law in the exercise of the rights herein granted to the Transferee.
7. The Transferor shall not interfere with the surface easement, and shall not plant shrubs, trees or gardens, or permit the planting of shrubs, trees or gardens, on, in, over or through the said lands any obstruction of any nature or kind without the prior written consent of the Transferee, but otherwise the

Transferor shall have the right fully to use and enjoy the said lands, subject always to and so as not to interfere with the rights and easement hereby granted to the Transferee.

8. The rights and easements hereby granted are and shall be of the same force and effect to all intents and purposes as a covenant running with the land and this transfer, including all the covenants and conditions herein contained, shall extend to, be binding upon and enure to the benefit of the heirs, executors, administrators, successors in title and assigns of the parties hereto respectively, and all covenants herein contained shall be construed to be several as well as joint, and wherever the singular or masculine is used, it shall be construed as if the plural or the feminine or the neuter, as the case may be, had been used where the context or the party or parties hereto so require, and the rest of the sentence shall be construed as if the grammatical and terminological changes thereby rendered necessary had been made.
9. Upon request by the Transferor, or its successors in title, and upon alternate access being provided to the Hazard Lands by the Transferor, or its successors in title, such Hazard Lands being described as Part of Lots 28 and 29, Concession 10S, Cumberland, designated as Parts 5 and 7 to 10, both inclusive, Plan 4R-24747, the Transferee shall not refuse any reasonable request to release the access easement over Part of Lot 28, Concession 10S, Cumberland, designated as Parts 3, 4 and 6, Plan 4R-24747.

The Transferor covenants with the Transferee that no other easement will be granted concerning the lands described herein prior to the registration of this document.

LAND
REGISTRY
OFFICE #4

14530-0418 (LT)

PAGE 1 OF 3
PREPARED FOR STEWART DAVEY
ON 2018/08/14 AT 09:03:20

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PART OF LOT 28 CONCESSION 10S CUMBERLAND PART 1 PLAN 4R24727; SUBJECT TO AN EASEMENT IN GROSS AS IN OC1225476; SUBJECT TO AN EASEMENT IN GROSS AS IN OC1668365; CITY OF OTTAWA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 14530-0416

PIN CREATION DATE:
2010/10/29

OWNERS' NAMES
CAPITAL CITY CHURCH (CANADA)

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2010/10/29 **						
NOTE: THE NO DEALINGS INDICATOR IS IN EFFECT ON THIS PROPERTY						
NOTE: THIS PROPERTY WAS RETIRED ON 2015/05/28. THIS PROPERTY IS NOW DIVIDED INTO THE FOLLOWING PROPERTIES: 14530-0472 TO 14530-0473						
OC13538	2001/10/31	TRANSFER		*** DELETED AGAINST THIS PROPERTY *** ELSETT REALTY COMPANY LIMITED	WORD OF LIFE CHURCH (OTTAWA/HULL)	
REMARKS: PLANNING ACT STATEMENTS						
OC50759	2002/03/08	CHARGE		*** DELETED AGAINST THIS PROPERTY *** WORD OF LIFE CHURCH (OTTAWA/HULL)	KBC INVESTMENTS INC., IN TRUST	
OC410840	2004/11/30	CHARGE		*** DELETED AGAINST THIS PROPERTY *** WORD OF LIFE CHURCH (OTTAWA/HULL)	CAISSE POPULAIRE ORLEANS INC.	
OC410841	2004/11/30	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** KBC INVESTMENTS INC., IN TRUST	CAISSE POPULAIRE ORLEANS INC.	
REMARKS: OC50759 TO OC410840						
4R24727	2010/08/25	PLAN REFERENCE				C
OC1166122	2010/10/01	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC1166123	2010/10/01	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** KBC INVESTMENTS INC., IN TRUST	CITY OF OTTAWA	
REMARKS: OC50759 TO OC1166122						
OC1166124	2010/10/01	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** CAISSE POPULAIRE ORLEANS INC.	CITY OF OTTAWA	
REMARKS: OC410840 TO OC1166122						
OC1169937	2010/10/14	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
 REGISTRY
 OFFICE #4

14530-0418 (LT)

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
OC1169938	2010/10/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** KBC INVESTMENTS INC., IN TRUST	CITY OF OTTAWA	
		REMARKS: OC50759 TO OC1169937				
OC1169939	2010/10/14	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** CAISSE POPULAIRE ORLEANS INC.	CITY OF OTTAWA	
		REMARKS: OC410840 TO OC1169937				
OC1225473	2011/04/15	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
		REMARKS: OC1166122, OC1169937				
OC1225474	2011/04/15	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** CAISSE POPULAIRE ORLEANS INC.	CITY OF OTTAWA	
		REMARKS: OC410840 TO OC1225473				
OC1225475	2011/04/15	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** KBC INVESTMENTS INC., IN TRUST	CITY OF OTTAWA	
		REMARKS: OC50759 TO OC1225473				
OC1225476	2011/04/15	TRANSFER EASEMENT	\$1	WORD OF LIFE CHURCH (OTTAWA/HULL)	CITY OF OTTAWA	C
OC1225477	2011/04/15	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** CAISSE POPULAIRE ORLEANS INC.	CITY OF OTTAWA	
		REMARKS: OC410840 TO OC1225476				
OC1225478	2011/04/15	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** KBC INVESTMENTS INC., IN TRUST	CITY OF OTTAWA	
		REMARKS: OC50759 TO OC1225476				
OC1230366	2011/05/02	DISCH OF CHARGE		*** COMPLETELY DELETED *** KBC INVESTMENTS INC., IN TRUST		
		REMARKS: OC50759.				
OC1233285	2011/05/11	DISCH OF CHARGE		*** COMPLETELY DELETED *** CAISSE POPULAIRE ORLEANS INC.		
		REMARKS: OC410840.				
OC1453290	2013/02/14	TRANSFER		WORD OF LIFE CHURCH (OTTAWA/HULL)	CAPITAL CITY CHURCH (CANADA)	C
OC1668365	2015/03/23	TRANSFER EASEMENT		TAMARACK (CARDINAL CREEK) CORPORATION CAPITAL CITY CHURCH (CANADA)	HYDRO ONE NETWORKS INC.	C
OC1680819	2015/05/13	TRANSFER REL&ABAND		*** COMPLETELY DELETED ***		

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
 NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
		REMARKS: OC1174509.		CAPITAL CITY CHURCH (CANADA)	TAMARACK (CARDINAL CREEK) CORPORATION	
4M1539	2015/05/13	PLAN SUBDIVISION				C
OC1680824	2015/05/13	PLAN DOCUMENT		TAMARACK (CARDINAL CREEK) CORPORATION CAPITAL CITY CHURCH (CANADA) CITY OF OTTAWA LAPORTE, ESTELLE NICOLE LAPORTE, JEAN ALFRED		C
OC1680826	2015/05/13	TRANSFER		TAMARACK (CARDINAL CREEK) CORPORATION CAPITAL CITY CHURCH (CANADA)	TAMARACK (CARDINAL CREEK) CORPORATION	C
		REMARKS: PLANNING ACT STATEMENTS.				
OC1680829	2015/05/13	NO SUB AGREEMENT		CITY OF OTTAWA	TAMARACK (CARDINAL CREEK) CORPORATION	C
OC1680831	2015/05/13	NOTICE	\$1	CITY OF OTTAWA	TAMARACK (CARDINAL CREEK) CORPORATION	C
OC1680833	2015/05/13	APL INH ORDER-LAND		CITY OF OTTAWA		C
		REMARKS: SEE DOCUMENT FOR COMPLIANCE REQUIREMENTS.				

LAND
 REGISTRY
 OFFICE #4

14530-0416 (LT)

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PART OF LOTS 28 & 29 CONCESSION 10S CUMBERLAND PARTS 1 AND 3 TO 15 PLAN 4R24727, SUBJECT TO AN EASEMENT OVER PARTS 8, 12 & 13 PLAN 4R24727 AS IN RR2541B

PROPERTY REMARKS: PLANNING ACT CONSENT IN DOCUMENT OC1174509.

ESTATE/QUALIFIER:
 FEE SIMPLE
 ABSOLUTE

RECENTLY:
 DIVISION FROM 14530-0013

PIN CREATION DATE:
 2010/10/06

OWNERS' NAMES
 WORD OF LIFE CHURCH (OTTAWA/HULL)

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2010/10/06 **						
NOTE: THIS PROPERTY WAS RETIRED ON 2010/10/29. THIS PROPERTY IS NOW DIVIDED INTO THE FOLLOWING PROPERTIES: 14530-0417 TO 14530-0420						
OC13538	2001/10/31	TRANSFER	\$375,000	ELSETT REALTY COMPANY LIMITED	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
REMARKS: PLANNING ACT STATEMENTS						
OC50759	2002/03/08	CHARGE	\$4,000,000	WORD OF LIFE CHURCH (OTTAWA/HULL)	KBC INVESTMENTS INC., IN TRUST	C
OC410840	2004/11/30	CHARGE	\$1,500,000	WORD OF LIFE CHURCH (OTTAWA/HULL)	CAISSE POPULAIRE ORLEANS INC.	C
OC410841	2004/11/30	POSTPONEMENT		KBC INVESTMENTS INC., IN TRUST	CAISSE POPULAIRE ORLEANS INC.	C
REMARKS: OC50759 TO OC410840						
4R24727	2010/08/25	PLAN REFERENCE				C
OC1166122	2010/10/01	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC1166123	2010/10/01	POSTPONEMENT		KBC INVESTMENTS INC., IN TRUST	CITY OF OTTAWA	C
REMARKS: OC50759 TO OC1166122						
OC1166124	2010/10/01	POSTPONEMENT		CAISSE POPULAIRE ORLEANS INC.	CITY OF OTTAWA	C
REMARKS: OC410840 TO OC1166122						
4R24840	2010/10/13	PLAN REFERENCE				C
OC1169937	2010/10/14	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC1169938	2010/10/14	POSTPONEMENT		KBC INVESTMENTS INC., IN TRUST	CITY OF OTTAWA	C
REMARKS: OC50759 TO OC1169937						
OC1169939	2010/10/14	POSTPONEMENT		CAISSE POPULAIRE ORLEANS INC.	CITY OF OTTAWA	C
REMARKS: OC410840 TO OC1169937						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
 NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
 REGISTRY
 OFFICE #4

14530-0416 (LT)

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC1174509	2010/10/28	TRANSFER		WORD OF LIFE CHURCH (OTTAWA/HULL)	WORD OF LIFE CHURCH (OTTAWA/HULL)	C

LAND
REGISTRY
OFFICE #4

14530-0013 (LT)

PAGE 1 OF 2
PREPARED FOR STEWART DAVEY
ON 2018/08/14 AT 09:06:32

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PCL 28-1, SEC 50-10SCUM ; PT LTS 28 & 29, CON 10S , PARTS 1 TO 3, 50R7211, EXCEPT PTS 1 & 2, 4R8134 & PTS 9-13, 21-23, 28-35, 4R8326, S/T RR2541B ; CUMBERLAND

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK FA25

PIN CREATION DATE:
1997/05/26

OWNERS' NAMES
WORD OF LIFE CHURCH (OTTAWA/HULL)

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1997/05/26 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1997/05/26**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1997/05/23 **</p> <p>NOTE: THIS PROPERTY WAS RETIRED ON 2010/10/06. THIS PROPERTY IS NOW DIVIDED INTO THE FOLLOWING PROPERTIES: 14530-0415 TO 14530-0416</p>						
FAD0082	1991/08/09	APL (GENERAL)			ELSETT REALTY COMPANY LIMITED	C
50R7211	1991/08/09	PLAN REFERENCE				C
OC13538	2001/10/31	TRANSFER REMARKS: PLANNING ACT STATEMENTS	\$375,000	ELSETT REALTY COMPANY LIMITED	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC13539	2001/10/31	CHARGE		*** COMPLETELY DELETED *** WORD OF LIFE CHURCH (OTTAWA/HULL)	LITWACK, MOE WHITE, DAVID RIVKA THREE LTD.	
OC13540	2001/10/31	CHARGE CORRECTIONS: 'CHARGE' CHANGED FROM '119836 ONTARIO INC.' TO '1198936 ONTARIO INC.' ON 2004/11/30 BY SUZANNE IACOVITTI.		*** COMPLETELY DELETED *** WORD OF LIFE CHURCH (OTTAWA/HULL)	1198936 ONTARIO INC.	
OC50759	2002/03/08	CHARGE	\$4,000,000	WORD OF LIFE CHURCH (OTTAWA/HULL)	KBC INVESTMENTS INC., IN TRUST	C
OC50760	2002/03/08	NOTICE REMARKS: OC13540		*** COMPLETELY DELETED *** WORD OF LIFE CHURCH (OTTAWA/HULL)	1198936 ONTARIO INC.	
OC50761	2002/03/08	POSTPONEMENT REMARKS: OC13540 TO OC50759		*** COMPLETELY DELETED *** 1198936 ONTARIO INC.	KBC INVESTMENTS INC. IN TRUST	
OC51393	2002/03/13	DISCH OF CHARGE		*** COMPLETELY DELETED ***		

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
				LITWACK, MOE WHITE, DAVID RIVKA THREE LTD.		
		<i>REMARKS: RE: OC13539</i>				
OC410840	2004/11/30	CHARGE	\$1,500,000	WORD OF LIFE CHURCH (OTTAWA/HULL)	CAISSE POPULAIRE ORLEANS INC.	C
OC410841	2004/11/30	POSTPONEMENT		KBC INVESTMENTS INC., IN TRUST	CAISSE POPULAIRE ORLEANS INC.	C
		<i>REMARKS: OC50759 TO OC410840</i>				
OC410842	2004/11/30	DISCH OF CHARGE		*** COMPLETELY DELETED *** 1198936 ONTARIO INC.		
		<i>REMARKS: RE: OC13540</i>				
OC416760	2004/12/16	LR'S ORDER		*** COMPLETELY DELETED *** LAND REGISTRAR		
		<i>REMARKS: DELETING OC50760 AND OC50761</i>				
4R23103	2008/09/08	PLAN REFERENCE				C
4R24727	2010/08/25	PLAN REFERENCE				C
OC1166122	2010/10/01	NOTICE	\$1	CITY OF OTTAWA	WORD OF LIFE CHURCH (OTTAWA/HULL)	C
OC1166123	2010/10/01	POSTPONEMENT		KBC INVESTMENTS INC., IN TRUST	CITY OF OTTAWA	C
		<i>REMARKS: OC50759 TO OC1166122</i>				
OC1166124	2010/10/01	POSTPONEMENT		CAISSE POPULAIRE ORLEANS INC.	CITY OF OTTAWA	C
		<i>REMARKS: OC410840 TO OC1166122</i>				
OC1167545	2010/10/05	TRANSFER	\$1	WORD OF LIFE CHURCH (OTTAWA/HULL)	CITY OF OTTAWA	C
OC1167546	2010/10/05	DISCH OF CHARGE		KBC INVESTMENTS INC., IN TRUST		C
		<i>REMARKS: OC50759.</i>				
OC1167547	2010/10/05	DISCH OF CHARGE		CAISSE POPULAIRE ORLEANS INC.		C
		<i>REMARKS: OC410840.</i>				

**1123 OLD MONTREAL ROAD
PART OF LOT 28
CONCESSION 1**

PIN(S)	OWNERSHIP	DATES
14530-0473 (14530-0418) (14530-0416) (14530-0013)	CAPITAL CITY CHURCH PROPERTIES	MAY 27, 2016 TO PRESENT (AUGUST 14, 2018)
EASEMENT	HYDRO ONE NETWORKS	MARCH 2015 TO JUNE 2015
	CAPITAL CITY CHURCH (CANADA)	FEBRUARY 14, 2013 TO MAY 27, 2016
EASEMENT (ACCESS)	CITY OF OTTAWA	APRIL 15, 2011
	WORD LIFE CHURCH (OTTAWA/HULL)	OCTOBER 31, 2001 TO FEBRUARY 14, 2013
	ELSETT REALTY COMPANY LIMITED	JANUARY 11, 1962 TO OCTOBER 31, 2001
	MARIA LOUISA CARDINAL WIFE OF ALDERIC CARDINAL, (DECEASED)	FEBRUARY 28, 1907 TO JANUARY 11 1962
	ISADORE CARDINAL	DECEMBER 1885 TO FEBRUARY 28, 1907
	FRANCES WARREN	JUNE 1883 TO DECEMBER 1885
	HONORE COTTE	JUNE 1878 TO JUNE 1883
	WILLIAM SACHE	JANUARY 1860

		TO JUNE 1878
RECORDS ARE VERY POOR	??	1852 TO JANUARY 1860
RECORDS ARE VERY POOR	BENJAMIN COZENA	??
	MATILDA COZENA	MAY 1830 TO 1847
	CROWN PATENT	MAY 28 1830

APPENDIX D

ERIS REPORT



DATABASE REPORT

Project Property: 29870
*Vacant Land, North of Old Montreal Road
Ottawa ON K4A 3N6*

Project No: 29870

Report Type: *RSC Report (Urban)*

Order No: 21081900252

Requested by: *RiskCheck Environmental Ltd.*

Date Completed: *August 24, 2021*

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	6
Executive Summary: Site Report Summary - Surrounding Properties.....	7
Executive Summary: Summary By Data Source.....	11
Map.....	17
Aerial.....	18
Topographic Map.....	19
Detail Report.....	20
Unplottable Summary.....	116
Unplottable Report.....	118
Appendix: Database Descriptions.....	182
Definitions.....	191

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Executive Summary

Property Information:

Project Property: 29870
Vacant Land, North of Old Montreal Road Ottawa ON K4A 3N6

Project No: 29870

Order Information:

Order No: 21081900252
Date Requested: August 19, 2021
Requested by: RiskCheck Environmental Ltd.
Report Type: RSC Report (Urban)

Historical/Products:

Topographic Map RSC Maps

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.30km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	3	3
CA	<i>Certificates of Approval</i>	Y	0	1	1
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<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
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	6	6
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	2	3	5
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</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

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	4	4
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	1	1
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	26	26
Total:			2	44	46

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
1	EHS		Part Lot 28 Concession 1 OS Cumberland Part 1 Plan 4R24727 Orléans ON K4A 3N6	ESE/0.0	-1.10	20
2	EHS		1123 Old Montreal Rd Ottawa ON K4A3N6	NNW/0.0	-1.88	20

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>3</u>	WWIS		OLD MONTREAL ROAD lot 25 con 1 CUMBERLAND ON <i>Well ID:</i> 1534786	SSE/9.0	0.28	<u>20</u>
<u>3</u>	WWIS		1123 OLD MONTREAL ROAD lot 28 Ottawa ON <i>Well ID:</i> 7235406	SSE/9.0	0.28	<u>27</u>
<u>4</u>	WWIS		lot 28 con 1 ON <i>Well ID:</i> 1513134	SE/21.5	5.20	<u>29</u>
<u>5</u>	CA	Word of Life Church (Ottawa/Hull)	1123 Queen Street (Old Montreal Road) Ottawa ON	S/38.2	-1.12	<u>31</u>
<u>5</u>	ECA	Tamarack (Cardinal Creek) Corporation	1123 Old Montreal Rd Part of Lots 27 and 28, Concession 1 Ottawa ON K1V 8Y3	S/38.2	-1.12	<u>31</u>
<u>5</u>	ECA	Tamarack (Cardinal Creek) Corporation	1123 Old Montreal Rd Part of Lot 28, Concession 1 Ottawa ON K1V 8Y3	S/38.2	-1.12	<u>32</u>
<u>5</u>	ECA	Tamarack (Cardinal Creek) Corporation	1123 Old Montreal Rd Part of Lot 28, Concession 1 Ottawa ON K1V 8Y3	S/38.2	-1.12	<u>32</u>
<u>5</u>	ECA	Word of Life Church (Ottawa/Hull)	1123 Queen Street (Old Montreal Road) Ottawa ON K1B 3L7	S/38.2	-1.12	<u>32</u>
<u>5</u>	ECA	Tamarack (Cardinal Creek) Corporation	1123 Old Montreal Rd Part of Lots 26 and 27, Concession 1 Ottawa ON K1V 8Y3	S/38.2	-1.12	<u>33</u>
<u>6</u>	WWIS		1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON <i>Well ID:</i> 1534642	SE/51.3	5.20	<u>33</u>
<u>7</u>	WWIS		lot 28 con 1 ON <i>Well ID:</i> 1516925	SSW/54.8	-1.71	<u>34</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>8</u>	WWIS		lot 27 con 1 ON Well ID: 1513130	E/63.4	3.84	<u>38</u>
<u>9</u>	BORE		ON	E/63.5	3.84	<u>41</u>
<u>10</u>	WWIS		lot 28 con 1 ON Well ID: 1517246	SSE/83.5	3.01	<u>42</u>
<u>11</u>	WWIS		1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON Well ID: 1534641	SE/84.1	12.44	<u>46</u>
<u>12</u>	WWIS		lot 27 con 1 ON Well ID: 1512408	ESE/94.4	14.50	<u>53</u>
<u>13</u>	BORE		ON	SSE/97.3	1.28	<u>57</u>
<u>14</u>	WWIS		lot 28 con 1 ON Well ID: 1513131	SSE/97.5	1.28	<u>58</u>
<u>15</u>	WWIS		lot 28 ON Well ID: 1524109	WSW/98.3	-5.32	<u>60</u>
<u>16</u>	PES	J.A. LAPORTE NURSERY	1211 OLD MONTREAL RD ORLEANS ON K4A3N6	E/107.7	6.80	<u>64</u>
<u>16</u>	PES	J.A. LAPORTE NURSERY	1211 OLD MONTREAL RD ORLEANS ON K4A 3N6	E/107.7	6.80	<u>64</u>
<u>16</u>	PES	J.A. LAPORTE NURSERY	1211 OLD MONTREAL RD ORLEANS ON K4A3N6	E/107.7	6.80	<u>65</u>
<u>16</u>	ECA	Tamarack (Cardinal Creek) Corporation	1211 Old Montreal Rd Ottawa ON K1V 8Y3	E/107.7	6.80	<u>65</u>
<u>17</u>	EHS		1208 Old Montreal Road Orléans ON K4A 3N6	E/126.4	9.50	<u>65</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	EHS		1208 Old Montreal Road Orléans ON K4A 3N6	E/126.4	9.50	65
18	WWIS		lot 28 con 1 ON Well ID: 1516407	S/127.5	-1.09	66
19	SPL		1105 Old Montreal Road Ottawa ON	S/127.8	-1.09	70
20	EHS		1154-1208 Old Montreal Rd Ottawa ON	ESE/131.9	16.35	70
21	WWIS		lot 28 con 1 ON Well ID: 1517346	SW/134.5	-3.89	70
22	WWIS		lot 27 con 1 ON Well ID: 1512335	ENE/145.5	5.68	74
23	WWIS		lot 28 con 1 ON Well ID: 1513135	SSW/156.5	-2.77	77
24	WWIS		lot 27 con 1 ON Well ID: 1514989	E/200.2	16.37	80
25	WWIS		lot 27 con 1 ON Well ID: 1532616	NE/207.7	3.32	83
26	WWIS		lot 27 ON Well ID: 1526501	NE/209.4	3.56	86
26	WWIS		lot 27 ON Well ID: 1528921	NE/209.4	3.56	90
27	WWIS		lot 28 con 1 ON Well ID: 1516909	S/210.8	-0.20	93
27	WWIS		lot 28 con 1 ON Well ID: 1518165	S/210.8	-0.20	97

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
27	WWIS		lot 28 con 1 ON <i>Well ID:</i> 1518202	S/210.8	-0.20	100
28	WWIS		lot 28 con 1 ON <i>Well ID:</i> 1513136	SSW/214.3	-2.54	104
29	BORE		ON	S/240.6	0.96	106
30	WWIS		lot 28 con 1 ON <i>Well ID:</i> 1513138	S/240.8	0.96	107
31	WWIS		lot 28 con 1 ON <i>Well ID:</i> 1513133	SSW/242.3	-3.74	110
32	WWIS		lot 28 con 1 ON <i>Well ID:</i> 1513137	SSW/248.7	-5.29	113
33	PES	J.A. LAPORTE NURSERY	455 FAMILLE-LAPORTE AVE ORLEANS ON K4A0Y7	NNW/279.2	-2.93	115

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 3 BORE site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	63.5	<u>9</u>
	ON	97.3	<u>13</u>
	ON	240.6	<u>29</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Word of Life Church (Ottawa/Hull)	1123 Queen Street (Old Montreal Road) Ottawa ON	38.2	<u>5</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Jun 30, 2021 has found that there are 6 ECA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Tamarack (Cardinal Creek) Corporation	1123 Old Montreal Rd Part of Lot 28, Concession 1 Ottawa ON K1V 8Y3	38.2	<u>5</u>
Tamarack (Cardinal Creek) Corporation	1123 Old Montreal Rd Part of Lots 26 and 27, Concession 1 Ottawa ON K1V 8Y3	38.2	<u>5</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Word of Life Church (Ottawa/Hull)	1123 Queen Street (Old Montreal Road) Ottawa ON K1B 3L7	38.2	<u>5</u>
Tamarack (Cardinal Creek) Corporation	1123 Old Montreal Rd Part of Lot 28, Concession 1 Ottawa ON K1V 8Y3	38.2	<u>5</u>
Tamarack (Cardinal Creek) Corporation	1123 Old Montreal Rd Part of Lots 27 and 28, Concession 1 Ottawa ON K1V 8Y3	38.2	<u>5</u>
Tamarack (Cardinal Creek) Corporation	1211 Old Montreal Rd Ottawa ON K1V 8Y3	107.7	<u>16</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jun 30, 2021 has found that there are 5 EHS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Part Lot 28 Concession 1 OS Cumberland Part 1 Plan 4R24727 Orléans ON K4A 3N6	0.0	<u>1</u>
	1123 Old Montreal Rd Ottawa ON K4A3N6	0.0	<u>2</u>
	1208 Old Montreal Road Orléans ON K4A 3N6	126.4	<u>17</u>
	1208 Old Montreal Road Orléans ON K4A 3N6	126.4	<u>17</u>
	1154-1208 Old Montreal Rd Ottawa ON	131.9	<u>20</u>

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Jun 30, 2021 has found that there are 4 PES site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
J.A. LAPORTE NURSERY	1211 OLD MONTREAL RD ORLEANS ON K4A 3N6	107.7	<u>16</u>
J.A. LAPORTE NURSERY	1211 OLD MONTREAL RD ORLEANS ON K4A3N6	107.7	<u>16</u>
J.A. LAPORTE NURSERY	1211 OLD MONTREAL RD ORLEANS ON K4A3N6	107.7	<u>16</u>
J.A. LAPORTE NURSERY	455 FAMILLE-LAPORTE AVE ORLEANS ON K4A0Y7	279.2	<u>33</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Aug 2020 has found that there are 1 SPL site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	1105 Old Montreal Road Ottawa ON	127.8	<u>19</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 26 WWIS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	1123 OLD MONTREAL ROAD lot 28 Ottawa ON <i>Well ID: 7235406</i>	9.0	<u>3</u>
	OLD MONTREAL ROAD lot 25 con 1 CUMBERLAND ON <i>Well ID: 1534786</i>	9.0	<u>3</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 28 con 1 ON <i>Well ID:</i> 1513134	21.5	<u>4</u>
	1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON <i>Well ID:</i> 1534642	51.3	<u>6</u>
	lot 28 con 1 ON <i>Well ID:</i> 1516925	54.8	<u>7</u>
	lot 27 con 1 ON <i>Well ID:</i> 1513130	63.4	<u>8</u>
	lot 28 con 1 ON <i>Well ID:</i> 1517246	83.5	<u>10</u>
	1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON <i>Well ID:</i> 1534641	84.1	<u>11</u>
	lot 27 con 1 ON <i>Well ID:</i> 1512408	94.4	<u>12</u>
	lot 28 con 1 ON <i>Well ID:</i> 1513131	97.5	<u>14</u>
	lot 28 ON <i>Well ID:</i> 1524109	98.3	<u>15</u>
	lot 28 con 1 ON <i>Well ID:</i> 1516407	127.5	<u>18</u>
	lot 28 con 1 ON <i>Well ID:</i> 1517346	134.5	<u>21</u>
	lot 27 con 1 ON	145.5	<u>22</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 1512335		
	lot 28 con 1 ON	156.5	<u>23</u>
	<i>Well ID:</i> 1513135		
	lot 27 con 1 ON	200.2	<u>24</u>
	<i>Well ID:</i> 1514989		
	lot 27 con 1 ON	207.7	<u>25</u>
	<i>Well ID:</i> 1532616		
	lot 27 ON	209.4	<u>26</u>
	<i>Well ID:</i> 1526501		
	lot 27 ON	209.4	<u>26</u>
	<i>Well ID:</i> 1528921		
	lot 28 con 1 ON	210.8	<u>27</u>
	<i>Well ID:</i> 1516909		
	lot 28 con 1 ON	210.8	<u>27</u>
	<i>Well ID:</i> 1518165		
	lot 28 con 1 ON	210.8	<u>27</u>
	<i>Well ID:</i> 1518202		
	lot 28 con 1 ON	214.3	<u>28</u>
	<i>Well ID:</i> 1513136		
	lot 28 con 1 ON	240.8	<u>30</u>
	<i>Well ID:</i> 1513138		
	lot 28 con 1 ON	242.3	<u>31</u>
	<i>Well ID:</i> 1513133		

Site

Address

lot 28 con 1
ON

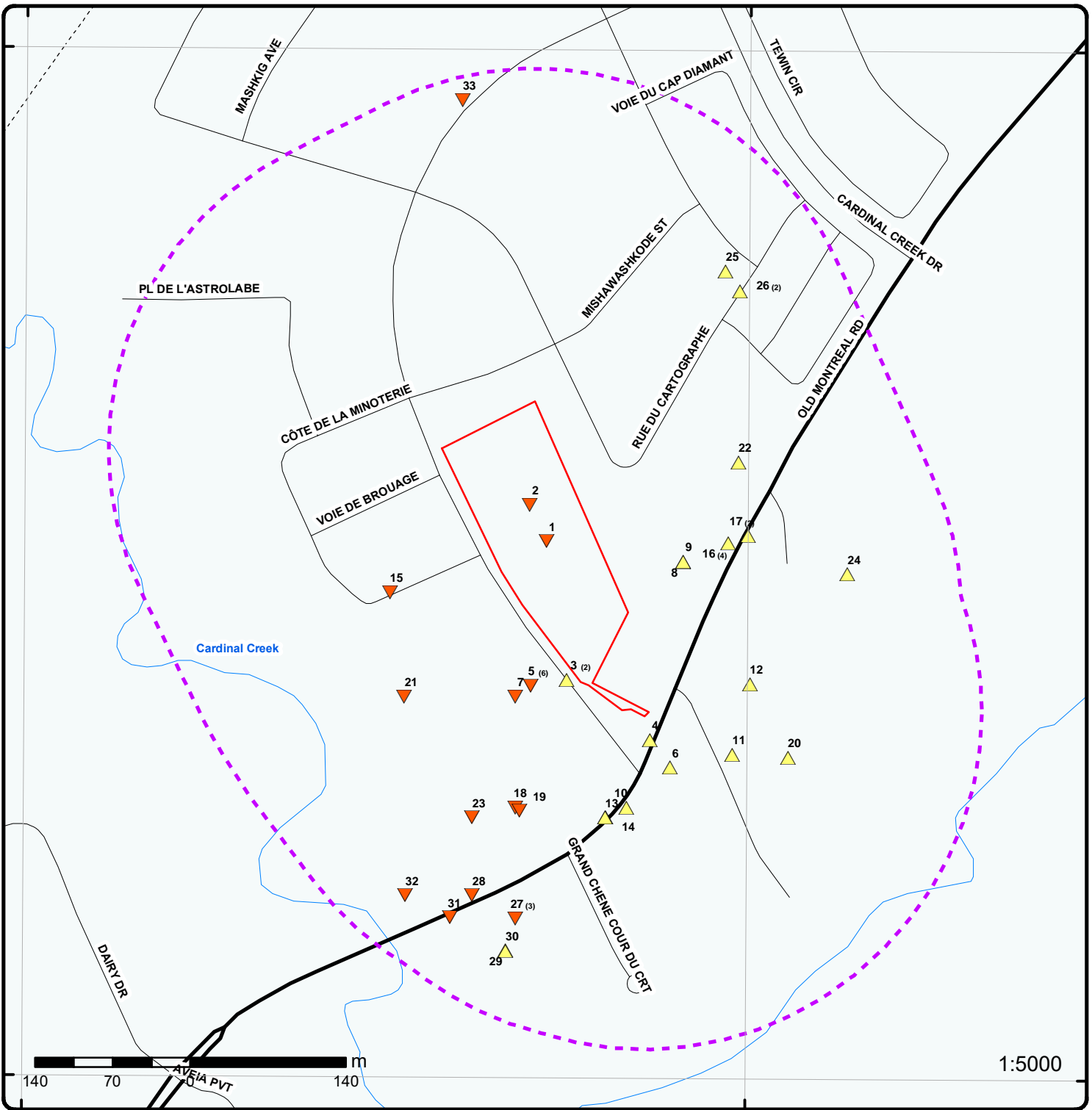
Well ID: 1513137

Distance (m)

248.7

Map Key

[32](#)



Map: 0.3 Kilometer Radius

Order Number: 21081900252

Address: Vacant Land, North of Old Montreal Road, Ottawa, ON



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

75°28'30"W

45°30'N

45°30'N



Aerial Year: 2020

Order Number: 21081900252

Address: Vacant Land, North of Old Montreal Road, Ottawa, ON



Source: ESRI World Imagery

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

Topographic Map

Order Number: 21081900252

Address: Vacant Land, North of Old Montreal Road, ON



Source: ESRI World Topographic Map

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	ESE/0.0	67.3 / -1.10	Part Lot 28 Concession 1 OS Cumberland Part 1 Plan 4R24727 Orléans ON K4A 3N6	EHS
Order No: 20180813026 Status: C Report Type: Custom Report Report Date: 23-AUG-18 Date Received: 13-AUG-18 Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.468974 Y: 45.496013			
<u>2</u>	1 of 1	NNW/0.0	66.5 / -1.88	1123 Old Montreal Rd Ottawa ON K4A3N6	EHS
Order No: 20180323180 Status: C Report Type: Standard Report Report Date: 02-APR-18 Date Received: 23-MAR-18 Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.469172 Y: 45.496312			
<u>3</u>	1 of 2	SSE/9.0	68.7 / 0.28	OLD MONTREAL ROAD lot 25 con 1 CUMBERLAND ON	WWIS
Well ID: 1534786 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Supply Water Type: Casing Material: Audit No: Z04951 Tag: A004809 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:		Data Entry Status: Data Src: 1 Date Received: 7/6/2004 Selected Flag: True Abandonment Rec: Contractor: 1119 Form Version: 3 Owner: Street Name: OLD MONTREAL ROAD County: OTTAWA Municipality: CUMBERLAND TOWNSHIP Site Info: PORT 1-3 PLAN 50R-7211 Lot: 025 Concession: 01 Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:			
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534786.pdf			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Additional Detail(s) (Map)

Well Completed Date: 2004/05/13
Year Completed: 2004
Depth (m): 89.9
Latitude: 45.494893221113
Longitude: -75.4687341066317
Path: 153\1534786.pdf

Bore Hole Information

Bore Hole ID:	11172538	Elevation:	68.602149
DP2BR:	45.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463376.00
Code OB Desc:	Bedrock	North83:	5038036.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	13-May-2004 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 932968161
Layer: 2
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 13
Mat3 Desc: BOULDERS
Formation Top Depth: 10.399999618530273
Formation End Depth: 13.699999809265137
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 932968162
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 17
Mat2 Desc: SHALE
Mat3:
Mat3 Desc:
Formation Top Depth: 13.699999809265137
Formation End Depth: 89.9000015258789
Formation End Depth UOM: m

Overburden and Bedrock

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:		932968160			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		10.399999618530273			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933252960			
Layer:		2			
Plug From:		11.6000003814697			
Plug To:		0			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933252959			
Layer:		1			
Plug From:		14.6000003814697			
Plug To:		1.60000002384186			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961534786			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11181057			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930842633			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		14.6000003814697			
Depth To:		89.9000015258789			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:			930842632		
Layer:			1		
Material:			1		
Open Hole or Material:			STEEL		
Depth From:			0		
Depth To:			15.1999998092651		
Casing Diameter:			15.8800001144409		
Casing Diameter UOM:			cm		
Casing Depth UOM:			m		
<u>Results of Well Yield Testing</u>					
Pump Test ID:			11189448		
Pump Set At:					
Static Level:			21.479999542236328		
Final Level After Pumping:			49.47999954223633		
Recommended Pump Depth:			85.30000305175781		
Pumping Rate:			18.899999618530273		
Flowing Rate:					
Recommended Pump Rate:			22.75		
Levels UOM:			m		
Rate UOM:			LPM		
Water State After Test Code:			1		
Water State After Test:			CLEAR		
Pumping Test Method:			1		
Pumping Duration HR:			1		
Pumping Duration MIN:					
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11210366		
Test Type:			Draw Down		
Test Duration:			1		
Test Level:			22.219999313354492		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11210655		
Test Type:			Draw Down		
Test Duration:			20		
Test Level:			34.97999954223633		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11210652		
Test Type:			Recovery		
Test Duration:			10		
Test Level:			42.959999084472656		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			11210657		
Test Type:			Draw Down		
Test Duration:			25		
Test Level:			37.459999084472656		
Test Level UOM:			m		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210659			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		39.79999923706055			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210642			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		47.27000045776367			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210646			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		45.939998626708984			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210660			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		33.09000015258789			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210662			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		25.760000228881836			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210666			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		25.18000030517578			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210653			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		32.220001220703125			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11210654			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		35.16999816894531			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210661			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		43.689998626708984			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210664			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		27.25			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210650			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		44.310001373291016			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210656			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		37.029998779296875			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210658			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		34.959999084472656			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210644			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		46.70000076293945			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210645			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		24.100000381469727			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210647			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		24.90999984741211			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210648			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		44.869998931884766			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210663			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		46.91999816894531			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210665			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		49.47999954223633			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210649			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		25.68000030517578			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210643			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		23.200000762939453			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11210651			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		29.170000076293945			
Test Level UOM:		m			

Water Details

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID:		934050149			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		88.4000015258789			
Water Found Depth UOM:		m			
<u>Water Details</u>					
Water ID:		934050148			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		82.9000015258789			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		11305596			
Diameter:		14.59000015258789			
Depth From:		0.0			
Depth To:		28.950000762939453			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<u>3</u>	2 of 2	SSE/9.0	68.7 / 0.28	1123 OLD MONTREAL ROAD lot 28 Ottawa ON	WWIS
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Well ID:	7235406	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Not Used	Date Received:	1/14/2015
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Abandoned-Other	Abandonment Rec:	Yes
Water Type:		Contractor:	4875
Casing Material:		Form Version:	7
Audit No:	Z190192	Owner:	
Tag:	A004809	Street Name:	1123 OLD MONTREAL ROAD
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	OF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/723\7235406.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/11/04
Year Completed:	2014
Depth (m):	
Latitude:	45.494893221113
Longitude:	-75.4687341066317
Path:	723\7235406.pdf

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	1005280468			Elevation:	68.612686
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	463376.00
Code OB Desc:				North83:	5038036.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	04-Nov-2014 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	1005480944				
Layer:	1				
Plug From:	0				
Plug To:	66.5599975585938				
Plug Depth UOM:	m				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	1005480943				
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	1005480936				
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:	1005480941				
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:	m				
Screen Diameter UOM:	cm				
Screen Diameter:					
<u>Water Details</u>					
Water ID:	1005480939				
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:	m				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Hole Diameter

Hole ID: 1005480938
 Diameter:
 Depth From:
 Depth To:
 Hole Depth UOM: m
 Hole Diameter UOM: cm

4	1 of 1	SE/21.5	73.6 / 5.20	lot 28 con 1 ON	WWIS
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Well ID:	1513134	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	8/27/1963
Sec. Water Use:	0	Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1504
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	OF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513134.pdf

Additional Detail(s) (Map)

Well Completed Date: 1963/08/13
Year Completed: 1963
Depth (m): 20.1168
Latitude: 45.4944110998232
Longitude: -75.4677727831668
Path: 151\1513134.pdf

Bore Hole Information

Bore Hole ID:	10035122	Elevation:	71.379852
DP2BR:	53.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463450.80
Code OB Desc:	Bedrock	North83:	5037982.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	13-Aug-1963 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931022500		
Layer:			2		
Color:			2		
General Color:			GREY		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			53.0		
Formation End Depth:			66.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931022499		
Layer:			1		
Color:			3		
General Color:			BLUE		
Mat1:			05		
Most Common Material:			CLAY		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			0.0		
Formation End Depth:			53.0		
Formation End Depth UOM:			ft		
<u>Method of Construction & Well Use</u>					
Method Construction ID:			961513134		
Method Construction Code:			7		
Method Construction:			Diamond		
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:			10583692		
Casing No:			1		
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:			930062230		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			66		
Casing Diameter:			2		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID: 930062229 Layer: 1 Material: 1 Open Hole or Material: STEEL Depth From: Depth To: 56 Casing Diameter: 2 Casing Diameter UOM: inch Casing Depth UOM: ft					
<u>Results of Well Yield Testing</u>					
Pump Test ID: 991513134 Pump Set At: Static Level: 32.0 Final Level After Pumping: 45.0 Recommended Pump Depth: 45.0 Pumping Rate: 8.0 Flowing Rate: Recommended Pump Rate: 8.0 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: No					
<u>Water Details</u>					
Water ID: 933468635 Layer: 1 Kind Code: 1 Kind: FRESH Water Found Depth: 66.0 Water Found Depth UOM: ft					
5	1 of 6	S/38.2	67.3 / -1.12	Word of Life Church (Ottawa/Hull) 1123 Queen Street (Old Montreal Road) Ottawa ON	CA
Certificate #: 5012-66KQTM Application Year: 2004 Issue Date: 11/26/2004 Approval Type: Municipal and Private Sewage Works Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
5	2 of 6	S/38.2	67.3 / -1.12	Tamarack (Cardinal Creek) Corporation 1123 Old Montreal Rd Part of Lots 27 and 28, Concession 1 Ottawa ON K1V 8Y3	ECA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p>Approval No: 4185-9LVSK2 Approval Date: 2014-07-16 Status: Revoked and/or Replaced Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Tamarack (Cardinal Creek) Corporation Address: 1123 Old Montreal Rd Part of Lots 27 and 28, Concession 1 Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1659-9KXN7P-14.pdf</p>					
5	3 of 6	S/38.2	67.3 / -1.12	Tamarack (Cardinal Creek) Corporation 1123 Old Montreal Rd Part of Lot 28, Concession 1 Ottawa ON K1V 8Y3	ECA
<p>Approval No: 3548-9UCJYM Approval Date: 2015-03-10 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Tamarack (Cardinal Creek) Corporation Address: 1123 Old Montreal Rd Part of Lot 28, Concession 1 Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3651-9TKMM4-14.pdf</p>					
5	4 of 6	S/38.2	67.3 / -1.12	Tamarack (Cardinal Creek) Corporation 1123 Old Montreal Rd Part of Lot 28, Concession 1 Ottawa ON K1V 8Y3	ECA
<p>Approval No: 3610-AAFH8K Approval Date: 2016-06-01 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Tamarack (Cardinal Creek) Corporation Address: 1123 Old Montreal Rd Part of Lot 28, Concession 1 Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1438-AA5NYD-14.pdf</p>					
5	5 of 6	S/38.2	67.3 / -1.12	Word of Life Church (Ottawa/Hull) 1123 Queen Street (Old Montreal Road) Ottawa ON K1B 3L7	ECA
<p>Approval No: 5012-66KQTM Approval Date: 2004-11-26 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Project Type: Business Name: Address: Full Address: Full PDF Link:		MUNICIPAL AND PRIVATE SEWAGE WORKS Word of Life Church (Ottawa/Hull) 1123 Queen Street (Old Montreal Road) https://www.accessenvironment.ene.gov.on.ca/instruments/7627-645HME-14.pdf			
5	6 of 6	S/38.2	67.3 / -1.12	Tamarack (Cardinal Creek) Corporation 1123 Old Montreal Rd Part of Lots 26 and 27, Concession 1 Ottawa ON K1V 8Y3	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link:		7792-ASJR4M 2017-10-31 Revoked and/or Replaced ECA IDS ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS Tamarack (Cardinal Creek) Corporation 1123 Old Montreal Rd Part of Lots 26 and 27, Concession 1 https://www.accessenvironment.ene.gov.on.ca/instruments/8194-AS3K9E-14.pdf			
6	1 of 1	SE/51.3	73.6 / 5.20	1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON	WWIS
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:		1534642 Not Used Abandoned-Quality Z04891 A004710 Abandoned-Quality 2004/04/06 2004 45.4941870323157 -75.4675379973216 153\1534642.pdf			
Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:		6/7/2004 True 1119 3 1154 OLD MONTREAL RD OTTAWA CUMBERLAND TOWNSHIP 028 01 CON			
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534642.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:		2004/04/06 2004 45.4941870323157 -75.4675379973216 153\1534642.pdf			
<u>Bore Hole Information</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	11104908			Elevation:	74.444313
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:	-			East83:	463469.00
Code OB Desc:	No formation data			North83:	5037957.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	5
Date Completed:	06-Apr-2004 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Method of Construction & Well Use

Method Construction ID: 961534642
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11109418
Casing No: 1
Comment:
Alt Name:

7	1 of 1	SSW/54.8	66.7 / -1.71	lot 28 con 1 ON	WWIS
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Well ID:	1516925	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	2/28/1979
Sec. Water Use:	0	Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1504
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	OF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1516925.pdf

Additional Detail(s) (Map)

Well Completed Date: 1978/04/25
Year Completed: 1978
Depth (m): 45.72

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Latitude:		45.4947557806712			
Longitude:		-75.4693242581917			
Path:		151\1516925.pdf			

Bore Hole Information

Bore Hole ID:	10038814	Elevation:	67.758728
DP2BR:	49.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	h	East83:	463329.80
Code OB Desc:	Mixed in a Layer	North83:	5038021.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	25-Apr-1978 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931033619
Layer:	1
Color:	5
General Color:	YELLOW
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931033620
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	49.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931033621
Layer:	3
Color:	6

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:		BROWN			
Mat1:		12			
Most Common Material:		STONES			
Mat2:		19			
Mat2 Desc:		SLATE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		49.0			
Formation End Depth:		55.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931033622			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		55.0			
Formation End Depth:		140.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931033623			
Layer:		5			
Color:		6			
General Color:		BROWN			
Mat1:		19			
Most Common Material:		SLATE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		140.0			
Formation End Depth:		150.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961516925			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10587384			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930068101			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		48			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991516925			
Pump Set At:					
Static Level:		60.0			
Final Level After Pumping:		110.0			
Recommended Pump Depth:		110.0			
Pumping Rate:		20.0			
Flowing Rate:					
Recommended Pump Rate:		11.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934382057			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		60.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934102478			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		70.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934643146			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		60.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934901047			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		60.0			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Details					
Water ID:		933473309			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		150.0			
Water Found Depth UOM:		ft			

8	1 of 1	E/63.4	72.2 / 3.84	lot 27 con 1 ON	WWIS
Well ID:	1513130			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	1/19/1960
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	027
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513130.pdf

Additional Detail(s) (Map)

Well Completed Date: 1959/09/15
Year Completed: 1959
Depth (m): 44.8056
Latitude: 45.495852806392
Longitude: -75.4674007564499
Path: 151\1513130.pdf

Bore Hole Information

Bore Hole ID:	10035118	Elevation:	71.380737
DP2BR:	48.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463480.80
Code OB Desc:	Bedrock	North83:	5038142.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	15-Sep-1959 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931022490		
Layer:			3		
Color:					
General Color:					
Mat1:			11		
Most Common Material:			GRAVEL		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			46.0		
Formation End Depth:			48.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931022489		
Layer:			2		
Color:					
General Color:					
Mat1:			09		
Most Common Material:			MEDIUM SAND		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			43.0		
Formation End Depth:			46.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931022491		
Layer:			4		
Color:					
General Color:					
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			48.0		
Formation End Depth:			147.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931022488		
Layer:			1		
Color:					
General Color:					
Mat1:			05		
Most Common Material:			CLAY		
Mat2:					
Mat2 Desc:					
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:			0.0		
Formation End Depth:			43.0		
Formation End Depth UOM:			ft		
<u>Method of Construction & Well Use</u>					
Method Construction ID:			961513130		
Method Construction Code:			7		
Method Construction:			Diamond		
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:			10583688		
Casing No:			1		
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:			930062221		
Layer:			1		
Material:			1		
Open Hole or Material:			STEEL		
Depth From:					
Depth To:			49		
Casing Diameter:			2		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Construction Record - Casing</u>					
Casing ID:			930062222		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			147		
Casing Diameter:			2		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Results of Well Yield Testing</u>					
Pump Test ID:			991513130		
Pump Set At:					
Static Level:			71.0		
Final Level After Pumping:			90.0		
Recommended Pump Depth:			80.0		
Pumping Rate:			9.0		
Flowing Rate:					
Recommended Pump Rate:			7.0		
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:			No		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Details					
Water ID:		933468631			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		147.0			
Water Found Depth UOM:		ft			

<u>9</u>	1 of 1	E/63.5	72.2 / 3.84	ON	BORE
Borehole ID:	616403			Inclin FLG:	No
OGF ID:	215517191			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	SEP-1959			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.495855
Total Depth m:	44.8			Longitude DD:	-75.467401
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	463481
Drill Method:				Northing:	5038142
Orig Ground Elev m:	74.7			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	71.4				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218403844			Mat Consistency:	
Top Depth:	13.1			Material Moisture:	
Bottom Depth:	14			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	SAND.				
Geology Stratum ID:	218403846			Mat Consistency:	
Top Depth:	14.6			Material Moisture:	
Bottom Depth:	44.8			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Limestone			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	LIMESTONE. 00147IED. SEISMIC VELOCITY = 6600. BEDROCK. SEISMIC VELOCITY = 19000. K. DA **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218403843			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	13.1			Material Texture:	
Material Color:				Non Geo Mat Type:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	Clay			Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218403845 14 14.6	CLAY.		Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
Source					
Source Type: Source Orig: Source Date: Confidence: Observatio: Source Name: Source Details: Confiden 1:	Data Survey Geological Survey of Canada 1956-1972			Source Appl: Source Ident: Scale or Res: Horizontal: Verticalda:	Spatial/Tabular 1 Varies NAD27 Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS) Source Details: File: OTTAWA2.txt RecordID: 08911 NTS_Sheet:					
Source List					
Source Identifier: Source Type: Source Date: Scale or Resolution: Source Name: Source Originators:	1 Data Survey 1956-1972 Varies Urban Geology Automated Information System (UGAIS) Geological Survey of Canada			Horizontal Datum: Vertical Datum: Projection Name:	NAD27 Mean Average Sea Level Universal Transverse Mercator
10	1 of 1	SSE/83.5	71.4 / 3.01	lot 28 con 1 ON	WWIS
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:	1517246 Domestic 0 Water Supply			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 2/20/1980 True 1504 1 OTTAWA CUMBERLAND TOWNSHIP 028 01 OF
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1517246.pdf			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Additional Detail(s) (Map)

Well Completed Date: 1979/12/13
Year Completed: 1979
Depth (m): 43.8912
Latitude: 45.4938609474251
Longitude: -75.4680369932206
Path: 151\1517246.pdf

Bore Hole Information

Bore Hole ID:	10039123	Elevation:	68.575416
DP2BR:	95.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	y	East83:	463429.80
Code OB Desc:	Unknown type (bedrock encountered)	North83:	5037921.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	13-Dec-1979 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931034540
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 60.0
Formation End Depth: 70.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931034542
Layer: 5
Color: 2
General Color: GREY
Mat1: 13
Most Common Material: BOULDERS
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 80.0
Formation End Depth: 95.0
Formation End Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931034544		
Layer:			7		
Color:					
General Color:					
Mat1:			00		
Most Common Material:			UNKNOWN TYPE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			144.0		
Formation End Depth:			144.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931034539		
Layer:			2		
Color:			3		
General Color:			BLUE		
Mat1:			05		
Most Common Material:			CLAY		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			13.0		
Formation End Depth:			60.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931034541		
Layer:			4		
Color:			2		
General Color:			GREY		
Mat1:			28		
Most Common Material:			SAND		
Mat2:			11		
Mat2 Desc:			GRAVEL		
Mat3:					
Mat3 Desc:					
Formation Top Depth:			70.0		
Formation End Depth:			80.0		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			931034538		
Layer:			1		
Color:			5		
General Color:			YELLOW		
Mat1:			05		
Most Common Material:			CLAY		
Mat2:					
Mat2 Desc:					
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		13.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931034543			
Layer:		6			
Color:		6			
General Color:		BROWN			
Mat1:		19			
Most Common Material:		SLATE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		95.0			
Formation End Depth:		144.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961517246			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10587693			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930068517			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		82			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991517246			
Pump Set At:					
Static Level:		75.0			
Final Level After Pumping:		95.0			
Recommended Pump Depth:		95.0			
Pumping Rate:		8.0			
Flowing Rate:					
Recommended Pump Rate:		4.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934102766			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		75.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934383191			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		75.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934644688			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		75.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934893963			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		75.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933473684			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		144.0			
Water Found Depth UOM:		ft			

11	1 of 1	SE/84.1	80.8 / 12.44	1154 OLD MONTREAL RD lot 28 con 1 CUMBERLAND ON	WWIS
Well ID:		1534641		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:		Domestic		Date Received: 6/7/2004	
Sec. Water Use:				Selected Flag: True	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 1119	
Casing Material:				Form Version: 3	
Audit No:		Z04889		Owner:	
Tag:		A004703		Street Name: 1154 OLD MONTREAL RD	
Construction Method:				County: OTTAWA	
Elevation (m):				Municipality: CUMBERLAND TOWNSHIP	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534641.pdf

Additional Detail(s) (Map)

Well Completed Date: 2004/04/02
Year Completed: 2004
Depth (m): 85.3
Latitude: 45.4942979736324
Longitude: -75.4668222038329
Path: 153\1534641.pdf

Bore Hole Information

Bore Hole ID:	11104907	Elevation:	82.109863
DP2BR:	55.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463525.00
Code OB Desc:	Bedrock	North83:	5037969.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	5
Date Completed:	02-Apr-2004 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 932955258
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 16.799999237060547
Formation End Depth UOM: m

Overburden and Bedrock

Materials Interval

Formation ID: 932955259
Layer: 2
Color: 2

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		16.799999237060547			
Formation End Depth:		85.30000305175781			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933248747			
Layer:		2			
Plug From:		14.6000003814697			
Plug To:		0			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933248746			
Layer:		1			
Plug From:		17.7000007629395			
Plug To:		14.6000003814697			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961534641			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11109417			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930837431			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		0			
Depth To:		18.2999992370605			
Casing Diameter:		15.8800001144409			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Casing</u>					
Casing ID:		930837432			
Layer:		2			
Material:		4			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Open Hole or Material:		OPEN HOLE			
Depth From:		17.7000007629395			
Depth To:		85.3000030517578			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11117420			
Pump Set At:					
Static Level:		30.56999969482422			
Final Level After Pumping:		59.29999923706055			
Recommended Pump Depth:		79.19999694824219			
Pumping Rate:		15.100000381469727			
Flowing Rate:					
Recommended Pump Rate:		15.100000381469727			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124745			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		32.439998626708984			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124804			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		41.099998474121094			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124799			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		33.20000076293945			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124805			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		43.400001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124809			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		56.79999923706055			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124818			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		48.599998474121094			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124821			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		41.099998474121094			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124823			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		36.84000015258789			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124743			
Test Type:		Draw Down			
Test Duration:		0			
Test Level:		30.56999969482422			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124808			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		54.099998474121094			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124801			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		34.5			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124803			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		38.20000076293945			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124814			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		55.5			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124802			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		35.29999923706055			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124806			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		46.29999923706055			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124816			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		52.400001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124800			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		33.900001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124807			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		48.58000183105469			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124812			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		57.400001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11124813			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		56.400001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124817			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		50.400001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124819			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		47.650001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124820			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		45.08000183105469			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124744			
Test Type:		Recovery			
Test Duration:		0			
Test Level:		59.29999923706055			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124815			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		54.900001525878906			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124810			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		59.29999923706055			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11124811			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		58.400001525878906			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11124822
 Test Type: Recovery
 Test Duration: 50
 Test Level: 39.0
 Test Level UOM: m

Water Details

Water ID: 934046436
 Layer: 1
 Kind Code: 5
 Kind: Not stated
 Water Found Depth: 37.5
 Water Found Depth UOM: m

Water Details

Water ID: 934046437
 Layer: 2
 Kind Code: 5
 Kind: Not stated
 Water Found Depth: 85.30000305175781
 Water Found Depth UOM: m

Hole Diameter

Hole ID: 11109416
 Diameter: 15.239999771118164
 Depth From: 0.0
 Depth To: 85.30000305175781
 Hole Depth UOM: m
 Hole Diameter UOM: cm

12	1 of 1	ESE/94.4	82.9 / 14.50	lot 27 con 1 ON	WWIS
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Well ID:	1512408	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	4/24/1973
Sec. Water Use:	0	Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1504
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	027
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	OF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1512408.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Additional Detail(s) (Map)

Well Completed Date: 1972/07/18
Year Completed: 1972
Depth (m): 25.908
Latitude: 45.4948658530828
Longitude: -75.4666246787785
Path: 151\1512408.pdf

Bore Hole Information

Bore Hole ID:	10034399	Elevation:	80.668151
DP2BR:	70.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463540.80
Code OB Desc:	Bedrock	North83:	5038032.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	18-Jul-1972 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931020545
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 20.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931020546
Layer: 3
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 60.0
Formation End Depth: 70.0
Formation End Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931020544			
Layer:		1			
Color:		7			
General Color:		RED			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		20.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931020547			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		70.0			
Formation End Depth:		85.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961512408			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10582969			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930060968			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		70			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930060969			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		85			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991512408			
Pump Set At:					
Static Level:		50.0			
Final Level After Pumping:		65.0			
Recommended Pump Depth:		80.0			
Pumping Rate:		7.0			
Flowing Rate:					
Recommended Pump Rate:		4.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		2			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934895926			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		65.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934098051			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		60.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934377445			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		65.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934647770			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		65.0			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Water Details</u>					
Water ID:		933467864			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		85.0			
Water Found Depth UOM:		ft			
13	1 of 1	SSE/97.3	69.7 / 1.28	ON	BORE
Borehole ID:	616398			Inclin FLG:	No
OGF ID:	215517186			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	NOV-1953			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.493781
Total Depth m:	25.3			Longitude DD:	-75.46828
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	463411
Drill Method:				Northing:	5037912
Orig Ground Elev m:	73.2			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	67.6				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218403835			Mat Consistency:	
Top Depth:	14.3			Material Moisture:	
Bottom Depth:	25.3			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Limestone			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BEDROCK. TY = 900. UNSPECIFIED. SEISMIC VELOCITY = 6600. BEDROCK. SEISMIC VELOCITY = 19000.				
Geology Stratum ID:	218403834			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	14.3			Material Texture:	
Material Color:	Blue			Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY. BLUE.				
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1
Source Date:	1956-1972			Scale or Res:	Varies

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Confidence:				Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:		Urban Geology Automated Information System (UGAIS)			
Source Details:		File: OTTAWA2.txt RecordID: 08906 NTS_Sheet:			
Confiden 1:					
Source List					
Source Identifier:		1		Horizontal Datum:	NAD27
Source Type:		Data Survey		Vertical Datum:	Mean Average Sea Level
Source Date:		1956-1972		Projection Name:	Universal Transverse Mercator
Scale or Resolution:		Varies			
Source Name:		Urban Geology Automated Information System (UGAIS)			
Source Originators:		Geological Survey of Canada			

14	1 of 1	SSE/97.5	69.7 / 1.28	lot 28 con 1 ON	WWIS
Well ID:		1513131		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	1/4/1954
Sec. Water Use:		0		Selected Flag:	True
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	3113
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513131.pdf

Additional Detail(s) (Map)

Well Completed Date: 1953/11/19
Year Completed: 1953
Depth (m): 25.2984
Latitude: 45.4937789432436
Longitude: -75.4682794816778
Path: 151\1513131.pdf

Bore Hole Information

Bore Hole ID:	10035119	Elevation:	67.590286
DP2BR:	47.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463410.80
Code OB Desc:	Bedrock	North83:	5037912.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	19-Nov-1953 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

**Overburden and Bedrock
Materials Interval**

Formation ID: 931022493
Layer: 2
Color:
General Color:
Mat1: 26
Most Common Material: ROCK
Mat2: 15
Mat2 Desc: LIMESTONE
Mat3:
Mat3 Desc:
Formation Top Depth: 47.0
Formation End Depth: 83.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931022492
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 47.0
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961513131
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10583689
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930062223
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		58			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930062224			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		83			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991513131			
Pump Set At:					
Static Level:		43.0			
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:		6.0			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		21			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933468632			
Layer:		1			
Kind Code:		4			
Kind:		MINERIAL			
Water Found Depth:					
Water Found Depth UOM:		ft			

[15](#) 1 of 1 **WSW/98.3** **63.1 / -5.32** **lot 28 ON** **WWIS**

Well ID:	1524109	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	1/29/1990
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1504
Casing Material:		Form Version:	1
Audit No:	59251	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1524109.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1989/12/09			
Year Completed:		1989			
Depth (m):		52.7304			
Latitude:		45.4955959190402			
Longitude:		-75.4707749320084			
Path:		152\1524109.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10045881		Elevation:	63.510242
DP2BR:		54.00		Elevrc:	
Spatial Status:				Zone:	18
Code OB:		r		East83:	463217.00
Code OB Desc:		Bedrock		North83:	5038115.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	7
Date Completed:		09-Dec-1989 00:00:00		UTMRC Desc:	margin of error : 1 km - 3 km
Remarks:				Location Method:	lot
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931056887			
Layer:		1			
Color:		5			
General Color:		YELLOW			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		14.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931056890			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		54.0			
Formation End Depth:		173.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931056888			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		14.0			
Formation End Depth:		50.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931056889			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		29			
Mat2 Desc:		FINE GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		50.0			
Formation End Depth:		54.0			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961524109			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10594451			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930080320			
Layer:		1			
Material:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		57			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930080321			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		173			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991524109			
Pump Set At:					
Static Level:		71.0			
Final Level After Pumping:		170.0			
Recommended Pump Depth:		160.0			
Pumping Rate:		4.0			
Flowing Rate:					
Recommended Pump Rate:		4.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934910089			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		71.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934107690			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		110.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934391919			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		71.0			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934652469			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		71.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933482649			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		160.0			
Water Found Depth UOM:		ft			

16	1 of 4	E/107.7	75.2 / 6.80	J.A. LAPORTE NURSERY 1211 OLD MONTREAL RD ORLEANS ON K4A3N6	PES
Detail Licence No:				Operator Box:	
Licence No:	10338			Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)			Oper Area Code:	613
Licence Type:	Limited Vendor			Oper Phone No:	8332316
Licence Type Code:	23			Operator Ext:	
Licence Class:	01			Operator Lot:	
Licence Control:	0			Oper Concession:	
Latitude:				Operator Region:	4
Longitude:				Operator District:	
Lot:				Operator County:	15
Concession:				Op Municipality:	
Region:	4			Post Office Box:	
District:				MOE District:	
County:	15			SWP Area Name:	
Trade Name:					
PDF Link:					

16	2 of 4	E/107.7	75.2 / 6.80	J.A. LAPORTE NURSERY 1211 OLD MONTREAL RD ORLEANS ON K4A 3N6	PES
Detail Licence No:				Operator Box:	
Licence No:				Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:	Vendor			Oper Area Code:	
Licence Type:				Oper Phone No:	
Licence Type Code:				Operator Ext:	
Licence Class:				Operator Lot:	
Licence Control:				Oper Concession:	
Latitude:				Operator Region:	
Longitude:				Operator District:	
Lot:				Operator County:	
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	
County:				SWP Area Name:	
Trade Name:					
PDF Link:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
16	3 of 4	E/107.7	75.2 / 6.80	J.A. LAPORTE NURSERY 1211 OLD MONTREAL RD ORLEANS ON K4A3N6	PES
Detail Licence No: Licence No: 10338 Status: Approval Date: Report Source: Legacy Licenses (Excluding TS) Licence Type: Retail Vendor Class 03 Licence Type Code: 21 Licence Class: 03 Licence Control: Latitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF Link:		Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: 613 Oper Phone No: 8332316 Operator Ext: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:			
16	4 of 4	E/107.7	75.2 / 6.80	Tamarack (Cardinal Creek) Corporation 1211 Old Montreal Rd Ottawa ON K1V 8Y3	ECA
Approval No: 9999-BFWK2C Approval Date: 2019-09-20 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Tamarack (Cardinal Creek) Corporation Address: 1211 Old Montreal Rd Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1778-BFHRVS-14.pdf		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:			
17	1 of 2	E/126.4	77.9 / 9.50	1208 Old Montreal Road Orléans ON K4A 3N6	EHS
Order No: 21020200030 Status: C Report Type: Standard Report Report Date: 05-FEB-21 Date Received: 02-FEB-21 Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.4666548 Y: 45.4960694			
17	2 of 2	E/126.4	77.9 / 9.50	1208 Old Montreal Road Orléans ON K4A 3N6	EHS
Order No: 21020200030 Status: C Report Type: Standard Report		Nearest Intersection: Municipality: Client Prov/State: ON			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Report Date:	05-FEB-21			Search Radius (km):	.25
Date Received:	02-FEB-21			X:	-75.4666548
Previous Site Name:				Y:	45.4960694
Lot/Building Size:					
Additional Info Ordered:					

18	1 of 1	S/127.5	67.3 / -1.09	lot 28 con 1 ON	WWIS
Well ID:	1516407			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	2/10/1978
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1516407.pdf

Additional Detail(s) (Map)

Well Completed Date: 1977/08/29
Year Completed: 1977
Depth (m): 15.24
Latitude: 45.4938556964476
Longitude: -75.4693167816992
Path: 151\1516407.pdf

Bore Hole Information

Bore Hole ID:	10038328	Elevation:	67.104125
DP2BR:	42.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463329.80
Code OB Desc:	Bedrock	North83:	5037921.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	29-Aug-1977 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		931032035			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		19			
Most Common Material:		SLATE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		42.0			
Formation End Depth:		46.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931032033			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		11.0			
Formation End Depth:		40.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931032032			
Layer:		1			
Color:		5			
General Color:		YELLOW			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		11.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931032036			
Layer:		5			
Color:		8			
General Color:		BLACK			
Mat1:		19			
Most Common Material:		SLATE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		46.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		48.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931032037			
Layer:		6			
Color:		2			
General Color:		GREY			
Mat1:		19			
Most Common Material:		SLATE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		48.0			
Formation End Depth:		50.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931032034			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		40.0			
Formation End Depth:		42.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961516407			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10586898			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930067367			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		43			
Casing Diameter:		6			
Casing Diameter UOM:		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991516407			
Pump Set At:					
Static Level:		3.0			
Final Level After Pumping:		30.0			
Recommended Pump Depth:		30.0			
Pumping Rate:		7.0			
Flowing Rate:					
Recommended Pump Rate:		4.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934101900			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		3.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934899356			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		3.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934641454			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		3.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934380363			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		3.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933472706			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		50.0			
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	1 of 1	S/127.8	67.3 / -1.09	1105 Old Montreal Road Ottawa ON	SPL
Ref No:	6662-AYZVJG			Discharger Report:	
Site No:	NA			Material Group:	
Incident Dt:	2018/05/22			Health/Env Conseq:	2 - Minor Environment
Year:				Client Type:	
Incident Cause:				Sector Type:	Miscellaneous Communal
Incident Event:	Collision/Accident			Agency Involved:	
Contaminant Code:	15			Nearest Watercourse:	
Contaminant Name:	MOTOR OIL			Site Address:	1105 Old Montreal Road
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:	1993			Site Region:	Eastern
Environment Impact:				Site Municipality:	Ottawa
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:	Land			Northing:	5032788.92
MOE Response:	No			Easting:	451511.67
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	2018/05/22			Site Map Datum:	
Dt Document Closed:	2018/05/28			SAC Action Class:	Land Spills
Incident Reason:	Unknown / N/A			Source Type:	Motor Vehicle
Site Name:	CB<UNOFFICIAL>				
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	MVC - motor oil to CB				
Contaminant Qty:	0 other - see incident description				
20	1 of 1	ESE/131.9	84.7 / 16.35	1154-1208 Old Montreal Rd Ottawa ON	EHS
Order No:	20160711137			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	18-JUL-16			Search Radius (km):	.25
Date Received:	11-JUL-16			X:	-75.46618
Previous Site Name:				Y:	45.494271
Lot/Building Size:					
Additional Info Ordered:					
21	1 of 1	SW/134.5	64.5 / -3.89	lot 28 con 1 ON	WWIS
Well ID:	1517346			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	9/2/1980
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1517
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1517346.pdf				
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:	1980/08/27				
Year Completed:	1980				
Depth (m):	21.336				
Latitude:	45.4947505151915				
Longitude:	-75.4706040667026				
Path:	151\1517346.pdf				
<u>Bore Hole Information</u>					
Bore Hole ID:	10039221			Elevation:	63.424510
DP2BR:	66.00			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	463229.80
Code OB Desc:	Bedrock			North83:	5038021.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	27-Aug-1980 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931034874				
Layer:	1				
Color:					
General Color:					
Mat1:	23				
Most Common Material:	PREVIOUSLY DUG				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0.0				
Formation End Depth:	7.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931034876				
Layer:	3				
Color:	3				
General Color:	BLUE				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:					
Mat2 Desc:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		40.0			
Formation End Depth:		58.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931034878			
Layer:		5			
Color:		8			
General Color:		BLACK			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		63.0			
Formation End Depth:		66.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931034877			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		14			
Most Common Material:		HARDPAN			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		58.0			
Formation End Depth:		63.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931034875			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		7.0			
Formation End Depth:		40.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931034879			
Layer:		6			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		66.0			
Formation End Depth:		70.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961517346			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10587791			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930068669			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		66			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991517346			
Pump Set At:					
Static Level:		40.0			
Final Level After Pumping:		55.0			
Recommended Pump Depth:		56.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		5.0			
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:		30			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934102859			
Test Type:		Draw Down			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Duration:		15			
Test Level:		47.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934894472			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		55.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934383701			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		55.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934644780			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		55.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933473794			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		68.0			
Water Found Depth UOM:		ft			

[22](#) 1 of 1 ENE/145.5 74.1 / 5.68 lot 27 con 1 ON WWIS

Well ID:	1512335	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	11/10/1972
Sec. Water Use:	0	Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1504
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	027
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	OF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1512335.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Additional Detail(s) (Map)

Well Completed Date: 1972/05/31
Year Completed: 1972
Depth (m): 19.812
Latitude: 45.496665498847
Longitude: -75.4667675321101
Path: 151\1512335.pdf

Bore Hole Information

Bore Hole ID:	10034327	Elevation:	74.747116
DP2BR:	10.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463530.80
Code OB Desc:	Bedrock	North83:	5038232.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	31-May-1972 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931020349
Layer: 2
Color: 2
General Color: GREY
Mat1: 26
Most Common Material: ROCK
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 65.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931020348
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961512335			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10582897			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930060853			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		25			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930060854			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		65			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991512335			
Pump Set At:					
Static Level:					
Final Level After Pumping:		5.0			
Recommended Pump Depth:		25.0			
Pumping Rate:		20.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
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:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934376960			
Test Type:		Draw Down			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Duration:		30			
Test Level:		5.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097988			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		5.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934895861			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		5.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934647287			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		5.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933467738			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		65.0			
Water Found Depth UOM:		ft			

[23](#) 1 of 1 **SSW/156.5** **65.6 / -2.77** **lot 28 con 1 ON** **WWIS**

Well ID:	1513135	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	5/17/1965
Sec. Water Use:	0	Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1504
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	OF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513135.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Additional Detail(s) (Map)

Well Completed Date: 1965/03/24
Year Completed: 1965
Depth (m): 55.7784
Latitude: 45.4937726370987
Longitude: -75.4698152255275
Path: 151\1513135.pdf

Bore Hole Information

Bore Hole ID:	10035123	Elevation:	64.910301
DP2BR:	0.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463290.80
Code OB Desc:	Bedrock	North83:	5037912.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	24-Mar-1965 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931022503
Layer: 3
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 180.0
Formation End Depth: 183.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931022501
Layer: 1
Color:
General Color:
Mat1: 26
Most Common Material: ROCK
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931022502			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		8.0			
Formation End Depth:		180.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961513135			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10583693			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930062232			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		183			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930062231			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		26			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991513135			
Pump Set At:					
Static Level:		30.0			
Final Level After Pumping:		60.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Depth:					
Pumping Rate:		14.0			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		3			
Pumping Duration MIN:		0			
Flowing:		No			
Water Details					
Water ID:		933468636			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		183.0			
Water Found Depth UOM:		ft			

24	1 of 1	E/200.2	84.7 / 16.37	lot 27 con 1 ON	WWIS
Well ID:	1514989			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	10/6/1975
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1558
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	027
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1514989.pdf

Additional Detail(s) (Map)

Well Completed Date:	1975/09/26
Year Completed:	1975
Depth (m):	90.8304
Latitude:	45.4957615319453
Longitude:	-75.4655057861356
Path:	151\1514989.pdf

Bore Hole Information

Bore Hole ID:	10036954	Elevation:	85.231178
DP2BR:	76.00	Elevrc:	
Spatial Status:		Zone:	18

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB:	r			East83:	463628.80
Code OB Desc:	Bedrock			North83:	5038131.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	26-Sep-1975 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock
Materials Interval

Formation ID: 931027896
Layer: 3
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Mat2 Desc: BOULDERS
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 68.0
Formation End Depth: 76.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931027895
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 17.0
Formation End Depth: 68.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931027897
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 76.0
Formation End Depth: 298.0
Formation End Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931027894			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		17.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961514989			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10585524			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930065329			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		298			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930065328			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		78			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991514989			
Pump Set At:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Level:		75.0			
Final Level After Pumping:		175.0			
Recommended Pump Depth:		175.0			
Pumping Rate:		3.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934100791			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		175.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934645208			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		175.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934894332			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		175.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934384642			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		175.0			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID:		933470974			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		165.0			
Water Found Depth UOM:		ft			

[25](#)

1 of 1

NE/207.7

71.7 / 3.32

lot 27 con 1
ON

WWIS

Well ID: 1532616
Construction Date:

Data Entry Status:
Data Src: 1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Primary Water Use:	Domestic			Date Received:	1/31/2002
Sec. Water Use:				Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1517
Casing Material:				Form Version:	1
Audit No:	235687			Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	027
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1532616.pdf				

Additional Detail(s) (Map)

Well Completed Date: 2001/08/27
Year Completed: 2001
Depth (m): 38.4048
Latitude: 45.4982130261681
Longitude: -75.4669313500188
Path: 153\1532616.pdf

Bore Hole Information

Bore Hole ID:	10523745	Elevation:	72.263320
DP2BR:	0.00	Elevrc:	
Spatial Status:	Improved	Zone:	18
Code OB:	r	East83:	463519.00
Code OB Desc:	Bedrock	North83:	5038404.00
Open Hole:		Org CS:	N83
Cluster Kind:		UTMRC:	3
Date Completed:	27-Aug-2001 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:	1999-2004 MOE Water Well Data Improvement Project		
Improvement Location Method:	GIS10000		
Source Revision Comment:	Northing and/or Easting field has been changed. Reasonably sure well location matches sketch map (similar features).well only moved to given lot and con		
Supplier Comment:	Accuracy was not specified from source. Within 20m horizontal accuracy assumed as worst case using GIS at a scale of 1:10000.		

Overburden and Bedrock

Materials Interval

Formation ID: 932857286
Layer: 1
Color:
General Color:
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Top Depth:		0.0			
Formation End Depth:		65.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932857287			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		65.0			
Formation End Depth:		126.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961532616			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11072315			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930095234			
Layer:		1			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:					
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991532616			
Pump Set At:					
Static Level:		28.0			
Final Level After Pumping:		30.0			
Recommended Pump Depth:		90.0			
Pumping Rate:		20.0			
Flowing Rate:					
Recommended Pump Rate:		20.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Test Method:	2				
Pumping Duration HR:	1				
Pumping Duration MIN:	0				
Flowing:	No				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934918846				
Test Type:	Draw Down				
Test Duration:	60				
Test Level:	30.0				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934661545				
Test Type:	Draw Down				
Test Duration:	45				
Test Level:	30.0				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934117410				
Test Type:	Draw Down				
Test Duration:	15				
Test Level:	25.0				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934400465				
Test Type:	Draw Down				
Test Duration:	30				
Test Level:	28.0				
Test Level UOM:	ft				
<u>Water Details</u>					
Water ID:	934016261				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	122.0				
Water Found Depth UOM:	ft				

26	1 of 2	NE/209.4	71.9 / 3.56	lot 27 ON	WWIS
Well ID:	1526501			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Commerical			Date Received:	9/9/1992
Sec. Water Use:				Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:	110670			Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth to Bedrock:				Lot:	027
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1526501.pdf

Additional Detail(s) (Map)

Well Completed Date: 1992/09/01
Year Completed: 1992
Depth (m): 62.1792
Latitude: 45.4980516910716
Longitude: -75.4667636260308
Path: 152\1526501.pdf

Bore Hole Information

Bore Hole ID:	10048203	Elevation:	72.888916
DP2BR:	12.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463532.00
Code OB Desc:	Bedrock	North83:	5038386.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	7
Date Completed:	01-Sep-1992 00:00:00	UTMRC Desc:	margin of error : 1 km - 3 km
Remarks:		Location Method:	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 931064344
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931064345
Layer: 2
Color: 2
General Color: GREY

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		19			
Mat2 Desc:		SLATE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12.0			
Formation End Depth:		204.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933111747			
Layer:		1			
Plug From:		0			
Plug To:		38			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961526501			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10596773			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930084409			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		38			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930084410			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		204			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991526501			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Set At:					
Static Level:		79.0			
Final Level After Pumping:		203.0			
Recommended Pump Depth:		189.0			
Pumping Rate:		25.0			
Flowing Rate:					
Recommended Pump Rate:		25.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934909227					
Test Type:					
Test Duration:		60			
Test Level:		79.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934107879					
Test Type:					
Test Duration:		15			
Test Level:		79.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934652030					
Test Type:					
Test Duration:		45			
Test Level:		79.0			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934391512					
Test Type:					
Test Duration:		30			
Test Level:		79.0			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID: 933485842					
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		176.0			
Water Found Depth UOM:		ft			
 <u>Water Details</u>					
Water ID: 933485843					
Layer:		2			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	194.0				
Water Found Depth UOM:	ft				

26	2 of 2	NE/209.4	71.9 / 3.56	lot 27 ON	WWIS
Well ID:	1528921			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Commerical			Date Received:	5/22/1996
Sec. Water Use:				Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:	158973			Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	027
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1528921.pdf

Additional Detail(s) (Map)

Well Completed Date: 1995/09/07
Year Completed: 1995
Depth (m): 62.1792
Latitude: 45.4980516910716
Longitude: -75.4667636260308
Path: 152\1528921.pdf

Bore Hole Information

Bore Hole ID:	10050457	Elevation:	72.888916
DP2BR:	12.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	y	East83:	463532.00
Code OB Desc:	Unknown type (bedrock encountered)	North83:	5038386.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	7
Date Completed:	07-Sep-1995 00:00:00	UTMRC Desc:	margin of error : 1 km - 3 km
Remarks:		Location Method:	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 931071204

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12.0			
Formation End Depth:		180.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931071205			
Layer:		3			
Color:					
General Color:					
Mat1:		00			
Most Common Material:		UNKNOWN TYPE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		180.0			
Formation End Depth:		204.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931071203			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933113913			
Layer:		1			
Plug From:		0			
Plug To:		38			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933113914			
Layer:		2			
Plug From:		180			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To:		204			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961528921			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10599027			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930088168			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		38			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930088169			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		204			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991528921			
Pump Set At:					
Static Level:		79.0			
Final Level After Pumping:		180.0			
Recommended Pump Depth:		175.0			
Pumping Rate:		12.0			
Flowing Rate:					
Recommended Pump Rate:		12.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934105779			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		79.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934389405			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		79.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934658580			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		79.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934907105			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		79.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933488801			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		176.0			
Water Found Depth UOM:		ft			

27	1 of 3	S/210.8	68.2 / -0.20	lot 28 con 1 ON	WWIS
Well ID:	1516909			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	2/28/1979
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Flow Rate:
Clear/Cloudy: UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1516909.pdf

Additional Detail(s) (Map)

Well Completed Date: 1978/05/19
Year Completed: 1978
Depth (m): 19.2024
Latitude: 45.4929556120805
Longitude: -75.4693093055603
Path: 151\1516909.pdf

Bore Hole Information

Bore Hole ID:	10038798	Elevation:	67.755729
DP2BR:	59.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463329.80
Code OB Desc:	Bedrock	North83:	5037821.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	19-May-1978 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931033560
Layer: 4
Color: 2
General Color: GREY
Mat1: 19
Most Common Material: SLATE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 59.0
Formation End Depth: 63.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931033557
Layer: 1
Color: 5
General Color: YELLOW
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Top Depth:		0.0			
Formation End Depth:		28.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931033558			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		28.0			
Formation End Depth:		49.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931033559			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		49.0			
Formation End Depth:		59.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961516909			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10587368			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930068085			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		60			
Casing Diameter:		6			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991516909			
Pump Set At:					
Static Level:		50.0			
Final Level After Pumping:		55.0			
Recommended Pump Depth:		58.0			
Pumping Rate:		20.0			
Flowing Rate:					
Recommended Pump Rate:		20.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934643132			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934901033			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934382043			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934102463			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933473293			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		63.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth UOM:		ft			
27	2 of 3	S/210.8	68.2 / -0.20	lot 28 con 1 ON	WWIS
Well ID:	1518165			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	4/5/1983
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1518165.pdf				
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:	1982/04/12				
Year Completed:	1982				
Depth (m):	43.2816				
Latitude:	45.4929556120805				
Longitude:	-75.4693093055603				
Path:	151\1518165.pdf				
<u>Bore Hole Information</u>					
Bore Hole ID:	10040035			Elevation:	67.755729
DP2BR:	74.00			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	463329.80
Code OB Desc:	Bedrock			North83:	5037821.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	12-Apr-1982 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931037568				
Layer:	2				
Color:	3				
General Color:	BLUE				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		40.0			
Formation End Depth:		74.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931037570			
Layer:		4			
Color:		3			
General Color:		BLUE			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		75.0			
Formation End Depth:		142.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931037567			
Layer:		1			
Color:		5			
General Color:		YELLOW			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		40.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931037569			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		19			
Most Common Material:		SLATE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		74.0			
Formation End Depth:		75.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Use</u>					
Method Construction ID:		961518165			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10588605			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930069925			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		142			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930069924			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		77			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991518165			
Pump Set At:					
Static Level:		65.0			
Final Level After Pumping:		140.0			
Recommended Pump Depth:		120.0			
Pumping Rate:		16.0			
Flowing Rate:					
Recommended Pump Rate:		16.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934103484			
Test Type:		Recovery			
Test Duration:		15			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		65.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934639295			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		65.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934897339			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		65.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934378237			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		65.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933474823			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		142.0			
Water Found Depth UOM:		ft			

27	3 of 3	S/210.8	68.2 / -0.20	lot 28 con 1 ON	WWIS
Well ID:	1518202			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	5/2/1983
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1518202.pdf				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Additional Detail(s) (Map)

Well Completed Date: 1983/03/03
Year Completed: 1983
Depth (m): 20.1168
Latitude: 45.4929556120805
Longitude: -75.4693093055603
Path: 151\1518202.pdf

Bore Hole Information

Bore Hole ID:	10040072	Elevation:	67.755729
DP2BR:	61.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463329.80
Code OB Desc:	Bedrock	North83:	5037821.00
Open Hole:		Org CS:	4
Cluster Kind:		UTMRC:	4
Date Completed:	03-Mar-1983 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931037691
Layer: 3
Color: 2
General Color: GREY
Mat1: 31
Most Common Material: COARSE GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 59.0
Formation End Depth: 61.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931037689
Layer: 1
Color: 5
General Color: YELLOW
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 17.0
Formation End Depth UOM: ft

Overburden and Bedrock

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:		931037690			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		17.0			
Formation End Depth:		59.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931037692			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		61.0			
Formation End Depth:		66.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961518202			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10588642			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930069968			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		66			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930069967			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		62			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991518202			
Pump Set At:					
Static Level:		29.0			
Final Level After Pumping:		65.0			
Recommended Pump Depth:		50.0			
Pumping Rate:		30.0			
Flowing Rate:					
Recommended Pump Rate:		25.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934378273			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		29.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934639331			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		29.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934103521			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		29.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934897792			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		29.0			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Details					
Water ID:		933474863			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		66.0			
Water Found Depth UOM:		ft			

28	1 of 1	SSW/214.3	65.8 / -2.54	lot 28 con 1 ON	WWIS
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Well ID:	1513136	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	1/19/1965
Sec. Water Use:	0	Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1504
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	OF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513136.pdf

Additional Detail(s) (Map)

Well Completed Date:	1964/09/20
Year Completed:	1964
Depth (m):	17.9832
Latitude:	45.4931425780926
Longitude:	-75.4698099866504
Path:	151\1513136.pdf

Bore Hole Information

Bore Hole ID:	10035124	Elevation:	64.266845
DP2BR:	45.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463290.80
Code OB Desc:	Bedrock	North83:	5037842.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	20-Sep-1964 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931022505			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		45.0			
Formation End Depth:		59.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931022504			
Layer:		1			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		45.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961513136			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10583694			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930062234			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		59			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID: 930062233					
Layer: 1					
Material: 1					
Open Hole or Material: STEEL					
Depth From:					
Depth To: 50					
Casing Diameter: 2					
Casing Diameter UOM: inch					
Casing Depth UOM: ft					
Results of Well Yield Testing					
Pump Test ID: 991513136					
Pump Set At:					
Static Level: 25.0					
Final Level After Pumping: 40.0					
Recommended Pump Depth: 40.0					
Pumping Rate: 8.0					
Flowing Rate:					
Recommended Pump Rate: 8.0					
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: No					
Water Details					
Water ID: 933468637					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 59.0					
Water Found Depth UOM: ft					
29	1 of 1	S/240.6	69.3 / 0.96	ON	BORE
Borehole ID: 616395					
OGF ID: 215517183					
Status:					
Type: Borehole					
Use:					
Completion Date: AUG-1969					
Static Water Level:					
Primary Water Use:					
Sec. Water Use:					
Total Depth m: 20.7					
Depth Ref: Ground Surface					
Depth Elev:					
Drill Method:					
Orig Ground Elev m: 53.3					
Elev Reliabil Note:					
DEM Ground Elev m: 67					
Concession:					
Location D:					
Survey D:					
Comments:					
Inclin FLG: No					
SP Status: Initial Entry					
Surv Elev: No					
Piezometer: No					
Primary Name:					
Municipality:					
Lot:					
Township:					
Latitude DD: 45.492696					
Longitude DD: -75.469422					
UTM Zone: 18					
Easting: 463321					
Northing: 5037792					
Location Accuracy:					
Accuracy: Not Applicable					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Borehole Geology Stratum

Geology Stratum ID: 218403827
Top Depth: 0
Bottom Depth: 18.3
Material Color: Blue
Material 1: Clay
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY. BLUE.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218403828
Top Depth: 18.3
Bottom Depth: 20.7
Material Color: Grey
Material 1: Limestone
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: LIMESTONE. GREY. 00068Y. 0007000075VELOCITY = 5100. BEDROCK. SEISMIC VELOCITY = 13500.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence:
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA2.txt RecordID: 08903 NTS_Sheet:
Confiden 1:

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

30 1 of 1 **S/240.8** **69.3 / 0.96** **lot 28 con 1** **WWIS**
ON

Well ID: 1513138
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status:
Data Src: 1
Date Received: 7/30/1970
Selected Flag: True
Abandonment Rec:
Contractor: 1504
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession: 01
Concession Name: OF

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513138.pdf

Additional Detail(s) (Map)

Well Completed Date: 1969/08/14
Year Completed: 1969
Depth (m): 20.7264
Latitude: 45.4926941143151
Longitude: -75.4694223161253
Path: 151\1513138.pdf

Bore Hole Information

Bore Hole ID:	10035126	Elevation:	66.970069
DP2BR:	60.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463320.80
Code OB Desc:	Bedrock	North83:	5037792.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	14-Aug-1969 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931022509
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 60.0
Formation End Depth: 68.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931022508
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		60.0			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		961513138			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10583696			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930062237			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		68			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Casing</u>					
Casing ID:		930062236			
Layer:		1			
Material:		2			
Open Hole or Material:		GALVANIZED			
Depth From:					
Depth To:		62			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		991513138			
Pump Set At:					
Static Level:		32.0			
Final Level After Pumping:		50.0			
Recommended Pump Depth:		60.0			
Pumping Rate:		8.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		1			
Pumping Duration HR:		2			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934639035			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934098924			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934378037			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934896517			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		50.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933468639			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		68.0			
Water Found Depth UOM:		ft			

31	1 of 1	SSW/242.3	64.6 / -3.74	lot 28 con 1 ON	WWIS
Well ID:		1513133		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	2/21/1964
Sec. Water Use:		0		Selected Flag:	True
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513133.pdf

Additional Detail(s) (Map)

Well Completed Date: 1963/11/28
Year Completed: 1963
Depth (m): 11.5824
Latitude: 45.492961508219
Longitude: -75.4700644434497
Path: 151\1513133.pdf

Bore Hole Information

Bore Hole ID:	10035121	Elevation:	62.380790
DP2BR:	28.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	463270.80
Code OB Desc:	Bedrock	North83:	5037822.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	28-Nov-1963 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931022497
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931022498
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		28.0			
Formation End Depth:		38.0			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		961513133			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10583691			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930062228			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		38			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Casing</u>					
Casing ID:		930062227			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		991513133			
Pump Set At:					
Static Level:		15.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		8.0			
Flowing Rate:					
Recommended Pump Rate:		5.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration HR:	2				
Pumping Duration MIN:	0				
Flowing:	No				
<u>Water Details</u>					
Water ID:	933468634				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	38.0				
Water Found Depth UOM:	ft				

32	1 of 1	SSW/248.7	63.1 / -5.29	lot 28 con 1 ON	WWIS
Well ID:	1513137			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	5/17/1965
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	028
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513137.pdf

Additional Detail(s) (Map)

Well Completed Date: 1965/03/12
Year Completed: 1965
Depth (m): 11.5824
Latitude: 45.4931394173469
Longitude: -75.4705778498225
Path: 151\1513137.pdf

Bore Hole Information

Bore Hole ID:	10035125	Elevation:	60.396556
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	0	East83:	463230.80
Code OB Desc:	Overburden	North83:	5037842.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	12-Mar-1965 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Improvement Location Method:</i>					
<i>Source Revision Comment:</i>					
<i>Supplier Comment:</i>					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
<i>Formation ID:</i>		931022506			
<i>Layer:</i>		1			
<i>Color:</i>		3			
<i>General Color:</i>		BLUE			
<i>Mat1:</i>		05			
<i>Most Common Material:</i>		CLAY			
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>		0.0			
<i>Formation End Depth:</i>		30.0			
<i>Formation End Depth UOM:</i>		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
<i>Formation ID:</i>		931022507			
<i>Layer:</i>		2			
<i>Color:</i>					
<i>General Color:</i>					
<i>Mat1:</i>		11			
<i>Most Common Material:</i>		GRAVEL			
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>		30.0			
<i>Formation End Depth:</i>		38.0			
<i>Formation End Depth UOM:</i>		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
<i>Method Construction ID:</i>		961513137			
<i>Method Construction Code:</i>		7			
<i>Method Construction:</i>		Diamond			
<i>Other Method Construction:</i>					
<u>Pipe Information</u>					
<i>Pipe ID:</i>		10583695			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930062235			
<i>Layer:</i>		1			
<i>Material:</i>		1			
<i>Open Hole or Material:</i>		STEEL			
<i>Depth From:</i>					
<i>Depth To:</i>		38			
<i>Casing Diameter:</i>		2			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991513137			
Pump Set At:					
Static Level:		20.0			
Final Level After Pumping:		25.0			
Recommended Pump Depth:		25.0			
Pumping Rate:		7.0			
Flowing Rate:					
Recommended Pump Rate:		6.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		3			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933468638			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		38.0			
Water Found Depth UOM:		ft			

33	1 of 1	NNW/279.2	65.4 / -2.93	J.A. LAPORTE NURSERY 455 FAMILLE-LAPORTE AVE ORLEANS ON K4A0Y7	PES
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Detail Licence No:		Operator Box:	
Licence No:	18534	Operator Class:	
Status:		Operator No:	
Approval Date:		Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)	Oper Area Code:	613
Licence Type:	Limited Vendor	Oper Phone No:	8332316
Licence Type Code:	23	Operator Ext:	
Licence Class:	01	Operator Lot:	
Licence Control:		Oper Concession:	
Latitude:		Operator Region:	
Longitude:		Operator District:	
Lot:		Operator County:	
Concession:		Op Municipality:	
Region:		Post Office Box:	
District:		MOE District:	
County:		SWP Area Name:	
Trade Name:			
PDF Link:			

Unplottable Summary

Total: **24** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	CUMBERLAND TOWNSHIP	RR #34 & #57 STORMWATER POND	CUMBERLAND TWP. ON	
CA	CUMBERLAND TOWNSHIP	OLD MONTREAL RD./BECKETT'S CK.	CUMBERLAND TWP. ON	
PINC	PAUL DAVID GRANT	DE-L'ASTROLABE,,OTTAWA,ON,,CA	ON	
SPL	Enbridge Gas Distribution Inc.	Queen Street	Ottawa ON	
WWIS		lot 27	ON	
WWIS		lot 27	ON	
WWIS		lot 27	ON	
WWIS		lot 28	ON	
WWIS		lot 28	ON	
WWIS		lot 27	ON	
WWIS		lot 28	ON	
WWIS		lot 27	ON	
WWIS		lot 28	ON	
WWIS		lot 28	ON	
WWIS		lot 28	ON	
WWIS		lot 27	ON	
WWIS		lot 27	ON	

WWIS	lot 28	ON
WWIS	lot 28	ON
WWIS	lot 28	ON
WWIS	lot 28	ON
WWIS	lot 28	ON
WWIS	lot 27	ON

Unplottable Report

Site: CUMBERLAND TOWNSHIP
RR #34 & #57 STORMWATER POND CUMBERLAND TWP. ON

Database:
CA

Certificate #: 3-0345-93-
Application Year: 93
Issue Date: 6/2/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: CUMBERLAND TOWNSHIP
OLD MONTREAL RD./BECKETT'S CK. CUMBERLAND TWP. ON

Database:
CA

Certificate #: 3-0306-95-
Application Year: 95
Issue Date: 4/20/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: PAUL DAVID GRANT
DE-L'ASTROLABE,,OTTAWA,ON,,CA ON

Database:
PINC

Incident ID:		Pipe Material:	
Incident No:	1840454	Fuel Category:	Natural Gas
Incident Reported Dt:	4/6/2016	Health Impact:	
Type:	FS-Pipeline Incident	Environment Impact:	
Status Code:		Property Damage:	Yes
Tank Status:	Pipeline Damage Reason Est	Service Interrupt:	
Task No:	6118170	Enforce Policy:	Yes
Spills Action Centre:		Public Relation:	
Fuel Type:		Pipeline System:	
Fuel Occurrence Tp:		PSIG:	
Date of Occurrence:		Attribute Category:	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2016/04/06	Regulator Location:	
Depth:		Method Details:	E-mail
Customer Acct Name:	PAUL DAVID GRANT		
Incident Address:	DE-L'ASTROLABE,,OTTAWA,ON,,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	DE-L'ASTROLABE, OTTAWA - PIPELINE HIT - 2"		

Reported By: Rick Gazda - ENBRIDGE
Affiliation:
Occurrence Desc:
Damage Reason: Excavation practices not sufficient
Notes:

Site: Enbridge Gas Distribution Inc.
Queen Street Ottawa ON

Database:
SPL

Ref No: 0238-62NQJF
Site No:
Incident Dt: 7/7/2004
Year:
Incident Cause: Pipe Or Hose Leak
Incident Event:
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Human Health/Safety
Receiving Medium: Air
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 7/7/2004
Dt Document Closed:
Incident Reason: Error- Operator error
Site Name: QUEEN STREET<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Queen St.: 4" Gas main hit, evacuations
Contaminant Qty:

Discharger Report:
Material Group: Gases/Particulate
Health/Env Conseq:
Client Type:
Sector Type: Pipeline
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office: Ottawa
Site Postal Code:
Site Region: Eastern
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: M.C.B.S. - Fuel Safety
Source Type:

Site: lot 27 ON

Database:
WWIS

Well ID: 1518033
Construction Date:
Primary Water Use: Cooling And A/C
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 12/13/1982
Selected Flag: True
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10039904
DP2BR: 15.00
Spatial Status:
Code OB: r

Elevation:
Elevrc:
Zone: 18
East83:

Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 29-Jan-1982 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931037131
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 27.0
Formation End Depth: 100.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931037128
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931037130
Layer: 3
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 27.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931037129
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961518033
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10588474
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930069712
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 23
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930069713
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 100
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991518033
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 50.0
Recommended Pump Depth: 60.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft

Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934103360
Test Type: Draw Down
Test Duration: 15
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934377689
Test Type: Draw Down
Test Duration: 30
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934647523
Test Type: Draw Down
Test Duration: 45
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934896797
Test Type: Draw Down
Test Duration: 60
Test Level: 50.0
Test Level UOM: ft

Water Details

Water ID: 933474659
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 97.0
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
WWIS

Well ID: 1520769
Construction Date:
Primary Water Use: Commerical
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:

Data Entry Status:
Data Src: 1
Date Received: 9/25/1986
Selected Flag: True
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042610
DP2BR: 21.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 22-Aug-1986 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931045762
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931045764
Layer: 3
Color: 3
General Color: BLUE
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 21.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931045763

Layer: 2
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 19.0
Formation End Depth: 21.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961520769
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10591180
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074370
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520769
Pump Set At:
Static Level: 8.0
Final Level After Pumping: 12.0
Recommended Pump Depth: 20.0
Pumping Rate: 40.0
Flowing Rate:
Recommended Pump Rate: 10.0
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: 25
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934104812
Test Type: Draw Down
Test Duration: 15
Test Level: 12.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649508
Test Type: Draw Down
Test Duration: 45
Test Level: 12.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387932
Test Type: Draw Down
Test Duration: 30
Test Level: 12.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906588
Test Type: Draw Down
Test Duration: 60
Test Level: 12.0
Test Level UOM: ft

Water Details

Water ID: 933478114
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 38.0
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
WWIS

Well ID: 1520967
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 02061
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 11/24/1986
Selected Flag: True
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042808
DP2BR: 5.00
Spatial Status:
Elevation:
Elevrc:
Zone: 18

Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 05-Sep-1986 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931046426
Layer: 1
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931046427
Layer: 2
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 15
Mat2 Desc: LIMESTONE
Mat3:
Mat3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 290.0
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933109294
Layer: 1
Plug From: 0
Plug To: 40
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961520967
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591378
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074715
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 40
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930074716
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 290
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520967
Pump Set At:
Static Level: 100.0
Final Level After Pumping: 280.0
Recommended Pump Depth: 280.0
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934907753
Test Type:
Test Duration: 60
Test Level: 280.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934104296
Test Type:
Test Duration: 15
Test Level: 280.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389513
Test Type:
Test Duration: 30
Test Level: 280.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650108
Test Type:
Test Duration: 45
Test Level: 280.0
Test Level UOM: ft

Water Details

Water ID: 933478389
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 280.0
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1521841
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 12546
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/22/1987
Selected Flag: True
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043654
DP2BR:
Spatial Status:
Code OB: 0
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 24-Sep-1987 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Supplier Comment:

**Overburden and Bedrock
Materials Interval**

Formation ID: 931049337
Layer: 1
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 23.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931049339
Layer: 3
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2: 31
Mat2 Desc: COARSE GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 36.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931049338
Layer: 2
Color: 6
General Color: BROWN
Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 23.0
Formation End Depth: 36.0
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961521841
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10592224
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930076274
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 37
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521841
Pump Set At:
Static Level: 8.0
Final Level After Pumping: 17.0
Recommended Pump Depth: 32.0
Pumping Rate: 45.0
Flowing Rate:
Recommended Pump Rate: 10.0
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: 10
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934391259
Test Type: Draw Down
Test Duration: 30
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934653378
Test Type: Draw Down
Test Duration: 45
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934108135
Test Type: Draw Down
Test Duration: 15
Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910609
Test Type: Draw Down
Test Duration: 60
Test Level: 17.0

Test Level UOM: ft

Water Details

Water ID: 933479548
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 37.0
Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
[WWIS](#)

Well ID:	1522253	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	4/8/1988
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	2351
Casing Material:		Form Version:	1
Audit No:	12607	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10044066	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	
Code OB Desc:	Overburden	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	01-Feb-1988 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 931050713
Layer: 3
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2: 31
Mat2 Desc: COARSE GRAVEL
Mat3:
Mat3 Desc:

Formation Top Depth: 23.0
Formation End Depth: 32.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931050711
Layer: 1
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 17.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931050712
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 17.0
Formation End Depth: 23.0
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961522253
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10592636
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930077071
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 32
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991522253
Pump Set At:
Static Level: 9.0
Final Level After Pumping: 24.0
Recommended Pump Depth: 25.0
Pumping Rate: 23.0
Flowing Rate:
Recommended Pump Rate: 10.0
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: No

Draw Down & Recovery

Pump Test Detail ID: 934109361
Test Type: Draw Down
Test Duration: 15
Test Level: 18.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934654595
Test Type: Draw Down
Test Duration: 45
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934385764
Test Type: Draw Down
Test Duration: 30
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934903428
Test Type: Draw Down
Test Duration: 60
Test Level: 24.0
Test Level UOM: ft

Water Details

Water ID: 933480070
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 32.0
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
WWIS

Well ID: 1532811
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 235694
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 5/6/2002
Selected Flag: True
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10523939
DP2BR: 11.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 05-Apr-2002 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 932857800
Layer: 4
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 200.0
Formation End Depth: 260.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932857799
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26

Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 14.0
Formation End Depth: 200.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932857797
Layer: 1
Color: 6
General Color: BROWN
Mat1: 14
Most Common Material: HARDPAN
Mat2: 05
Mat2 Desc: CLAY
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932857798
Layer: 2
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 14.0
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933225449
Layer: 1
Plug From: 3
Plug To: 42
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961532811
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11072509
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930095644
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991532811
Pump Set At:
Static Level: 120.0
Final Level After Pumping: 230.0
Recommended Pump Depth: 250.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 8.0
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: No

Draw Down & Recovery

Pump Test Detail ID: 934401586
Test Type: Draw Down
Test Duration: 30
Test Level: 210.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934662109
Test Type: Draw Down
Test Duration: 45
Test Level: 220.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934117974
Test Type: Draw Down
Test Duration: 15
Test Level: 190.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934919410
Test Type: Draw Down
Test Duration: 60
Test Level: 230.0
Test Level UOM: ft

Water Details

Water ID: 934016522
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 255.0
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
[WWIS](#)

Well ID: 1531002
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 191606
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/21/2000
Selected Flag: True
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052536
DP2BR: 106.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 27-Oct-1999 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931077216
Layer: 2
Color: 4
General Color: GREEN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 18.0

Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077220
Layer: 6
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 106.0
Formation End Depth: 108.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077219
Layer: 5
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 08
Mat2 Desc: FINE SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 100.0
Formation End Depth: 106.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077215
Layer: 1
Color: 6
General Color: BROWN
Mat1: 00
Most Common Material: UNKNOWN TYPE
Mat2: 81
Mat2 Desc: SANDY
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931077217
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3:

Mat3 Desc:
Formation Top Depth: 18.0
Formation End Depth: 38.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931077218
Layer: 4
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 38.0
Formation End Depth: 100.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933116179
Layer: 1
Plug From: 3
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961531002
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10601106
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930091783
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 110
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991531002
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 30.0

Recommended Pump Depth: 60.0
Pumping Rate: 30.0
Flowing Rate:
Recommended Pump Rate: 12.0
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:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934395435
Test Type: Draw Down
Test Duration: 30
Test Level: 26.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934903896
Test Type: Draw Down
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934120579
Test Type: Draw Down
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934664717
Test Type: Draw Down
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Water Details

Water ID: 933491324
Layer: 1
Kind Code: 2
Kind: SALTY
Water Found Depth: 106.0
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
WWIS

Well ID: 1529773
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:

Data Entry Status:
Data Src: 1
Date Received: 12/11/1997
Selected Flag: True
Abandonment Rec:
Contractor: 6006
Form Version: 1

Audit No: 184958
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10051308
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 19-Nov-1997 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931073780
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 17.0
Formation End Depth: 27.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931073779
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 17.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933114842
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961529773
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10599878
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930089576
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 27
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991529773
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 10.0
Recommended Pump Depth: 25.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934391686
Test Type: Recovery
Test Duration: 30
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934660848
Test Type: Recovery
Test Duration: 45
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934116712
Test Type: Recovery
Test Duration: 15
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909804
Test Type: Recovery
Test Duration: 60
Test Level: 10.0
Test Level UOM: ft

Water Details

Water ID: 933489829
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 27.0
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1528721
Construction Date:
Primary Water Use: Commerical
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 139536
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/19/1995
Selected Flag: True
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050257
DP2BR: 17.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:

Cluster Kind:
Date Completed: 30-Jan-1995 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931070582
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Mat2 Desc: SANDY
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931070585
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 20.0
Formation End Depth: 61.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931070584
Layer: 3
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 17.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931070583

Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 14
Mat2 Desc: HARDPAN
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 4.0
Formation End Depth: 17.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933113662
Layer: 1
Plug From: 0
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528721
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10598827
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087834
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991528721
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 15.0
Recommended Pump Depth: 40.0
Pumping Rate: 30.0
Flowing Rate:
Recommended Pump Rate: 20.0
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: No

Draw Down & Recovery

Pump Test Detail ID: 934649359
Test Type: Draw Down
Test Duration: 45
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934388842
Test Type: Draw Down
Test Duration: 30
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906541
Test Type: Draw Down
Test Duration: 60
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105216
Test Type: Draw Down
Test Duration: 15
Test Level: 15.0
Test Level UOM: ft

Water Details

Water ID: 933488537
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1526147
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 095195
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:

Data Entry Status:
Data Src: 1
Date Received: 5/28/1992
Selected Flag: True
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:

Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047880
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 31-Mar-1992 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931063365
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931063366
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 61.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931063367
Layer: 3
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 61.0
Formation End Depth: 68.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111547
Layer: 1
Plug From: 4
Plug To: 25
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961526147
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10596450
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083817
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 68
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526147
Pump Set At:
Static Level: 24.0
Final Level After Pumping: 56.0
Recommended Pump Depth: 63.0
Pumping Rate: 11.0
Flowing Rate:
Recommended Pump Rate: 6.0
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: 20
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934908093
Test Type:
Test Duration: 60
Test Level: 56.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106739
Test Type:
Test Duration: 15
Test Level: 43.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390373
Test Type:
Test Duration: 30
Test Level: 52.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650895
Test Type:
Test Duration: 45
Test Level: 56.0
Test Level UOM: ft

Water Details

Water ID: 933485366
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 68.0
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
[WWIS](#)

Well ID: 1525587
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 69591
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/12/1991
Selected Flag: True
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047322
DP2BR: 17.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 22-Aug-1991 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931061702
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3:
Mat3 Desc:
Formation Top Depth: 21.0
Formation End Depth: 230.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061701
Layer: 2
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 17.0
Formation End Depth: 21.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061700
Layer: 1
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 05
Mat2 Desc: CLAY
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0.0

Formation End Depth: 17.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111310
Layer: 1
Plug From: 3
Plug To: 44
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961525587
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10595892
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082844
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 44
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525587
Pump Set At:
Static Level: 25.0
Final Level After Pumping: 125.0
Recommended Pump Depth: 150.0
Pumping Rate: 15.0
Flowing Rate:
Recommended Pump Rate: 10.0
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: 30
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934649161
Test Type:
Test Duration: 45
Test Level: 100.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934104546
Test Type:
Test Duration: 15
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934388204
Test Type:
Test Duration: 30
Test Level: 75.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906341
Test Type:
Test Duration: 60
Test Level: 125.0
Test Level UOM: ft

Water Details

Water ID: 933484624
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 225.0
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1525461
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 89569
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/12/1991
Selected Flag: True
Abandonment Rec:
Contractor: 6006
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047199
DP2BR: 42.00
Spatial Status:

Elevation:
Elevrc:
Zone: 18

Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 30-Apr-1991 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931061221
Layer: 3
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 80
Mat2 Desc: POROUS
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 42.0
Formation End Depth: 46.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931061222
Layer: 4
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 46.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931061219
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061220
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 40.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111216
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961525461
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10595769
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082638
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 46
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930082639
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 48
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525461
Pump Set At:
Static Level: 7.0
Final Level After Pumping: 40.0
Recommended Pump Depth: 42.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 7.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934387688
Test Type:
Test Duration: 30
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112284
Test Type:
Test Duration: 15
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934905825
Test Type:
Test Duration: 60
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934648645
Test Type:
Test Duration: 45
Test Level: 40.0
Test Level UOM: ft

Water Details

Water ID: 933484460
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 48.0
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
WWIS

Well ID: 1524477

Data Entry Status:

Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 66786
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Src: 1
Date Received: 5/22/1990
Selected Flag: True
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046227
DP2BR: 6.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 13-Mar-1990 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931058055
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931058056
Layer: 3
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:

Mat3:
Mat3 Desc:
Formation Top Depth: 80.0
Formation End Depth: 210.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931058054
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931058057
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 210.0
Formation End Depth: 290.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110768
Layer: 1
Plug From: 2
Plug To: 40
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961524477
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10594797
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930080933
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 40
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524477
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 200.0
Recommended Pump Depth: 200.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 10.0
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: No

Draw Down & Recovery

Pump Test Detail ID: 934108856
Test Type:
Test Duration: 15
Test Level: 160.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934654049
Test Type:
Test Duration: 45
Test Level: 200.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934393083
Test Type:
Test Duration: 30
Test Level: 180.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902431
Test Type:
Test Duration: 60
Test Level: 200.0
Test Level UOM: ft

Water Details

Water ID: 933483119
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 288.0
Water Found Depth UOM: ft

Site:
lot 27 ON

Database:
WWIS

Well ID:	1524452	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	5/3/1990
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	6006
Casing Material:		Form Version:	1
Audit No:	53612	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	027
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10046202	Elevation:	
DP2BR:	43.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	06-Apr-1990 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID:	931057971
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	85
Mat2 Desc:	SOFT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	28.0
Formation End Depth UOM:	ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931057972
Layer: 3
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 43.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931057973
Layer: 4
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 43.0
Formation End Depth: 44.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931057970
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 0.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110747
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961524452

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

Pipe Information

Pipe ID: 10594772
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930080907
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 44
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930080906
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 43
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524452
Pump Set At:
Static Level: 5.0
Final Level After Pumping: 15.0
Recommended Pump Depth: 40.0
Pumping Rate: 15.0
Flowing Rate:
Recommended Pump Rate: 10.0
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: No

Draw Down & Recovery

Pump Test Detail ID: 934393058
Test Type:
Test Duration: 30
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902406
Test Type:
Test Duration: 60
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934108831
Test Type:
Test Duration: 15
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934653605
Test Type:
Test Duration: 45
Test Level: 15.0
Test Level UOM: ft

Water Details

Water ID: 933483094
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 43.0
Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
WWIS

Well ID: 1523902
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 44243
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/12/1989
Selected Flag: True
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045674
DP2BR: 31.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 06-Sep-1989 00:00:00

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM

Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931056143
Layer: 1
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056145
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 26.0
Formation End Depth: 31.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056144
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 26.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056146
Layer: 4
Color: 8

General Color: BLACK
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 31.0
Formation End Depth: 45.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110472
Layer: 1
Plug From: 2
Plug To: 31
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961523902
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10594244
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079943
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 31
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523902
Pump Set At:
Static Level:
Final Level After Pumping: 35.0
Recommended Pump Depth: 35.0
Pumping Rate: 50.0
Flowing Rate:
Recommended Pump Rate: 30.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934390892
Test Type:
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106663
Test Type:
Test Duration: 15
Test Level: 28.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909070
Test Type:
Test Duration: 60
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651866
Test Type:
Test Duration: 45
Test Level: 35.0
Test Level UOM: ft

Water Details

Water ID: 933482339
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 42.0
Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
WWIS

Well ID: 1523901
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 44263
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:

Data Entry Status:
Data Src: 1
Date Received: 10/12/1989
Selected Flag: True
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10045673
DP2BR: 35.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 06-Sep-1989 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931056140
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 27.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931056139
Layer: 1
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931056141
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Mat2 Desc: SAND

Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 27.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931056142
Layer: 4
Color: 8
General Color: BLACK
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 35.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110471
Layer: 1
Plug From: 2
Plug To: 35
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961523901
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10594243
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079942
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 35
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523901
Pump Set At:
Static Level:

Final Level After Pumping: 30.0
Recommended Pump Depth: 35.0
Pumping Rate: 45.0
Flowing Rate:
Recommended Pump Rate: 25.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934106662
Test Type:
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909069
Test Type:
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390891
Test Type:
Test Duration: 30
Test Level: 28.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651865
Test Type:
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Water Details

Water ID: 933482338
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 48.0
Water Found Depth UOM: ft

Site: lot 28 ON

Database:
WWIS

Well ID: 1523827
Construction Date:
Primary Water Use: Public
Sec. Water Use:
Final Well Status: Water Supply
Water Type:

Data Entry Status:
Data Src: 1
Date Received: 9/11/1989
Selected Flag: True
Abandonment Rec:
Contractor: 2351

Casing Material:
Audit No: 37633
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045600
DP2BR: 69.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 28-Aug-1989 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931055874
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 69.0
Formation End Depth: 93.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931055872
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 57.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931055873
Layer: 3
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 57.0
Formation End Depth: 69.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931055871
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110430
Layer: 1
Plug From: 6
Plug To: 25
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961523827
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10594170
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079817
Layer: 1
Material: 1

Open Hole or Material: STEEL
Depth From:
Depth To: 69
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523827
Pump Set At:
Static Level: 54.0
Final Level After Pumping: 71.0
Recommended Pump Depth: 88.0
Pumping Rate: 29.0
Flowing Rate:
Recommended Pump Rate: 10.0
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: 35
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934909009
Test Type: Draw Down
Test Duration: 60
Test Level: 71.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390829
Test Type: Draw Down
Test Duration: 30
Test Level: 70.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106599
Test Type: Draw Down
Test Duration: 15
Test Level: 64.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651803
Test Type: Draw Down
Test Duration: 45
Test Level: 71.0
Test Level UOM: ft

Water Details

Water ID: 933482239
Layer: 1
Kind Code: 1
Kind: FRESH

Water Found Depth: 90.0
Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
WWIS

Well ID: 1523637
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 37628
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/28/1989
Selected Flag: True
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 028
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045411
DP2BR: 89.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 16-Aug-1989 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931055309
Layer: 5
Color: 3
General Color: BLUE
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 89.0
Formation End Depth: 104.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931055306

Layer: 2
Color: 7
General Color: RED
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 9.0
Formation End Depth: 24.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931055308
Layer: 4
Color: 8
General Color: BLACK
Mat1: 14
Most Common Material: HARDPAN
Mat2: 28
Mat2 Desc: SAND
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 73.0
Formation End Depth: 89.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931055307
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 24.0
Formation End Depth: 73.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931055305
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 9.0
Formation End Depth UOM: ft

Method of Construction & Well

Use

Method Construction ID: 961523637
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10593981
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079453
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 89
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523637
Pump Set At:
Static Level: 14.0
Final Level After Pumping: 92.0
Recommended Pump Depth: 100.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 5.0
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: 40
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934650781
Test Type: Draw Down
Test Duration: 45
Test Level: 91.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908406
Test Type: Draw Down
Test Duration: 60
Test Level: 92.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390222

Test Type: Draw Down
Test Duration: 30
Test Level: 82.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105576
Test Type: Draw Down
Test Duration: 15
Test Level: 37.0
Test Level UOM: ft

Water Details

Water ID: 933481979
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 102.0
Water Found Depth UOM: ft

Site:
lot 28 ON

Database:
WWIS

Well ID:	1523456	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	6/20/1989
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	2351
Casing Material:		Form Version:	1
Audit No:	37602	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	CUMBERLAND TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	028
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10045231	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	
Code OB Desc:	Overburden	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	31-May-1989 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 931054677
Layer: 3
Color: 8
General Color: BLACK
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 37.0
Formation End Depth: 52.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931054678
Layer: 4
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 52.0
Formation End Depth: 54.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931054676
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931054675
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933110312
Layer: 1
Plug From: 6
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961523456
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10593801
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079150
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 54
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523456
Pump Set At:
Static Level: 18.0
Final Level After Pumping: 43.0
Recommended Pump Depth: 48.0
Pumping Rate: 12.0
Flowing Rate:
Recommended Pump Rate: 6.0
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: 50
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934907396
Test Type: Draw Down
Test Duration: 60
Test Level: 43.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389211
Test Type: Draw Down
Test Duration: 30
Test Level: 38.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650192
Test Type: Draw Down
Test Duration: 45
Test Level: 43.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934104982
Test Type: Draw Down
Test Duration: 15
Test Level: 29.0
Test Level UOM: ft

Water Details

Water ID: 933481722
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 54.0
Water Found Depth UOM: ft

Site: lot 27 ON

Database:
WWIS

Well ID: 1523046
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 37566
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 12/13/1988
Selected Flag: True
Abandonment Rec:
Contractor: 2351
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: CUMBERLAND TOWNSHIP
Site Info:
Lot: 027
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10044852
DP2BR: 11.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock

Elevation:
Elevrc:
Zone: 18
East83:
North83:

Open Hole:
Cluster Kind:
Date Completed: 01-Nov-1988 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931053344
Layer: 2
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 190.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931053343
Layer: 1
Color: 6
General Color: BROWN
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933110081
Layer: 1
Plug From: 3
Plug To: 22
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961523046
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10593422

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930078465
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523046
Pump Set At:
Static Level: 8.0
Final Level After Pumping: 180.0
Recommended Pump Depth: 185.0
Pumping Rate: 1.0
Flowing Rate:
Recommended Pump Rate: 1.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 55
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934112621
Test Type: Draw Down
Test Duration: 15
Test Level: 110.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649024
Test Type: Draw Down
Test Duration: 45
Test Level: 180.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934388042
Test Type: Draw Down
Test Duration: 30
Test Level: 180.0
Test Level UOM: ft

Water Details

Water ID: 933481150
Layer: 1
Kind Code: 1

Kind: FRESH
Water Found Depth: 29.0
Water Found Depth UOM: ft

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 2020

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Oct 2018

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

Aboveground Storage Tanks:

Provincial [AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

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-Dec 31, 2020

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 2018

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*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors:

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-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Dec 31, 2020

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 2012 -Apr 2021

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-Nov 2020

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- Jun 30, 2021

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 - Sep 2020

Delisted Fuel Tanks:

Provincial [DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

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- Jun 30, 2021

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- Jun 30, 2021

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- Jun 30, 2021

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-Jun 30, 2021

Environmental Issues Inventory System:

Federal [EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

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. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Apr 2021

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-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

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-Apr 30, 2021

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial

[HINC](#)

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The 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, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

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*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: 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 include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

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-Dec 2020

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, 2019

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-Apr 2018

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 Canada Energy Regulator (CER) - previously 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-Mar 31, 2021

National Energy Board Wells:

Federal

[NEBP](#)

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-May 2017

Oil and Gas Wells:

Private

OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2021

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-Jun 2020

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 30, 2021

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, 2009-2014

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: Oct 2011- Jun 30, 2021

Pipeline Incidents:

Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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- Jun 30, 2021

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: 1986-1990, 1992-2018

Record of Site Condition:

Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Jun 2021

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-Dec 31, 2020

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

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. 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-Aug 2020

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-Dec 31, 2018

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 - Dec 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered 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.

Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

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

Government Publication Date: Oct 2011- Jun 30, 2021

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 30th, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: Apr 30, 2021

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.

APPENDIX E

REGULATORY RESPONSES

Office Use Only

D06-03-21-0159

Application Number: _____ Ward Number: 19 Application Received: (dd/mm/yyyy): 01-09-2021
Client Service Centre Staff: M. DURNON Fee Received: \$ 128.00



Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning Infrastructure and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

Background Information

*Site Address or Location: PART LOT 28 CONCESSION 1 OS CUMBERLAND PART 1 PLAN 4R24727 EXCEPT PLAN 4M1539; CITY OF OTTAWA.

*Mandatory Field

Applicant/Agent Information:

Name: Pierre D'Angelo on behalf of RiskCheck Environmental Ltd.

Mailing Address: Atria II, Suite 1501 2235 Sheppard Avenue East, Toronto, Ontario, M2J 5B5

Telephone: 6474010515 Email Address: pdangelo@riskcheckinc.com

Registered Property Owner Information: Same as above

Name: DTOC II OTTAWA FACILITY INC.

Mailing Address: 161 Bay Street - Suite 2100, Toronto, ON M5J 2S1

Telephone: _____ Email Address: _____

Site Details

Legal Description and PIN:

PART LOT 28 CONCESSION 1 OS CUMBERLAND PART 1 PLAN 4R24727 EXCEPT PLAN 4M1539; CITY OF OTTAWA PIN 14530-0473 (LT). Note: 1161 Old Montreal Road, Ottawa, Ontario (as per GeoOttawa website).

What is the land currently used for?

Undeveloped Land

Lot frontage: m Lot depth: m Lot area: _____ m²

OR Lot area: (irregular lot) m²

Does the site have Full Municipal Services: Yes No

Required Fees

Please don't hesitate to visit the [Historic Land Use Inventory website](#) more information. Fees must be paid in full at the time of application submission.

Planning Fee

\$128.00

Submittal Requirements

The following are required to be submitted with this application:

- 1. Consent to Disclose Information:** Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, **the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner.** This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.
- 2. Disclaimer:** Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Infrastructure and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.
- 3. A site plan or key plan of the property, its location and particular features.**
- 4. Any significant dates or time frames that you would like researched.**

Please research circa 1830 (crown patent) to present

Disclaimer For use with HLUI Database

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

The City, in providing information from the HLUI, to Pierre D'Angelo ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.
2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.
3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
4. Copyright is reserved to the City.
5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed: _____



Digitally signed by Pierre D'Angelo
DN: cn=Pierre D'Angelo, o=RiskCheck,
ou, email=pdangelo@riskcheckinc.com,
c=CA
Date: 2021.08.25 11:58:37 -0400

Dated (dd/mm/yyyy): 25/08/2021

Per: Pierre D'Angelo

(Please print name)

Title: Project Manager

Company: RiskCheck Environmental Ltd.



AUTHORIZATION FORM

RiskCheck Project No. 29870

August 23, 2021

Attention: Subject Property Owner or Legal Subject Property Owner Representative

Re: Consent to Disclose Information
Vacant Land, North of Old Montreal Road, Ottawa, Ontario (the "Subject Property")
PART LOT 28 CONCESSION 1 OS CUMBERLAND PART 1 PLAN 4R24727 EXCEPT PLAN 4M1539;
CITY OF OTTAWA.

Hello,

RiskCheck Environmental Ltd. (RiskCheck) has been retained to obtain records (if any) for the Subject Property regarding spills, incidents, complaints, and any environmental regulatory non-compliance or violation of municipal by-laws or environmental impacts available through municipal agencies (i.e., City of Ottawa Historic Land Use Inventory).

Submitting this request is a requirement of the work plan RiskCheck has been retained to complete for the Subject Property on your behalf. Submission is a requirement of the City of Ottawa Site Plan Control Application. Completion of this Consent to Disclose Information Authorization Form, signed by an authorized Property Owner or legal property owner's representative (Agent), is required.

In signing this document, the Property Owner/Agent (undersigned) acknowledges and agrees that the City of Ottawa is authorized to release any relevant information about the Subject Property or its owner(s) (if any) to the requester (RiskCheck). Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the Subject Property and its owner. Personal information on this form as well as the submission form is collected under the authority of the *Planning Act*, RSO 1990, c. P. 13 and will be used to process the application.

BEN VILLANI

I, _____ (Property Owner/Agent),
acknowledge the above and hereby approve RiskCheck (the "requester") to request information on behalf of myself and/or the corporation.

BEN VILLANI

Subject Property Owner (First & Last Name): _____

DTOC II OTTAWA FACILITY INC.

Subject Property Owner (Company Name): _____

2100-161 BAY ST., TORONTO ON M5J 2S1

Owner Mailing Address: _____

Signed: Ben Villani

Date: AUG 25 2021

Requester Representative:

Pierre D'Angelo
Project Manager
pdangelo@riskcheckinc.com
RiskCheck Environmental Ltd.



File Number: D06-03-21-0159

November 8, 2021

Pierre D'Angelo
Risk Check Environmental Ltd.
Suite 1501, 2235 Sheppard Avenue East, Toronto, Ontario

Sent via email [pdangelo@riskcheckinc.com]

Dear Mr. D'Angelo,

Re: Information Request
1161 Old Montreal Road, **Ottawa, Ontario** ("Subject Property")

Internal Department Circulation

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

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

Documents Provided:

Excel

The Excel Spread Sheet identifies HLUI area, point and line features within 250 metres of the Subject Property, as shown on the provided Map. Within 500 metres of the Subject Property, landfills and Environmental Risk Management Area (ERMA) are also identified if applicable.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

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

The Ontario Land Registry Office

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

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

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

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

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

If you have any further questions or comments, please contact Jonathan Katsouleas at 613-580-2424 ext. 23601 or HLUI@ottawa.ca

Sincerely,



Jonathan Katsouleas

Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB / JK

Enclosures.

1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-21-0159

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	SOURCE_UPDATE_SORTED	QAQC	YEAR	YEAR_1	ST_NUM	ST_NAME	ST_SUFFIX	ST_DIR	MUNICIPALITY	ST_NUM2017	ST_NAME2017	ST_SUFFIX2017	ST_DIR2017	POSTAL_CODE2017	PIN2017	MUNICIPALITY2017	NAICS	SIC	COMMENTS	STORAGE_TANK	Shape_Length	Shape_Area
12323	J A LAPORTE FLOWERS & NURSERY	Agricultural Supplies, Wholesale	2005-SelectPhone	1	2005	c. 2005	1211	OLD MONTREAL	RD			1213	OLD MONTREAL	RD		K4A3N6	1.45E+08	CUMBERLAND	444210; 444220				1158.250977	65709.73021
16307	DYNAMIC AIR CLEANER	Plumbing, Heating and Air Conditioning	2012-ES	1	2012	ES 2012	1313	GRAND-CHÂSNE, COUR DU	CRT			1313	GRAND-CHÂSNE, CRT			K4A3N9	1.45E+08	CUMBERLAND	232520				221.191739	2702.367757

Point Features

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	TANK_LOCATION	TANK_CONTENT	TANK_SIZE	TANK_TYPE	TANK_STATUSES	SOURCE	INSTALLED_ST_NUM	INSTALLED_ST_NAME	INSTALLED_ST_ABR	INSTALLED_ST_DIR	COMMENT	MTM_X	MTM_Y	IMAGE_MAP	IMAGE_CERTAINTY	IMAGE_MAP_2	TANK_MATERIAL	TANK_ID	TANK_LEAKING	TANK_REMOVED	REMOVED_DATE	DATE_INSTALLED	NATURE_OF_BUSINESS	SCANNED_DRAWING	TEMPRECordID	CAPACITY_UOM	MUNICIPALITY	POSTCODE
----------	---------------	---------------	---------------	--------------	-----------	-----------	---------------	--------	------------------	-------------------	------------------	------------------	---------	-------	-------	-----------	-----------------	-------------	---------------	---------	--------------	--------------	--------------	----------------	--------------------	-----------------	--------------	--------------	--------------	----------

No data within 250m of subject site

OBJECTID	SOURCE	FEATURE	YEAR	COMMENT	NAME	Shape_Length
----------	--------	---------	------	---------	------	--------------

No data within 250m of subject site

Ministry of the Environment,
Conservation and Parks

Access and Privacy Office

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

Ministère de l'Environnement, de
la Protection de la nature et des
Parcs

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

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc.: (416) 314-4285



August 20, 2021

Pierre D'Angelo
RiskCheck Environmental Ltd.
2235 Sheppard Ave E, Atria II, Suite 1501
Toronto, ON M2J 5B5

Dear Pierre D'Angelo:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2021-04804, Your Reference 29870

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee).

The search will be conducted on the following: Lot 28 Concession 1 (historically known as 1123 and 1161 Old Montreal Road), Ottawa. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search and preparation time.

Due to the COVID-19 outbreak, requesters may experience some delays with FOI requests at this time.

This is to advise you, we've gone digital! Requests submitted by fax will no longer be accepted starting August 31, 2021. If you submitted requests by fax before August 31, 2021, we'll process it. Please don't re-submit it using the online form or you might get charged twice. The online form can be found on the central forms repository at the following link

<https://www.sus.gov.on.ca/lc/content/mgcs/profiles/default.html?contentRoot=repository:///Applications/012-2146/1.0/Assets&template=012-2146E.xdp&submitUrl=https://localhost:8443/rest/services/012-2146/Processes/SubmitForm&lang=E&submitServiceProxy=https://www.sus.gov.on.ca/sub-proxy/all>.

If you have any questions regarding this matter, please contact Nasreen Salar at or nasreen.salar@ontario.ca.

Yours truly,
Original signed by

Noel Kent
Manager, Access and Privacy

APPENDIX F

AERIAL PHOTOGRAPHS



LEGEND

--- PHASE ONE PROPERTY BOUNDARY

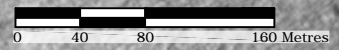
NOTES
 - SOURCE: LGI COPY SERVICE CANADA
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE

INFERRED GROUNDWATER FLOW DIRECTION

FIGURE TITLE:
**AERIAL PHOTOGRAPH
 1965**

PROJECT ADDRESS:
**VACANT LAND NORTH OF
 OLD MONTREAL ROAD,
 OTTAWA, ONTARIO**

DATE: SEPTEMBER 10, 2021		1965
DRAWN BY: J. KELBERT	REVIEWED BY: P. D'ANGELO	
SCALE: AS SHOWN	PROJECT NO: 29870	

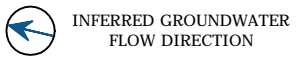




LEGEND

--- PHASE ONE PROPERTY BOUNDARY

NOTES
 - SOURCE: LGI COPY SERVICE CANADA
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE

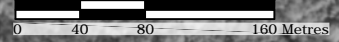


INFERRED GROUNDWATER FLOW DIRECTION

FIGURE TITLE:
**AERIAL PHOTOGRAPH
 1979**

PROJECT ADDRESS:
**VACANT LAND NORTH OF
 OLD MONTREAL ROAD,
 OTTAWA, ONTARIO**

DATE: SEPTEMBER 10, 2021		1979
DRAWN BY: J. KELBERT	REVIEWED BY: P. D'ANGELO	
SCALE: AS SHOWN	PROJECT NO: 29870	



LEGEND

--- PHASE ONE PROPERTY BOUNDARY

NOTES
 - SOURCE: LGI COPY SERVICE CANADA
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE



INFERRED GROUNDWATER
 FLOW DIRECTION

FIGURE TITLE:

AERIAL PHOTOGRAPH
 1985

PROJECT ADDRESS:

VACANT LAND NORTH OF
 OLD MONTREAL ROAD,
 OTTAWA, ONTARIO

DATE: SEPTEMBER 10, 2021

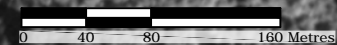
DRAWN BY:
 J. KELBERT

REVIEWED BY:
 P. D'ANGELO

SCALE:
 AS SHOWN

PROJECT NO:
 29870

1985





LEGEND

--- PHASE ONE PROPERTY BOUNDARY

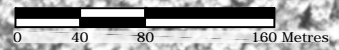
NOTES
 - SOURCE: LGI COPY SERVICE CANADA
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE

INFERRED GROUNDWATER FLOW DIRECTION

FIGURE TITLE:
**AERIAL PHOTOGRAPH
 1994**

PROJECT ADDRESS:
**VACANT LAND NORTH OF
 OLD MONTREAL ROAD,
 OTTAWA, ONTARIO**

DATE: SEPTEMBER 10, 2021		1994
DRAWN BY: J. KELBERT	REVIEWED BY: P. D'ANGELO	
SCALE: AS SHOWN	PROJECT NO: 29870	





LEGEND

--- PHASE ONE PROPERTY BOUNDARY

NOTES
 - SOURCE: GOOGLE EARTH 2008
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE

INFERRED GROUNDWATER FLOW DIRECTION

FIGURE TITLE:
 AERIAL PHOTOGRAPH
 2008

PROJECT ADDRESS:
 VACANT LAND NORTH OF
 OLD MONTREAL ROAD,
 OTTAWA, ONTARIO

DATE: SEPTEMBER 10, 2021
 DRAWN BY: J. KELBERT
 SCALE: AS SHOWN
 REVIEWED BY: P.D'ANGELO
 PROJECT NO: 29870

2008





LEGEND

--- PHASE ONE PROPERTY BOUNDARY

NOTES
 - SOURCE: GOOGLE EARTH 2016
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE

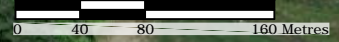
INFERRED GROUNDWATER FLOW DIRECTION

FIGURE TITLE:
**AERIAL PHOTOGRAPH
 2016**

PROJECT ADDRESS:
**VACANT LAND NORTH OF
 OLD MONTREAL ROAD,
 OTTAWA, ONTARIO**

DATE: SEPTEMBER 10, 2021
 DRAWN BY: J. KELBERT
 SCALE: AS SHOWN
 REVIEWED BY: P.D'ANGELO
 PROJECT NO: 29870

2016



LEGEND

--- PHASE ONE PROPERTY BOUNDARY

NOTES
 - SOURCE: GOOGLE EARTH 2021
 - FOR ILLUSTRATIVE PURPOSES ONLY
 - ALL SITE FEATURES/DETAILS ARE CONSIDERED APPROXIMATE



INFERRED GROUNDWATER
 FLOW DIRECTION

FIGURE TITLE:

AERIAL PHOTOGRAPH
 2021

PROJECT ADDRESS:

VACANT LAND NORTH OF
 OLD MONTREAL ROAD,
 OTTAWA, ONTARIO

DATE: SEPTEMBER 10, 2021

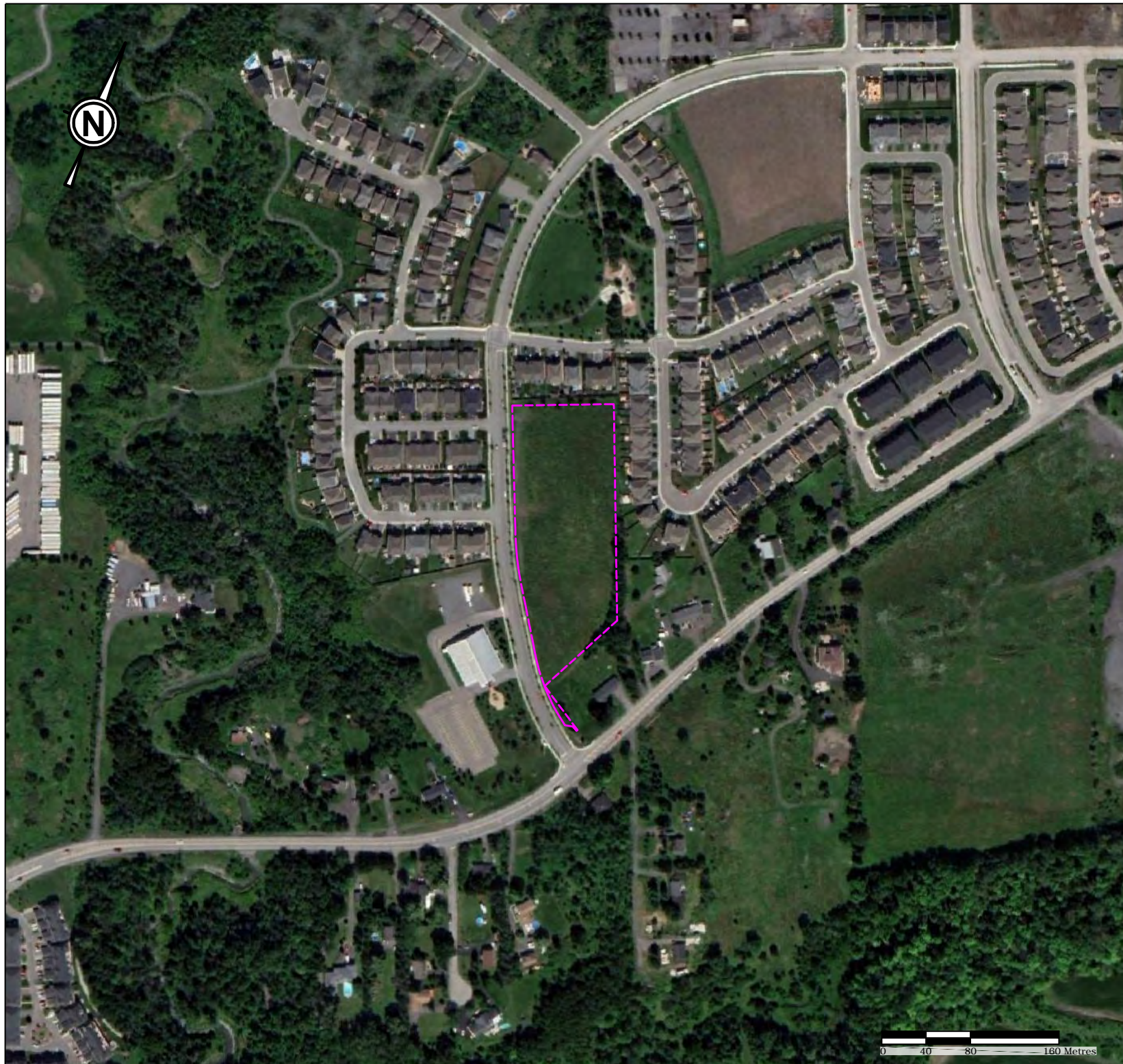
DRAWN BY:
 J. KELBERT

REVIEWED BY:
 P. D'ANGELO

SCALE:
 AS SHOWN

PROJECT NO:
 29870

2021



APPENDIX G

PHOTOGRAPHS



Photo 1.
View of the north portion of the Phase One Property, looking east from the northwest corner of the Phase One Property.



Photo 2.
View of the east portion of the Phase One Property, looking south from the northeast corner of the Phase One Property.



Photo 3.
View of the south portion of the Phase One Property, looking east from the southwest corner of the Phase One Property.



Photo 4.
View of the west portion of the Phase One Property, looking south from the northwest corner of the Phase One Property.



Photo 5.
View of the two catch basins (see arrows) observed on the northwest portion of the Phase One Property.



Photo 6.
View of the catch basin (see arrow) observed on the southwest portion of the Phase One Property.



Photo 7.
View of a monitoring well (piezometer, see arrow) observed on the southeast portion of the Phase One Property.



Photo 8.
View of the marked buried Hydro One electrical utility line (see arrow) observed adjacent to the west portion of the Phase One Property.



Photo 9.
View of the drill rig (see arrow) observed on the southwest portion of the Phase One Property.



Photo 10.
View of the vent pipe (see left arrow) and fill pipe (see right arrow) observed on the neighbouring property to the southeast of the Phase One Property at 1201 Old Montreal Road.



Photo 11.
View of a portion of the overgrown vegetation observed throughout the Phase One Property.



Photo 12.
View of the adjacent properties to the north at 300-322 Mishawashkode Street (see arrows), looking north from the central portion of the Phase One Property.



Photo 13.
View of the adjacent properties to the east at 685-709 Cartographe Street (see arrows), looking east from the west portion of the Phase One Property.



Photo 14.
View of the adjacent property to the south at 1171 Old Montreal Road (see arrow), looking southeast from the southwest corner of the Phase One Property.



Photo 15.
View of the neighbouring property to the west (across Famille-Laporte Avenue) at 1123 Old Montreal Road (see arrow), looking northwest from across Famille-Laporte Avenue.



Photo 16.
View of the neighbouring properties to the west at 100-124 Minoterie Ridge (see arrows), looking northwest from the west Phase One Property boundary.

APPENDIX H

LIMITATIONS, TERMS AND CONDITIONS OF RETAINER

RISKCHECK ENVIRONMENTAL LTD.

LIMITATIONS, TERMS AND CONDITIONS OF RETAINER

1. **Our Standard of Care** - RiskCheck Environmental Ltd. (RiskCheck) will conduct/has conducted the work as specified in the scope of work, contained in the RiskCheck proposal and/or the engagement letter, and perform/performed the environmental investigations requested by the Client according to the standards of a reasonable environmental consultant ("Retainer"). Any work performed by RiskCheck is conducted in accordance with generally accepted engineering or scientific or environmental practices current in the location and at the time the work is performed. No other warranty, expressed or implied is made.
2. **Our Sources of Information** - RiskCheck will/has sought to obtain relevant information, statements, documents and analytical test results concerning the subject property from our Client, third party sources, government or regulatory publications, databases and officials, and other persons to the extent covered by our Retainer. The accuracy of the findings, opinions and conclusions expressed in the RiskCheck report and/or any deliverables ("Deliverables") are subject to any errors or omissions in, or refusals to provide, information. RiskCheck shall not be responsible for any deficiency, misstatement, or inaccuracy contained in the Deliverables as a result of relying on the above information or lack thereof.
3. **Site Inspections** - RiskCheck will complete/has completed the inspection(s) of the subject property in the manner covered by our Retainer. The purpose of our inspection is to identify obvious visible evidence of potential and/or actual sources of environmental contamination and patent irregularities in waste management practices at the subject property. Our findings during the site inspection(s) are subject to any restrictions placed upon our free access to all aspects of the subject property, and neighbouring properties, including but not limited to snow coverage and material storage. A reasonable site inspection may not identify latent or hidden contamination, evidence of potential environmental concerns or irregularities.
4. **Sample and Testing Procedures** - The sample and testing procedures described in the Deliverables, are performed at specific point locations, by experienced personnel using equipment and techniques appropriate for our Retainer. Based upon available data, RiskCheck provides expressed opinion as to the conditions, which may exist between the points investigated, and is based on the location and time of sample collection, and the type of media and parameters analyzed. As actual conditions may vary significantly between sample or test points, and with time, our Client assumes the inherent risk that some conditions may not be detected. RiskCheck shall not be responsible for any cross-contamination resulting from subsurface investigations.
5. **Legal Issues** - The Deliverables are intended to direct our Client's attention to potential and/or actual sources of environmental contamination, including but not limited to, irregular waste management practices at the subject property. Nothing in the Deliverables are intended to express any legal opinion upon environmental liabilities relating to the subject property or whether site operations legally conform with relevant legislative requirements. RiskCheck makes no other representations or warranties whatsoever, including those concerning the legal significance of our findings, or as to other legal matters noted in the Deliverables, including but not limited to, ownership of any property, or the application of any law, to the facts set forth herein.

RISKCHECK ENVIRONMENTAL LTD.

LIMITATIONS, TERMS AND CONDITIONS OF RETAINER

6. **Confidentiality of Client Information** – RiskCheck agrees to hold all information obtained in the course of our Retainer and the contents of the Deliverables in strict confidence, except where disclosure is directed by our Client's expressed written consent with instructions, or by compulsion of law.
7. **Working Information/Documents** – The Deliverables shall be the property of RiskCheck's Client. All other data, sample and test results, working sheets, draft reports or other papers, documents, information or records prepared or collected by us in the course of our Retainer, shall remain the property of RiskCheck Environmental Ltd. and/or successors. Our Client agrees that we shall be entitled to retain a copy of the Deliverables for RiskCheck's own files.
8. **Use of the Deliverables** – The information and opinions expressed in the Deliverables are prepared for the sole benefit of our Client. No other party may use or rely upon the Deliverables, or any portion thereof, without the express written consent of RiskCheck Environmental Ltd. and/or successors. We accept no responsibility for the accuracy of the Deliverables to other parties. We give no warranty, representation, or assurance to other parties, that the findings, statements, opinions or conclusions expressed in the Deliverables are accurate or valid. RiskCheck, at its discretion, will consent to any reasonable request by our Client to approve the use of the Deliverables by other parties as "Approved Users" within one year from the date of the Deliverables.
9. **Copyright** – RiskCheck owns copyright of the Deliverables. We authorize our Client and "Approved Users" to make copies of the Deliverables only in such quantities as are reasonably necessary for its use by those parties. Our Client and Approved Users may not give, lend, sell, or otherwise make available our Deliverables, or any portion or copy thereof, to any party, without our express written consent. No person may alter or modify the Deliverables.
10. **Personal Liability** – The Client and/or "Approved User" expressly agrees that RiskCheck employees shall have no personal liability to the Client and/or "Approved User" with respect to a claim, whether in contract, tort and/or any other cause of action in law. Furthermore, the Client and/or "Approved User" agrees that it will bring no proceedings, nor take any action in any court of law, against RiskCheck employees in their personal capacity.
11. **Professional Liability** – RiskCheck will not be responsible for any consequential or indirect losses incurred by the Client and/or "Approved Users", including but not limited to, loss of income, business opportunities, business interruptions, personal injury or death.
12. **Subconsultant and Contractor Liability** – RiskCheck on certain investigations/assessments (including but not limited to subsurface investigations, laboratory services, remediation, risk assessments, abatements) will require hiring the services of individuals and companies with special expertise and/or services, which are not provided by RiskCheck. RiskCheck may retain these services on behalf of the Client, as part of the overall project, as a convenience to the Client. RiskCheck shall not be responsible for errors, omissions or negligence by those parties in carrying out their work. These will be the responsibility of the subconsultant and contractors retained for completion of the project. The Client indemnifies RiskCheck from all such claims associated with the work carried out by subconsultant and contractors.