

Phase One

Environmental Site Assessment

*12697 Loyalist Parkway
Picton, Ontario*

Prepared for:
Hilden Homes Limited,

August 16, 2019
File: 1126-103.00



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Distribution:
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NOTICE TO READER

<i>Purpose of Phase One ESA</i>	A Phase One ESA is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for hazardous substances on a property. In most cases, a Phase One ESA report can only describe the likelihood of hazardous substances being present or absent at a property.
<i>Scope of work</i>	<i>Professional</i> judgment, experience, and available data collected within the scope of work form the basis for the findings and opinions expressed in this report. The scope of work for this assessment included review of available documents, reports and agency records; visual observations of the Phase One Property during one Phase One site reconnaissance visit; and an interview with a person associated with the Phase One Property. This assessment did not include sampling or analysis of soil, water, waste, or building materials.
<i>Contaminants may exist</i>	Malroz Engineering Inc. (<i>Malroz</i>) is not able to represent that the Phase One Property or adjoining lands contain no hazardous waste, oil, or other latent condition beyond that detected or observed. The possibility exists for hazardous substances to migrate through surface water, air, soil, or groundwater. The ability to accurately address the environmental risk associated with these media is beyond the scope of this assessment.
<i>Regulations may change</i>	Public information is frequently incomplete. Public information and regulatory evaluation criteria are continually changing. As a result, concentrations of substances present and considered to be acceptable at the time of investigation may, in the future, become subject to different regulatory standards and require remediation.
<i>Not an audit</i>	This document has been prepared using information understood to be factual and correct. This undertaking cannot be relied upon to detect information or facts which were concealed or not fully disclosed at the time of assessment. No guarantees are either expressed or implied. If additional information becomes available, <i>Malroz</i> should be authorized to re-evaluate the conclusions presented in this report and provide amendments as required.
<i>Prepared for Hilden Homes</i>	This document has been prepared by <i>Malroz</i> for the sole use of Hilden Homes, to assess potential contaminant impact related to the Phase One Property. Unauthorized reuse of this document for other purposes, or by any other party, without the express written consent of <i>Malroz</i> shall be at such party's sole risk.

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Respectfully Submitted,

MALROZ ENGINEERING INC.

Malroz Engineering Inc.

1.0 EXECUTIVE SUMMARY

Malroz Engineering Inc. (*Malroz*) conducted a Phase One Environmental Site Assessment (ESA) of 12697 Loyalist Parkway in Picton, Ontario, hereafter referred to as the "Phase One Property." The scope of work included completing a Phase One ESA per the requirements outlined in Ontario Regulation 153/04, as amended; which comprised of a records review, interviews and site reconnaissance.

The Phase One Property is approximately 22 hectares in size and was vacant at the time of site reconnaissance. The last use of the property was residential/agricultural. The property comprises of a single parcel, which is surrounded by a mix of commercial, residential and wooded/undeveloped land uses. Picton Bay/Lake Ontario is located approximately 200 meters west of the Phase One Property limits.

A site reconnaissance walkthrough was conducted on June 27, 2019. The property did not have any buildings or structures, with groundcover comprising primarily of grass and woody vegetation with a partial gravel access road and a small gravel area located in the western portion of the property.

Prior records, including land title documents, city directories and aerial photos indicate the Phase One Property was transferred from an unknown party in 1836 and was subsequently used for agricultural purposes from at least 1929. With the exception of easements to The Hydro Electric Power Commission of Ontario in 1940 and to the Corporation of the Town of Picton in 1980, the property has been transferred between individuals. According to aerial photo review, the site has been used for agriculture or laid fallow, except for a brief period of residential use. A mobile trailer evident in the 2005 and 2015 air photos, but was reportedly demolished and removed from the site in 2017 by the current property owner. Since 2017 the site has been vacant and undeveloped.

Interviews with the current and former property owners, roughly confirmed the aforementioned timeline. No reported spills, dumping, or past property uses that would represent a potentially contaminating activity (PCA) on the Phase One Property were reported during the interviews.

One potentially contaminating activity (PCA) identified on the Phase One Property, as defined by O. Reg. 153/04. The identified PCA is the importation of fill material of unknown quality, which occurred when material was been imported onto the Phase One Property to construct an access road between 1995 and 2005. This PCA attributes to an APEC on the Phase One Property.

Surrounding land uses of interest identified in the records review, interview, and site reconnaissance visits identified a private automotive repair garage located at the west adjacent property to the Phase One Property. This activity attributes to the PCA for storage, maintenance, fueling and repair of equipment, vehicles, and material used to maintain transportation systems, and to an APEC on the west portion of the Phase One Property.

Additional PCAs were identified within 250 meters of the Phase One Property; however, based on their location and other characteristics, they do contribute to APECs at the site.

A third APEC was identified at the site resulting from its historic use as an apple orchard. Although this property use is not associated with a defined PCA in O. Reg. 153/04, a related APEC has been identified due to potential use of lead arsenate, which was historically used as a pesticide in orchards dating from its period of use (early 1900s).

Based on our review of current and historical information, this Phase One ESA has identified three APECs on the Phase One Property. Therefore, a Phase Two ESA investigation is recommended and would be required in order to support a Record of Site Condition.

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2.0 INTRODUCTION

a) Phase One Property Information

The Phase One Property is located in Picton, Ontario (see Figure 1, Appendix A), and has a municipal address of 12697 Loyalist Parkway, Picton, Ontario

Based on a land registry document provided by Environmental Risk Information System (ERIS), the legal address of the Phase One Property and property identification number (PIN) is:

Part Lots 1080 & 1081, Plan 24 and Part Lots 19 & 20, Con SE Carrying Place, Parts 3-6, 47R4919 & Pt 2, 47R8220
PIN: 55074-0521(LT)

The Phase One Property is currently vacant with no buildings or structures other than an aboveground hydro line which runs across the western portion of the Phase One Property. The property is vegetated mainly by grass and woody vegetation with trees along the property boundary. Significant areas of wood mulch as a result of tree removal activities in 2017 exists across the property. A gravel access road exists at the west property limit off of the Loyalist Parkway extending east approximately 200 m.

The Phase One Property has an approximate size of 220,000 m² (22 ha) in size. A survey of the Phase One Property is included in Appendix B. A topographic map of the Phase One Property and surrounding area is included in Appendix C.

The Phase One Property is owned by:

Hilden Homes Limited
393 Sidney Street
Belleville, Ontario
K8P 3Z9

Persons who engaged the qualified persons on behalf of Hilden Homes Limited:

Josh Berry, MCIP, RPP
IBI Group
650 Dalton Avenue
Kingston, Ontario
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3.0 SCOPE OF INVESTIGATION

This Phase One ESA was conducted in accordance with Ontario Regulation 153/04 (O. Reg. 153/04), Records of Site Condition, Part XV.1 of the Environmental Protection Act, as amended in 2011.

The scope of work for this assessment included: a review of available documents, reports and agency records; visual observations of the Phase One Property during site visits; and interviews with people associated with the Phase One Property. This assessment did not include sampling or analysis of soil, water, or waste.

4.0 RECORDS REVIEW

a) General

i.) Phase One Study Area Determination

The Phase One study area for the Phase One Property is shown in Figure 1 (Appendix A) and includes properties located, either wholly or partly, within 250 meters of the nearest point of the boundary of the Phase One Property. This determination was made to identify potential sources of contamination to the Phase One Property, as required by O. Reg. 153/04.

ii.) First Developed Use Determination

The earliest site use was determined through a review of the ERIS report, aerial photos, and title information, and interviews. The earliest aerial photo from the year 1929 identifies the Phase One Property as being a mixture of agricultural and wooded lands with no buildings or structures evident on the property (as discussed further in section 4.0 c)i.) of this report).

There is no information available that specifically identifies the property use prior to the 1929 aerial photo; however, a title search identified that the land was transferred from the unknown source to Philip Low in 1836 and the property passed through several individual owners between 1836 and 2017 (as discussed further in 4.0 iv.) of this report).

The first developed use may be determined based on the first evidence of buildings on the property. Although no permanent buildings have been present at the property, a mobile trailer was reportedly present at the property and appears to be been placed occurred between 1995 and 2005, based on aerial photos showing its presence in 2005, but not 1995. The mobile trailer was reportedly serviced by municipal water and electricity, but not sanitary (see Section 5.0 for more information).

iii.) Fire Insurance Plans

Malroz retained ERIS to conduct a search of available Fire Insurance Plans (FIP) for the Phase One Property and surrounding area within a 250 m radius. ERIS subcontracted the service to Opta Historical Environmental Services Enviroscan, who found two FIP for the Phase One study area: Plan 1544, ON (1917) and Plan 1545, ON (1924) (see Appendix D). Firemap 10 was obtained for each of these FIPs, as it represented the closest area to the Phase One Property and other Firemaps were outside of the Phase One Study Area.

Both firemaps represent a similar area, located southwest of the Phase One Property, contained between Low Street to the north, Union Street to the south, Church Street to the west and John street to the east.

Both firemaps indicate numerous 1- and 2-storey dwellings and related auxiliary buildings, including drivesheds.

The firemaps do not appear to contain any information pertinent to PCAs or APECs.

iv.) Chain of Title

Environmental Risk Information System (ERIS) was retained by Malroz to conduct a historical land registry title search back to Crown. However, ERIS reported that the early records containing chain of tile information for the Phase One Property were not legible. Records are contained within two separate chains of title, one for Part Lots 19 & 20 Concession SE Carrying Place, and one for Part Lots 1080 & 1081, Plan 24. Title information for the Phase One Property has been summarized in the tables below and is included in Appendix E.

<u>PIN#:</u> 55074-0521(LT)		
<u>Legal Description:</u> Pt Lts 19 & 20 Con SE Carrying Place, Parts 3 – 6 47R4919 & Pt 2, 47R8220		
<u>Owner</u>	<u>Date</u>	<u>Comment/Document Type</u>
unknown	unknown - 1836	Records not legible prior to 1836
Philip Low	1936-1884	Deed
John Laird	1884-1908	Deed
James Valleau	1908-1911	Deed
Charles Watson	1911-1912	Deed

Frederick Watson & John Watson	1912-1915	Deed
James Alvin Roy Powell	1915-1924	Deed
Sarah Laird	1924-1934	Deed
George Thompson	1934-1948	Deed
The Hydro-Electric Power Commission of Ontario	1940	Easement Registered
The H.E.P Commission of Ontario	1940	Easement Registered
Ross Leon Pearsoll	1948-1976	Deed
Harry Denton Williams	1976-2001	Deed
The Corporation of the Town of Picton	1980	Easement Registered
Denton David Williams & Tammy Williams	2001-2006	Deed
Giuseppe Franzo Romano	2006-2008	Deed
850958 Ontario Ltd.	2008	Deed
David Clegg Holdings Limited/David Clegg Management Services Inc.	2008-2017	Deed
Hilden Homes Ltd.	2017-present	Deed

<u>PIN</u> (PIN 55074-0521(LT))		
<u>Legal Description:</u> Pt Lts 1080 & 1081 Plan 24, Parts 3, 4, 5 & 6 47R4919		
<u>Owner</u>	<u>Date</u>	<u>Comment/Document Type</u>
Charles McCauley	unknown-1874	Records not legible prior to 1874
George Laird	1874-1908	Deed
John Laird	1908- 1908	Deed
John Laird	1884-1908	Deed
James Valleau	1908 - 1911	Deed
Charles Watson	1911-1912	Deed
Frederick Watson & John Watson	1912-1915	Deed
James Alvin Roy Powell	1915-1924	Deed
Sarah Laird	1924-1934	Deed
George Thompson	1934-1948	Deed
The Hydro-Electric Power Commission of Ontario	1940	Easement Registered
The H.E.P Commission of Ontario	1940	Easement Registered
Ross Leon Pearsoll	1948-1990	Deed
850958 Ontario Ltd.	1990- 2008	Deed

David Clegg Holdings Limited/David Clegg Management Services Inc.	2008-2017	Deed
Hilden Homes Ltd.	2017-present	Deed

The land titles for the Phase One Property identifies a change of ownership between individuals from 1836 to 2008, as well as two easements to The Hydro-Electric Power Commission of Ontario in 1940 and one to the The Corporation of the Town of Picton in 1980.

The land title search does not directly indicate evidence of PCAs or APECs on the Phase One Property. However, the title search indicated ownership of the land between 1948 and 1985 or 1990 by Ross. L. Pearsoll. According to other historical research, Pearsoll Auto Sales once occupied the adjacent property at 12699 Loyalist Parkway.

v.) Environmental Reports

The following previous works were conducted on the Phase One Property by Malroz:

- Malroz Engineering Inc. (2019). Geotechnical and Hydrogeological Investigation, Proposed Subdivision by Hilden Homes, Picton, Ontario. April 24, 2019. Revised June 10, 2019.

No other reports were furnished by the owner, Hilden Homes, and other environmental reports are not known to exist.

The above-mentioned report was prepared for the IBI Group on behalf of the property owner, Hilden Homes and was prepared by Camille Malcolm, M.Sc., G.I.T and Dylan Hill, P.Eng. and reviewed by David Hodgson, P.Eng. of Malroz Engineering Inc.

The Geotechnical and Hydrogeological Investigation work included following tasks relevant to the Phase One Environmental Site Assessment:

- review of available reports and hydrogeological information;
- site reconnaissance to assess for the potential for groundwater seeps, springs and to review surface water features in the vicinity of the Site;
- advancement of boreholes to assess overburden; and
- installation of monitoring wells to observe static groundwater elevations.

The regional overburden reportedly consists primarily of quaternary deposits and till with overburden materials in the area of the Phase One Property being generally less than 1

m thick due to shallow bedrock. Bedrock geology according to the Ontario Geologic Survey (OGS) consists of predominantly limestone, characterized by medium brown and grey, finely crystalized bioclastic limestone and overlain by bluish-grey, fine to medium crystalline limestone.

A small drainage swale was observed crossing through the Phase One Property, however the creek bed was observed to be dry during two site visits in July 2018.

Fourteen boreholes were advanced across the Phase One Property with monitoring wells installed in five boreholes. Surficial materials were found to comprise of topsoil, wood mulch, native silty sand, native clayey sandy silt and native silty clay. Possible weathered limestone was encountered at 10 of the borehole locations ranging in depth from 1.3 to 2.4 meters below grade (mbg). Water levels recorded from the installed monitoring wells ranged from being 0.9 to 3.19 mbg, but some wells were also dry. One undocumented, inactive water supply well was observed during the geotechnical investigation. The water level measured in this well was 13.45 mbg.

Groundwater samples were collected from two of the installed monitoring wells and submitted for analysis of general inorganics, anions and metals to assess general water quality.

No PCAs were identified from the review of the geotechnical report.

b) Environmental Source Information

i.) ERIS Database Report

Inquiries regarding environmental source information for the Phase One Property and the surrounding properties within 250 m were made through ERIS. A search of records of 69 databases available through ERIS returned information from the following:

- Abandoned Mine Information System
- ERIS Historical Searches
- TSSA Historic Incidents
- Mineral Occurrences
- TSSA Pipeline Incidents
- Retail Fuel Storage Tanks
- Ontario Spills
- Water Well Information System

The information for these databases is summarized below by records found for the Phase One Property (on-site records) followed by records for properties located within 300 meters of the Phase One Property (off-site records). A copy of the ERIS report is included as Appendix F.

The ERIS search of the databases did not identify records for the Phase One Property. However, 22 entries were found for properties within 250 meters of the Phase One Property. A review of these records identified multiple PCAs within the Phase One Study Area as summarized below and in Figure 2, Appendix A.

- Gasoline and associated products storage in fixed tanks: A fuel leak of 20 liters was reported at 32 Maitland Drive, approximately 200 metres west of the Phase One Property.
- Gasoline and associated products storage in fixed tanks: A furnace oil spill of 450 liters was reported at 168 Union Street, approximately 250 metres south of the Phase One Property.
- Mining, smelting and refining; ore processing; tailings storage: A past producing mine without reserves was reportedly located west of Loyalist Parkway, approximately 250 metres west of the Phase One Property.
- Gasoline and associated products storage in fixed tanks: The presence of retail fuel storage tanks was reported at 97-A Bridge Street, approximately 150 metres west of the Phase One Property. These tanks are likely associated with the marina at this property, which more than 250 metres from the Phase One Property.

In addition to the above PCAs a fuel leak (5-10 liters) was reported from a fuel truck at 20 John Street, approximately 60 metres southwest of the Phase One Property. This leak may relate to a fixed tank. However, given the small size of the leak, it does not contribute to an APEC at the Phase One Property.

ii.) City Directory

In addition to the chain of title search for the Phase One Property, a search was conducted by ERIS for the Phase One Property and nearby properties of interest in the city directory. Listings were returned for 1997 and 2000. Copies of the city directory searches have been included in Appendix G.

The search report indicated that a City Directory was not available for Prince Edward County, Ontario within the city directory archives prior to 1997. The Phase One Property was not listed in 1997 or the 2000 city directory.

City directories indicate the surrounding area has been residential since at least 1997. No PCAs are indicated by the reviewed city directories.

iii.) FOI Requests

Malroz submitted a request for files from the Ontario Ministry of the Environment, Conservation and Parks (MECP), formerly the Ministry of Environment and Climate Change (MOECC) under the Freedom of Information (FOI) and Protection of Privacy Act to supplement database searches conducted by ERIS. The MECP provided a letter dated June 24, 2019, indicating they did not identify any records relating to the Phase One Property. A copy of the MECP response is included in Appendix H.

Malroz submitted a request for files from the TSSA under the FOI and Protection of Privacy Act to supplement database searches conducted by ERIS. The TSSA provided a letter via email on July 8, 2019, indicating that they had no record relating fuel safety records relating to the Phase One Property. A copy of the TSSA response is included in Appendix H.

c) Physical Setting Sources

i.) Aerial Photographs

A summary of aerial photographs reviewed to evaluate the Phase One Study Area is tabulated below.

Date	Roll/Photo Number	Scale
2017	Google Earth Image	1:10,000
2015	Google Earth Image	1:20,000
2005	QuickBird Satellite Imagery via PEC GIS	1:9,028
1995	A28172-167	1:50,000
1974	A23817-86	1:24,000
1965	VRR2638-1707	1:6,000
1956	A15596-57	1:40,000
1929	A1718-1	1:15,000

Copies of aerial photos are included in Appendix I.

Aerial photographs were selected to span the period from the first available photo to present for the purpose of identifying buildings and structures, as well as potentially contaminating activities and environmental concerns, over time. One photo was selected from each decade that had an available photo, with priority given to aerials with the smallest scale.

Aerial photos were researched by ERIS through a search of The National Air Photo Library. ERIS identified that the earliest air photo available from this collection for the Phase One Property to be from 1929. Google Earth images (2015 & 2017) and a QuickBird Satellite image (2005) retrieved via the Prince Edward County (PEC) GIS online mapping application, were provided as the most recent air photos, as recent air photos were not available through *ERIS*.

The 1929 aerial photo shows a mixture of residential, forested and agricultural lands surrounding the Phase One Property. The Phase One Property does not appear to have any identifiable buildings or structures and appears to be used for agricultural purposes as an orchard with sections of forested area in the west and north portions of the property.

The 1956 aerial photo shows similar features shown in the 1929 photo; however, the scale of this photo does not permit a detailed review or description. Most of the treed

orchard has been removed, with only a portion remaining on the east side of the property.

The 1965 aerial photo shows evidence of increased residential development of the lands southwest adjacent to the Phase One Property. There is evidence of a trench or ditch on the Phase One Property, oriented in a north-south direction, beginning approximately 250 m west of the Loyalist Parkway. The remainder of the Phase One Property appears to be relatively unchanged since 1956. The remnants of the orchard on the east side of the property appear to be becoming fallow.

The 1974 aerial photo shows increased residential development in the west adjacent lands. The agricultural lands of Phase One Property appear to be inactive/fallow.

The 1986 aerial photo shows similar features shown in the 1974 photo. There appears to be vehicles parked in a linear formation, suggesting a vehicle sales/storage operation at 12699 Loyalist Parkway (the south adjacent property). The Phase One Property is relatively unchanged from the 1974 photo.

The 1995 aerial photo shows similar features shown in the 1986 photo however the scale of this photo does not permit a detailed review or description.

The image for 2005 was retrieved from the PEC GIS mapping application. One building is evident on the phase one property within the north west portion of the property, approximately 200 m west of Loyalist Parkway. It appears that some equipment or an auxiliary structure may also be present approximately 50 metres west of the building. Vehicle storage is no longer evident at 12699 Loyalist Parkway. Surrounding properties are relatively unchanged from the 1986 photo.

The aerial photos from 2015 and 2017 shows similar characteristics to those in the 2005 aerial photo; however, the road to the buildings is no longer apparent, as it appears revegetated.

Potentially contaminating activities identified from the aerial photos include:

- Importation of fill on the Phase One Property associated with the observed access road. This has been identified as PCA 1 (Figure 2, Appendix A), attributing to APEC A (Figure 3, Appendix A).
- Car dealership and associated garage at the west adjacent property (12699 Loyalist Parkway). This has been identified as PCA 2 (Figure 2, Appendix A) attributing to APEC B (Figure 3, Appendix A).

ii.) **Topography, Hydrology, Geology**

The Phase One Property is generally flat in the western portion with a gentle slope towards the southwest and a steep upward slope in the eastern portion, leading to a plateau area approximately 15 m higher in elevation along the east property limit. West of the Phase One Property on the opposite side of Loyalist Parkway are residential properties sloping downwards to Picton Bay in Lake Ontario. The Picton Harbour is

approximately 77 meters above sea level (masl), approximately 10 m lower in elevation than the west portion of the Phase One property. The surrounding areas to the north and east of the site are located at approximately the same elevation. Properties to the south are at a slightly lower elevation. A copy of an Ontario Base Map series topographic map is included in Appendix C.

Physiographic and surficial geologic reference maps are included in Appendix C. The physiography of the Phase One Property and surrounding area is described as limestone plains. The surficial geology for the majority of the Phase One Property and for surrounding lands to the northeast, south and southwest is a Middle Ordovician bedrock deposit with a primary material of Paleozoic bedrock with clay, silt sand, gravel and diamicton veneer, exposed or with less than 1 m of drift cover. The surficial geology of the northwest corner of the Phase One Property and surrounding lands to the north along Picton Bay consist of a Pleistocene till deposit consisting of glacial diamicton sandy silt of low-medium permeability, described as silty to sandy and moderately stony.

The bedrock geology for the Phase One Property and surrounding area is described as Paleozoic, ordovician limestone, dolostone, shale, arkose or sandstone of the Ottawa Group, Simcoe Group or Shadow Lake Formation. The bedrock geology reference map is included in Appendix C.

Previous reports (Malroz, 2019), identified the soil stratigraphy as topsoil up to 1.6 mbg or wood mulch up to 0.2 mbg, overlying predominantly native clayey sandy silt between 1.2 and to 2.1 m in thickness or a native silty clay between 0.4 and 0.8 m in thickness within the 14 boreholes advanced on the Phase One Property. Possible weathered limestone bedrock was encountered in 10 of the boreholes at a depth ranging from 1.0 to 3.6 mbg.

Groundwater was previously reported to be encountered in monitoring wells between 1.0 to 3.2 mbg and in a water supply well at 13.5 mbg (Malroz, 2019).

iii.) Fill Materials

Two buildings/structures were previously present in the northern area of the Phase One Property. A historical aerial photo from 2018 was the last to show the building. Buildings were not evident during the 2019 site visit. Trace amounts of fill materials indicative of a demolished building including asphalt shingles and wood fragments were observed on the ground surface during the 2019 site visit in the approximate area of the former buildings. Waste disposal tickets associated with the structure demolition were provided by the property owner (Appendix L).

Significant amounts of wood chips/mulch were observed in piles throughout the property, especially in the south western portion of the property. The source of this material has is reported to be a product of vegetation clearing at the property in preparation of the proposed development.

There is a partial gravel surfaced service road located in the north portion of the Phase One Property, extending approximately 200 m east of the Loyalist Parkway. The source and quality of this material is not known by the property owner. The importation of fill of unknown quality is a PCA (Figure 2 ID #1).

iv.) Water Bodies and Areas of Natural Significance

Water bodies and areas of natural significance have been summarized below, based on maps ordered through ERIS. Copies of the maps are included in Appendix C.

The Phase One Property was observed to be approximately 200 meters east of Picton Bay in Lake Ontario. No areas of natural significance were observed on, or within 250 meters of the Phase One Property.

A west flowing drainage ditch was observed along the northern perimeter of the phase one property. This eastern portion of the ditch was wet becoming dry approximately halfway down the slope.

A northwest sloping drainage ditch was observed along the western portion of the phase one property, running under the access road via a metal culvert. The ditch was dry at the time of the site visit.

The Ministry of Natural Resources and Forestry (MNRF) Peterborough District office was contacted to provide information on species at risk, and areas of natural and scientific interest within the Phase One Study Area. A response was not received from the MNRF within the allotted completion time of this report. Malroz will forward the results of this request should they affect or change the conclusions of this report.

v.) Well Records

A total of eight water wells were identified in the Water Well Information search by ERIS within 300 meters of the Phase One Property. Locations for the well records have been plotted by ERIS (Appendix F). Malroz obtained the Water Well Records (WWRs) for these wells from the MECP well records website (Appendix J).

WWRs were not identified on the subject site.

Water wells identified within the study area ranged in depth from 7.32 to 60.96 mbg and were identified to have the following 'final status':

- Four WWRs were identified as water supply wells.
- One WWR was identified as abandoned due to insufficient supply
- One WWR was identified as a cluster of 4 monitoring wells.
- One WWR was identified as abandoned due to demolition.
- One WWR was identified as a cluster of 4 monitoring wells abandoned.

One WWR included a monitoring well location figure depicting an above ground storage tank (AST) at 32 Maitland Street. This corresponds to the TSSA Historic Incidents

record identified in previous section 4.a).v.) which provided details of a 20 L heating oil spill in 2008. As discussed previously, the presence of the AST is considered to be a PCA.

One water well record was erroneously identified within the 300 m buffer of the Phase One Property. Well record 7156690 reportedly associated with a Petro Canada bulk station at 13688 Loyalist Parkway, is actually located approximately 5 km southwest of the Phase One Property.

The stratigraphy of the overburden is described as shale, limestone (loose, porous), sand, topsoil, loam, clay and silt. Limestone bedrock was reported to be encountered in five WWRs. Details on the depths of the overburden soils and bedrock can be found in the ERIS report (Appendix F) and WWRs (Appendix J).

Bedrock was encountered in five of the WWRs between 0.6 and 7.62 mbg.

Static water level levels were reported to be between 1.22 and 24.38 mbg.

d) Site Operating Records

No site operating records were furnished by the property owner for the Phase One Property.

5.0 INTERVIEWS

An interview with Eric DenOuden, president of Hilden Homes Limited and the present owner of the Phase One Property, was conducted over the phone on July 8, 2019. Subsequent emails on July 9th with follow-up questions also provided additional information.

Hilden Homes Limited has owned the property since September 2017 and Mr. DenOuden has been involved in the direction and management of activities at the site since that time. He indicated that there was a mobile trailer on the property when it was purchased. This structure was demolished and removed from the property in 2017. Demolition materials were transported to Scaletta Waste Management in Belleville, Ontario. Mr. DenOuden indicated that no underground or above ground storage tanks were observed during demolition activities.

Mr. DenOuden indicated that to his knowledge no fill materials have been brought onto the property. No information concerning potentially contaminating activity and areas of potential environmental concern were noted by Mr. DenOuden.

Malroz also contacted the previous property to obtain site use information for the Phase One Property and surrounding properties. Mr. David Clegg was interviewed via phone on July 18, 2019. Mr. Clegg indicated that he owned the property for approximately 6 years and purchased it from the Romano family. Mr. Clegg indicated that there was a mobile trailer on the property when he purchased it and that was being used by the previous owner's relative. He indicated that that the mobile trailer was serviced by city water and electricity and did not have any fuel storage tanks associated with it. Mr. Clegg indicated that he believed has always been used as farmland but has not been actively farmed for quite some time. Mr. Clegg indicated that the west adjacent property was a service garage in the past but wasn't sure if it was a gas station at one point. Mr. Clegg indicated that he was not aware of any environmental concerns associated with the Phase One Property or surrounding areas.

Information obtained during the interviews was compared with observations from the Phase One Property reconnaissance visit and information obtained from the records review. Responses received from the interviews generally correspond with the information provided in the records review. For example, Mr. DenOuden indicated that he purchased the property from the David Clegg September 15, 2017. The title search provided by ERIS indicates that David Clegg Holdings Limited/David Clegg Management Services Inc. owned the property between 2008 and September 15, 2017 prior to being deeded to Hilden Homes Limited.

The following PCAs were documented on the Phase One Property or within the Study Area during the interview visit:

- The historic garage at the west adjacent property (12699 Loyalist Parkway) (PCA 2 as shown in Figure 2, Appendix A).

6.0 SITE RECONNAISSANCE

The subsections which follow summarize our observations of our site reconnaissance visit of the Phase One Property and Study Area.

a) General Requirements

The site reconnaissance visit was conducted on June 27, 2019 between 1:45 pm and 3:00 pm. At the time of the site visit, the weather was sunny and approximately 30 degrees Celsius with relatively dry site surface conditions. The Phase One Property was vacant and undeveloped at the time of the site visit. The site investigation was conducted by Justina Poisson, B.Sc., A.Sc.T. and reviewed by David Hodgson, P.Eng. Ms. Poisson has 12 years of experience in the environmental industry. Mr. Hodgson is a licensed Professional Engineer with 15 years of experience in the environmental industry and preparation of Phase One and Two ESAs.

Photographs of the Phase One Property and surrounding land uses, including written descriptions and explanations, are included in Appendix K.

b) Specific Observations at the Phase One Property

i) Above Ground Structures

No buildings were observed at the Phase One Property. Several hydro poles and an above ground hydro line were observed running in north-south direction across the western portion of the Phase One Property. A disconnected pole mounted hydro service box was observed near the access road at the northwestern portion of the Phase One Property.

ii) Below Ground Structures

No below ground structures were observed by Malroz.

iii) Tanks

The presence of ASTs or evidence of underground storage tanks (USTs) was not observed by Malroz.

iv) Potable and Non-Potable Water Sources

Potable water wells were not observed during the Phase One Site visit, although one is reported to be present based on the previous investigations.

v) Building Features

No buildings were observed on the Phase One Property.

vi) Heating

No buildings are present on the Phase One Property, therefore there are currently no heating fuels or utilities used for heating on the Phase One Property.

vii) Cooling System

As noted above, there are presently no buildings on the Phase One Property.

viii) Drains, Pits and Sumps

Drains, pits or sumps were not observed on the Phase One Property.

ix) Unidentified Substances

No unidentified substances were identified during the site visit.

x) Stains, Spills or Corrosion

A small surface stain (less than 1 m²) was observed on the gravel surface near the site entrance off of Loyalist Parkway. No other stains, spills or corrosion were observed during the site visit.

xi) Wells

Five monitoring wells were observed across the Phase One Property during the site visit.

xii) Sewage Works

Sewage works or services were not observed on the Phase One Property. Buildings in the area are reportedly connected to the County of Prince Edward sanitary sewer.

xiii) Ground Surface

The Phase one Property consists of a mixture of grasses, woody vegetation and treed areas in addition to an approximate 200 m section of partial gravel access road extending east from the Site entrance off of Loyalist Parkway.

xiv) Railway Lines

There were no railway lines on the Phase One Property or within a 250 m radius of the Phase One Property at the time of the site visit.

c) Environmental Site Observations

i) Stained soil, vegetation or pavement

Other than a small (<1 m²) surficial stain on the gravel surface near Loyalist Parkway, stained soil, vegetation, or pavement were not observed on the Phase One Property.

ii) Stressed Vegetation

Stressed Vegetation was not observed on the Phase One Property during the site reconnaissance visit.

iii) Fill

A partial gravel access road was observed at the Phase One Property during the site reconnaissance visit extending approximately 200 m east of the Loyalist Parkway. Significant quantities of wood mulch were observed across the Phase One Property during the site visit. This material is reported by Mr. DenOuden to be from tree clearing activities that occurred at the site in 2017-2018. Trace fragments of wood, plastic and metal were observed among wood mulch piles in the northwestern portion of the site.

iv) Unidentified Substances

Unidentified substances were not observed at the Phase One Property during the site reconnaissance visit.

d) Written Description of Investigation

Observations from the Phase One Property site reconnaissance visit are captioned and included in Appendix K for reference.

During the site reconnaissance, Malroz staff walked through the Phase One Property unaccompanied and conducted a visual (i.e. non-intrusive) evaluation of the Phase One Property and surrounding land uses. Observations of the subject site are summarized in the sections below (a to c). A brief summary of observed surrounding property uses and potential PCAs arising from our site reconnaissance visit is provided below.

Surrounding Land Uses

Surrounding land uses observed from the site reconnaissance visit are described with respect to true north and included:

North	Single residential homes or vacant wooded lands
South	Single residential homes (subdivision)
East	Wooded/undeveloped lands
West	Commercial property with a private garage (12699 Loyalist Parkway), followed by

	Loyalist Parkway, followed by single residential homes
--	--

The following PCAs contributing to on-site APECs were documented on the Phase One Property or within the Study Area during the site reconnaissance visit:

- The presence of fill material within the service road at the Phase One Property (PCA 1 as shown in Figure 2, Appendix A)
- The presence of a private service garage located at the west adjacent property (12699 Loyalist Parkway) (PCA 2 as shown in Figure 2, Appendix A)

7.0 REVIEW AND EVALUATION OF INFORMATION

a) Current and Past Uses

Current and past uses of the property are summarized below.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Part Lots 1080 & 1081, Plan 24 and Part Lots 19 & 20, Con SE Carrying Place				
2017-Present	Hilden Homes Limited	Undeveloped fallow agricultural	Agriculture or other use	2017 air photo shows one structures, remainder of property undeveloped/ fallow
2008-2017	David Clegg Holdings Limited/ David Clegg Management Services Inc.	Undeveloped fallow agricultural	Agriculture or other use	2017 and 2005 air photos show two structures, remainder of property undeveloped
Part Lots 19 & 20, Con SE Carrying Place				
2008	850958 Ontario Limited	Undeveloped fallow agricultural	Agriculture or other use	2017 and 2005 air photos show trailer structure, remainder of property undeveloped
2006-2008	Giuseppe Franzo Romano	Residential & Agriculture or other use	Agricultural/ Residential	2017 and 2005 air photos show trailer structure, remainder of property undeveloped
2001-2006	Denton David Williams & Tammy Williams	Residential use of a trailer on-site, remainder is undeveloped fallow agricultural	Agriculture or other	2005 air photo show trailer structure, remainder of property undeveloped
1976-2001	Harry Denton Williams	Agriculture (possible orchard) or fallow	Agricultural or other use	1986 air photo shows fallow agricultural lands
1948-1976	Ross Leon Pearsoll - Estate/Ross Leon Pearsoll	Agriculture (possible orchard) or fallow	Agricultural or other use	1959 air photo shows fallow agricultural use
1934-1948	George Thompson	Agriculture (possible orchard) or fallow	Unknown	No historical documents available for this time period
1924-1934	Sarah Laird	Orchard	Unknown	1929 air photo shows apparent orchard and forested lands
1915-1924	James Alvin Roy Powell	Unknown	Unknown	Deed in title, no other records
1912-1915	Frederick Watson & John Watson	Unknown	Unknown	Deed in title, no other records
1911-1912	Charles Watson	Unknown	Unknown	Deed in title, no other records
1908-1911	James Valleau	Unknown	Unknown	Deed in title, no other records

1884-1908	John Laird	Unknown	Unknown	Deed in title, no other records
1836-1884	Philip Low	Unknown	Unknown	Deed in title, no other records
Prior to 1836	Unknown	-	- Unknown	No historical documents available prior to 1836
Part Lots 1080 & 1081, Plan 24				
1990- 2008	850958 Ontario Limited	Undeveloped	Agriculture or other use	2017 and 2005 air photos show trailer structure, remainder of property undeveloped
1948-1990	Ross Leon Pearsoll	Undeveloped	Agriculture or other use	Air photos show this portion of the property is undeveloped
1934-1948	George Thompson	Undeveloped	Agriculture or other use	Air photos show this portion of the property is undeveloped
1924-1934	Sarah Laird	Undeveloped	Agriculture or other use	Air photos show this portion of the property is undeveloped
1915-1924	James Alvin Roy Powell	Unknown	Unknown	Deed in title, no other records
1912-1915	Frederick Watson & John Watson	Unknown	Unknown	Deed in title, no other records
1911-1912	Charles Watson	Unknown	Unknown	Deed in title, no other records
1908-1911	James Valteau	Unknown	Unknown	Deed in title, no other records
1884-1908	John Laird	Unknown	Unknown	Deed in title, no other records
1874-1908	George Laird	Unknown	Unknown	Deed in title, no other records
unknown-1874	Charles McCauley	Unknown	Unknown	Deed in title, no other records

b) Potentially Contaminating Activity

i.) Phase One Property

The following potentially contaminating activities were identified at the Phase One Property based on Table 2, from Schedule D of O. Reg. 153/04, as amended:

PCA Reference Number	Description of PCA	Location of Potential Contaminating Activity	Description According to Regulation	Potentially Contaminating Activity	Contaminants of Potential Concern	Media Potentially Impacted
1	Fill used for an access road from Loyalist Parkway to the former location of the trailer	Northern portion of Phase One Property, off Loyalist Parkway	Importation of fill material of unknown quality	On-site	PHC, VOC, PAH, EC, SAR, PCB, metals	Soil, GW

ii.) Phase One Study Area

The following potentially contaminating activity was documented within 250 meters of the Phase One Property and were identified based on Table 2, from Schedule D of O. Reg. 153/04, as amended:

Reference Number for PCA or Other Concern	Description of PCA	Location of Potential Contaminating Activity	Description According to Regulation	Potentially Contaminating Activity	Contaminants of Potential Concern	Media Potentially Impacted
The following PCAs contribute to APECs at the Phase One Property						
2	Historical vehicle sales and maintenance garage	West adjacent commercial property (12699 Loyalist Parkway)	Storage, maintenance, fueling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-site	PHC, VOC, PAH, metals	Soil, GW

The following PCAs and other concerns were identified within 250 meters of the Phase One Property. These activities have not been identified to attribute to an APEC on the Phase One Property due to their relative size, their distance from the Phase One Property and/or due to their down- or cross-gradient location relative to the inferred groundwater flow direction which is interred to be east toward Picton Bay and Lake Ontario. The location of each PCA or other concern relative to the Phase One Property is identified on Figure 2, Appendix A.

Reference Number for PCA or Other Concern	Description of PCA	Location of Potential Contaminating Activity	Description According to Regulation	Potentially Contaminating Activity	Contaminants of Potential Concern	Media Potentially Impacted
The following PCAs do not contribute to APECs at the Phase One Property						
3	Fuel oil leak (20 liters)	32 Maitland Drive	Gasoline and associated products storage in fixed tanks	Off-site	PHC, VOC	Soil, GW
4	Furnace oil spill (450 liters)	168 Union Street	Gasoline and associated products storage in fixed tanks	Off-site	PHC, VOC	Soil, GW

Reference Number for PCA or Other Concern	Description of PCA	Location of Potential Contaminating Activity	Description According to Regulation	Potentially Contaminating Activity	Contaminants of Potential Concern	Media Potentially Impacted
5	Past producing mine without reserves	West of Loyalist Parkway	Mining, smelting and refining; ore processing; tailings storage	Off-site	PHC, VOC, PAH, Metals	Soil, GW
6	Presence of retail fuel storage tanks	97-A Bridge Street	Gasoline and associated products storage in fixed tanks	Off-site	PHC, VOC	Soil, GW
7	Fuel leak from fuel truck (5-10 liters)	20 John Street	N/A	Off-site	PHC, VOC	Soil, GW

c) Areas of Potential Environmental Concern

Based on the above PCAs, the following APECs were documented on the Phase One Property as a result of PCAs on the Phase One Property and within the Study Area. APEC C does not relate to a PCA, as defined by O.Reg. 153/04, but is related to potential contamination resulting from historic use of the Phase One Property as an orchard and potential historical use of the inorganic pesticide lead arsenate.

Area of Potential Environmental Concern (APEC)	Location of Area of Potential Environmental Concern on the Phase One Property	PCA according to O.Reg. 153/04	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted
A Former access road on Phase One Property	Access road in north portion of Phase One Property off of Loyalist Parkway	Importation of fill of unknown quality	On-site	PHC, VOC, PAH, EC, SAR, PCB, metals	Soil, groundwater
B Historical auto sales, maintenance garage	West limit of phase one property	Storage, maintenance, fueling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-site	PHC, VOC, PAH, EC, SAR, Cl, metals	Soil, groundwater
C Former orchard area - potential pesticide use	Most of the Phase One Property (areas of historic orchard use)	N/A	On-site	Metals (Pb, As)	Soil, groundwater

i.) Information Evaluation

In order to evaluate the available information on the Phase One Property and properties within the study area, the following methods were used:

- multiple lines of evidence were employed, including:
 - current and historical documents review;
 - interviews with a current and previous property owner
 - Phase One Property reconnaissance visits;
- knowledge of chemical fate and transport processes;
- evaluation of potential for contamination on site;
- general knowledge of the Phase One study area.

Areas of potential environmental concern are summarized in the table (above) and are depicted in Figure 3 (Appendix A). Contaminants of potential concern were chosen to reflect the most likely contaminants based on each PCA on or near the Phase One Property. Contaminants of potential concern for each APEC are summarized in the table (above).

This document has been prepared using information understood to be factual and correct. This undertaking cannot be relied upon to detect information or facts which were concealed or not fully disclosed at the time of assessment. Uncertainty or absence of information in any of the components could lead to the inaccurate or incomplete identification of potentially contaminating activities, areas of potential environmental concern, and/or contaminants of potential concern.

In order to minimize any uncertainty or absence of information, information was collected from various sources (including environmental records and agencies, fire insurance plans, title search, city directory search, etc.). Information gleaned from the interview and Phase One Property reconnaissance visits were compared with information from document searches in order to minimize uncertainty.

d) Phase One Conceptual Site Model

Three figures are provided in Appendix A to depict the conceptual site model. Figure 1: Site Location Map shows the location of the Phase One Property within the Town of Picton. Figure 2: Potentially Contaminating Activities, shows the uses of the neighbouring properties in the Phase One Study Area and associated PCAs as well as names of roads included in the Phase One Study area. Figure 3: Site Plan and Areas of Potential Environmental Concern shows the current configuration of the Phase One Property and APECs. No known underground utilities are present on the Phase One Property, with the exception of the water supply well depicted in Figure 3. It was reported that the former trailer may have been serviced by municipal water, but not septic services.

Appendix C includes maps depicting the site topography, nearby water bodies and areas of natural significance. Figure 4 is a detailed site plan of the site identifying APECs. Geology of the area is described in Section 4.c.ii of this report and Water Well Records from the study area (Appendix J). Figure 2 (Appendix A) identifies the areas within the Phase One study area where PCAs have occurred, identifies areas of potential environmental concern and identifies contaminants of potential concern.

Uncertainty or absence of information in any of the components could lead to the inaccurate or incomplete identification of potentially contaminating activities, areas of potential environmental concern, and/or potential contaminants of concern. In order to minimize any uncertainty or absence of information, information was collected from various sources (including environmental records and agencies, fire insurance plans, title search, city directory search, etc.). Information gleaned from the interview and Phase One Property reconnaissance visits were compared with information from document searches in order to minimize uncertainty.

8.0 CONCLUSIONS

i.) Whether a Phase Two ESA required before Record of Site Condition Submitted

This Phase One ESA identified the presence of one PCA on the Phase One Property associated with the suspected historical placement of fill material for use as an access road in the north portion of the property. This PCA is considered to represent an area of potential environmental concern (APEC), at the Phase One Property.

One PCA associated with properties surrounding Phase One Study Area was identified and is considered to represent an APECs at the northwest portion of the Phase One Property. The PCA consisted of the historic and current presence of automotive repair garages, and was located adjacent to the Phase One Property.

A third APEC was identified at the site resulting from its historic use as an apple orchard. Although this property use is not associated with a defined PCA in O.Reg. 153/04, a related APEC has been identified due to potential use of lead arsenate, which was historically used as a pesticide in orchards dating from its period of use (early 1900s).

Following the completion of the Phase One ESA, it is our opinion that a Phase Two Environmental Site Assessment is required before an RSC is submitted.

ii.) Record of Site Condition Based on Phase One Environmental Site Assessment Alone

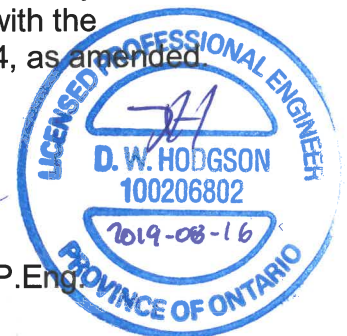
A Phase Two ESA is required to support an RSC for this property as APECs have been identified at the site by this Phase One ESA and these APECs have not been sufficiently investigated to support an RSC.

iii.) Signatures

This Phase One Environmental Site Assessment report has been prepared by Justina Poisson and Dave Hodgson of Malroz Engineering Inc. in accordance with the standards outlined in the Environmental Protection Act - O. Reg. 153/04, as amended

Justina Poisson, B.Sc., A.Sc.T.
Environmental Scientist

Dave Hodgson, P.Eng
Project Manager



9.0 REFERENCES

Malroz Engineering Inc. (2019). *Geotechnical and Hydrogeological Investigation*. April 24, 2019 (revised June 10, 2019).

10.0 APPENDICIES

- A Conceptual Site Model
 - Figure 1: Site Location Plan
 - Figure 2: Potentially Contaminating Activities
 - Figure 3: Areas of Potential Environmental Concern

- B Phase One Property Survey

- C Topographic Map and Reference Maps

- D Fire Insurance Plan

- E Title Information

- G City Directory Search

- H Records of Communication
 - Ministry of the Environment, Conservation and Parks
 - Technical Standards and Safety Authority
 - Quinte Conservation

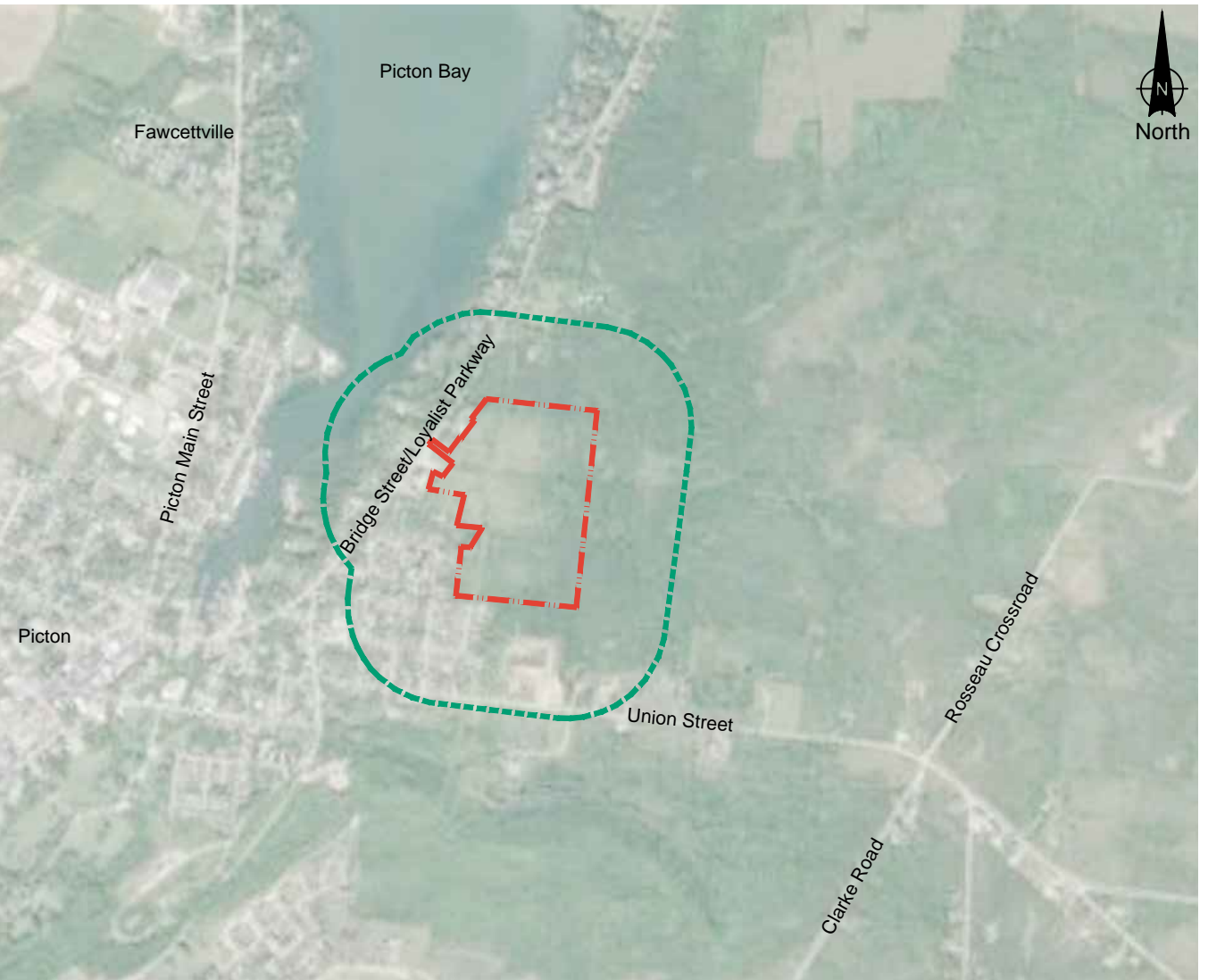
- I Aerial Photos

- J Water Well Records

- K Phase One Property Reconnaissance Photographs and Description

- L Copies of Field Notes from Site Visit and Interviews

Appendix A
Conceptual Site Model



Legend

- - - approximate Phase One Property boundary
- - - Phase One Study Area

Note: Figure based on Malroz field observations, Google Earth imagery and Prince Edward County GIS Viewer. Phase One Study Area represents a 250 m offset of the Property Boundary.

Rev	Date	Description	By	Chkd
0	19/07/24	issued in final	ZL	DH

Site Location Plan

Phase One ESA
12967 Loyalist Parkway
Prince Edward County, Ontario

File: 1126-103.00

Approx. Scale (m)

Figure 1

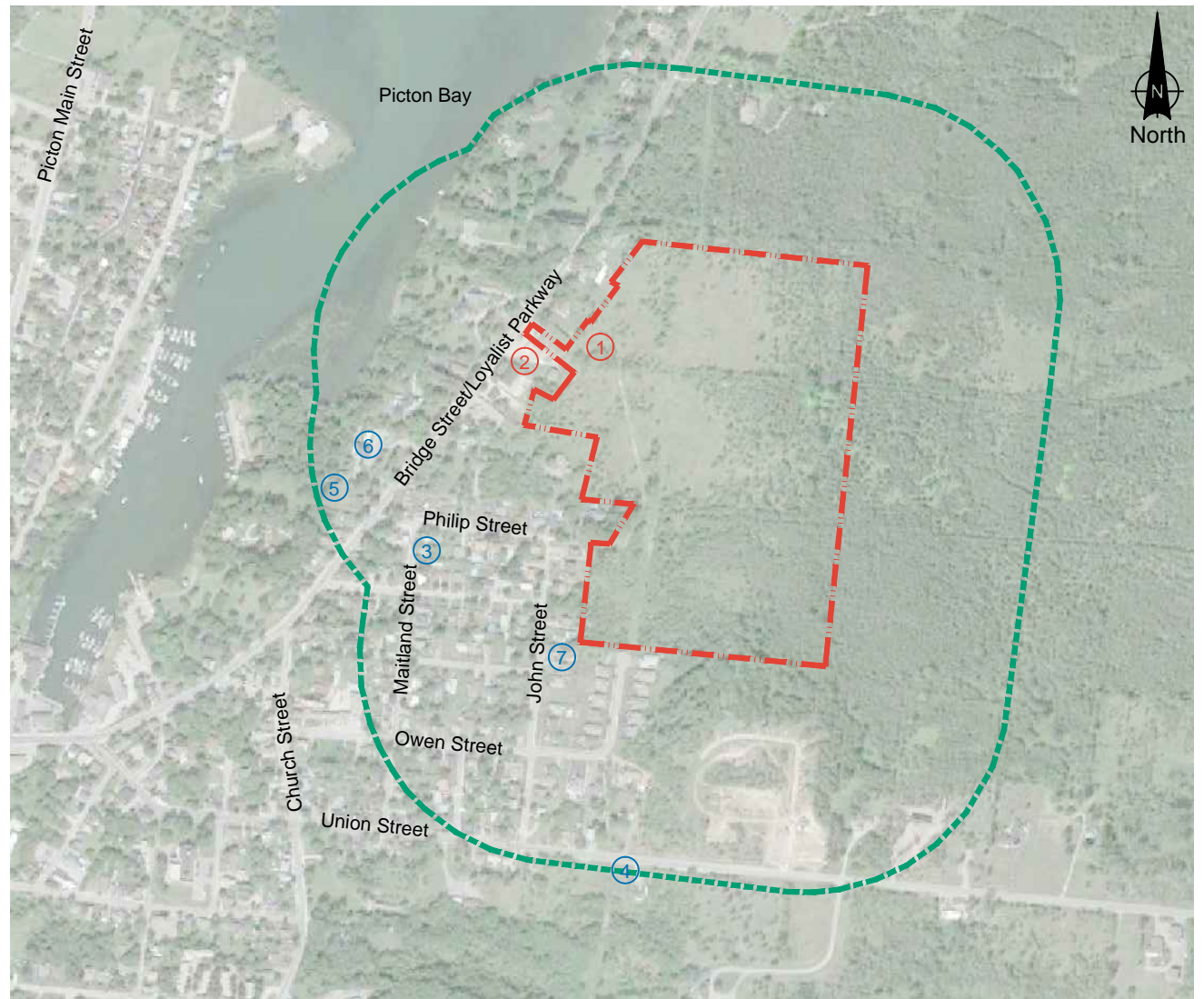


PCAs and Other Concerns Contributing to APECs¹

- 1 - 12697 Loyalist Parkway - Importation of fill of unknown quality
- 2 - 12699 Loyalist Parkway - Historical automotive sales, historical and current automotive garage, historical gasoline station

PCAs and Other Concerns Not Contributing to APECs¹

- 3 - 32 Maitland Drive - fuel oil leak
- 4 - 168 Union Street - furnace oil spill
- 5 - West of Bridge Street - past producing mine without reserves
- 6 - 97-A Bridge Street - presence of retail fuel storage tanks
- 7 - 20 John Street - fuel leak from fuel truck



Note:
1 refer to report for discussion of PCAs and APECs

Legend

- approximate Phase One Property boundary
- Phase One Study Area (250 m)
- Potentially Contaminating Activities (# corresponds to the table in Section 7 of report)

Note: Figure based on Malroz field observations, Google Earth imagery and Prince Edward County GIS Viewer.

Rev	Date	Description	By	Chkd
0	19/08/01	issued in final	ZL	DH

Potentially Contaminating Activities

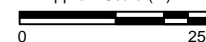
Phase One ESA
12967 Loyalist Parkway
Prince Edward County, Ontario

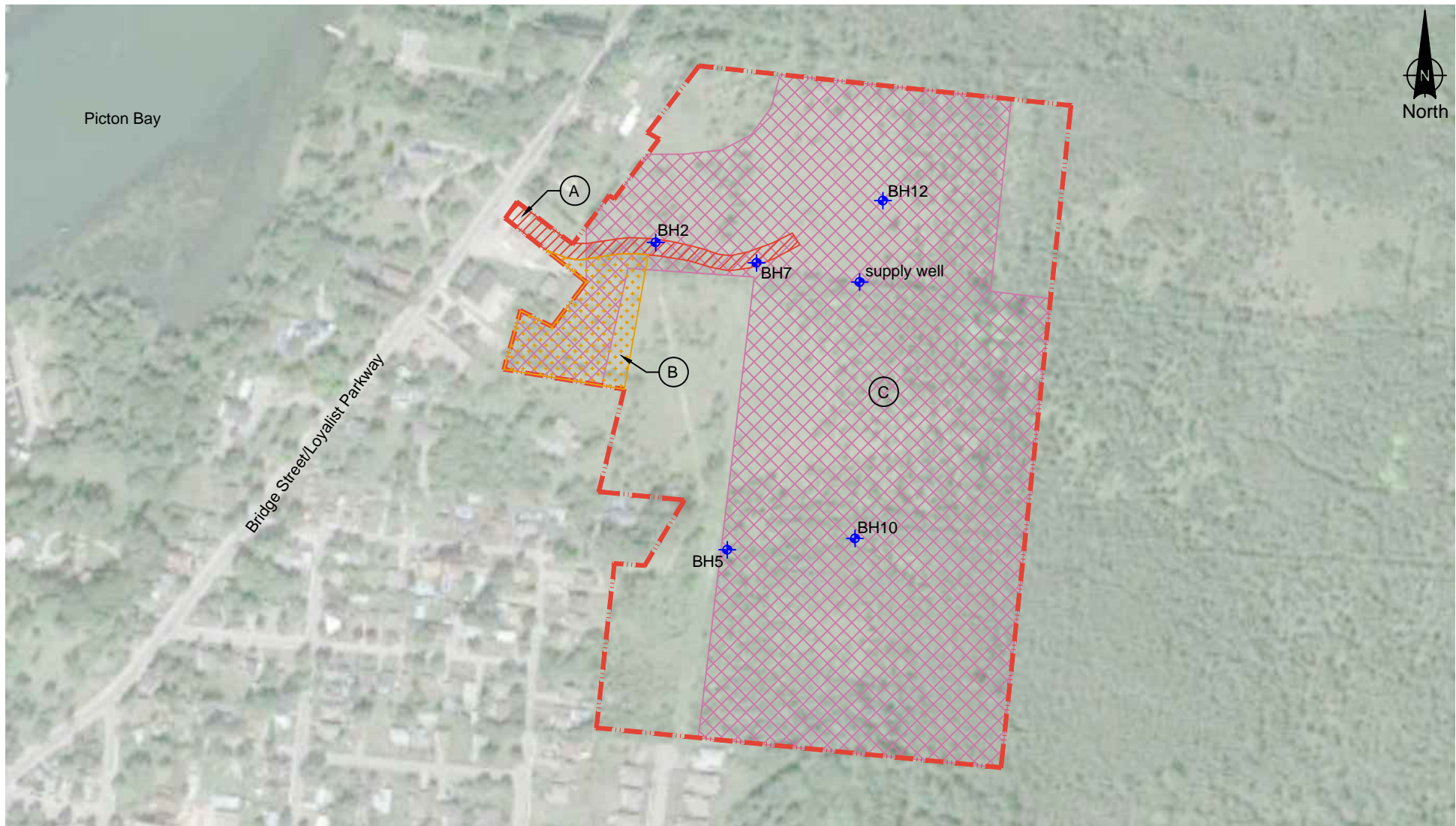
File: 1126-103.00

Figure






2

Approx. Scale (m)





Legend

-  approximate Phase One Property boundary
-  A - potential fill of an unknown source
-  B - current and historical automotive garage
-  C - potential pesticide use related to historical orchard
-  BH1 approximate well location

Note: Figure based on Malroz field observations, Google Earth imagery and Prince Edward County GIS Viewer.

Rev	Date	Description	By	Chkd
0	19/08/01	issued in final	ZL	DH

Site Plan and Areas of Potential Environmental Concern

Phase One ESA
12967 Loyalist Parkway
Prince Edward County, Ontario

File: 1126-103.00

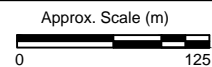


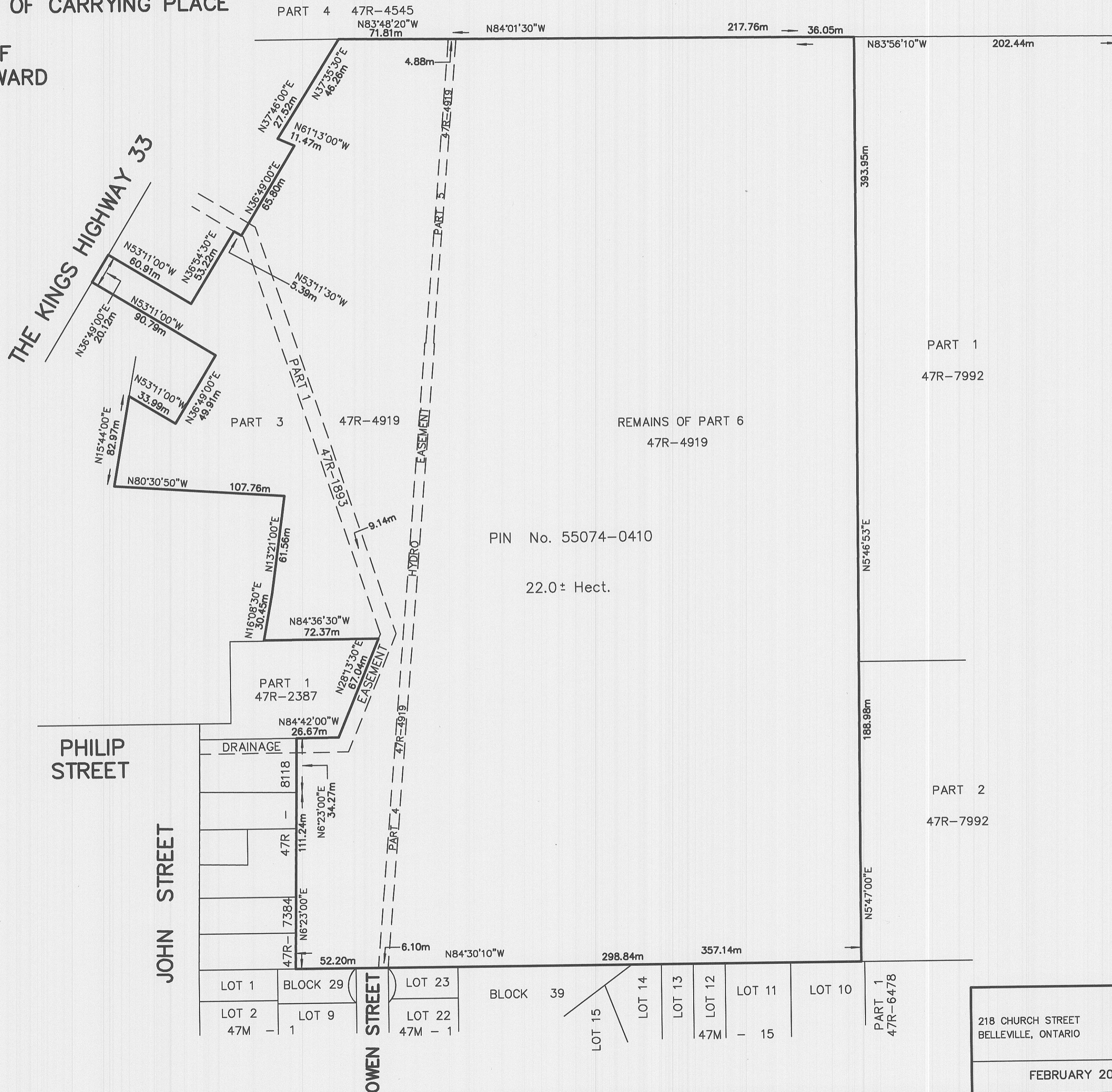
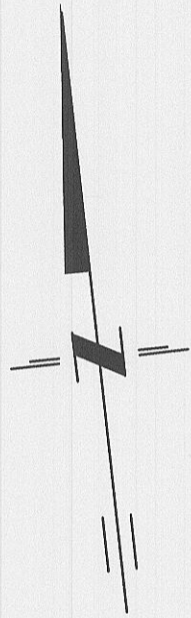
Figure 3



Appendix B
Phase One Property Survey

COMPILED SKETCH SHOWING
 PART OF LOTS 19 AND 20
 CONCESSION 1, SOUTH EAST OF CARRYING PLACE
 TOWNSHIP OF HALLOWELL
 NOW IN THE MUNICIPALITY OF
 THE COUNTY OF PRINCE EDWARD

METRIC SCALE 1 : 2000

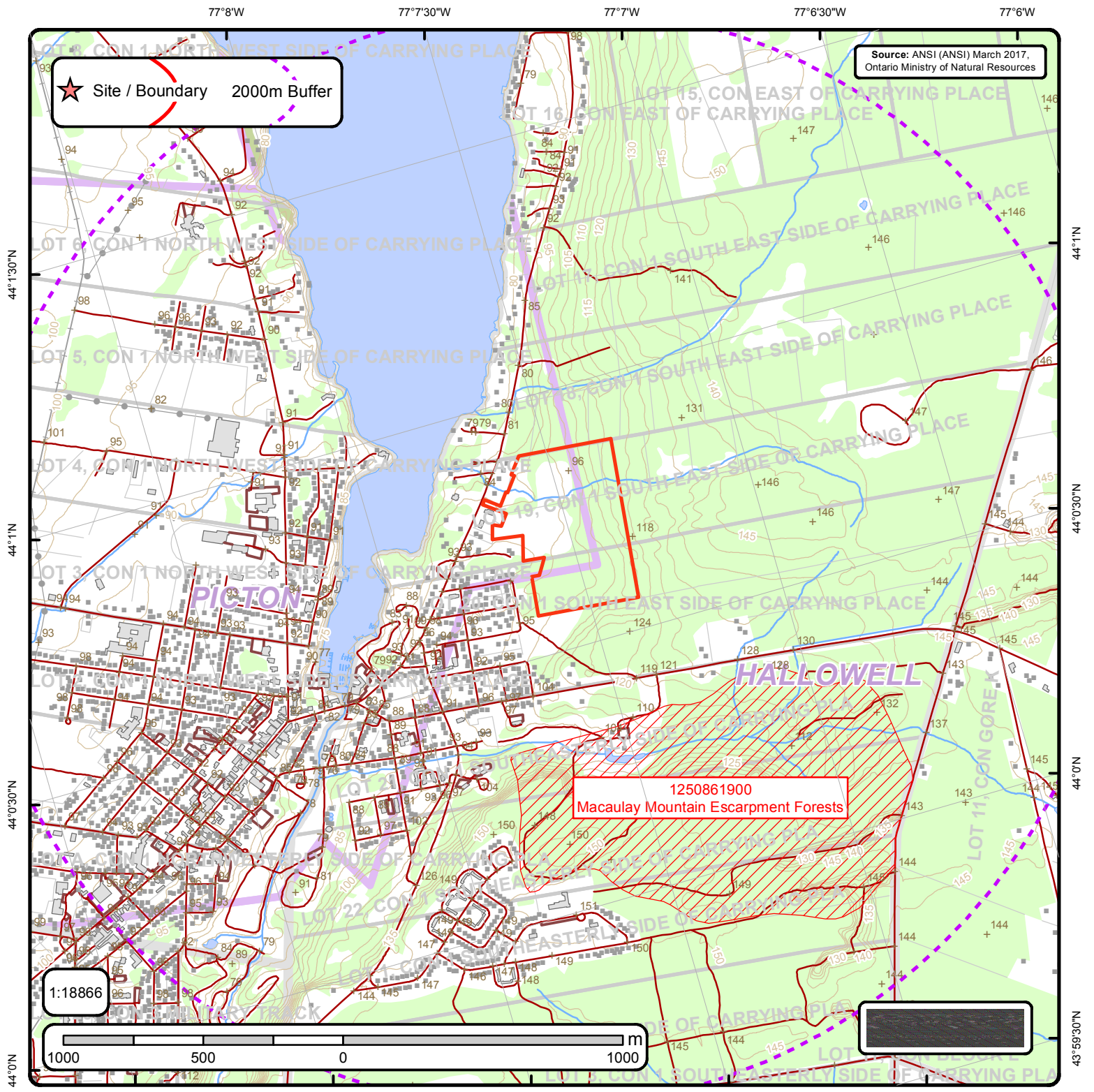


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218 CHURCH STREET BELLEVILLE, ONTARIO	WATSON LAND SURVEYORS Ltd.	K8N - 3C3 (613) 962 - 9521

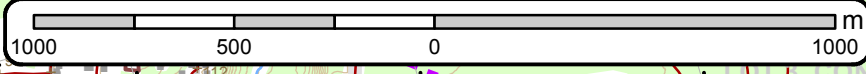
Appendix C
Topographic Map and Reference Maps



Source: ANSI (ANSI) March 2017, Ontario Ministry of Natural Resources

★ Site / Boundary 2000m Buffer

1:18866



Area of Natural & Scientific Interest (ANSI) Order No. 20190607188

+	Spot Height	—	Transportation Structure	—	Contour Line	■	Wooded Area
■	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⊙	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
- - -	Trail	■	Building to Scale	■	Land Ownership	■	ANSI Area

ANSI Report

ANSI Units Found within 2000 m of
12697 Loyalist Parkway, Prince Edward, ON, K0K

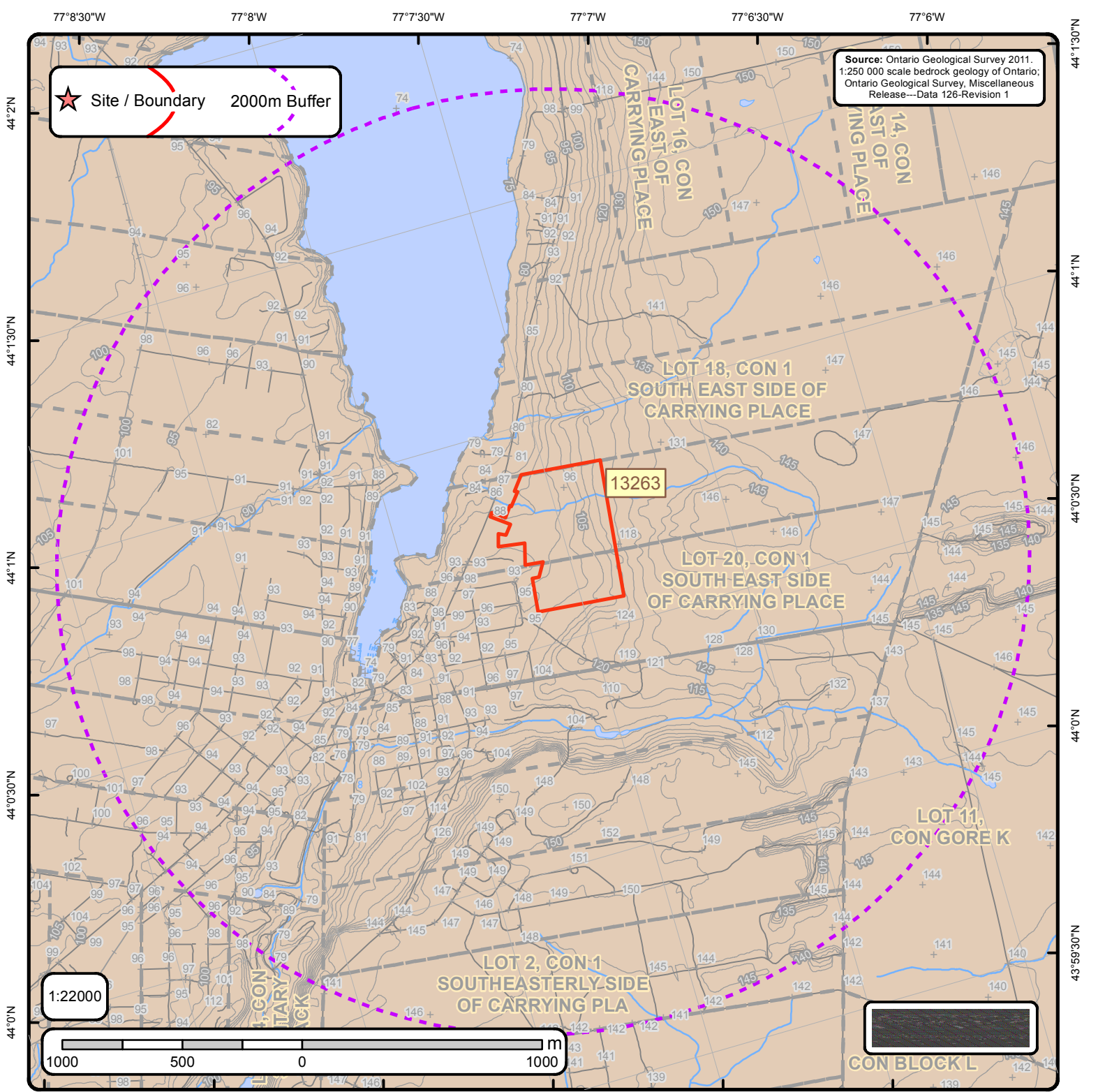
Page 1
Order ID:
20190607188



ANSI Name: Macaulay Mountain Escarpment Forests

ID: 1250861900 | **Type:** ANSI, Earth Science | **Significance:** Regional | **Management Plan:** No | **Area (sqm):** 960151.401 |

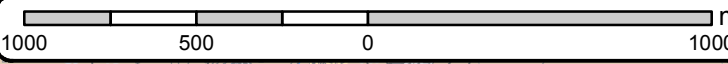
Comments:



Source: Ontario Geological Survey 2011.
 1:250 000 scale bedrock geology of Ontario;
 Ontario Geological Survey, Miscellaneous
 Release—Data 126-Revision 1

★ Site / Boundary 2000m Buffer

1:22000



Bedrock Geology of Ontario

Order No. 20190607188

Bedrock Geology Lines		Dikes		C Lines	
+ Spot Height	CONTACT, GEOPHYSICAL, TREND, INTERPRETED	Abitibi mafic dike	Marathon, Kapuskasing or Biscotasing mafic dike	— FOLD, ANTICLINE, INTERPRETED, UNKNOWN GENERATION	▲ Kimberlite
— Roads	CONTACT, SHARP, TREND, INTERPRETED	Biscotasing mafic dike	Matachewan mafic dike	— FOLD, ANTICLINE, OBSERVED, UNKNOWN GENERATION	
— Contour Lines	CONTACT, SHARP, TREND, OBSERVED	Empey Lake mafic dike	Molson mafic dike	— FOLD, ANTICLINE, SYNFORMAL, INTERPRETED, SECOND GENERATION	
— Streams	FAULT, DEXTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Felsic to intermediate intrusive rocks	North Channel mafic dike	— FOLD, ANTIFORM, INTERPRETED, UNKNOWN GENERATION	
— Railroads	FAULT, PROJECTED FAULT, INTERPRETED, UNKNOWN GENERATION	Fort Frances mafic dike	Pickle Crow mafic dike (Molson swarm) normal	— FOLD, SYNCLINE, INTERPRETED, UNKNOWN GENERATION	
— Lots	FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Frontenac mafic dike	Pickle Crow mafic dike (Molson swarm) reverse	— FOLD, SYNCLINE, OBSERVED, UNKNOWN GENERATION	
— Pit or Quarry	FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION	Grenville mafic dike	Rideau mafic dike	— FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION	
— Airports	FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, INTERPRETED, UNKNOWN GENERATION	Logan and Nipigon mafic sills	Subbury mafic dike		
— Waterbody	FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, OBSERVED, UNKNOWN GENERATION	Mackenzie mafic dike	Ultramafic, gabbroic and granophytic intrusions		
— Wetlands	FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Mafic dikes of uncertain age	Unsubdivided mafic dike		
	FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION	Mafic sills and dikes	Unsubdivided mafic dike (Keweenaw age)		
	NEATLINE	Marathon mafic dike	unknown		
	ONTARIO BORDER				
	Marble, chert, iron formation, minor metavolcanic rocks				

Bedrock Geology Report

Bedrock Geology units found within 2000 m of
12697 Loyalist Parkway, Prince Edward, ON, K0K

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Order ID:
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ID: 13263 | **Unit Name:** |

Type (All): 54a | **Type (Primary):** 54a | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Limestone, dolostone, shale, arkose, sandstone | **Strata (Primary):** Ottawa Group; Simcoe Group; Shadow Lake Formation | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** MIDDLE ORDOVICIAN (now considered UPPER DEVONIAN) | **Province (Primary):**

Bedrock Geology Report Metadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126 Revision1

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - Unit ID **Unit Name** - Generalized geological unit classification

Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon

Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

Rock Type (Primary) - Rock type or sub-unit description

Status (Primary) - The Stratigraphic unit. Divided into:

Supergroup (two or more groups and lone formations)
Group (two or more formations)
Formation (primary unit of lithostratigraphy)
Member (named lithologic subdivision of a formation)
Bed (named distinctive layer in a member or formation)

Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

ARCHEAN (2.5 Ga to <3.85 Ga)
PROTEROZOIC (0.542 Ga to 2.50 Ga)
PHANEROZOIC (Present to 542.0 Ma)

Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

MESOARCHEAN (2.8 Ga to 3.2 Ga)	MESOPROTEROZOIC (1.0 Ga to 1.6 Ga)
NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga)	EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga)
NEOARCHEAN (2.5 Ga to 2.8 Ga)	NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga)
PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga)	PALEOZOIC (251.0 Ma to 542.0 Ma)
MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga)	MESOZOIC (65.5 Ma to 251.0 Ma)

Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

CAMBRIAN (488.3 Ma to 542.0 Ma)
ORDOVICIAN (443.7 Ma to 488.3 Ma)
SILURIAN (416.0 Ma to 443.7 Ma)
DEVONIAN (359.2 Ma to 416.0 Ma)
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
JURASSIC (145.5 Ma to 199.6 Ma)
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)

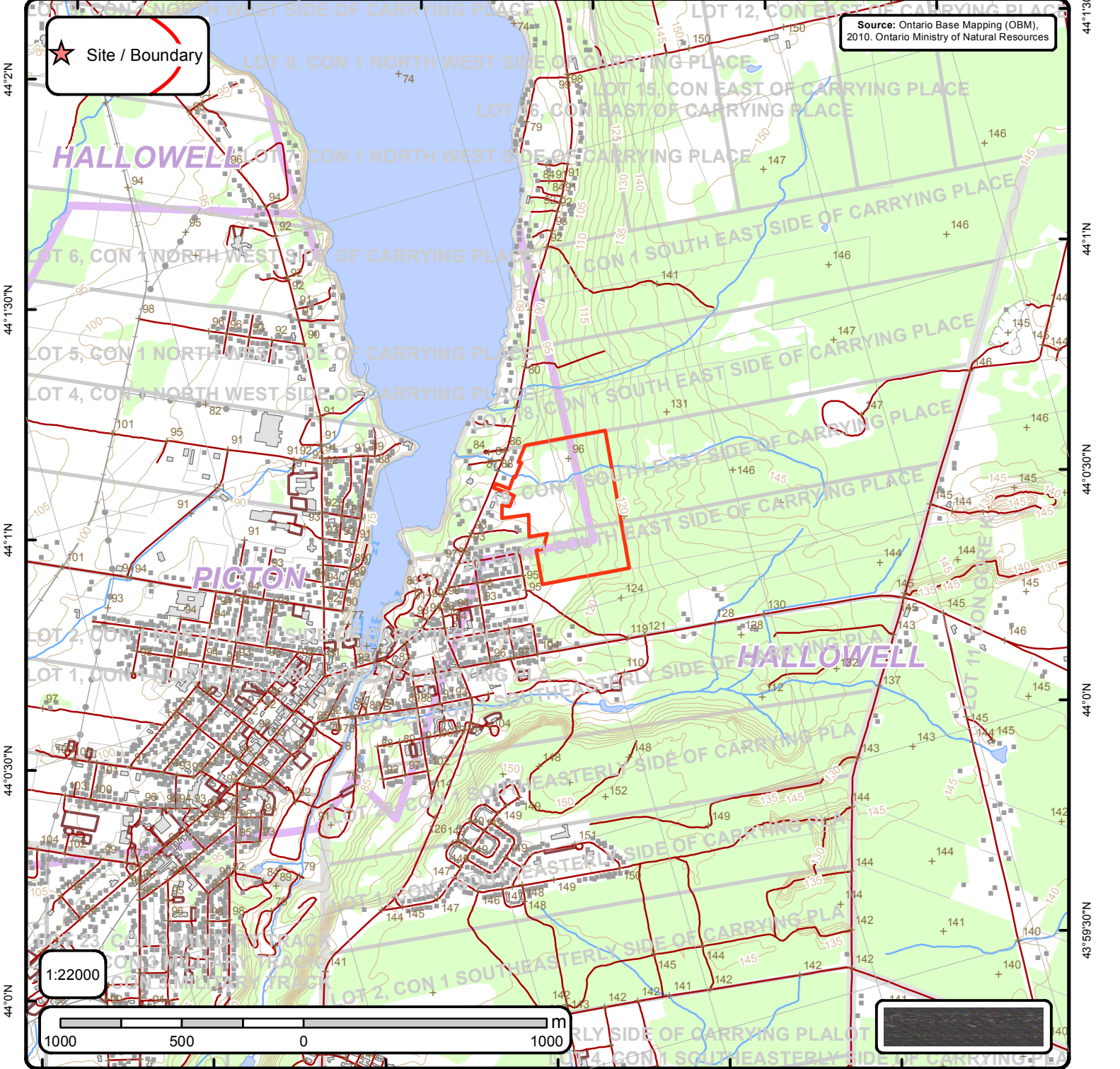
Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

LOWER ORDOVICIAN	UPPER SILURIAN
MIDDLE ORDOVICIAN	LOWER DEVONIAN
UPPER ORDOVICIAN	MIDDLE DEVONIAN
MIDDLE AND LOWER SILURIAN	UPPER DEVONIAN
UPPER SILURIAN TO LOWER DEVONIAN	LOWER CRETACEOUS AND MIDDLE JURASSIC

Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE

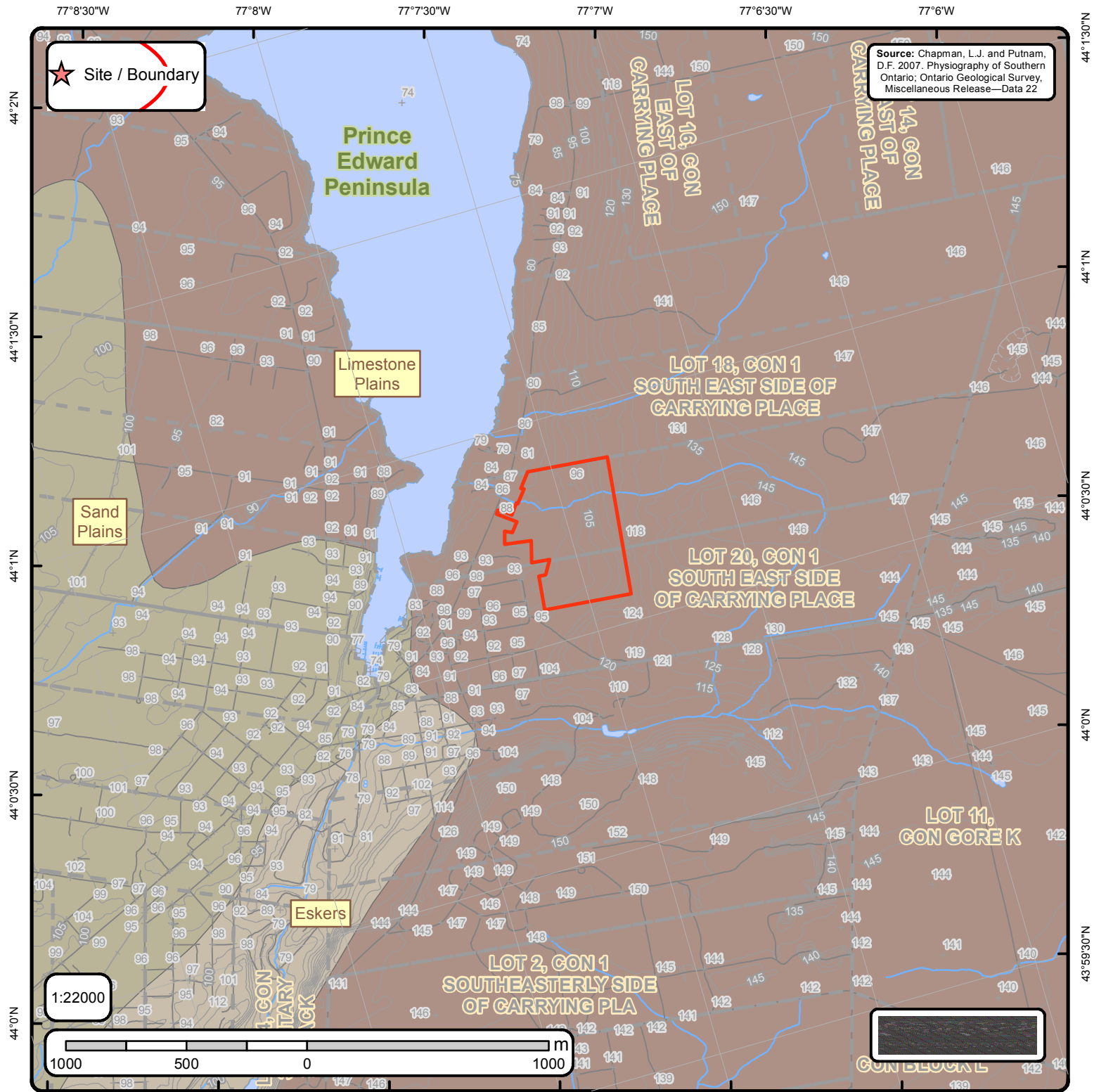
77°8'30"W 77°8'W 77°7'30"W 77°7'W 77°6'30"W 77°6'W



Ontario Base Mapping (OBM) Data

Order No. 20190607188

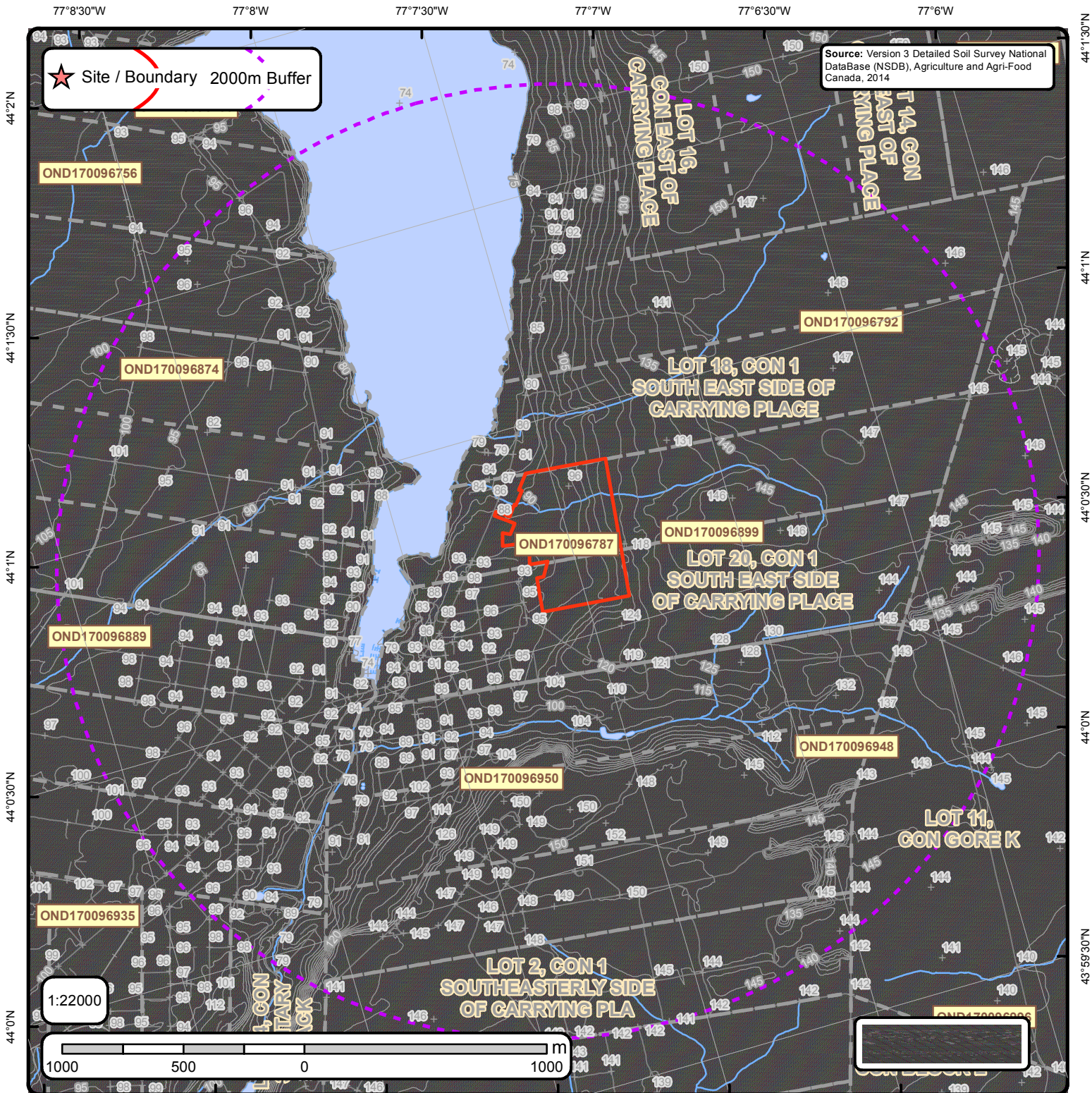
+ Spot Height (metre)	— Transportation Structure	— Contour Line	Wooded Area
■ Building Point	● Utility Line	▭ Pit or Quarry	▭ Conservation Authority
⊕ Towers	— Water Structure	▭ Waterbody	▭ Conservation Area
● Utility Site Point	— Drainage Line Feature	▭ Wetlands	▭ Municipal Park
— Misc. Line	— River or Stream	▭ Concession	▭ Provincial Park
— Railroads	▭ Airports	▭ Lots	▭ National Park
— Roads	▭ Tanks	▭ Municipality	▭ Nature Reserve
- - - Trail	▭ Building to Scale	▭ Land Ownership	



Physiography of Southern Ontario

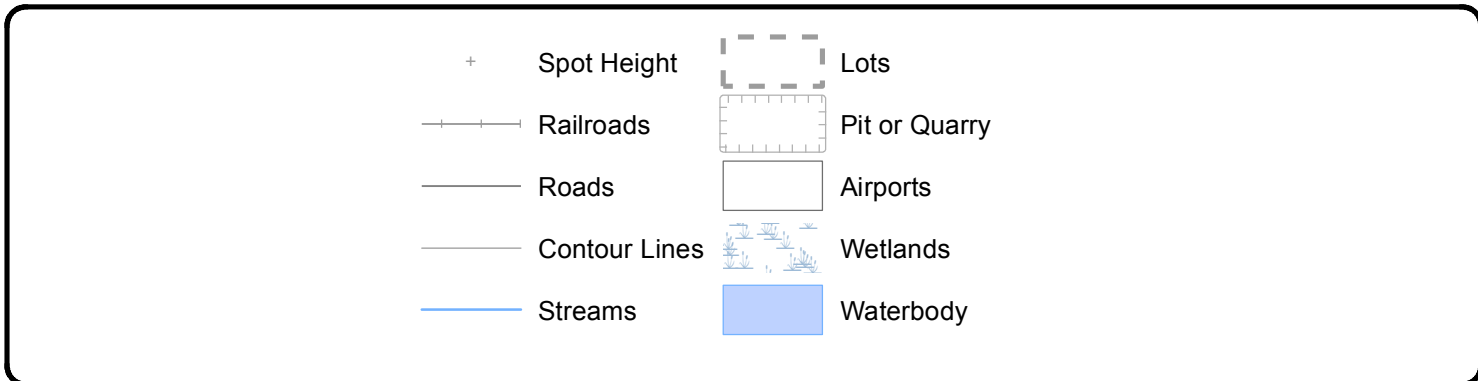
Order No. 20190607188

+ Spot Height	— Lots	◆ Boulder Pavement	■ Bare Rock Ridges And Shallow Till	■ Peat And Muck
— Roads	□ Pit or Quarry	◆ Dissected Terrain	■ Beaches	■ Sand Plains
— Railroads	□ Airports	■ Mud Flow Scars	■ Bevelled Till Plains	■ Shale Plains
— Contour Lines	■ Wetlands	▲ Sand Dunes	■ Clay Plains	■ Shallow Till And Rock Ridges
— Streams	■ Waterbody	— escarpment	■ Drumlins	■ Spillways
		— shorecliff	■ Escarpments	■ Till Moraines
		— shorecliff (weakly developed)	■ Eskers	■ Till Plains (Drumlinized)
		■ Physiography Regions	■ Kame Moraines	■ Till Plains (Undrumlinized)
			■ Limestone Plains	



Detailed Soil Survey (ON Soils)

Order No. 20190607188



Soils Report

Soil Map Units Found within 2000 m of
12697 Loyalist Parkway, Prince Edward, ON, K0K

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Order ID:
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Soil ID: OND170096889

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONPYO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : moderately coarse sandy loam | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 48 | **Total Sand(%)** : 82 | **Total Silt(%)** : 13 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 6.009 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-37 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 52 | **Total Sand(%)** : 94 | **Total Silt(%)** : 5 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 9.351 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 37-50 | **Horizon** : Bt | **Layer No** : 3 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 88 | **Total Silt(%)** : 4 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.603 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 50-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 67 | **Total Sand(%)** : 87 | **Total Silt(%)** : 11 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.806 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND170096889

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONPYO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 22.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : moderately coarse sandy loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 48 | **Total Sand(%)** : 82 | **Total Silt(%)** : 13 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 6.009 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-37 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 52 | **Total Sand(%)** : 94 | **Total Silt(%)** : 5 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 9.351 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 37-50 | **Horizon** : Bt | **Layer No** : 3 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 88 | **Total Silt(%)** : 4 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.603 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 50-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 67 | **Total Sand(%)** : 87 | **Total Silt(%)** : 11 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.806 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND170096899

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONDGT~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-30 | **Horizon** : Apk | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 45 | **Total Silt(%)** : 34 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 2.3 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.831 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 30-55 | **Horizon** : Ck | **Layer No** : 2 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 57 | **Total Silt(%)** : 32 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.8 | **Saturated Hydraulic Conductivity(cm/h)** : 1.227 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 55-100 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 38 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.709 | **Electrical Conductivity(dS/m)** : 0 |

Soils Report

Soil Map Units Found within 2000 m of
12697 Loyalist Parkway, Prince Edward, ON, K0K

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Soil ID: OND170096935

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONPCY~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 63 | **Total Silt(%)** : 26 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 1.6 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.494 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-30 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 14 | **Total Sand(%)** : 56 | **Total Silt(%)** : 33 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.887 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 30-38 | **Horizon** : Bt | **Layer No** : 3 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 51 | **Total Silt(%)** : 32 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.812 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 14 | **Total Sand(%)** : 49 | **Total Silt(%)** : 37 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.957 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND170096874

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONDGT~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-30 | **Horizon** : Apk | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 45 | **Total Silt(%)** : 34 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 2.3 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.831 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 30-55 | **Horizon** : Ck | **Layer No** : 2 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 57 | **Total Silt(%)** : 32 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.8 | **Saturated Hydraulic Conductivity(cm/h)** : 1.227 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 38 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.709 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND170096787

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONAUG~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 44 | **Total Silt(%)** : 37 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.604 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-33 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 48 | **Total Silt(%)** : 35 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.902 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-100 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 61 | **Total Silt(%)** : 30 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.695 | **Electrical Conductivity(dS/m)** : 0

Soils Report

Soil Map Units Found within 2000 m of
12697 Loyalist Parkway, Prince Edward, ON, K0K

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Soil ID: OND170096860

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONDGT~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-30 | **Horizon** : Apk | **Layer No** : 1 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 45 | **Total Silt(%)** : 34 | **Total Clay(%)** : 21 | **Organic Carbon(%)** : 2.3 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.831 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 30-55 | **Horizon** : Ck | **Layer No** : 2 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 57 | **Total Silt(%)** : 32 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.8 | **Saturated Hydraulic Conductivity(cm/h)** : 1.227 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 48 | **Total Silt(%)** : 38 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.709 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND170096948

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONGOW~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Apk | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 28 | **Total Silt(%)** : 35 | **Total Clay(%)** : 37 | **Organic Carbon(%)** : 1.6 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Ckg | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 26 | **Total Silt(%)** : 33 | **Total Clay(%)** : 41 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.154 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 25 | **Total Silt(%)** : 35 | **Total Clay(%)** : 40 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.155 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND170096792

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 44 | **Total Silt(%)** : 44 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 3.7 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-38 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-50 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 57 | **Total Silt(%)** : 36 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 1.3 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 1.979 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : R | **Layer No** : 4 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soils Report

Soil Map Units Found within 2000 m of
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20190607188



Soil ID: OND170096908

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONAUG~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 44 | **Total Silt(%)** : 37 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.604 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-33 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 48 | **Total Silt(%)** : 35 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.902 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-100 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 61 | **Total Silt(%)** : 30 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.695 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND170096730

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONAUG~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 44 | **Total Silt(%)** : 37 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.604 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-33 | **Horizon** : Bmk | **Layer No** : 2 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 48 | **Total Silt(%)** : 35 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.902 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-100 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 61 | **Total Silt(%)** : 30 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.695 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND170096950

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Exceedingly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of consolidated bedrock within one metre of the soil surface | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soils Report

Soil Map Units Found within 2000 m of
12697 Loyalist Parkway, Prince Edward, ON, K0K

Page 5
Order ID:
20190607188

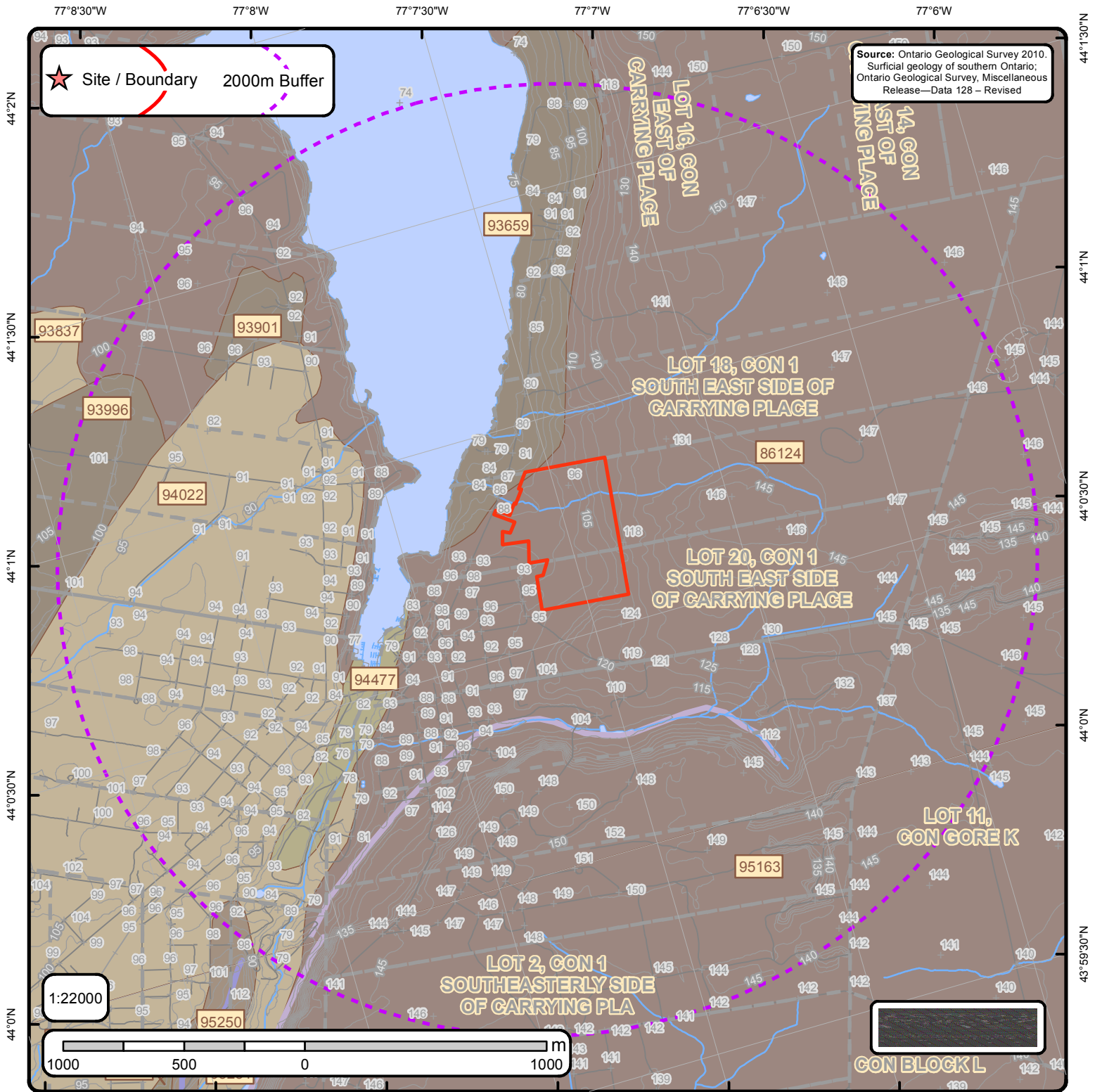


Soil ID: OND170096456

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONPYO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : coarse sand and loamy sand | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 48 | **Total Sand(%)** : 82 | **Total Silt(%)** : 13 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 6.009 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-37 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 52 | **Total Sand(%)** : 94 | **Total Silt(%)** : 5 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 9.351 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-50 | **Horizon** : Bt | **Layer No** : 3 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 88 | **Total Silt(%)** : 4 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.603 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 67 | **Total Sand(%)** : 87 | **Total Silt(%)** : 11 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.806 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND170096456

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONPYO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 22.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : coarse sand and loamy sand | **Field Crops Capability** : Natural grazing only; no improvements feasible. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 48 | **Total Sand(%)** : 82 | **Total Silt(%)** : 13 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 1.4 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 6.009 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-37 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 52 | **Total Sand(%)** : 94 | **Total Silt(%)** : 5 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 9.351 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-50 | **Horizon** : Bt | **Layer No** : 3 | **Very Fine Sand(%)** : 43 | **Total Sand(%)** : 88 | **Total Silt(%)** : 4 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.603 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-100 | **Horizon** : Ck | **Layer No** : 4 | **Very Fine Sand(%)** : 67 | **Total Sand(%)** : 87 | **Total Silt(%)** : 11 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.806 | **Electrical Conductivity(dS/m)** : 0 |



The Surficial Geology of Southern Ontario Order No. 20190607188

+	Spot Height	—	Streams		Dune		Beach		Esker		karst		pitsg
	Waterbody	—	Contour Lines		Lake		Bluff		Esker ND		lineat		popup
	Wetlands	—	Roads		Rib		Crevasse		Fluvial DL		megarip		ribl
	Airports	—	Railroads		Scab		Crest		fluvndl		mfluvdl		slidsl
	Pit or Quarry		Morains		Slide		End		iceberg		mfluvndl		slumpb
	Lots		NOF Dune		Escarpment		icslope		moraine		terrace		

Surface Geology Report

Surface Geology units found within 2000 m of
12697 Loyalist Parkway, Prince Edward, ON, K0K

Page 1
Order ID:
20190607188



ID: 86124 | **Unit Name:** Bedrock |
Deposit Type Code: 2 | **Deposit Age:** Middle Ordovician | **Map Number:** p2540 | **Map Name:** Belleville | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or With Less Than 1 m Of Drift Cover

ID: 93659 | **Unit Name:** Till |
Deposit Type Code: 3 | **Deposit Age:** Pleistocene | **Map Number:** p2540 | **Map Name:** Belleville | **Source Map Scale:** 1:50 000 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** NE, SE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Silty To Sandy, Moderately Stony

ID: 93901 | **Unit Name:** Till |
Deposit Type Code: 3 | **Deposit Age:** Pleistocene | **Map Number:** p2540 | **Map Name:** Belleville | **Source Map Scale:** 1:50 000 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** NE, SE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Silty To Sandy, Moderately Stony

ID: 93996 | **Unit Name:** Till |
Deposit Type Code: 3 | **Deposit Age:** Pleistocene | **Map Number:** p2540 | **Map Name:** Belleville | **Source Map Scale:** 1:50 000 |
Primary Material: diamicton | **Primary Material Modifier:** sandy silt | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** NE, SE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Silty To Sandy, Moderately Stony

ID: 94022 | **Unit Name:** Glaciolacustrine Shallow Water Deposits |
Deposit Type Code: 8 | **Deposit Age:** Pleistocene | **Map Number:** p2540 | **Map Name:** Belleville | **Source Map Scale:** 1:50 000 |
Primary Material: silt, sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Massive To Laminated Or Bedded Sand, Silt

Surface Geology Report

Surface Geology units found within 2000 m of
12697 Loyalist Parkway, Prince Edward, ON, K0K

Page 2
Order ID:
20190607188



ID: 94477 | **Unit Name:** Glaciolacustrine Deeper Water Deposits |
Deposit Type Code: 7 | **Deposit Age:** Pleistocene | **Map Number:** p2540 | **Map Name:** Belleville | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Varved Or Laminated Silt, Clay

ID: 94903 | **Unit Name:** Glaciofluvial Ice-Contact Deposits |
Deposit Type Code: 5 | **Deposit Age:** Pleistocene | **Map Number:** p2540 | **Map Name:** Belleville | **Source Map Scale:** 1:50 000 |
Primary Material: sand, gravel | **Primary Material Modifier:** | **Secondary Material:** silt, diamicton | **Primary General:** glaciofluvial |
Primary General Modifier: ice-contact | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel, Gravelly, Sand, Minor Silt And Till

ID: 95163 | **Unit Name:** Bedrock |
Deposit Type Code: 2 | **Deposit Age:** Middle Ordovician | **Map Number:** p2541 | **Map Name:** Wellington | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Bedrock; exposed or with less than 1m of drift cover

ID: 95251 | **Unit Name:** Glaciolacustrine Shallow Water Deposits |
Deposit Type Code: 8 | **Deposit Age:** Pleistocene | **Map Number:** p2541 | **Map Name:** Wellington | **Source Map Scale:** 1:50 000 |
Primary Material: silt, sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Massive To Laminated Or Bedded Sand, Silt

Surface Geology Report Metadata

Ontario Geological Survey 2010. Surficial geology of southern Ontario;
Ontario Geological Survey, Miscellaneous Release - Data 128 - Revised.

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier - This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

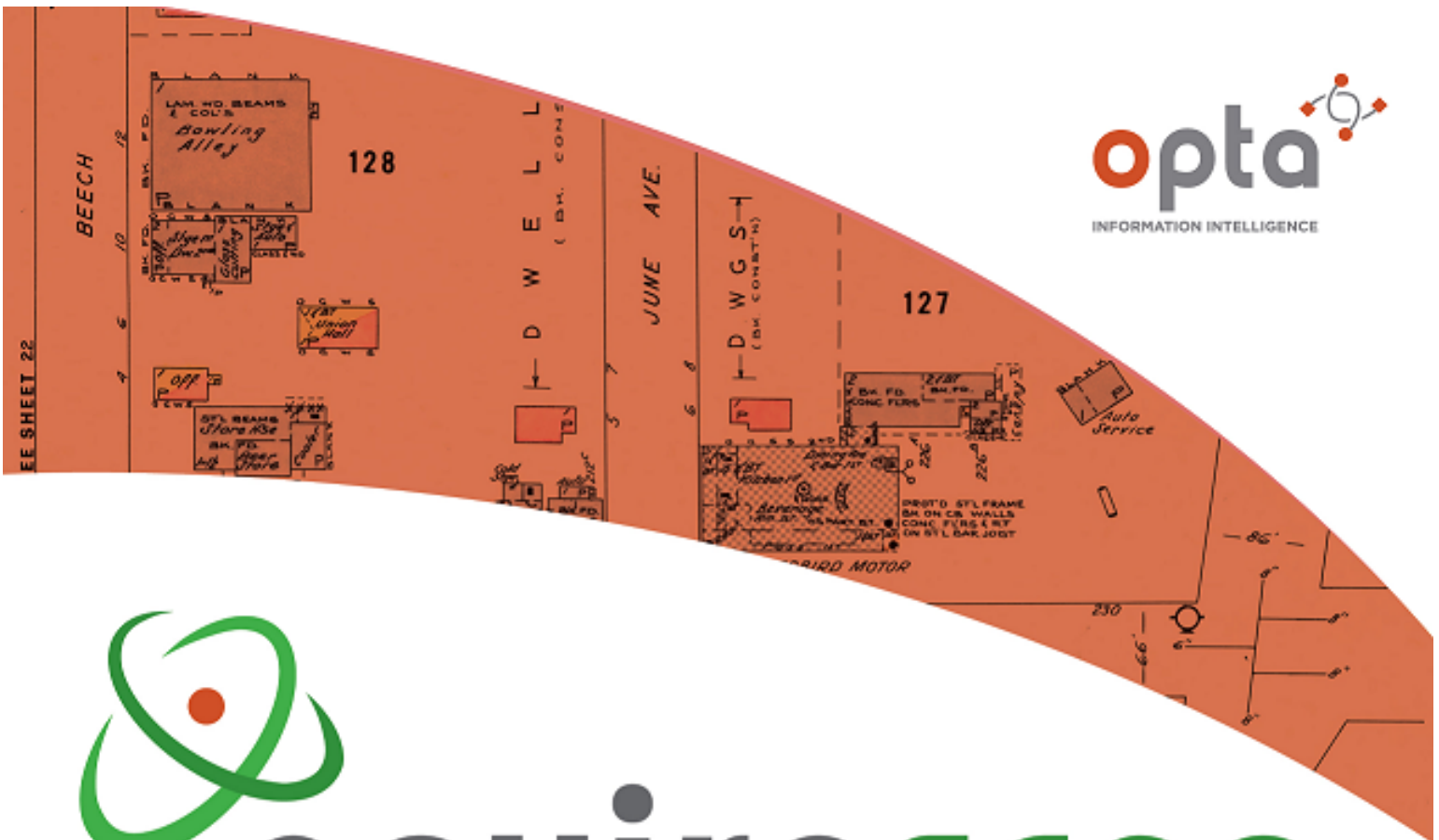
Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.

Appendix D
Fire Insurance Plan



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:
Swati

Site Address:

1126 Hilden Homes Prince Edward ON Canada

Project No:

20190726044
Opta Order ID:
64042

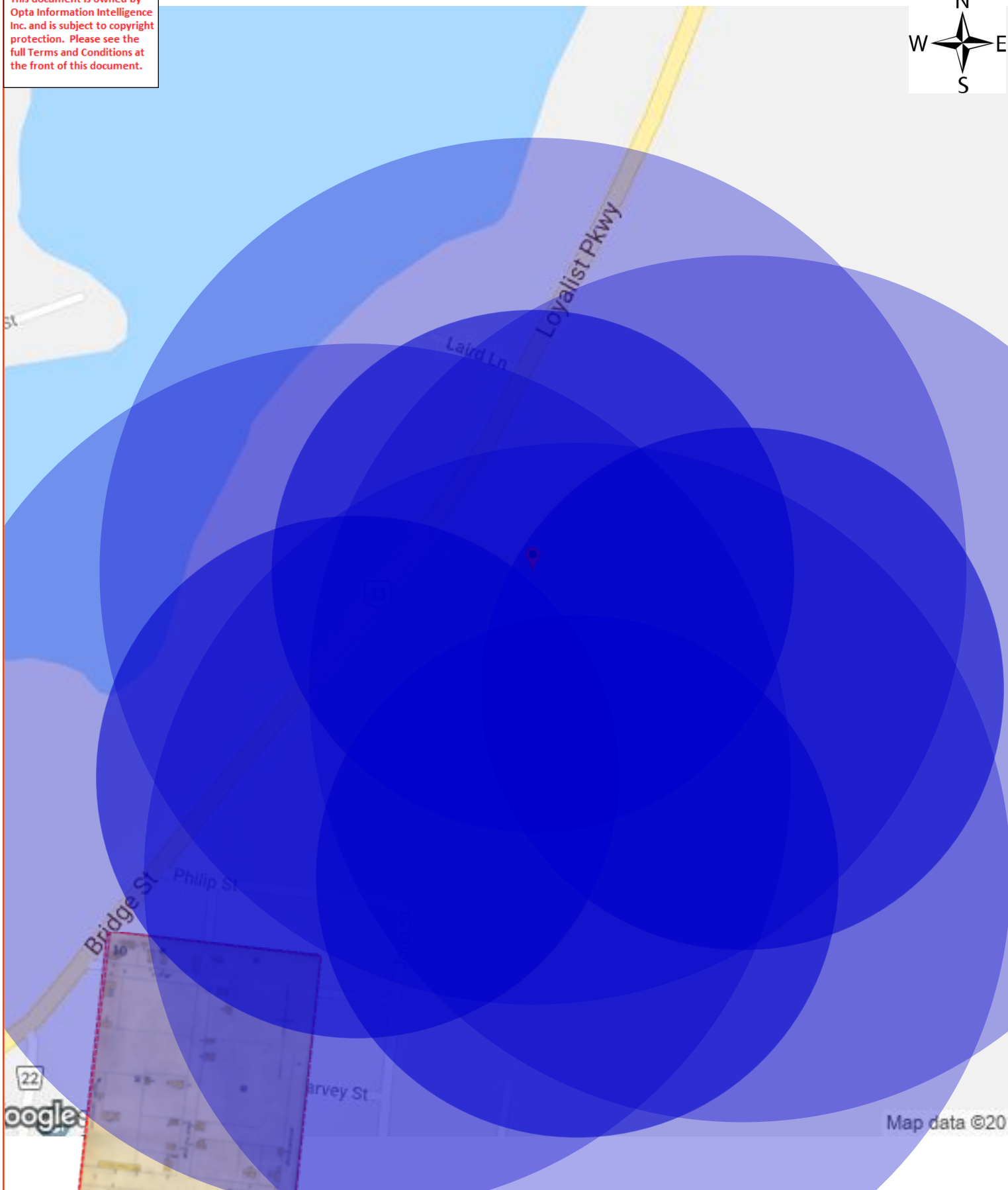
Requested by:

Eleanor Goolab
Ecolog ERIS

Date Completed:

7/29/2019 12:41:20 PM

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This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.



Report Index

Project #: 20190726044
P.O. #: 1126

Requested by:
Eleanor Goolab
Date Completed: 07/29/2019 12:41:20

OPTA INFORMATION INTELLIGENCE

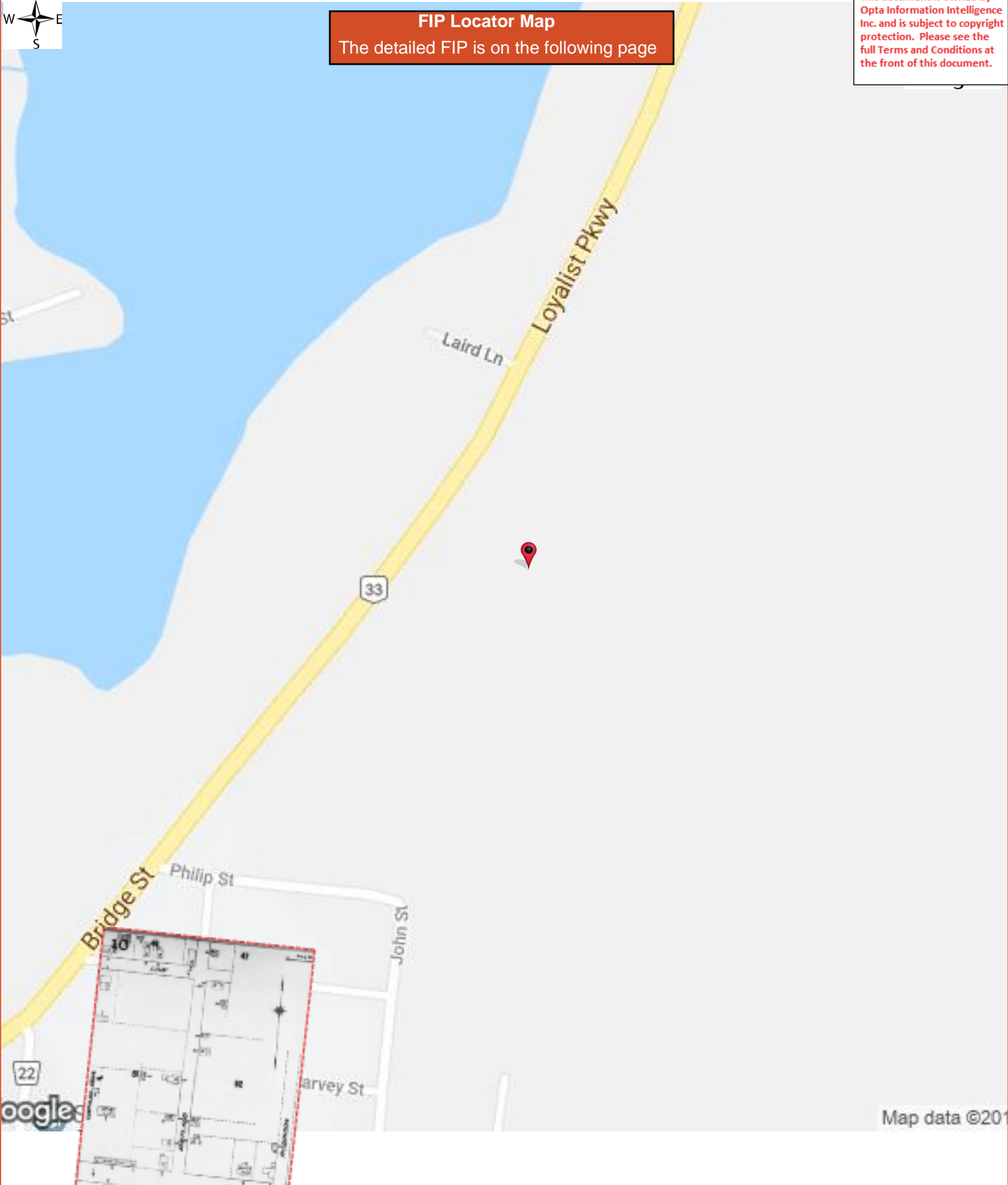
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6	(1917) Volume: Picton Firemap: 10
8	(1924) Volume: Picton Firemap: 10

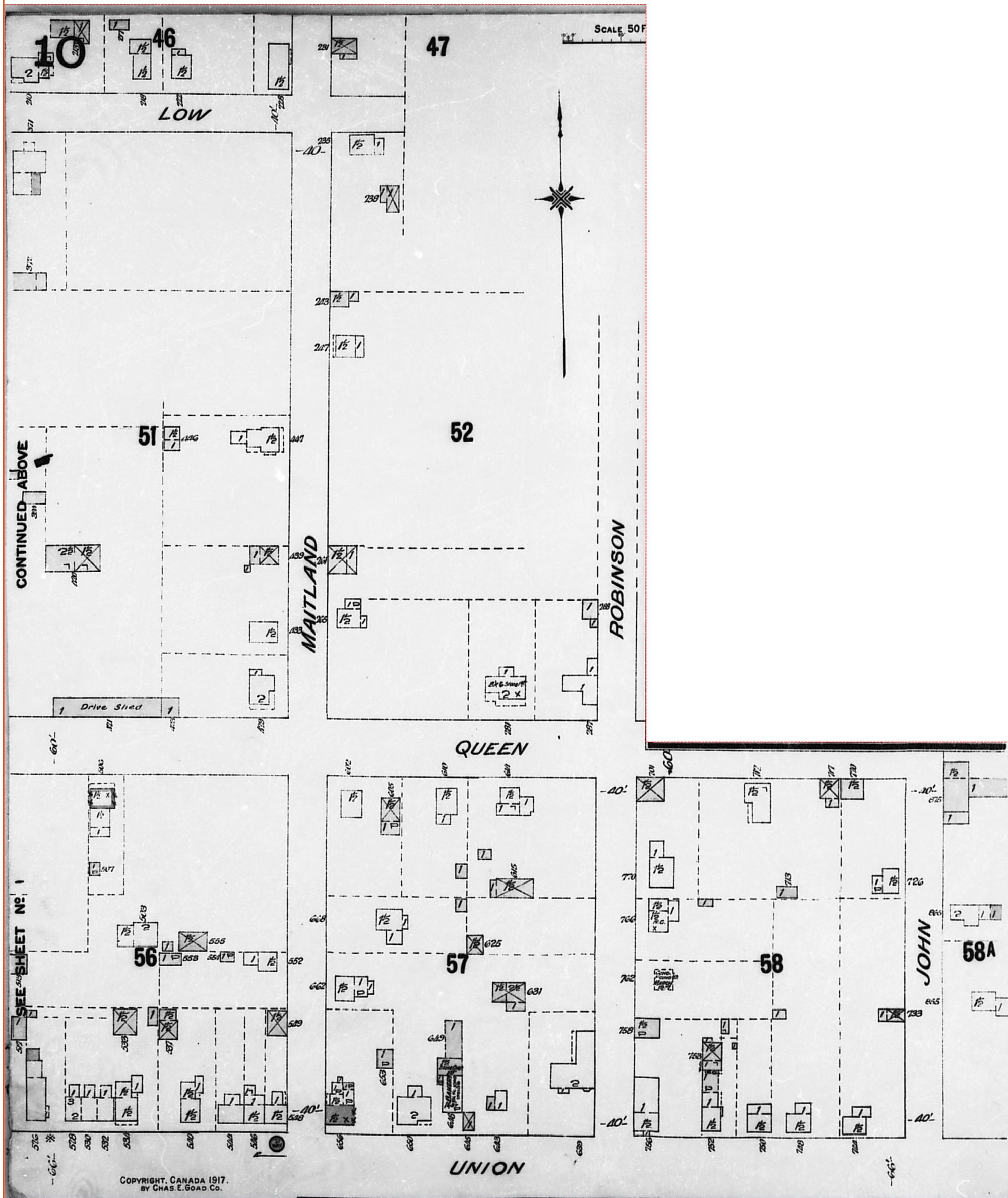




FIP Locator Map
The detailed FIP is on the following page

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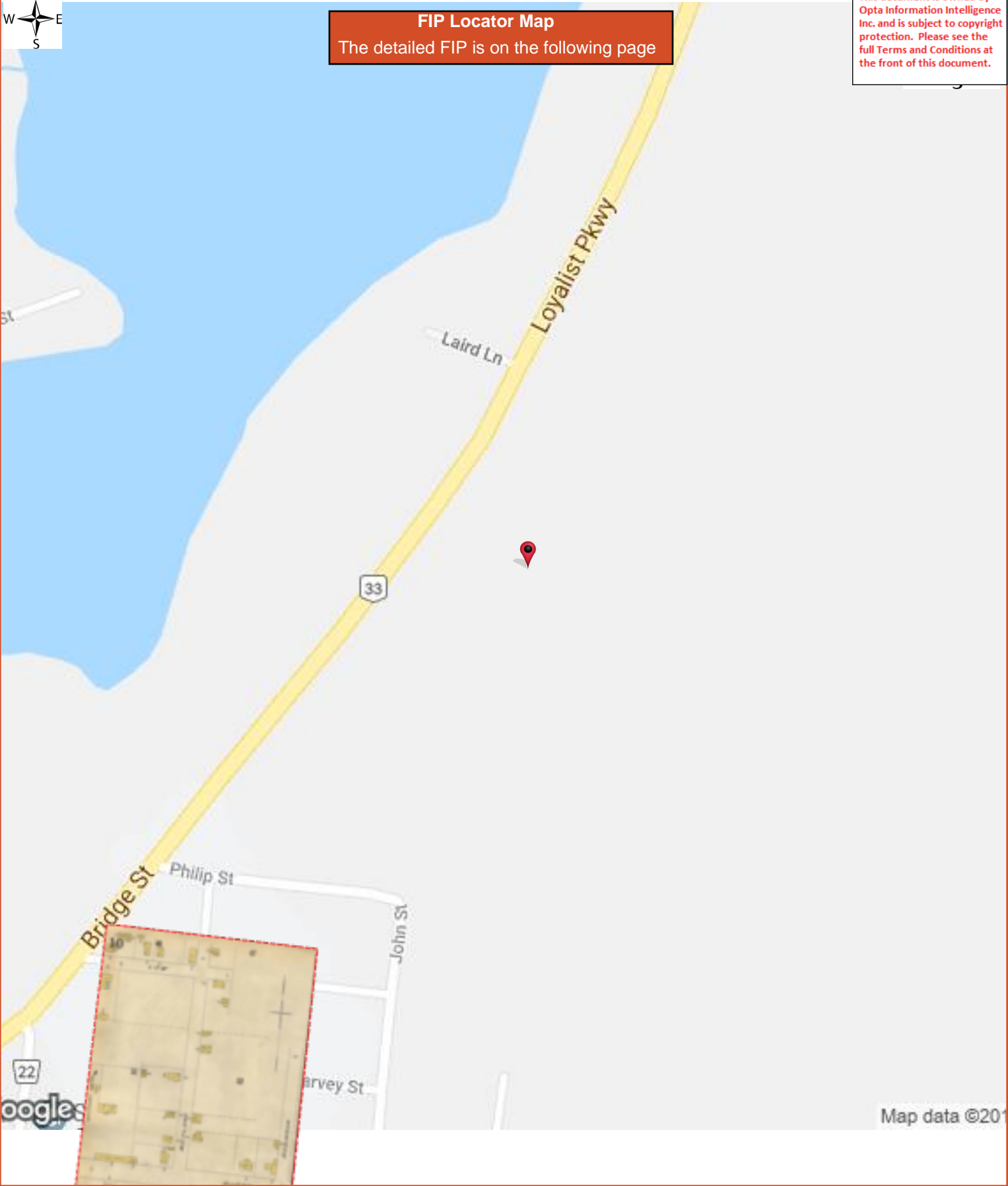






FIP Locator Map
The detailed FIP is on the following page

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Appendix E
Title Information

CHAIN OF TITLE REPORT

Project # 20190607188
 Address: 12967 Loyalist Parkway, Prince Edward
 Legal Pt Lts 19 & 20 Con SE Carrying Place
 Description: Parts 3 - 6, 47R4919 & Pt 2, 47R8220

Searched at: Picton
 LRO #: 47

Page 1

**** Records are not Legible Prior to 1836 ****

PIN# 55074-0521 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
5156	Deed	08 02 1836	??	Philip LOW
6483	Deed	04 09 1884	Philip Low	John LAIRD
11045	Deed	03 03 1908	John Laird	James VALLEAU
11600	Deed	14 02 1911	James Valleau	Charles WATSON
11810	Deed	10 02 1912	Charles Watson	Frederick WATSON & John WATSON
12335	Deed	09 09 1915	Frederick Watson & John Watson	James Alvin Roy POWELL
13944	Deed	09 02 1924	James Alvin Roy Powell	Sarah LAIRD
15325	Deed	10 03 1934	Sarah Laird	George THOMPSPN
15972	Easement	23 05 1940	George Thompson	The Hydro-Electric Power Commission of Ontario

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project # 20190607188
 Address: 12967 Loyalist Parkway, Prince Edward
 Legal Pt Lts 19 & 20 Con SE Carrying Place
 Description: Parts 3 - 6, 47R4919 & Pt 2, 47R8220

Searched at: Picton
 LRO #: 47

Page 2

PIN# 55074-0521 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
HW15977	Easement	23 05 1940	George Thompson	The H. E. P. Commission of Ontario
17082	Deed	25 10 1948	George Thompson	Ross Leon PEARSOLL
63563	Deed	09 03 1976	Ross Leon Pearsoll - Estate	Harry Denton WILLIAMS
PE79483	Easement	31 10 1980	Harry Denton Williams	The Corporation of the Town of Picton
94477	Deed	08 11 1985	Ross Leon Pearsoll - Estate	Harry Denton WILLIAMS
PE158651	Deed (lands in 17082 & 94477)	05 10 2001	Harry Denton Williams - Estate	Denton David WILLIAMS & Tammy WILLIAMS
EC80	Deed	08 09 2006	Denton David Williams & Tammy Williams	Giuseppe Franzo ROMANO
EC3568	Deed	19 02 2008	Giuseppe Franzo Romano	850958 Ontario Ltd.
EC5985	Deed	01 08 2008	850958 Ontario Ltd.	David Clegg Holdings Limited

Cont'd on Page 3

CHAIN OF TITLE REPORT

Project # 20190607188
Address: 12967 Loyalist Parkway, Prince Edward
Legal Pt Lts 19 & 20 Con SE Carrying Place
Description: Parts 3 - 6, 47R4919 & Pt 2, 47R8220

Searched at: Picton
LRO #: 47

Page 3

PIN# 55074-0521 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
EC45583	Name Change	14 09 2017	David Clegg Holdings Limited	David Clegg Management Services Inc.
EC45622	Deed (Present Owner)	15 09 2017	David Clegg Management Services Inc.	Hilden Homes Ltd.

CHAIN OF TITLE REPORT

Project # 20190607188
 Address: 12967 Loyalist Parkway, Prince Edward
 Legal Pt Lts 1080 & 1081 Plan 24
 Description: Parts 3, 4, 5 & 6 47R4919

Searched at: Picton
 LRO #: 47

Page 1

**** Records are not Legible Prior to 1874 ****

PIN# 55074-0521 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
3728	Deed	12 12 1874	Charles McCauley	George LAIRD
11044	Deed	03 03 1908	George Laird	John LAIRD
11045	Deed	03 03 1908	John Laird	James Smith VALLEAU
9645	Deed	16 02 1911	James Smith Valleau	Charles WATSON
10039	Deed	10 02 1912	Charles Watson	Frederick WATSON & John WATSON
10722	Deed	09 09 1915	Frederick Watson & John Watson	James Alvin Roy POWELL
12374	Deed	09 02 1924	James Alvin Roy Powell	Sarah LAIRD
13864	Deed	10 07 1934	Sarah Laird	George THOMPSPN
15972	Easement	23 05 1940	George Thompson	The Hydro-Electric Power Commission of Ontario

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project # 20190607188
 Address: 12967 Loyalist Parkway, Prince Edward
 Legal Pt Lts 1080 & 1081 Plan 24
 Description: Parts 3, 4, 5 & 6 47R4919

Searched at: Picton
 LRO #: 47

Page 2

PIN# 55074-0521 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
HW15977	Easement	23 05 1940	George Thompson	The H. E. P. Commission of Ontario
16361	Deed	25 10 1948	George Thompson	Ross Leon PEARSOLL
PE116216	Deed	31 07 1990	Ross Leon Pearsoll - Estate	850958 Ontario Limited
EC5985	Deed	01 08 2008	850958 Ontario Limited	David Clegg Holdings Limited
EC45583	Name Change	14 09 2017	David Clegg Holdings Limited	David Clegg Management Services Inc.
EC45622	Deed (Present Owner)	15 09 2017	David Clegg Management Services Inc.	Hilden Homes Ltd.

LAND
 REGISTRY
 OFFICE #47

55074-0521 (LT)

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

PROPERTY DESCRIPTION: PART LOT 20, CON SE CARRYING PLACE HALLOWELL, BEING PART 2, 47R8220; PRINCE EDWARD, AND PART LOTS 1080 & 1081 PLAN 24, PICTON, PART LOTS 19 & 20 ,CON SE CARRYING PLACE HALLOWELL, PARTS 3, 4, 5 & 6, 47R4919, S/T HW15972, HW15977, PE79483 EXCEPT PARTS 1, 2 & 3 47R7992 & PARTS 1 & 4 47R8118; PRINCE EDWARD; COUNTY OF PRINCE EDWARD

PROPERTY REMARKS: PLANNING ACT CONSENT AS IN EC3568.

ESTATE/QUALIFIER: RECENTLY:
 FEE SIMPLE CONSOLIDATION FROM 55074-0410, 55074-0415
 LT CONVERSION QUALIFIED

PIN_CREATION_DATE:
 2018/12/03

OWNERS' NAMES CAPACITY SHARE
 HILDEN HOMES LTD.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2018/12/03 **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
** AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF						
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY						
** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 2006/07/24 **						
PCPL24	1878/10/21	PLAN SUBDIVISION				C
HW15972	1940/05/23	TRANSFER EASEMENT REMARKS: SKETCH ATTACHED.			THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO	C
HW15977	1940/05/23	TRANSFER EASEMENT REMARKS: SKETCH ATTACHED.			THE H. E. P. COMMISSION OF ONT.	C
PE40359	1968/10/08	ORDER				C
47R1893	1979/11/27	PLAN REFERENCE				C
PE79483	1980/10/31	TRANSFER EASEMENT			THE CORPORATION OF THE TOWN OF PICTON	C
47R4919	1990/06/26	PLAN REFERENCE				C
47R8118	2007/10/31	PLAN REFERENCE				C

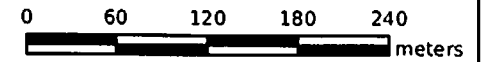
NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
 NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

* 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
47R8220	2008/10/22	PLAN REFERENCE				C
EC12044	2009/11/12	LR'S ORDER REMARKS: TO AMEND T/N AND REMOVE "1".		LAND REGISTRAR, LRO NO. 47		C
EC45622	2017/09/15	TRANSFER REMARKS: PLANNING ACT STATEMENTS.	\$2,000,000	DAVID CLEGG MANAGEMENT SERVICES INC.	HILDEN HOMES LTD.	C
EC45623	2017/09/15	CHARGE	\$1,500,000	HILDEN HOMES LTD.	DAVID CLEGG MANAGEMENT SERVICES INC.	C
EC50787	2018/10/25	APL CONSOLIDATE		HILDEN HOMES LTD.		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.

SCALE



PROPERTY INDEX MAP

PRINCE EDWARD(No. 47)

LEGEND

- FREEMOLD 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

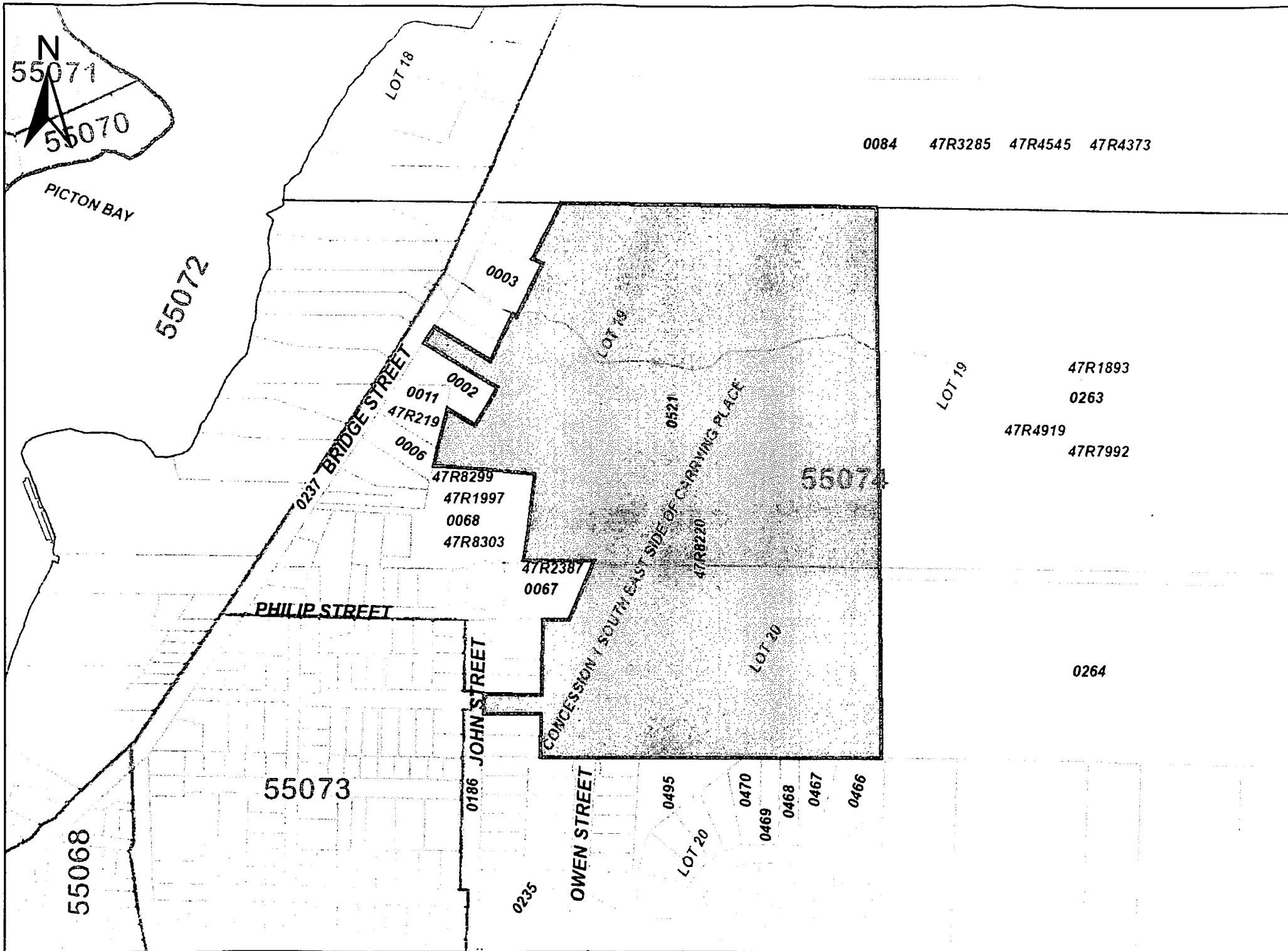
REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

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



Appendix F
***ERIS* Report**



DATABASE REPORT

Project Property: *1126 - Hilden Homes
12697 Loyalist Parkway
Prince Edward ON K0K
1126*

Project No: *1126*

Report Type: *RSC Report - Quote*

Order No: *20190607188*

Requested by: *Malroz Engineering Inc.*

Date Completed: *June 13, 2019*

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Executive Summary

Property Information:

Project Property: 1126 - Hilden Homes
12697 Loyalist Parkway Prince Edward ON K0K

Project No: 1126

Order Information:

Order No: 20190607188
Date Requested: June 7, 2019
Requested by: Malroz Engineering Inc.
Report Type: RSC Report - Quote

Historical/Products:

Aerial Photographs Aerials - National Collection - .tiff files
City Directory Search CD - Subject Site plus 20 Adjacent Properties
Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans
Land Title Search Historical Land Title Search
Topographic Map Ontario Base Map (OBM)

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	1	1
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	0	2	2
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	4	4
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 TSSA Expired Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	2	2
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
MNR	<i>Mineral Occurrences</i>	Y	0	1	1
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	0	0
PINC	<i>TSSA Pipeline Incidents</i>	Y	0	1	1
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	1	1
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	2	2
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>TSSA Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	8	8
Total:			0	22	22

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	EHS		108 Bridge St Prince Edward County ON K0K2T0	NW/34.6	-0.42	16
2	EHS		108 and 110 Bridge Street Prince Edward ON K0K	NW/51.3	-0.69	16
3	SPL	TANK TRUCK	20 JOHN ST. TANK TRUCK (CARGO) PRINCE EDWARD CITY ON	SSW/62.4	3.66	16
4	WWIS		lot 20 con 1 ON Well ID: 5307138	SE/109.7	31.75	17
5	PINC		12 John Street, Picton ON	SSW/147.9	5.45	20
6	WWIS		RE. PETRO CANADA- BULK ON Well ID: 7156690	WNW/166.0	1.31	20
7	WWIS		lot 20 con 1 ON Well ID: 5306468	SE/187.6	28.26	22
8	WWIS		lot 21 ON Well ID: 5306622	SE/191.1	28.26	24
9	AMIS	SULLIVAN	HALLOWELL ON	W/224.2	0.84	27
9	MNR	SULLIVAN, D.	ON	W/224.2	0.84	28
10	EHS		97 Bridge Street Picton ON K0K	WNW/235.0	-2.69	29
11	EHS		97 Bridge St Prince Edward County ON K0K2T0	WNW/235.2	-2.69	29

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	RST	PRINCE EDWARD CRUISING CLUB	97-A BRIDGE PICTON ON K0K 2T0	WNW/235.2	-2.69	29
12	WWIS		PICTON ON Well ID: 7117452	W/239.5	1.31	29
12	WWIS		ON Well ID: 7161304	W/239.5	1.31	32
13	HINC		32 MAITLAND DRIVE PICTON ON K0K 2T0	WSW/242.4	1.64	32
14	CA	PICTON TOWN	MAITLAND ST./LOW ST./LOW ST. PICTON TOWN ON	WSW/255.0	1.31	33
15	WWIS		lot 20 con 1 ON Well ID: 5306053	SE/272.6	34.31	33
16	CA	P.U.C. PICTON	UNION ST./JOHN ST./ROBINSON ST PICTON TOWN ON	SSW/284.9	11.16	37
17	HINC		168 UNION STREET PICTON ON	S/300.0	19.68	37
17	SPL	Ultramar	168 Union St Prince Edward ON	S/300.0	19.68	37
18	WWIS		lot 20 con 1 PICTON ON Well ID: 7184180	SE/300.1	32.31	38

Executive Summary: Summary By Data Source

AMIS - Abandoned Mine Information System

A search of the AMIS database, dated 1800-Oct 2018 has found that there are 1 AMIS 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>
SULLIVAN	HALLOWELL ON	224.2	<u>9</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PICTON TOWN	MAITLAND ST./LOW ST./LOW ST. PICTON TOWN ON	255.0	<u>14</u>
P.U.C. PICTON	UNION ST./JOHN ST./ROBINSON ST PICTON TOWN ON	284.9	<u>16</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Apr 30, 2019 has found that there are 4 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>
	108 Bridge St Prince Edward County ON K0K2T0	34.6	<u>1</u>
	108 and 110 Bridge Street Prince Edward ON K0K	51.3	<u>2</u>
	97 Bridge Street Picton ON K0K	235.0	<u>10</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	97 Bridge St Prince Edward County ON K0K2T0	235.2	11

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 2 HINC 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>
	32 MAITLAND DRIVE PICTON ON K0K 2T0	242.4	13
	168 UNION STREET PICTON ON	300.0	17

MNR - Mineral Occurrences

A search of the MNR database, dated 1846-Jan 2019 has found that there are 1 MNR 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>
SULLIVAN, D.	ON	224.2	9

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 1 PINC site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	12 John Street, Picton ON	147.9	5

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Jan 31, 2019 has found that there are 1 RST 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>
PRINCE EDWARD CRUISING CLUB	97-A BRIDGE PICTON ON K0K 2T0	235.2	11

SPL - Ontario Spills

A search of the SPL database, dated 1988-Feb 2019 has found that there are 2 SPL site(s) within approximately 0.30 kilometers of the project property.

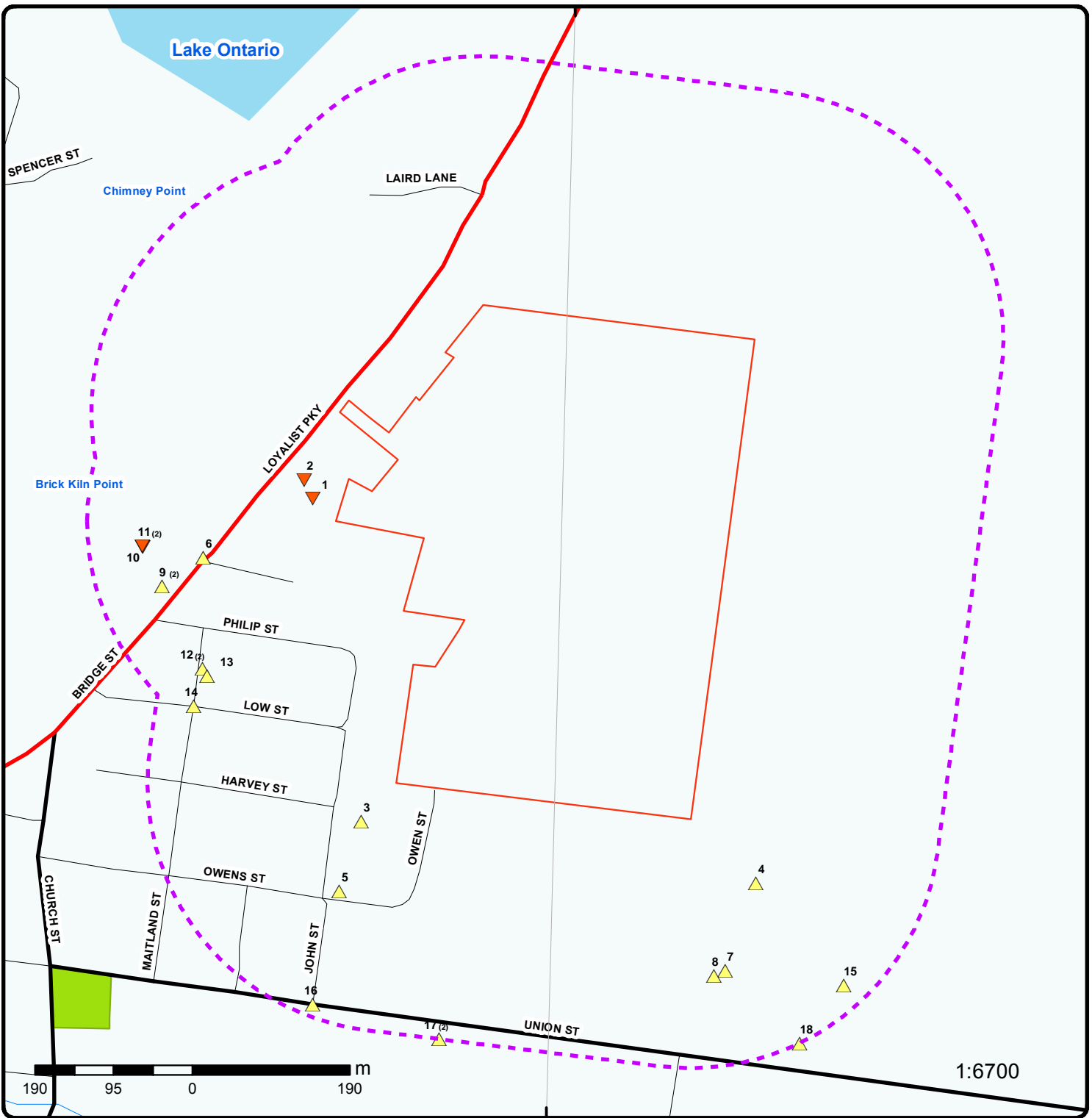
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
TANK TRUCK	20 JOHN ST. TANK TRUCK (CARGO) PRINCE EDWARD CITY ON	62.4	3
Ultramar	168 Union St Prince Edward ON	300.0	17

WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 8 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>
	lot 20 con 1 ON <i>Well ID: 5307138</i>	109.7	4
	RE. PETRO CANADA- BULK ON <i>Well ID: 7156690</i>	166.0	6
	lot 20 con 1 ON <i>Well ID: 5306468</i>	187.6	7
	lot 21 ON <i>Well ID: 5306622</i>	191.1	8
	ON	239.5	12

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 7161304		
	PICTON ON	239.5	12
	<i>Well ID:</i> 7117452		
	lot 20 con 1 ON	272.6	15
	<i>Well ID:</i> 5306053		
	lot 20 con 1 PICTON ON	300.1	18
	<i>Well ID:</i> 7184180		

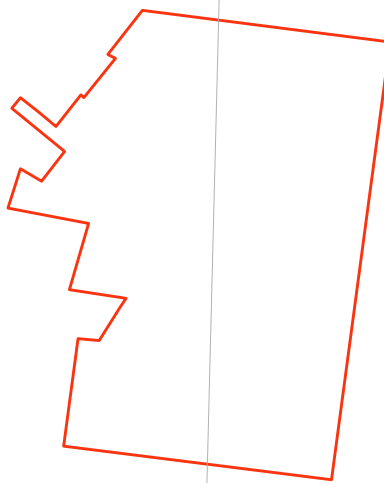


Map : 0.3 Kilometer Radius

Order No: 20190607188

Address: 12697 Loyalist Parkway, Prince Edward, ON, K0K

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



1:10000

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial (2018)

Address: 12697 Loyalist Parkway, Prince Edward, ON, K0K

Source: ESRI World Imagery

Order No: 20190607188



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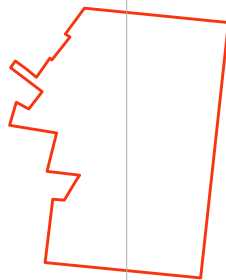
77°7'30"W

44°13'0"N

44°13'0"N

44°0'0"N

44°0'0"N



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), swisstopo, © OpenStreetMap contributors, and the GIS User Community

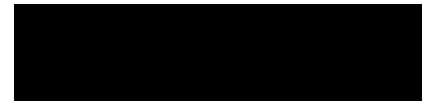
1:24000

Topographic Map

Address: 12697 Loyalist Parkway, Prince Edward, ON, K0K

Source: ESRI World Topographic Map

Order No: 20190607188



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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	NW/34.6	93.1 / -0.42	108 Bridge St Prince Edward County ON K0K2T0	EHS
Order No: 20141119077 Status: C Report Type: Standard Report Report Date: 25-NOV-14 Date Received: 19-NOV-14 Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -77.128691 Y: 44.012733			
<u>2</u>	1 of 1	NW/51.3	92.8 / -0.69	108 and 110 Bridge Street Prince Edward ON K0K	EHS
Order No: 20190313233 Status: C Report Type: Standard Report Report Date: 20-MAR-19 Date Received: 13-MAR-19 Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -77.128831 Y: 44.012931			
<u>3</u>	1 of 1	SSW/62.4	97.2 / 3.66	TANK TRUCK 20 JOHN ST. TANK TRUCK (CARGO) PRINCE EDWARD CITY ON	SPL
Ref No: 76956 Site No: Incident Dt: 9/30/1992 Year: Incident Cause: VALVE/FITTING LEAK OR FAILURE Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: NOT ANTICIPATED Nature of Impact: Receiving Medium: LAND Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 9/30/1992 Dt Document Closed: Incident Reason: EQUIPMENT FAILURE Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: DEMYTON FUELS: 5-10 L FURNACE OIL TO ROAD WHENCOUPLING ON TRUCK FAILED. Contaminant Qty:		Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: 68101 Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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4	1 of 1	SE/109.7	125.3 / 31.75	lot 20 con 1 ON	WWIS
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Well ID:	5307138	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	7/31/2003
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	6005
Casing Material:		Form Version:	1
Audit No:	253709	Owner:	
Tag:		Street Name:	
Construction Method:		County:	PRINCE EDWARD
Elevation (m):		Municipality:	HALLOWELL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	020
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	CPR SE
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:	10546837	Elevation:	122.620422
DP2BR:	9	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	329903
Code OB Desc:	Bedrock	North83:	4875026
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	6/4/2003	UTMRC Desc:	unknown UTM
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:	932935629
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	9
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:		932935630			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		73			
Other Materials:		HARD			
Mat3:					
Other Materials:					
Formation Top Depth:		9			
Formation End Depth:		200			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933243786			
Layer:		1			
Plug From:		0			
Plug To:		21			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11095407			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930588695			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:					
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930588696			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:					
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:		995307138			
Pump Set At:					
Static Level:		80			
Final Level After Pumping:		190			
Recommended Pump Depth:		195			
Pumping Rate:		1			
Flowing Rate:					
Recommended Pump Rate:					
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:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934542704			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		176			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934271490			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		183			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934811445			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		169			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935068385			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		163			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		934040782			
Layer:		1			
Kind Code:		2			
Kind:		SALTY			
Water Found Depth:		175			
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	1 of 1	SSW/147.9	99.0 / 5.45	12 John Street, Picton ON	PINC
Incident ID:	2683314			Health Impact:	No
Incident No:	526916			Environment Impact:	No
Type:	FS-Pipeline Incident			Property Damage:	Yes
Status Code:	Pipeline Damage Reason Est			Service Interupt:	Yes
Fuel Occurrence Tp:	Pipeline Strike			Enforce Policy:	Yes
Fuel Type:	Natural Gas			Public Relation:	No
Tank Status:	RC Established			Pipeline System:	
Task No:	3218496			Depth:	12
Spills Action Centre:				Pipe Material:	Plastic
Method Details:	E-mail			PSIG:	50
Fuel Category:	Natural Gas			Attribute Category:	FS-Perform P-line Inc Invest
Date of Occurrence:	11/5/2010 0:00			Regualtor Location:	Outside
Occurrence Start Date:	2011/02/07				
Operation Type:	Private Dwelling				
Pipeline Type:	Service / Riser Distribution Pipeline				
Regulator Type:	Service Regulator (up to 60 psi intake)				
Summary:	12 John Street, Picton - 1/2" Pipeline Hit				
Reported By:	Stefura, Penny - Union Gas				
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)				
Occurrence Desc:					
Damage Reason:	No notification made to the one call center				
Notes:					

6	1 of 1	WNW/166.0	94.8 / 1.31	RE. PETRO CANADA- BULK ON	WWIS
Well ID:	7156690			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Commerical			Date Received:	12/17/2010
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	Yes
Water Type:				Contractor:	6524
Casing Material:				Form Version:	7
Audit No:	Z116554			Owner:	
Tag:				Street Name:	13688 LOYALIST PARKWAY
Construction Method:				County:	PRINCE EDWARD
Elevation (m):				Municipality:	PICTON TOWN
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
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:	1003439812			Elevation:	94.582611
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	329237
Code OB Desc:				North83:	4875418
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	5
Date Completed:	12/9/2010			UTMRC Desc:	margin of error : 100 m - 300 m

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Remarks:				Location Method:	gcode
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:		1003737080			
Layer:		1			
Plug From:		0			
Plug To:		100			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		0			
Method Construction:		Not Known			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1003737071			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1003737075			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		0			
Depth To:		30			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1003737076			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Hole Diameter</u>					
Hole ID:		1003737073			
Diameter:					
Depth From:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

<u>7</u>	1 of 1	SE/187.6	121.8 / 28.26	lot 20 con 1 ON	WWIS
Well ID:		5306468		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 8/13/1998	
Sec. Water Use:				Selected Flag: Yes	
Final Well Status:		Abandoned-Supply		Abandonment Rec:	
Water Type:				Contractor: 6005	
Casing Material:				Form Version: 1	
Audit No:		182229		Owner:	
Tag:				Street Name:	
Construction Method:				County: PRINCE EDWARD	
Elevation (m):				Municipality: HALLOWELL TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 020	
Well Depth:				Concession: 01	
Overburden/Bedrock:				Concession Name: CPR SE	
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:	10356695	Elevation:	121.639038
DP2BR:	5	Elevrc:	
Spatial Status:	Improved	Zone:	18
Code OB:	r	East83:	329866
Code OB Desc:	Bedrock	North83:	4874920
Open Hole:		Org CS:	N83
Cluster Kind:		UTMRC:	3
Date Completed:	7/28/1998	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. Location estimated from sketch map. short direction estimated. long remains centre of matched cada.		
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:	932183610
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	73
Other Materials:	HARD
Mat3:	
Other Materials:	
Formation Top Depth:	5
Formation End Depth:	98

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932183609			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		12			
Other Materials:		STONES			
Mat3:		85			
Other Materials:		SOFT			
Formation Top Depth:		0			
Formation End Depth:		5			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933179141			
Layer:		1			
Plug From:		10			
Plug To:		0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10905265			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930587631			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		10			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930587632			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth From:					
Depth To:		98			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 Results of Well Yield Testing					
Pump Test ID:		995306468			
Pump Set At:					
Static Level:		12			
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		2			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		N			
 Water Details					
Water ID:		933832567			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		12			
Water Found Depth UOM:		ft			

<u>8</u>	1 of 1	SE/191.1	121.8 / 28.26	lot 21 ON	WWIS
Well ID:		5306622		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	12/23/1999
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	6881
Casing Material:				Form Version:	1
Audit No:		210103		Owner:	
Tag:				Street Name:	
Construction Method:				County:	PRINCE EDWARD
Elevation (m):				Municipality:	PICTON TOWN
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	021
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:		10356849		Elevation:	120.900535
DP2BR:		2		Elevrc:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Spatial Status:	Improved			Zone:	18
Code OB:	r			East83:	329853
Code OB Desc:	Bedrock			North83:	4874914
Open Hole:				Org CS:	N83
Cluster Kind:				UTMRC:	3
Date Completed:	10/26/1999			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. Well is in right location according to sketch map (no con / lot).short direction estimated. long assigned to centre of matched cada.				
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: 932184090
Layer: 3
Color: 3
General Color: BLUE
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 2
Formation End Depth: 24
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932184089
Layer: 2
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 1
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932184088
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Top Depth:	0				
Formation End Depth:	1				
Formation End Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	933179284				
Layer:	1				
Plug From:	0				
Plug To:	8				
Plug Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:	A				
Method Construction:	Digging				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	10905419				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930587887				
Layer:	1				
Material:	3				
Open Hole or Material:	CONCRETE				
Depth From:					
Depth To:	24				
Casing Diameter:	36				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Results of Well Yield Testing</u>					
Pump Test ID:	995306622				
Pump Set At:					
Static Level:	4				
Final Level After Pumping:	13				
Recommended Pump Depth:	23				
Pumping Rate:	130				
Flowing Rate:					
Recommended Pump Rate:	8				
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:					
Flowing:	N				
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID: 935067261					
Test Type: Draw Down					
Test Duration: 60					
Test Level: 13					
Test Level UOM: ft					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934278684					
Test Type: Draw Down					
Test Duration: 15					
Test Level: 6					
Test Level UOM: ft					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934549906					
Test Type: Draw Down					
Test Duration: 30					
Test Level: 8					
Test Level UOM: ft					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934810869					
Test Type: Draw Down					
Test Duration: 45					
Test Level: 10					
Test Level UOM: ft					
<u>Water Details</u>					
Water ID: 933832728					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 8					
Water Found Depth UOM: ft					

[9](#) 1 of 2 W/224.2 94.4 / 0.84 SULLIVAN AMIS

HALLOWELL ON

Site Access Code:		Start Year:	
AMIS Distr Code:		End Year:	
Abandoned Mine ID: 07725		Prog Rehab Plan:	NO
Old MDI ID: SO3027		Evid of Site Contam:	UNK
New MDI ID: MDI31C03SE00013		Evid of Sulphide:	UNK
Official Nm: SULLIVAN		Evid Animals Pres:	UNK
Mine Status: ABANDONED		Revegetation:	UNK
Mine Plan/Section: NO		Veg Condition:	
Site Class: NOT APPLICABLE		Veg Descr:	
Clos Reason Code:		Chemical Doc:	UNK
Closure Plan: NO		Jurisdiction:	A.R.A.
Prim Commod Code:		Lot No:	19
Prim Commod: CLAY		Concession:	1
Operat Access: N/A		Zone:	18
Date Entered:		Northing:	4875384
Date Last Modified: 10-AUG-2006		Easting:	329187
Effective Date: 2003-01-27.15:37:01		Clos Reason:	CEASING PRODUCTION - OTHER
Hyper Link:	http://www.geologyontario.mndm.gov.on.ca/mndmfiles/AMIS/data/records/07725.html		
AMIS District:	TWEED		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
District Desc:		TWEED			
Animal Desc:					
Status Type Code:		TRENCH			
Mine Features Desc:		THE SITE WAS NOT INCLUDED IN THE YEAR 2000 SURVEY.LICENCED BY THE AGGREGATE RESOURCES ACT.. LOCATED AT POINT BRICK KILN POINT ON MAP DEMR 1982, NTS 31C03 BELLEVILLE(1):..			
AMIS Bkgrd Info:		COMMODITY: CLAY. LOT 19&20 CONC 1.			
Alias Name:		SULLIVAN			

AMIS Features

AMIS Feature ID:	78842	Feature Length:	0
Effective Date:		Eval Performed Ind:	
Date Last Modified:	10-AUG-2006	Soil Erosion Flag:	
Dt Entered in AMIS:		Txt Feature ID:	
Mine Feat Class Desc:	FEATURE TO SURFACE	UTM Zone:	18
Feature Type Code:		UTM Northing:	4875383
Mine Feat Type Desc:	TRENCH	UTM Easting:	329169
Hazard Status Desc:	NOT AVAILABLE	Lat DD Features:	44.01172
Depth or Height:	0	Long DD Features:	-77.13115
Feature Width:	0		
Mine Feature Condition Desc:	THE SITE WAS NOT INCLUDED IN THE YEAR 2000 SURVEY.		

<u>9</u>	2 of 2	W/224.2	94.4 / 0.84	SULLIVAN, D.	MNR
				ON	

MDI No:	MDI31C03SE00013	Zone:	18
OGF ID:	205261681	Easting:	329186.997
Deposit Status:	PAST PRODUCING MINE WITHOUT RESERVES	Northing:	4875383.293
Claim Map:	T-0660	Effective Dt/time:	6/13/2005
Geological District:	SOUTHEASTERN ONTARIO	Date Last Modified:	12/7/2005 12:32:36 PM
Mining Division:	SOUTHERN ONTARIO	Geo Update Dt/time:	
Class Sub Type No:	2499		
Class Sub Type:	Past Producing Mine Without Reserves		
Source Map:	DEMR 1982, NTS 31C03 BELLEVILLE		
Access Description:	N/A **Note: Many records provided by the department have a truncated [Access Description] field.		

Deposit Details

Deposit Year:	2001
Deposit Character:	
Commodity:	CLAY
Ranking:	1
Twp/Area:	HALLOWELL
Con/Lot/Sec:	LOT: 20 Con: 1 SECP
Legal Desc:	con 1 SE of Carrying Place
Township Area Ranking:	1
Mndm Township Area No:	1037
Effective Date/Time:	12/7/2005 12:32:36 PM

Deposit Details

Deposit Year:	2001
Deposit Character:	
Commodity:	CLAY
Ranking:	1
Twp/Area:	HALLOWELL
Con/Lot/Sec:	LOT: 19 Con: 1 SECP
Legal Desc:	con 1 SE of Carrying Place
Township Area Ranking:	1
Mndm Township Area No:	1037

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Effective Date/Time:		12/7/2005 12:32:36 PM			
10	1 of 1	WNW/235.0	90.8 / -2.69	97 Bridge Street Picton ON K0K	EHS
Order No:	20180425070			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Express Report			Client Prov/State:	ON
Report Date:	26-APR-18			Search Radius (km):	.25
Date Received:	25-APR-18			X:	-77.13123053
Previous Site Name:				Y:	44.01215805
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
11	1 of 2	WNW/235.2	90.8 / -2.69	97 Bridge St Prince Edward County ON K0K2T0	EHS
Order No:	20140226008			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	03-MAR-14			Search Radius (km):	.25
Date Received:	26-FEB-14			X:	-77.131695
Previous Site Name:				Y:	44.010934
Lot/Building Size:					
Additional Info Ordered:					
11	2 of 2	WNW/235.2	90.8 / -2.69	PRINCE EDWARD CRUISING CLUB 97-A BRIDGE PICTON ON K0K 2T0	RST
Headcode:	00824400				
Headcode Desc:	MARINAS				
Phone:					
List Name:					
Description:					
12	1 of 2	W/239.5	94.8 / 1.31	PICTON ON	WWIS
Well ID:	7117452			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	1/9/2009
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	5
Audit No:	M04237			Owner:	
Tag:	A080525			Street Name:	32 MATLAND ST
Construction Method:				County:	PRINCE EDWARD
Elevation (m):				Municipality:	PICTON TOWN
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
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:					

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

Bore Hole ID:	1001945119	Elevation:	98.409904
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	329236
Code OB Desc:		North83:	4875285
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	12/8/2008	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:			

Overburden and Bedrock

Materials Interval

Formation ID:	1003222398
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	0.6
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1003222399
Layer:	2
Color:	2
General Color:	GREY
Mat1:	26
Most Common Material:	ROCK
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0.6
Formation End Depth:	10
Formation End Depth UOM:	m

Annular Space/Abandonment

Sealing Record

Plug ID:	1003222403
Layer:	2
Plug From:	0.31
Plug To:	1.2
Plug Depth UOM:	m

Annular Space/Abandonment

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Sealing Record</u>					
Plug ID:		1003222404			
Layer:		3			
Plug From:		1.2			
Plug To:		10			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1003222402			
Layer:		1			
Plug From:		0			
Plug To:		0.31			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1003222397			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1003222405			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		1.5			
Casing Diameter:		3.1			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1003222406			
Layer:		1			
Slot:		10			
Screen Top Depth:					
Screen End Depth:					
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		3.3			
<u>Hole Diameter</u>					
Hole ID:		1003222401			
Diameter:		5			
Depth From:		0.6			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		10			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1003222400			
Diameter:		8.2			
Depth From:		0			
Depth To:		0.6			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

12	2 of 2	W/239.5	94.8 / 1.31	ON	WWIS
Well ID:		7161304		Data Entry Status:	Yes
Construction Date:				Data Src:	
Primary Water Use:				Date Received:	4/5/2011
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:				Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	5
Audit No:		M04220		Owner:	
Tag:		A080525		Street Name:	
Construction Method:				County:	PRINCE EDWARD
Elevation (m):				Municipality:	PICTON TOWN
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
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:		1003493362		Elevation:	98.437431
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	329236
Code OB Desc:				North83:	4875285
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	3
Date Completed:		3/18/2011		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:					

13	1 of 1	WSW/242.4	95.2 / 1.64	32 MAITLAND DRIVE PICTON ON KOK 2T0	HINC
External File Num:		FS INC 0809-04961			
Fuel Occurrence Type:		Leak			
Date of Occurrence:		9/5/2008			
Fuel Type Involved:		Fuel Oil			
Status Desc:		Completed - Causal Analysis(End)			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Job Type Desc:		Incident/Near-Miss Occurrence (FS)			
Oper. Type Involved:		Private Dwelling			
Service Interruptions:		Yes			
Property Damage:		No			
Fuel Life Cycle Stage:		Utilization			
Root Cause:		Root Cause: Equipment/Material/Component:Yes Procedures:N/A Maintenance:N/A Design:N/A Training:N/A Management:N/A Human Factors:N			
Reported Details:					
Fuel Category:		Liquid Fuel			
Occurrence Type:		Incident			
Affiliation:		Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
County Name:		Prince Edward			
Approx. Quant. Rel:		20			
Nearby body of water:		Unknown			
Enter Drainage Syst.:		Unknown			
Approx. Quant. Unit:		Liters			
Environmental Impact:		Actual amount of product to ground unknown. actual duration of leak unknown. [oil leaked from part on oil burner.			

14	1 of 1	WSW/255.0	94.8 / 1.31	PICTON TOWN MAITLAND ST./LOW ST./LOW ST. PICTON TOWN ON	CA
Certificate #:		3-0644-96-			
Application Year:		96			
Issue Date:		7/19/1996			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

15	1 of 1	SE/272.6	127.8 / 34.31	lot 20 con 1 ON	WWIS
Well ID:		5306053			
Construction Date:					
Primary Water Use:		Domestic			
Sec. Water Use:					
Final Well Status:		Water Supply			
Water Type:					
Casing Material:					
Audit No:		130964			
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:		6/14/1994			
Selected Flag:		Yes			
Abandonment Rec:					
Contractor:		6005			
Form Version:		1			
Owner:					
Street Name:					
County:		PRINCE EDWARD			
Municipality:		HALLOWELL TOWNSHIP			
Site Info:					
Lot:		020			
Concession:		01			
Concession Name:		CPR SE			
Easting NAD83:					
Northing NAD83:					
Zone:					
UTM Reliability:					

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10356285			Elevation:	128.047042
DP2BR:	0			Elevrc:	
Spatial Status:	Improved			Zone:	18
Code OB:	r			East83:	330009
Code OB Desc:	Bedrock			North83:	4874902
Open Hole:				Org CS:	N83
Cluster Kind:				UTMRC:	3
Date Completed:	4/27/1994			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. Location estimated from sketch map.one direction estimated. another assigned to mid. of matched road seg.				
Supplier Comment:	Accuracy was not specified from source. Within 20m horizontal accuracy assumed as worst case using GIS at a scale of 1:10000.				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932182354				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	17				
Most Common Material:	SHALE				
Mat2:	28				
Other Materials:	SAND				
Mat3:	66				
Other Materials:	DENSE				
Formation Top Depth:	0				
Formation End Depth:	5				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932182356				
Layer:	3				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:	73				
Other Materials:	HARD				
Mat3:					
Other Materials:					
Formation Top Depth:	25				
Formation End Depth:	50				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932182355				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:	77				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials: Mat3:		LOOSE			
Other Materials: Formation Top Depth:	5				
Formation End Depth:	25				
Formation End Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933178672			
Layer:		1			
Plug From:		0			
Plug To:		20			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:	1				
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10904855			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930586893			
Layer:		2			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930586894			
Layer:		3			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		50			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930586892			
Layer:		1			
Material:		4			
Open Hole or Material:		OPEN HOLE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth From:					
Depth To:		20			
Casing Diameter:		8			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995306053			
Pump Set At:					
Static Level:		5			
Final Level After Pumping:		45			
Recommended Pump Depth:		45			
Pumping Rate:		5			
Flowing Rate:					
Recommended Pump Rate:		5			
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:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934277446			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		30			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934548667			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		45			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935066031			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		45			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934808669			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		45			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933832180			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind Code: 1 Kind: FRESH Water Found Depth: 22 Water Found Depth UOM: ft					
Water Details					
Water ID: 933832181 Layer: 2 Kind Code: 1 Kind: FRESH Water Found Depth: 45 Water Found Depth UOM: ft					
16	1 of 1	SSW/284.9	104.7 / 11.16	P.U.C. PICTON UNION ST./JOHN ST./ROBINSON ST PICTON TOWN ON	CA
Certificate #: 7-0242-94- Application Year: 94 Issue Date: 4/28/1994 Approval Type: Municipal water Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
17	1 of 2	S/300.0	113.2 / 19.68	168 UNION STREET PICTON ON	HINC
External File Num: FS INC 0701-00519 Fuel Occurrence Type: Leak Date of Occurrence: 1/30/2007 Fuel Type Involved: Fuel Oil Status Desc: Completed - No Action Required Job Type Desc: Incident/Near-Miss Occurrence (FS) Oper. Type Involved: Private Dwelling Service Interruptions: No Property Damage: No Fuel Life Cycle Stage: Utilization Root Cause: Reported Details: Fuel Category: Liquid Fuel Occurrence Type: Incident Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) County Name: Prince Edward Approx. Quant. Rel: Nearby body of water: Enter Drainage Syst.: Approx. Quant. Unit: Environmental Impact:					
17	2 of 2	S/300.0	113.2 / 19.68	Ultramar 168 Union St Prince Edward ON	SPL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1004366724			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:		12			
Other Materials:		STONES			
Mat3:		85			
Other Materials:		SOFT			
Formation Top Depth:		0			
Formation End Depth:		3			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1004366725			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Other Materials:					
Mat3:		80			
Other Materials:		POROUS			
Formation Top Depth:		3			
Formation End Depth:		8			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1004366727			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		8			
Formation End Depth:		110			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004366772			
Layer:		1			
Plug From:		0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To:		20			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1			
Method Construction Code:		Cable Tool			
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004366722			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004366736			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		0			
Depth To:		20			
Casing Diameter:		6.25			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004366738			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1004366723			
Pump Set At:		105			
Static Level:		32			
Final Level After Pumping:		102.083			
Recommended Pump Depth:		105			
Pumping Rate:		3			
Flowing Rate:					
Recommended Pump Rate:		1			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		0			
Pumping Duration HR:		1			
Pumping Duration MIN:					
Flowing:		N			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366742			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		35.25			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366745			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		98			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366753			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		85			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366758			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		75.25			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366767			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		95.25			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366749			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		95.083			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366752			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		53.083			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366754			
Test Type:		Draw Down			

<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>
<i>Test Duration:</i>		15			
<i>Test Level:</i>		60			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1004366763			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		30			
<i>Test Level:</i>		82			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1004366768			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		50			
<i>Test Level:</i>		44.083			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1004366747			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		3			
<i>Test Level:</i>		96.917			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1004366755			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		80.083			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1004366748			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		4			
<i>Test Level:</i>		41.833			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1004366751			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		5			
<i>Test Level:</i>		90.25			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1004366765			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		40			
<i>Test Level:</i>		88.167			
<i>Test Level UOM:</i>		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>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004366769		
Test Type:			Draw Down		
Test Duration:			60		
Test Level:			102.083		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004366744		
Test Type:			Draw Down		
Test Duration:			2		
Test Level:			37.917		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004366746		
Test Type:			Draw Down		
Test Duration:			3		
Test Level:			40.083		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004366743		
Test Type:			Recovery		
Test Duration:			1		
Test Level:			99.083		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004366750		
Test Type:			Draw Down		
Test Duration:			5		
Test Level:			43		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004366760		
Test Type:			Draw Down		
Test Duration:			25		
Test Level:			74.167		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004366770		
Test Type:			Recovery		
Test Duration:			60		
Test Level:			40.167		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1004366756		

<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 Type:		Draw Down			
Test Duration:		20			
Test Level:		67			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366762			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		70.167			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366764			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		60			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1004366766			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		51.167			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		1004366734			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		67			
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1004366728			
Diameter:		8.625			
Depth From:		0			
Depth To:		20			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<u>Hole Diameter</u>					
Hole ID:		1004366730			
Diameter:		6.25			
Depth From:		20			
Depth To:		110			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

Unplottable Summary

Total: **46** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 18-19 Con MT1-MT2	Hallowell ON	
CA	P.U.C. PICTON TOWN - SIDE STS.	ROAD RECONS/SIDE STS/BRIDGE ST	PICTON TOWN ON	
CA	PICTON TOWN	OWEN ST./JOHN ST./MAITLAND ST.	PICTON TOWN ON	
ECA	The Corporation of the County of Prince Edward	County Road #8 Lots 20 and 21, Concession 1	Prince Edward ON	K0K 2T0
EXP	SUNCOR ENERGY PRODUCTS INC	RR 2 HWY 33	PICTON ON	K0K 2T0
EXP	ONTARIO HYDRO	HWY 33 W	PICTON ON	
EXP	SUNCOR ENERGY PRODUCTS INC	RR 2 HWY 33	PICTON ON	
EXP	SUNCOR ENERGY PRODUCTS INC	RR 2 HWY 33	PICTON ON	K0K 2T0
EXP	SUNCOR ENERGY PRODUCTS INC	RR 2 HWY 33	PICTON ON	K0K 2T0
EXP	ONTARIO HYDRO	HWY 33 W	PICTON ON	K0K 2T0
EXP	ONTARIO HYDRO	HWY 33 W	PICTON ON	
EXP	ONTARIO HYDRO	HWY 33 W	PICTON ON	
EXP	ONTARIO HYDRO	HWY 33 W	PICTON ON	K0K 2T0
EXP	ONTARIO HYDRO	HWY 33 W	PICTON ON	
EXP	ONTARIO HYDRO	HWY 33 W	PICTON ON	K0K 2T0
FST	THE CORPORATION OF THE COUNTY OF PRINCE EDWARD	BOTTOM OF HEAD STNEAR HWY 33	PICTON ON	K0K 2T0
FST	THE CORPORATION OF THE COUNTY OF PRINCE EDWARD	BOTTOM OF HEAD STNEAR HWY 33	PICTON ON	K0K 2T0

FSTH	PETRO-CANADA CENTRAL REGION BUSINESS CENTRE - WHOLESALE OPERATIONS **	RR 2 HWY 33	PICTON ON	
FSTH	PETRO-CANADA CENTRAL REGION BUSINESS CENTRE ATTN: WHOLESALE MARKETING **	RR 2 HWY 33	PICTON ON	K0K 2T0
GEN	HYDRO ONE NETWORKS INC.	PICTON S. C. (Old) HWY. #33 WEST, LOT 21, CONCESSION 3MT	PICTON ON	K0K 2T0
GEN	HYDRO ONE NETWORKS INC.	PICTON S. C. (Old) HWY. #33 WEST, LOT 21, CONCESSION 3MT	PICTON ON	K0K 2T0
NPCB	ONTARIO HYDRO - PICTON	HIGHWAY 33 HIGHWAY 33	PICTON ON	
NPCB	ONTARIO HYDRO - PICTON	HIGHWAY 33	PICTON ON	
NPCB	ONTARIO HYDRO-PICTON	HIGHWAY 33	PICTON ON	
NPCB	HYDRO ONE NETWORK SERVICES INC.	HIGHWAY 33	PICTON ON	
OPCB	HYDRO ONE NETWORK SERVICES INC.	HIGHWAY 33	PICTON ON	
PRT	B F ANDREWS MOTORS LTD	LOT 18 CON 1 MT	PICTON ON	
PRT	MILL CREEK FARM C/O W NEIL VADER	LOT 19 CON 1	PICTON ON	
RST	LT'S PROPANE	HWY 33	PICTON ON	K0K2T0
RST	ULTRAMAR		PICTON ON	
RST	ROSESON DISTRIBUTORS INC	HWY 33	PICTON ON	K0K 2T0
SCT	MPI DRILLING	HWY 33 LOYALIST BUSINESS CENTRE	PICTON ON	K0K 2T0
SPL	ONTARIO HYDRO	ONTARIO HYDRO COMPOUND HIGHWAY 33, PICTON	PRINCE EDWARD CITY ON	
SPL	ONTARIO HYDRO	LOT 18, CON. 1 NBR TRANSFORMER	PRINCE EDWARD CITY ON	
SPL	ONTARIO HYDRO	LOT 18, CON I MOTOR VEHICLE (OPERATING FLUID)	PRINCE EDWARD CITY ON	
SPL	PRIVATE OWNER	LOT 18, CON 1 STORAGE TANK/BARREL	PRINCE EDWARD CITY ON	
SPL	NORTHUMBERLAND GRAIN & FEED	ON HWY. 33 JUST SOUTH OF CARRYING PLACE TRANSPORT TRUCK (CARGO)	PRINCE EDWARD CITY ON	
SPL		COUNTY ROAD 33 JUST NORTH OF CONSCON<UNOFFICIAL>	Prince Edward ON	

SPL	MINISTRY OF NATURAL RESOURCES	MNR GLENORA FISH HATCHERY, HWY 33. FUEL TANK	PRINCE EDWARD CITY ON
SPL	HOME TOWN ICE	BRIDGE ST AND HWY 33 PICTON MOTOR VEHICLE (OPERATING FLUID)	ON
WWIS		lot 18 con 1	PRINCE EDWARD COUNTY ON
WWIS		lot 18	ON
WWIS		con 1	PICTON ON
WWIS		con 1	ON
WWIS			ON
WWIS		lot 20	ON

Unplottable Report

Site: Lot 18-19 Con MT1-MT2 Hallowell ON

Database:
AAGR

Type: Pit
Region/County: Prince Edward
Township: Hallowell
Concession: MT1-MT2
Lot: 18-19
Size (ha):
Landuse:
Comments: high, steep, eroding slopes; old Ridge Road runs along north of site

Site: P.U.C. PICTON TOWN - SIDE STS.
ROAD RECONS/SIDE STS/BRIDGE ST PICTON TOWN ON

Database:
CA

Certificate #: 7-0980-90-
Application Year: 90
Issue Date: 7/17/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: PICTON TOWN
OWEN ST./JOHN ST./MAITLAND ST. PICTON TOWN ON

Database:
CA

Certificate #: 3-0937-97-
Application Year: 97
Issue Date: 8/5/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: The Corporation of the County of Prince Edward
County Road #8 Lots 20 and 21, Concession 1 Prince Edward ON K0K 2T0

Database:
ECA

Approval No:	3542-7Q7PDR	MOE District:
Approval Date:	2009-03-25	City:
Status:	Approved	Longitude:
Record Type:	ECA	Latitude:
Link Source:	IDS	Geometry X:
SWP Area Name:		Geometry Y:

Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Address: County Road #8 Lots 20 and 21, Concession 1
Full Address:
Full PDF Link:

Site: SUNCOR ENERGY PRODUCTS INC
RR 2 HWY 33 PICTON ON K0K 2T0

Database:
EXP

Instance No: 11392618
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description:
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 3/25/2010 15:09

Site: ONTARIO HYDRO
HWY 33 W PICTON ON

Database:
EXP

Instance No: 10923877
Instance ID: 54474
Instance Type: FS Piping
Description: FS Piping
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: SUNCOR ENERGY PRODUCTS INC
RR 2 HWY 33 PICTON ON

Database:
EXP

Instance No: 11392635
Instance ID: 82111
Instance Type: FS Piping
Description: FS Piping
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: SUNCOR ENERGY PRODUCTS INC
RR 2 HWY 33 PICTON ON K0K 2T0

Database:
EXP

Instance No: 10125279
Instance ID:
Instance Type: FS Facility
Description:
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 3/15/2013 14:39

Site: SUNCOR ENERGY PRODUCTS INC
RR 2 HWY 33 PICTON ON K0K 2T0

Database:
EXP

Instance No: 11392618
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: FS Gasoline Station - Card/Keylock
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 3/25/2010 3:09:21 PM

Site: ONTARIO HYDRO
HWY 33 W PICTON ON K0K 2T0

Database:
EXP

Instance No: 10923871
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description:
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 1/9/1990

Site: ONTARIO HYDRO
HWY 33 W PICTON ON

Database:
EXP

Instance No: 10923862
Instance ID: 53300
Instance Type: FS Piping
Description: FS Piping
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: ONTARIO HYDRO
HWY 33 W PICTON ON

Database:
EXP

Instance No: 10923853
Instance ID: 53403
Instance Type: FS Liquid Fuel Tank
Description: FS Liquid Fuel Tank
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: ONTARIO HYDRO
HWY 33 W PICTON ON K0K 2T0

Database:
EXP

Instance No: 10923871
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 1/9/1990

Site: ONTARIO HYDRO
HWY 33 W PICTON ON

Database:
EXP

Instance No: 9241165
Instance ID: 379168
Instance Type: FS Facility
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: ONTARIO HYDRO
HWY 33 W PICTON ON K0K 2T0

Database:
EXP

Instance No: 10923853
Instance ID:
Instance Type: FS Liquid Fuel Tank
Description: Fuels Safety Private Fuel Outlet - Self Serve
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 1/9/1990

Site: THE CORPORATION OF THE COUNTY OF PRINCE EDWARD
BOTTOM OF HEAD STNEAR HWY 33 PICTON ON K0K 2T0

Database:
FST

Instance No: 64622225
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Diesel
Status: Active
Capacity: 9000
Tank Material: Fiberglass (FRP)
Corrosion Protection: Fiberglass
Tank Type: Double Wall UST
Install Year: 2015
Parent Facility Type: FS Marina
Facility Type: FS Liquid Fuel Tank

Site: THE CORPORATION OF THE COUNTY OF PRINCE EDWARD
BOTTOM OF HEAD STNEAR HWY 33 PICTON ON K0K 2T0

Database:
FST

Instance No: 64622224
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 9000
Tank Material: Fiberglass (FRP)
Corrosion Protection: Fiberglass
Tank Type: Double Wall UST
Install Year: 2015
Parent Facility Type: FS Marina
Facility Type: FS Liquid Fuel Tank

Site: PETRO-CANADA CENTRAL REGION BUSINESS CENTRE - WHOLESALE OPERATIONS **
RR 2 HWY 33 PICTON ON

Database:
FSTH

License Issue Date: 8/1/2002

Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--

Status: Active
Year of Installation: 1995
Corrosion Protection:
Capacity: 15000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Site: **PETRO-CANADA CENTRAL REGION BUSINESS CENTRE ATTN: WHOLESALE MARKETING ****
RR 2 HWY 33 PICTON ON K0K 2T0

Database:
FSTH

License Issue Date: 8/1/2002
Tank Status: Pending Renewal
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--

Status: Active
Year of Installation: 1995
Corrosion Protection:
Capacity: 15000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Site: **HYDRO ONE NETWORKS INC.**
PICTON S. C. (Old) HWY. #33 WEST, LOT 21, CONCESSION 3MT PICTON ON K0K 2T0

Database:
GEN

Generator No: ON0490322
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 221122
SIC Description: ELECTRIC POWER DISTRIBUTION

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Mike Harvey
Phone No Admin: 866-782-4489 Ext.

Detail(s)

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 266
Waste Class Desc: PHENOLIC WASTES

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 221

Waste Class Desc: LIGHT FUELS
Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS
Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS
Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS
Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS
Waste Class: 269
Waste Class Desc: NON-HALOGENATED PESTICIDES
Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS
Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS
Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Site: HYDRO ONE NETWORKS INC.
 PICTON S. C. (Old) HWY. #33 WEST, LOT 21, CONCESSION 3MT PICTON ON K0K 2T0

Database:
 GEN

Generator No:	ON0490322	PO Box No:	
Status:		Country:	Canada
Approval Years:	2015	Choice of Contact:	CO_ADMIN
Contam. Facility:	No	Co Admin:	Mike Harvey
MHSW Facility:	No	Phone No Admin:	866-782-4489 Ext.
SIC Code:	221122		
SIC Description:	ELECTRIC POWER DISTRIBUTION		

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS
Waste Class: 269
Waste Class Desc: NON-HALOGENATED PESTICIDES
Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES
Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS
Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS
Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES
Waste Class: 221
Waste Class Desc: LIGHT FUELS
Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES
Waste Class: 266
Waste Class Desc: PHENOLIC WASTES
Waste Class: 121

Waste Class Desc: ALKALINE WASTES - HEAVY METALS
Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES
Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES
Waste Class: 243
Waste Class Desc: PCBS
Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS
Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS
Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ONTARIO HYDRO - PICTON
HIGHWAY 33 HIGHWAY 33 PICTON ON

Database:
NPCB

Company Code: F1239
Industry:
Site Status:
Transaction Date:
Inspection Date:

--Details--

Label:
Serial No.:
PCB Type/Code:
Location:
Item/State:
No. of Items:
Manufacturer:
Status: In-Storage
Contents:

Site: ONTARIO HYDRO - PICTON
HIGHWAY 33 PICTON ON

Database:
NPCB

Company Code: F1414
Industry:
Site Status:
Transaction Date: 1/29/1996
Inspection Date:

--Details--

Label:
Serial No.:
PCB Type/Code: Askarel
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for Disposal
Contents: 0.00 KG

Label:
Serial No.:
PCB Type/Code: Askarel
Location:
Item/State:

No. of Items:
Manufacturer:
Status: Stored for Disposal
Contents: 600.00 KG

Site: **ONTARIO HYDRO-PICTON**
HIGHWAY 33 PICTON ON

Database:
NPCB

Company Code: F1262
Industry: UNDEFINED
Site Status:
Transaction Date:
Inspection Date:

--Details--

Label: F126200
Serial No.:
PCB Type/Code: MINERAL OIL/UNKNOWN
Location:
Item/State: BARREL MINERAL OIL/FULL
No. of Items: 39
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 6955 KG

Site: **HYDRO ONE NETWORK SERVICES INC.**
HIGHWAY 33 PICTON ON

Database:
NPCB

Company Code: F1262
Industry: Undefined
Site Status: Stored for Disposal
Transaction Date: 12/30/1995
Inspection Date:

--Details--

Label:
Serial No.:
PCB Type/Code: Mineral Oil/Unknown
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Site: **HYDRO ONE NETWORK SERVICES INC.**
HIGHWAY 33 PICTON ON

Database:
OPCB

Year: 2004
Site Number: 40188A257
Name Owner:
Additional Site Information:

--Details--

Quantity: 1379
Address Site:
Description: Weight of Bulk Liquid with Low Level PCBs (< 1000 ppm) kg

Quantity: 38
Address Site:
Description: Number of Transformers with Low Level PCBs (< 1000 ppm) kg

Quantity: 22
Address Site:
Description: Number of Drums of Soil with Low Level PCBs (< 1000 ppm) kg

Quantity: 8800
Address Site:
Description: Calculated Weight (Kg) of Drums of Soil with Low Level PCBs (< 1000 ppm) kg

Quantity: 4
Address Site:
Description: Number of Drums of Other Material with Low Level PCBs (< 1000 ppm) kg

Quantity: 600
Address Site:
Description: Calculated Weight of Drums of Other Material with Low Level PCBs (< 1000 ppm) kg

Quantity: 1
Address Site:
Description: Number of Drums of Ballasts with High Level PCBs (>1000 ppm)

Quantity: 200
Address Site:
Description: Calculated Weight (Kg) of Drums of Ballasts with High Level PCBs (>1000 ppm)

Site: B F ANDREWS MOTORS LTD
 LOT 18 CON 1 MT PICTON ON

Database:
 PRT

Location ID: 11817
Type: private
Expiry Date: 1994-02-28
Capacity (L): 0.00
Licence #: 0037920001

Site: MILL CREEK FARM C/O W NEIL VADER
 LOT 19 CON 1 PICTON ON

Database:
 PRT

Location ID: 11808
Type: private
Expiry Date:
Capacity (L): 13638.00
Licence #: 0001042363

Site: LT'S PROPANE
 HWY 33 PICTON ON K0K2T0

Database:
 RST

Headcode: 1186800
Headcode Desc: Service Stations-Gasoline, Oil & Natural Gas
Phone: 6134765211
List Name:
Description:

Site: ULTRAMAR
 PICTON ON

Database:
 RST

Headcode: 00924800
Headcode Desc: FUEL OIL
Phone: 6134760033
List Name:
Description:

Site: ROSESON DISTRIBUTORS INC
HWY 33 PICTON ON K0K 2T0

Database:
RST

Headcode: 1186800
Headcode Desc: Service Stations-Gasoline, Oil & Natural Gas
Phone: 6134765211
List Name:
Description:

Site: MPI DRILLING
HWY 33 LOYALIST BUSINESS CENTRE PICTON ON K0K 2T0

Database:
SCT

Established: 1994
Plant Size (ft²): 0
Employment: 3

--Details--

Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

Site: ONTARIO HYDRO
ONTARIO HYDRO COMPOUND HIGHWAY 33, PICTON PRINCE EDWARD CITY ON

Database:
SPL

Ref No:	77040	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	10/2/1992	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	UNKNOWN	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	CONFIRMED	Site Municipality:	68101
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	10/2/1992	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	UNKNOWN	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ONTARIO HYDRO - GASOLINE ODOUR FROM SOIL WHILE INSTALLING SEPTIC FIELD.		
Contaminant Qty:			

Site: ONTARIO HYDRO
LOT 18, CON. 1 NBR TRANSFORMER PRINCE EDWARD CITY ON

Database:
SPL

Ref No:	131572	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	9/8/1996	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	COOLING SYSTEM LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	

Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/8/1996
Dt Document Closed:
Incident Reason: STORM/FLOOD/WIND
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: ONTARIO HYDRO- 10 LITRES TRANSFORMER OIL TO GROUND FELL TRANSFORMER.
Contaminant Qty:

Site Municipality: 68101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: ONTARIO HYDRO
 LOT 18, CON 1 MOTOR VEHICLE (OPERATING FLUID) PRINCE EDWARD CITY ON

Database:
 SPL

Ref No: 36815
Site No:
Incident Dt: 6/25/1990
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/25/1990
Dt Document Closed:
Incident Reason: OVERSTRESS/OVERPRESSURE
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: ONTARIO HYDRO: 2 LITRES HYDRAULIC OIL TO GROUND
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 68101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: PRIVATE OWNER
 LOT 18, CON 1 STORAGE TANK/BARREL PRINCE EDWARD CITY ON

Database:
 SPL

Ref No: 73859
Site No:
Incident Dt: //
Year:
Incident Cause: UNDERGROUND TANK LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: CONFIRMED
Nature of Impact: Groundwater Pollution
Receiving Medium: LAND / WATER
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 7/21/1992
Dt Document Closed:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 68101
Site Lot:
Site Conc:
Northing:
Easting: MCCR
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:

Incident Reason: UNKNOWN **Source Type:**
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: PRIVATE: GASOLINE TO GRND& DRINKING WATER WELL FROM LEAKING TANK.
Contaminant Qty:

Site: NORTHUMBERLAND GRAIN & FEED ON HWY. 33 JUST SOUTH OF CARRYING PLACE TRANSPORT TRUCK (CARGO) PRINCE EDWARD CITY ON **Database:** SPL

Ref No:	76414	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	9/17/1992	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	OTHER CONTAINER LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	68101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	FIRE, TWP. WORKS, MTO
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	9/17/1992	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	EQUIPMENT FAILURE	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	NORTHUMBERLAND GRAIN & FEED - 110 L OF DIESEL TO HWY. FROM TRUCK.		
Contaminant Qty:			

Site: COUNTY ROAD 33 JUST NORTH OF CONSCON<UNOFFICIAL> Prince Edward ON **Database:** SPL

Ref No:	2425-5WSMJD	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:	3/5/2004	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	Other Transport Accident	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:	13	Nearest Watercourse:	
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	Belleville
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	Eastern
Environment Impact:	Confirmed	Site Municipality:	Prince Edward
Nature of Impact:	Soil Contamination	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	3/5/2004	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	Adverse Road Condition - Road faults	Source Type:	
Site Name:	COUNTY ROAD 33 JUST NORTH OF CONSCON<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Graphic Transportation-Ukn Qty Diesel to Shoulder		
Contaminant Qty:			

Site: MINISTRY OF NATURAL RESOURCES
MNR GLENORA FISH HATCHERY, HWY 33. FUEL TANK PRINCE EDWARD CITY ON

Database:
SPL

Ref No:	109948	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	//	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	PIPE/HOSE LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	CONFIRMED	Site Municipality:	68101
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	2/10/1995	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	CORROSION	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	MNR: 45 L OF FURNACE OIL TO GROUND FROM PINHOLE LEAK IN UNDERGROUND LINE.		
Contaminant Qty:			

Site: HOME TOWN ICE
BRIDGE ST AND HWY 33 PICTON MOTOR VEHICLE (OPERATING FLUID) ON

Database:
SPL

Ref No:	170595	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	7/23/1999	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	OTHER TRANSPORTATION ACCIDENT	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	68101
Nature of Impact:	Water course or lake	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	COUNTY OF PRINCE EDWARD W/D
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	7/23/1999	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	MATERIAL FAILURE	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	UKN TRUCK: 23 LITRES DIESEL TO GND C/B BROKE FUEL LINE W/D CLEANUP		
Contaminant Qty:			

Site: lot 18 con 1 PRINCE EDWARD COUNTY ON

Database:
WWIS

Well ID:	7043990	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Domestic	Date Received:	5/28/2007
Sec. Water Use:		Selected Flag:	Yes

Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z46314
Tag: A049247
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:

Abandonment Rec:
Contractor: 1507
Form Version: 3
Owner:
Street Name: HWY #33
County: PRINCE EDWARD
Municipality: HILLIER TOWNSHIP
Site Info:
Lot: 018
Concession: 01
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11766424
DP2BR: 7
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 2/21/2007
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC:
UTMRC Desc:
Location Method:

Overburden and Bedrock
Materials Interval

Formation ID: 933101755
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 77
Other Materials: LOOSE
Formation Top Depth: 0
Formation End Depth: 2.1
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933101756
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 71
Other Materials: FRACTURED
Mat3:
Other Materials:
Formation Top Depth: 2.1

Formation End Depth: 3.3
Formation End Depth UOM: m

**Overburden and Bedrock
Materials Interval**

Formation ID: 933101757
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 3.3
Formation End Depth: 22.9
Formation End Depth UOM: m

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933319451
Layer: 1
Plug From: 6
Plug To: 0
Plug Depth UOM: m

**Method of Construction & Well
Use**

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

Pipe Information

Pipe ID: 11774114
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930899691
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0
Depth To: 6.7
Casing Diameter: 15.8
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930899692
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 6
Depth To: 22.9

Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11778726
Pump Set At: 22
Static Level: 1.8
Final Level After Pumping: 5
Recommended Pump Depth: 21.9
Pumping Rate: 45.5
Flowing Rate:
Recommended Pump Rate: 56.7
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11825293
Test Type: Draw Down
Test Duration: 5
Test Level: 2.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825301
Test Type: Draw Down
Test Duration: 25
Test Level: 3.4
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825303
Test Type: Draw Down
Test Duration: 30
Test Level: 3.4
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825304
Test Type: Recovery
Test Duration: 30
Test Level: 4.7
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825175
Test Type: Draw Down
Test Duration: 1
Test Level: 2.8
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825178
Test Type: Recovery
Test Duration: 2
Test Level: 5.9
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825299
Test Type: Draw Down
Test Duration: 20
Test Level: 2.8
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825305
Test Type: Draw Down
Test Duration: 40
Test Level: 4.3
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825307
Test Type: Draw Down
Test Duration: 50
Test Level: 4.7
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825309
Test Type: Draw Down
Test Duration: 60
Test Level: 5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825289
Test Type: Draw Down
Test Duration: 3
Test Level: 2.7
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825295
Test Type: Draw Down
Test Duration: 10
Test Level: 2.7
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825176
Test Type: Recovery
Test Duration: 1
Test Level: 4.8
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825291
Test Type: Draw Down
Test Duration: 4
Test Level: 2.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825302
Test Type: Recovery
Test Duration: 25
Test Level: 4.8
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825306
Test Type: Recovery
Test Duration: 40
Test Level: 4.6
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825177
Test Type: Draw Down
Test Duration: 2
Test Level: 2.9
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825292
Test Type: Recovery
Test Duration: 4
Test Level: 5.4
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825296
Test Type: Recovery
Test Duration: 10
Test Level: 5.2
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825298
Test Type: Recovery
Test Duration: 15
Test Level: 5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825294
Test Type: Recovery
Test Duration: 5

Test Level: 5.4
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825297
Test Type: Draw Down
Test Duration: 15
Test Level: 3
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825308
Test Type: Recovery
Test Duration: 50
Test Level: 4.2
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825290
Test Type: Recovery
Test Duration: 3
Test Level: 5.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11825300
Test Type: Recovery
Test Duration: 20
Test Level: 4.8
Test Level UOM: m

Water Details

Water ID: 934086380
Layer: 1
Kind Code:
Kind:
Water Found Depth: 21.6
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11852936
Diameter: 15.5
Depth From: 6
Depth To: 22.9
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11852937
Diameter: 20.3
Depth From: 0
Depth To: 6
Hole Depth UOM: m
Hole Diameter UOM: cm

Site:
lot 18 ON

Database:
WWIS

Well ID: 5307127
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 262103
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: 6/26/2003
Selected Flag: Yes
Abandonment Rec:
Contractor: 7020
Form Version: 1
Owner:
Street Name:
County: PRINCE EDWARD
Municipality: HALLOWELL TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name: MT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10541011
DP2BR: 66
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/9/2003
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: 932917091
Layer: 5
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Other Materials: SAND
Mat3: 05
Other Materials: CLAY
Formation Top Depth: 34
Formation End Depth: 55
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932917087
Layer: 1
Color: 6
General Color: BROWN

Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932917090
Layer: 4
Color: 6
General Color: BROWN
Mat1: 10
Most Common Material: COARSE SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 17
Formation End Depth: 34
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932917095
Layer: 9
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 66
Formation End Depth: 67
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932917093
Layer: 7
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Other Materials: SAND
Mat3:
Other Materials:
Formation Top Depth: 57
Formation End Depth: 65
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932917094

Layer: 8
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Other Materials: SAND
Mat3: 05
Other Materials: CLAY
Formation Top Depth: 65
Formation End Depth: 66
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932917092
Layer: 6
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 55
Formation End Depth: 57
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932917088
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Other Materials: SAND
Mat3: 11
Other Materials: GRAVEL
Formation Top Depth: 2
Formation End Depth: 11
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932917089
Layer: 3
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 10
Other Materials: COARSE SAND
Mat3:
Other Materials:
Formation Top Depth: 11
Formation End Depth: 17
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933239102
Layer: 2
Plug From: 35
Plug To: 40
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933239103
Layer: 3
Plug From: 40
Plug To: 67
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933239101
Layer: 1
Plug From: 0
Plug To: 35
Plug Depth UOM: ft

**Method of Construction & Well
Use**

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

Pipe Information

Pipe ID: 11089581
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930588678
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

Construction Record - Casing

Casing ID: 930588680
Layer: 3
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 67
Casing Diameter: 3
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930588679
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 47
Casing Diameter: 3
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933405219
Layer: 1
Slot: 020
Screen Top Depth: 47
Screen End Depth: 67
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 3

Results of Well Yield Testing

Pump Test ID: 995307127
Pump Set At:
Static Level: 36
Final Level After Pumping: 36
Recommended Pump Depth: 66
Pumping Rate: 11
Flowing Rate:
Recommended Pump Rate: 10
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: N

Draw Down & Recovery

Pump Test Detail ID: 934811436
Test Type: Recovery
Test Duration: 45
Test Level: 36
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934271481
Test Type: Recovery
Test Duration: 15
Test Level: 36
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934542694
Test Type: Recovery

Test Duration: 30
Test Level: 36
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935068375
Test Type: Recovery
Test Duration: 60
Test Level: 36
Test Level UOM: ft

Water Details

Water ID: 934034750
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 67
Water Found Depth UOM: ft

Site:
con 1 PICTON ON

Database:
[WWIS](#)

Well ID: 5307394
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z24056
Tag: A024375
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 5/18/2005
Selected Flag: Yes
Abandonment Rec:
Contractor: 6881
Form Version: 3
Owner:
Street Name: CTY RD #8
County: PRINCE EDWARD
Municipality: HALLOWELL TOWNSHIP
Site Info:
Lot:
Concession: 01
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11324354
DP2BR: 2
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 3/8/2005
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC:
UTMRC Desc:
Location Method: na

**Overburden and Bedrock
Materials Interval**

Formation ID: 933024840
Layer: 2
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0.3
Formation End Depth: 0.6
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933024841
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0.6
Formation End Depth: 6.1
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933024839
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 0.3
Formation End Depth UOM: m

Annular Space/Abandonment
Sealing Record

Plug ID: 933268686
Layer: 1
Plug From: 0
Plug To: 2.5
Plug Depth UOM: m

Method of Construction & Well
Use

Method Construction ID:
Method Construction Code: A
Method Construction: Digging
Other Method Construction:

Pipe Information

Pipe ID: 11339209
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930867922
Layer: 1
Material: 3
Open Hole or Material: CONCRETE
Depth From: 0
Depth To: 6.1
Casing Diameter: 90
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11351096
Pump Set At: 6.1
Static Level: 1.09
Final Level After Pumping: 6
Recommended Pump Depth: 6
Pumping Rate: 585
Flowing Rate:
Recommended Pump Rate: 144
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:

Draw Down & Recovery

Pump Test Detail ID: 11384109
Test Type: Recovery
Test Duration: 15
Test Level: 5.44
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11384113
Test Type: Draw Down
Test Duration: 30
Test Level: 3.56
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11384114
Test Type: Recovery
Test Duration: 60
Test Level: 4.55
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11384111
Test Type: Recovery
Test Duration: 30
Test Level: 5.03
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11384107
Test Type: Draw Down
Test Duration: 60
Test Level: 6
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11384110
Test Type: Draw Down
Test Duration: 50
Test Level: 5.1
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11384112
Test Type: Recovery
Test Duration: 50
Test Level: 4.72
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11384108
Test Type: Draw Down
Test Duration: 15
Test Level: 5.26
Test Level UOM: m

Water Details

Water ID: 934059981
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3
Water Found Depth UOM: m

Site: con 1 ON

Database:
WWIS

Well ID: 5306284
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 171212
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:

Data Entry Status:
Data Src: 1
Date Received: 8/27/1996
Selected Flag: Yes
Abandonment Rec:
Contractor: 6390
Form Version: 1
Owner:
Street Name:
County: PRINCE EDWARD
Municipality: HALLOWELL TOWNSHIP
Site Info:

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

Lot:
Concession: 01
Concession Name: CPR NW
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10356512
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 8/16/1996
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: 932183072
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 10
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932183073
Layer: 4
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 91
Other Materials: WATER-BEARING
Mat3:
Other Materials:
Formation Top Depth: 12
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932183070

Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 28
Other Materials: SAND
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932183071
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3: 73
Other Materials: HARD
Formation Top Depth: 1
Formation End Depth: 10
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933178931
Layer: 1
Plug From: 0
Plug To: 10
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: A
Method Construction: Digging
Other Method Construction:

Pipe Information

Pipe ID: 10905082
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930587325
Layer: 1
Material: 3
Open Hole or Material: CONCRETE
Depth From:
Depth To: 20
Casing Diameter: 36
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 995306284
Pump Set At:
Static Level: 6
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: N

Water Details

Water ID: 933832395
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 18
Water Found Depth UOM: ft

Water Details

Water ID: 933832393
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 6
Water Found Depth UOM: ft

Water Details

Water ID: 933832394
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 10
Water Found Depth UOM: ft

Site:
ON

Database:
WWIS

Well ID: 5307530
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z43430
Tag: A034633
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status:
Data Src:
Date Received: 3/14/2006
Selected Flag: Yes
Abandonment Rec:
Contractor: 6881
Form Version: 3
Owner:
Street Name: CTY RD 8
County: PRINCE EDWARD
Municipality: 53000
Site Info:
Lot:
Concession:
Concession Name:

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11556078
DP2BR: 8
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 12/13/2005
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 933050032
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 2.4
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933050033
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 2.4
Formation End Depth: 9
Formation End Depth UOM: m

Annular Space/Abandonment
Sealing Record

Plug ID: 933290869
Layer: 1
Plug From: 0
Plug To: 2.5

Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: A
Method Construction: Digging
Other Method Construction:

Pipe Information

Pipe ID: 11565685
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930877046
Layer: 1
Material: 3
Open Hole or Material: CONCRETE
Depth From: 0
Depth To: 9
Casing Diameter: 91
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11573095
Pump Set At: 9
Static Level: 2.4
Final Level After Pumping: 6.9
Recommended Pump Depth: 9
Pumping Rate: 585
Flowing Rate:
Recommended Pump Rate: 40
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:

Draw Down & Recovery

Pump Test Detail ID: 11602911
Test Type: Draw Down
Test Duration: 15
Test Level: 3.8
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11602913
Test Type: Draw Down
Test Duration: 30
Test Level: 4.6
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11602915
Test Type: Draw Down
Test Duration: 40
Test Level: 5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11602916
Test Type: Draw Down
Test Duration: 50
Test Level: 6
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11602918
Test Type: Recovery
Test Duration: 60
Test Level: 6.6
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11602912
Test Type: Recovery
Test Duration: 15
Test Level: 6.7
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11602914
Test Type: Recovery
Test Duration: 30
Test Level: 6.65
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11602917
Test Type: Draw Down
Test Duration: 60
Test Level: 6.9
Test Level UOM: m

Water Details

Water ID: 934073558
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 5
Water Found Depth UOM: m

Site: lot 20 ON

Database:
WWIS

Well ID: 5306568
Construction Date:

Data Entry Status:
Data Src: 1

Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 182283
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:

Date Received: 7/15/1999
Selected Flag: Yes
Abandonment Rec:
Contractor: 6005
Form Version: 1
Owner:
Street Name:
County: PRINCE EDWARD
Municipality: HALLOWELL TOWNSHIP
Site Info:
Lot: 020
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10356795
DP2BR: 3
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/14/1999
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: 932183899
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 12
Other Materials: STONES
Mat3: 66
Other Materials: DENSE
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932183901
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 80
Other Materials: POROUS
Mat3:

Other Materials:
Formation Top Depth: 6
Formation End Depth: 18
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932183902
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 18
Formation End Depth: 90
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932183900
Layer: 2
Color: 6
General Color: BROWN
Mat1: 17
Most Common Material: SHALE
Mat2: 66
Other Materials: DENSE
Mat3:
Other Materials:
Formation Top Depth: 3
Formation End Depth: 6
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933179233
Layer: 1
Plug From: 20
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well
Use

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

Pipe Information

Pipe ID: 10905365
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930587797
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 90
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930587796
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930587795
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 20
Casing Diameter: 8
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 995306568
Pump Set At:
Static Level: 16
Final Level After Pumping: 68
Recommended Pump Depth: 85
Pumping Rate: 1
Flowing Rate:
Recommended Pump Rate:
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: N

Draw Down & Recovery

Pump Test Detail ID: 934278637
Test Type: Recovery
Test Duration: 15
Test Level: 84
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935067218

Test Type: Recovery
Test Duration: 60
Test Level: 68
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934549859
Test Type: Recovery
Test Duration: 30
Test Level: 79
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934810825
Test Type: Recovery
Test Duration: 45
Test Level: 72
Test Level UOM: ft

Water Details

Water ID: 933832662
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 38
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 2018

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

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-Jan 31, 2019

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial [CA](#)

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

Government Publication Date: 1985-Oct 30, 2011*

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 2017

Commercial Fuel Oil Tanks:

Provincial

CFOT

List of commercial underground fuel oil tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Note: the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of commercial fuel tanks in the province. The TSSA updates information in its system on an ongoing basis; 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: Feb 28, 2017

Chemical Register:

Private

CHEM

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

Government Publication Date: 1999-Jan 31, 2019

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 - Mar 2019

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial

COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial

CONV

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

Government Publication Date: 1989-Mar 2019

Certificates of Property Use:

Provincial

CPU

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

Government Publication Date: 1994-Apr 30, 2019

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 - Oct 2018

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-Apr 30, 2019

Environmental Registry:

Provincial [EBR](#)

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

Government Publication Date: 1994-Apr 30, 2019

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-Apr 30, 2019

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-Apr 30, 2019

Environmental Issues Inventory System:

Federal [EIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial [EMHE](#)

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 or 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, 2018

List of TSSA Expired Facilities:

Provincial [EXP](#)

List of facilities and tanks - for which there was once a registration - no longer registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed from the ground are included in the expired facilities inventory held by the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal

FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

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

Government Publication Date: Jun 2000-Oct 2018

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 2018

Fuel Storage Tank:

Provincial

FST

List of registered private and retail fuel storage tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel storage tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial

FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-Mar 31, 2019

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 2017

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*

TSSA Incidents:

Provincial

INC

List of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC) and made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

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

Government Publication Date: 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-Jan 2019

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, 2017

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 National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2018

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, 2019

Ontario Oil and Gas Wells:

Provincial

OGGW

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-May 2018

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, 2019

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: 1988-Mar 2019

TSSA Pipeline Incidents:

Provincial [PINC](#)

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), 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 pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks:

Provincial [PRT](#)

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial [PTTW](#)

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

Government Publication Date: 1994-Apr 30, 2019

Ontario Regulation 347 Waste Receivers Summary:

Provincial [REC](#)

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

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial **RSC**

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2019

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-Jan 31, 2019

Scott's Manufacturing Directory:

Private **SCT**

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial **SPL**

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

Government Publication Date: 1988-Feb 2019

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, 2016

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-Aug 2018

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial **VAR**

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

Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory:

Provincial

[WDS](#)

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

Government Publication Date: Oct 2011-Apr 30, 2019

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

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

Government Publication Date: Feb 28, 2019

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 G
City Directory Search



CITY
DIRECTORY

Project Property: *12697 Loyalist Parkway, Prince Edward, Ontario*
Report Type: *City Directory*
Order No: *20190607188*
Information Source: *Polk's Quinte & Area, Ontario Criss-Cross Directory*
Date Completed: *13/06/2019*

Environmental Risk Information Services City Directory Information Source

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

PROJECT NUMBER: 20190607188	
Site Address:	12697 Loyalist Parkway, Prince Edward, Ontario
Year: 2000	
Site Listing:	-Address Not Listed
Adjacent Properties:	
12617 Loyalist Parkway	-Address Not Listed
12667 Loyalist Parkway	-Address Not Listed
12679 Loyalist Parkway	-Res (1 Tenant)
12690 Loyalist Parkway	-Address Not Listed
12698 Loyalist Parkway	-Address Not Listed
12699 Loyalist Parkway	-Address Not Listed
95 Bridge Street	-Res (1 Tenant)
97 Bridge Street	-Multi-Tenant Residential

100 Bridge Street	-Res (1 Tenant)
105 Bridge Street	-Multi-Tenant Residential
108 Bridge Street	-Multi-Tenant Residential
110 Bridge Street	-Multi-Tenant Residential
213 County Road 8	-Address Not Listed
21 John Street	-Address Not Listed
26 John Street	-Address Not Listed
36 John Street	-Address Not Listed
52 Owen Street	-Address Not Listed
9 Philip Street	-Address Not Listed
20 Pineridge Drive	-Address Not Listed
514 Rosseau Crossroad	-Address Not Listed

PROJECT NUMBER: 20190607188	
Site Address:	12697 Loyalist Parkway, Prince Edward, Ontario

Year: 1997	
Site Listing:	-Address Not Listed
Adjacent Properties:	
12617 Loyalist Parkway	-Address Not Listed
12667 Loyalist Parkway	-Address Not Listed
12679 Loyalist Parkway	-Address Not Listed
12690 Loyalist Parkway	-Address Not Listed
12698 Loyalist Parkway	-Address Not Listed
12699 Loyalist Parkway	-Address Not Listed
95 Bridge Street	-Res (1 Tenant)
97 Bridge Street	-Multi-Tenant Residential
100 Bridge Street	-Res (1 Tenant)
105 Bridge Street	-Multi-Tenant Residential

108 Bridge Street	-Address Not Listed
110 Bridge Street	-Multi-Tenant Residential
213 County Road 8	-Address Not Listed
21 John Street	-Address Not Listed
26 John Street	-Address Not Listed
36 John Street	-Address Not Listed
52 Owen Street	-Address Not Listed
9 Philip Street	-Address Not Listed
20 Pineridge Drive	-Address Not Listed
514 Rosseau Crossroad	-Address Not Listed

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

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

*****Prince Edward, Ontario is listed from 1997 to 2000 within the city directory archives*****

Appendix H
Records of Communication

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



June 24, 2019

Malroz
Engineering Inc
308 Wellington Street 2nd Floor
Kingston, ON K7K 7A8

Dear Malroz:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2019-03885, Your Reference 1126

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 12697 Loyalist Parkway, Picton.

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

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

If you have any questions regarding this matter, please contact Dany Briollais at 416-314-4075 or dany.briollais@ontario.ca.

Yours truly,


Janet Dadufalza
Manager, Access and Privacy



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

08 July 2019

Mallory Wright
MALROZ ENGINEERING INC.
2nd Floor
308 Wellington Street
KINGSTON ON K7K 7A8

Subject: 12697 Loyalist Parkway, Picton, Ontario
Your File No.: 1126
SR No.: 2627798

Dear Madam/Sir:

We are in receipt of your correspondence wherein you requested information regarding the above noted subject.

A search of our records did not produce the requested Fuels Safety documents.

Should you have any questions, please contact Public Information at publicinformationservices@tssa.org.

Yours truly,

A handwritten signature in blue ink that reads 'Roxana Suarez-Mashtaler'. The signature is written in a cursive style and is positioned above a horizontal line.

Roxana Suarez-Mashtaler
Public Information Services

David Hodgson

From: Samantha Carney <SCarney@quinteconservation.ca>
Sent: June 12, 2019 12:13 PM
To: Mallory Wright
Subject: RE: ANSI / Wetland Information request - 12697 Loyalist Parkway, Picton, ON
Attachments: 12697loyalistpkwy.pdf; ScheduleC_ConstraintsDRAFT_20180228 (1).pdf

Good afternoon Mallory,

My apologies for the delay in response to your email.

The property address of 12697 Loyalist Parkway is not illustrated on our mapping (our mapping is a little out of date sometimes), but I'm assuming it is the property I've outlined in black on the attached aerial photo? Please let me know if this is not the correct lot.

As per our mapping, there is a watercourse identified on the subject lands which eventually drains into Picton Bay/Lake Ontario. In addition, though it's hard to decipher, Schedule 'C': Constraint Areas of PEC's Draft Official Plan (attached for reference) may illustrate a portion of the lands as including "Steep Slope". The escarpment which appears to be located on the east half of the property looks well vegetated and would not represent any hazard to development from Quinte Conservation's perspective.

There are no designated ANSIs, PSWs or other wetlands in close vicinity to the property. Picton Bay shoreline on the west side of Loyalist Parkway would be a regulated feature however, and those properties along this stretch of Picton Bay on the west side of Loyalist Parkway fall within the Intake Protection Zone – 1 for source water protection.

The Ministry of Natural Resources and Forestry would be point of contact in regards to habitat of endangered or threatened species.

Hope this addresses your inquiry, however please let me know if you require anything else.

With thanks,
Sam

Sam Carney

Planning & Regulations Technician

Quinte Conservation

RR#2, 2061 Old Hwy #2, Belleville, ON K8N 4Z2

Phone: (613) 968-3434 or (613) 354-3312 ext 111



[Click here to sign up for one of Quinte Conservation's e-newsletters!](#)

www.QuinteConservation.ca

www.QuinteSourceWater.ca

☑ Consider the environment. Please don't print this e-mail unless you really need to.

Disclaimer: This is intended for the addressee indicated above. It may contain information that is privileged, confidential, or otherwise protected from disclosure under the Municipal Freedom of Information and Privacy Protection Act. If you have received this in error, please notify us immediately.

From: Christine Jennings
Sent: June-06-19 1:09 PM
To: Samantha Carney
Subject: FW: ANSI / Wetland Information request - 12697 Loyalist Parkway, Picton, ON

From: Mallory Wright [mailto:MWright@malroz.com]
Sent: June 6, 2019 1:06 PM
To: Christine Jennings
Cc: Eric Gallaway
Subject: ANSI / Wetland Information request - 12697 Loyalist Parkway, Picton, ON

Hi,

Could you please direct this email to where it needs to go?

I am writing to you to request information on a property, relating to environmental constraints. The subject site is located at

- **12697 Loyalist Parkway, Picton, ON**

We are conducting an Environmental assessment of this site and I would like to request any information on record concerning the following areas either on the property or within a 0.25 km radius.

- An area of natural and scientific interest (life science).
- A wetland identified by your authority
- A habitat of endangered or threatened species

If possible, I would appreciate written confirmation of the information above as soon as it is available.

Thank you for your help, I look forward to hearing from you soon.

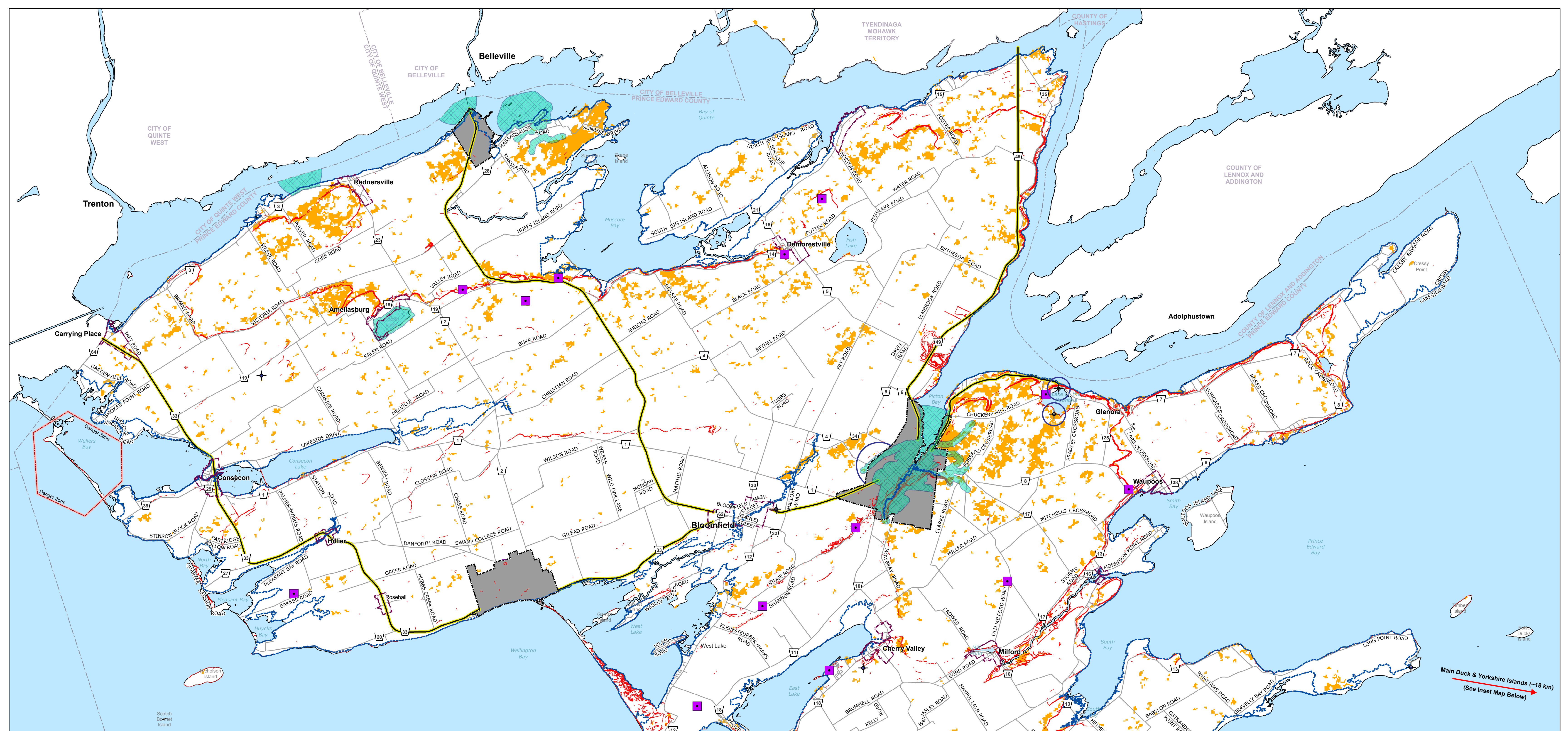
Thanks,



Mallory Wright

Environmental Technologist
Malroz Engineering Inc.

308 Wellington Street, 2nd floor
Kingston, ON K7K 7A8



SCHEDULE 'C': Constraint Areas

Official Plan of Prince Edward County

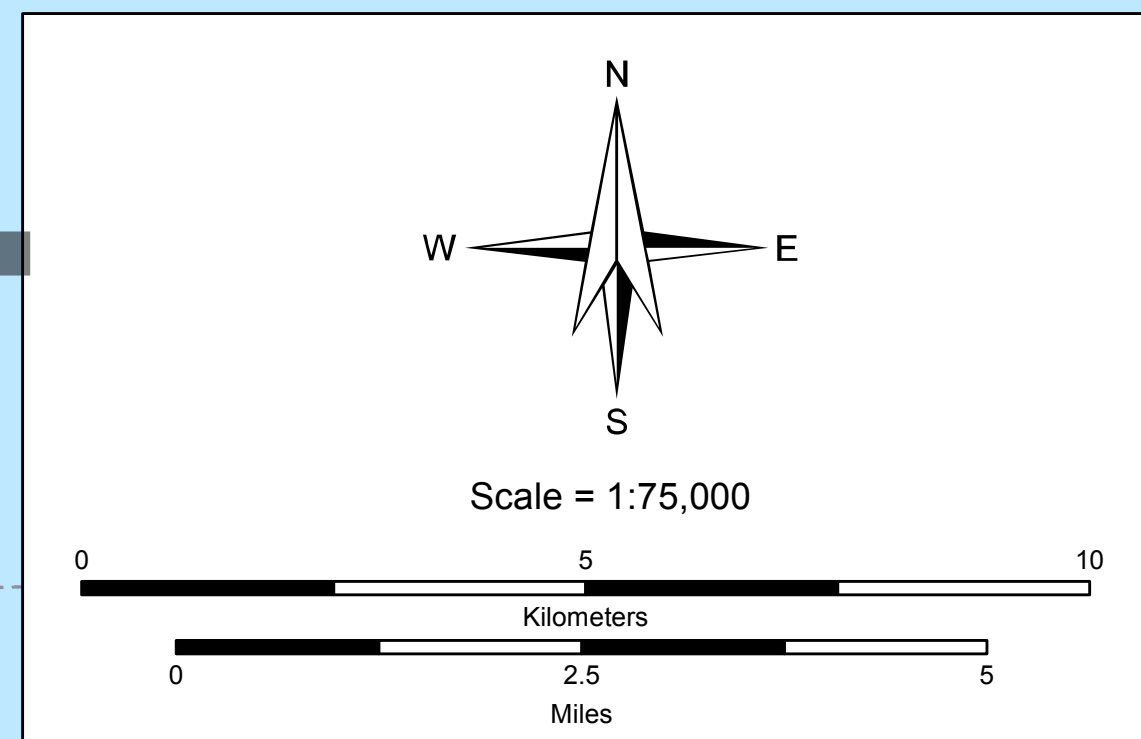
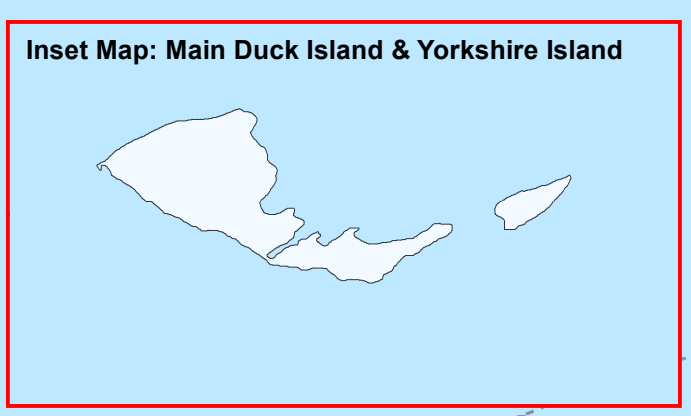
Revised Draft: February 28, 2018

Legend

Flood Line	Landfill Site
Potential Fire Hazard	Unexploded Ordnance (UXO) Area
Steep Slope (>25% and >3 m change in elevation)	Other Features
Source Water Protection Zone	Secondary Plan Boundary ²
Human Made Constraints	Settlement Area Boundary
Abandoned Gas Well (Halo Indicates Location Accuracy) ¹	County Boundary
Highway	Road

¹ The location of the gas well may be anywhere within the corresponding accuracy halo boundary
² See Official Plan Amendment Nos. 62 - Wellington Secondary Plan, 63 - Pictou Secondary Plan, and 67 - Rossmore Secondary Plan

DRAFT



Produced by the Corporation of the County of Prince Edward (PEC) Information Technology/GIS Department. PEC makes no warranty, representation or guaranty as to the content, sequence, accuracy, or completeness of any of the data provided on this map. Includes material © 2018 of the Queen's Printer for Ontario. All rights reserved. Projection and Coordinate System: Universal Transverse Mercator UTM Zone 18N Datum: North American Datum 1983


Appendix I
Aerial Photos




A1718-1
PS15/129
P1260



Legend


 approximate Phase One Property boundary

Aerial Photo 1929 (A1718-1)

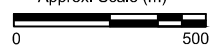
Approx. Scale (m)

0 200



Legend


 approximate Phase One Property boundary

Aerial Photo 1956 (A15596-57)


Approx. Scale (m)

0 500



Legend


 approximate Phase One Property boundary

Aerial Photo 1965 (VRR2638-1707)


Approx. Scale (m)

0 100



Legend


 approximate Phase One Property boundary

Aerial Photo 1974 (A23817-86)


Approx. Scale (m)

0 500



Legend


 approximate Phase One Property boundary

Aerial Photo 1986 (A26998-118)


Approx. Scale (m)

0 150



Legend


 approximate Phase One Property boundary

Aerial Photo 1995 (A28172-167)


Approx. Scale (m)

0 500



Legend


 approximate Phase One Property boundary

Aerial Photo 2005 (QuickBird Satellite Imagery via PEC GIS)

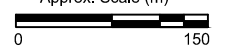
Approx. Scale (m)

0 100



Legend

 approximate Phase One Property boundary

Aerial Photo 2015 (Google Earth Imagery)

Approx. Scale (m)

0 150

Appendix J
Water Well Records

5306053

MUNICIP 53003

CON. CPR. SE. 101

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

COUNTY OR DISTRICT [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE [REDACTED] WELL [REDACTED] CONC SECP (PART 20+21)
 DATE COMPLETED 27 04 94
 DAY 27 MO 04 YR 94

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	FLAG STONE SHALE	SAND.	DENSE	0	5
GREY	LIMESTONE		LOOSE (POROUS)	5	25
GREY	LIMESTONE		HARD	25	50

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
22	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
45	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
8	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		0	20
6 1/4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	188	0	20
6 1/8	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		20	50

SCREEN

SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

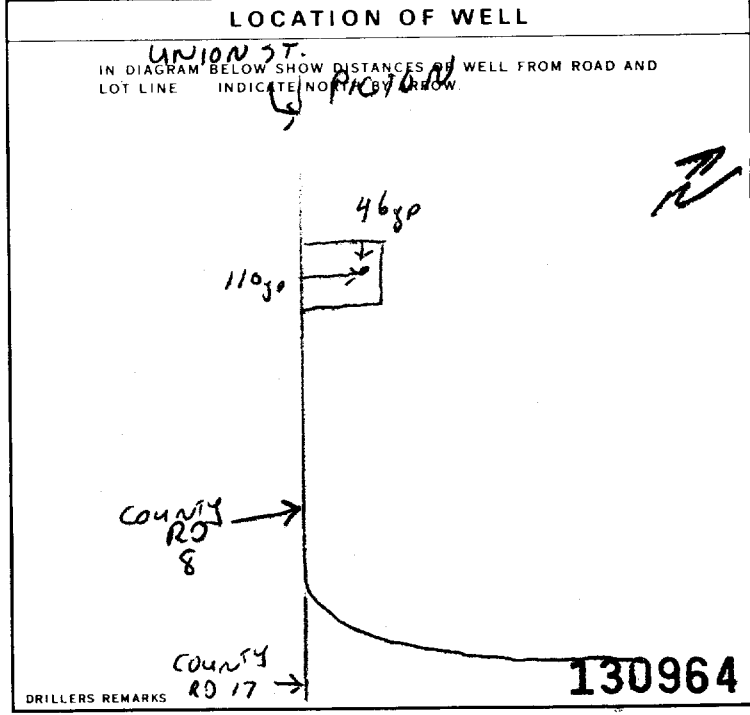
DEPTH SET AT - FEET	MATERIAL AND TYPE
20	CEMENT GROUT

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	5	1 20

STATIC LEVEL FEET	WATER LEVEL END OF PUMPING FEET	WATER LEVELS DURING PUMPING
5	45	15 MINUTES: 30, 30 MINUTES: 45, 45 MINUTES: 45, 60 MINUTES: 45

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING FEET	RECOMMENDED PUMPING RATE GPM
1 <input type="checkbox"/> SHALLOW 2 <input checked="" type="checkbox"/> DEEP	45	5



FINAL STATUS OF WELL

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	8 <input type="checkbox"/> DEWATERING

WATER USE

1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
9 <input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

METHOD OF CONSTRUCTION

1 <input checked="" type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input type="checkbox"/> AIR PERCUSSION	10 <input type="checkbox"/> DIGGING

CONTRACTOR

NAME OF WELL CONTRACTOR: PRINCE EDWARD WELL DRILLERS 6005
 ADDRESS: BOX 3 MILFORD ONT KOK 2 P O
 NAME OF WELL TECHNICIAN: Ross Branson
 WELL TECHNICIAN'S LICENCE NUMBER: 621
 SIGNATURE OF TECHNICIAN/CONTRACTOR: Ross Branson
 SUBMISSION DATE: DAY 28 MO 04 YR 94

OFFICE USE ONLY

DATA SOURCE: 6005
 CONTRACTOR: 6005
 DATE RECEIVED: JUN 14 1994
 DATE OF INSPECTION: _____
 INSPECTOR: _____
 REMARKS: _____

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

5306622

Municipality
53601

Con. _____

County or District: **PRINCE EDWARD** Township/Borough/City/Town/Village: **PICTON** Con block tract survey, etc. Lot 5: **20+21**
Address: _____ Date completed: **26 10 99**
day month year

Northings: _____ Elevation: _____ Basin Code: _____

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
BLACK	TOPSOIL			0	1
BROWN	LOAM			1	2
BLUE	LIMESTONE			2	24

31 _____
32 _____

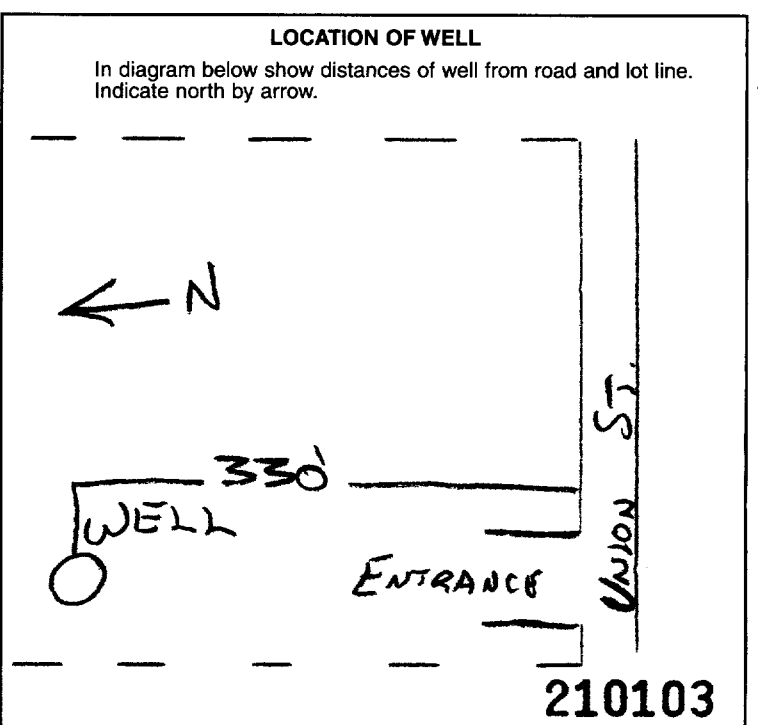
WATER RECORD	
Water found at - feet	Kind of water
8	<input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
36	Concrete	3 1/2	0	24

SCREEN	Sizes of opening (Slot No.)	Diameter	Length
	Material and type	inches	feet

PLUGGING & SEALING RECORD		
Annular space		
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
0	8	CLAY

PUMPING TEST	
Pumping test method: <input checked="" type="checkbox"/> Pump Pumping rate: 130 GPM Duration of pumping: 1 Hours Mins	Water levels during: <input checked="" type="checkbox"/> Pumping 15 minutes: 4 feet 30 minutes: 12 1/2 feet 45 minutes: 6 feet 60 minutes: 8 feet If flowing give rate: 22 GPM Recommended pump type: <input checked="" type="checkbox"/> Shallow
Pump intake set at: 23 feet Recommended pump setting: 23 feet	Water at end of test: <input checked="" type="checkbox"/> Clear Recommended pump rate: 7.5 GPM



FINAL STATUS OF WELL

Water supply
 Abandoned, insufficient supply
 Unfinished
 Observation well
 Abandoned, poor quality
 Replacement well
 Test hole
 Abandoned (Other)
 Recharge well
 Dewatering

WATER USE

Domestic
 Commercial
 Not use
 Stock
 Municipal
 Other
 Irrigation
 Public supply
 Industrial
 Cooling & air conditioning

METHOD OF CONSTRUCTION

Cable tool
 Air percussion
 Driving
 Rotary (conventional)
 Boring
 Rotary (reverse)
 Diamond
 Rotary (air)
 Jetting

Name of Well Contractor: **FRANK'S DRILLING & BLASTING** Well Contractor's Licence No.: **6881**
 Address: **Box 100 NEWBURGH** **KOK-250**
 Name of Well Technician: **BRETT PARR** Well Technician's Licence No.: **T-2603**
 Signature of Technician/Contractor: _____ Submission date: **01** mo **11** yr **99**

MINISTRY USE ONLY

Data source: **6881** Date received: **DEC 23 1999**
 Date of inspection: _____ Inspector: _____
 Remarks: _____

A080525

Address of Well Location (Street Number/Name, RR) 32 Mainland St. Lot _____ Concession _____ Township _____ County/District/Municipality _____

City/Town/Village Pictou Province Ontario Postal Code _____ GPS Unit Make _____ Model _____ Unit Mode of Operation Undifferentiated Averaged Differentiated, specify: _____

Signature of Technician/Contractor _____ Date (yyyy/mm/dd) _____

Well # on Sketch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting						Northing	From					
#1	18329247	4875277	10	5	AIR PERCUSSION	PLASTIC	1.5	1.5	10	BENTONITE				2008/12/08
2	18329248	4875270	10	5	AIR PERCUSSION	PLASTIC	1.5	1.5	10	BENTONITE				2008/12/08
4	18329232	4875275	10	5	AIR PERCUSSION	PLASTIC	1.5	1.5	10	BENTONITE				2008/12/09
5	18329233	4875271	10	5	AIR PERCUSSION	PLASTIC	1.5	1.5	10	BENTONITE				2008/12/09

Well Contractor and Well Technician Information

Business Name of Well Contractor STRATA SOIL SAMPLING Business Address (Street Number/Name, RR) 147 WEST BEAVER CREEK Municipality RICHMOND HILL Province ONT

Postal Code L4B1K6 Business Telephone No. (inc. area code) 9057649304 Well Contractor's Licence No. 7241 Business E-mail Address _____

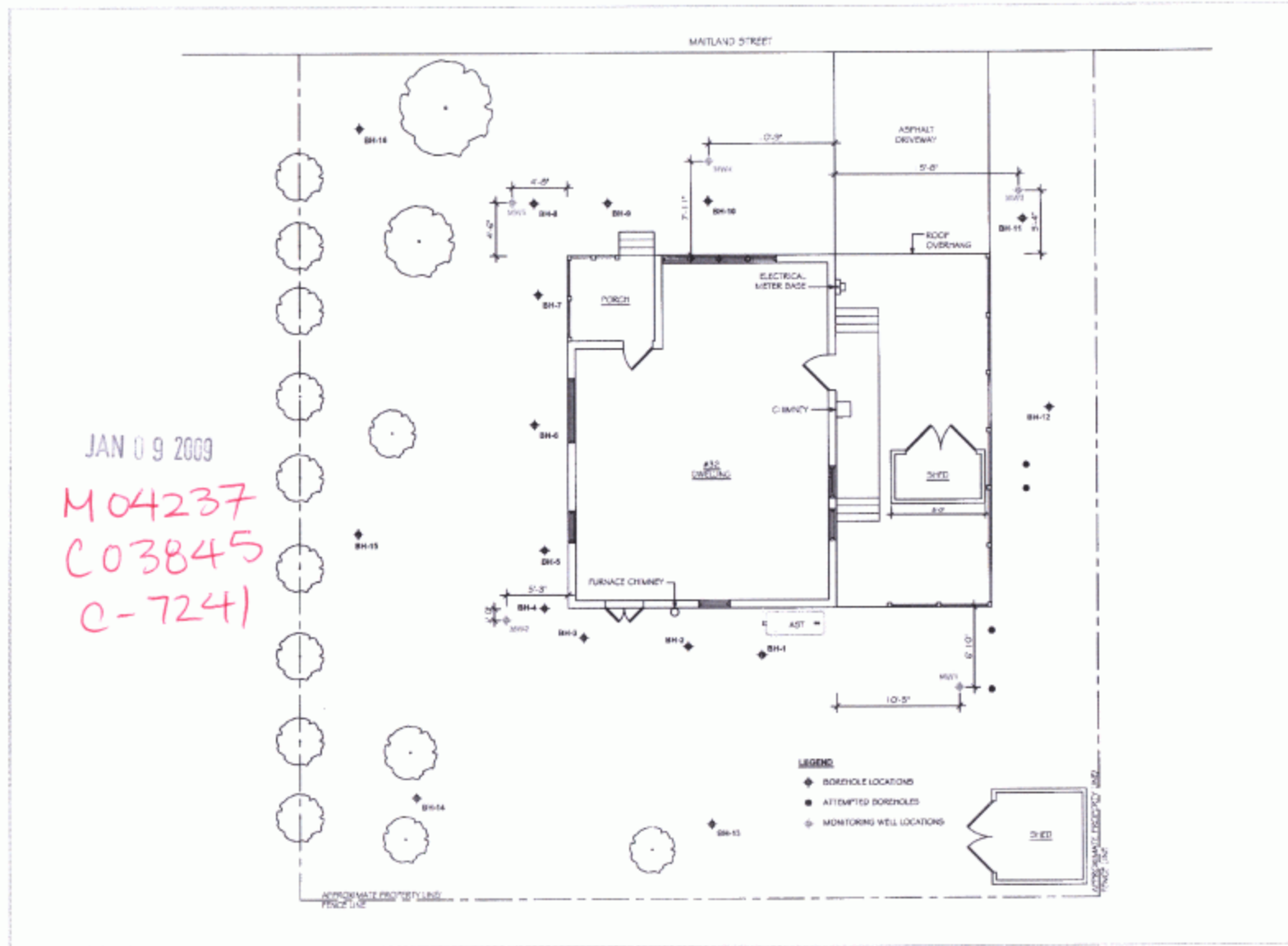
Name of Well Technician (First Name, Last Name) _____ Well Technician's Licence No. _____ Date Submitted (yyyy/mm/dd) _____ Signature of Technician _____

Date 1st Well in Cluster Constructed 2008/12/08 Date Last Well in Cluster Constructed 2008/12/08

Ministry Use Only

Date Received (yyyy/mm/dd) JAN 09 2009 Date Inspected (yyyy/mm/dd) _____

Audit No. C 03845 Remarks _____



JAN 09 2009
 M04237
 C03845
 C-7241



34 Saxon Road
 Shelton, Ontario
 L7B 4G9

TEL: (905) 660-3660
 FAX: (905) 637-9190
 1-888-ROCHON

PROJECT:	MONITORING WELL LOCATIONS
DATE:	15/04/2009
CLIENT:	31 WINDYBUSH RD AUSTIN, ONTARIO
PROJECT NO.:	00000000000000000000
DATE OF ISSUE:	09/04/2009
SCALE:	N/A
ISSUED BY:	W. ROCHON
DATE:	09/04/2009
PROJECT NO.:	00000000000000000000
PROJECT NAME:	RSK-7

NO TAG

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: E/O Last Name / Organization: CLARKWAY CONSTRUCTION E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 11411 CLARKWAY DRIVE Municipality: BRAMPTON Province: ONT Postal Code: L6P 0W1 Telephone No. (inc. area code): 905 794 0168

Well Location

Address of Well Location (Street Number/Name): 13688 HOYAUIS PKWY. Township: PILTON Lot: _____ Concession: _____

County/District/Municipality: PRINCE EDWARD City/Town/Village: RE. PATERO CANADA - BULK STATION Province: Ontario Postal Code: _____

UTM Coordinates: Zone 18 Easting 324780 Northing 4879402 Municipal Plan and Sublot Number: _____ Other: _____

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
<u>WELL ABANDONMENT</u>					

Annular Space		
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)
<u>0</u>	<u>100</u>	<u>BEPOWITE QUICK GROUT</u>
		<u>8 FTS</u>

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: _____	Static Level			
	<u>1</u>		<u>1</u>	
Pump intake set at (m/ft)	<u>2</u>		<u>2</u>	
Pumping rate (l/min / GPM)	<u>3</u>		<u>3</u>	
Duration of pumping _____ hrs + _____ min	<u>4</u>		<u>4</u>	
Final water level end of pumping (m/ft)	<u>10</u>		<u>10</u>	
If flowing give rate (l/min / GPM)	<u>15</u>		<u>15</u>	
Recommended pump depth (m/ft)	<u>20</u>		<u>20</u>	
Recommended pump rate (l/min / GPM)	<u>30</u>		<u>30</u>	
Well production (l/min / GPM)	<u>40</u>		<u>40</u>	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>50</u>		<u>50</u>	
	<u>60</u>		<u>60</u>	

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____	

Construction Record - Casing				
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To
<u>6</u>	<u>STEEL</u>	<u>114</u>	<u>0</u>	<u>300</u>

Status of Well
<input type="checkbox"/> Water Supply
<input type="checkbox"/> Replacement Well
<input type="checkbox"/> Test Hole
<input type="checkbox"/> Recharge Well
<input type="checkbox"/> Dewatering Well
<input type="checkbox"/> Observation and/or Monitoring Hole
<input type="checkbox"/> Alteration (Construction)
<input type="checkbox"/> Abandoned, Insufficient Supply
<input type="checkbox"/> Abandoned, Poor Water Quality
<input checked="" type="checkbox"/> Abandoned, other, specify <u>DEMOLISHED</u>
<input type="checkbox"/> Other, specify _____

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From	To
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information			
Business Name of Well Contractor: <u>QUEEN WATER WELL SOL.</u>		Well Contractor's Licence No.: <u>6524</u>	
Business Address (Street Number/Name): <u>352 MARSH RD. R27</u>		Municipality: <u>BELLEVILLE</u>	
Province: <u>ONT</u>	Postal Code: <u>K8N4Z7</u>	Business E-mail Address: _____	
Bus. Telephone No. (inc. area code): <u>613 922 7474</u>	Name of Well Technician (Last Name, First Name): <u>Kim Quinlan</u>		
Well Technician's Licence No.: <u>T1850</u>	Signature of Technician and/or Contractor: _____		Date Submitted: <u>2010/12/17</u>

Map of Well Location

Please provide a map below following instructions on the back.

Comments: _____

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>20101209</u>	Audit No. <u>z116554</u>
	Date Work Completed	Received <u>DEC 17 2010</u>

A080525

Address of Well Location (Street Number/Name, RR) 32 Maitland St.		Lot	Concession	Township	County/District/Municipality	Signature of Technician/Contractor 	Date (yyyy/mm/dd) 2011/03/18
City/Town/Village Picton	Province Ontario	Postal Code	GPS Unit Make Garmin	Model Etrex	Unit Mode of Operation <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify:		

Well # on Sketch	Zone	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
		Eastings	Northing						From	To					
1		18329247	4875277	10	3.3		PVC	1.5	1.5	10			Grout Slurry		2011/03/18
2		18329248	4875270	10	3.3		PVC	1.5	1.5	10			"		"
4		18329232	4875275	10	3.3		PVC	1.5	1.5	10			"		"
5		18329233	4875271	10	3.3		PVC	1.5	1.5	10			"		"

Well Contractor and Well Technician Information			
Business Name of Well Contractor Strata Soil Sampling Inc		Business Address (Street Number/Name, RR) 147-2 West Beaver Creek Rd	
Municipality Richmond Hill		Province Ontario	
Postal Code 44B1C6	Business Telephone No. (inc. area code) 9057649304	Well Contractor's Licence No. 7241	Business E-mail Address wrecords@stratasoil.com
Name of Well Technician (First Name, Last Name) Brian Beatty		Well Technician's Licence No. 3616	Date Submitted (yyyy/mm/dd) 2011/03/18
		Signature of Technician 	

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2011/03/18	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2011/03/18
Ministry Use Only	
Date Received (yyyy/mm/dd) APR 05 2011	Date Inspected (yyyy/mm/dd)
Audit No. c08548	Remarks m04220

A117973

Measurements recorded in: Metric Imperial

Address of Well Location (Street Number/Name) 257 CTY RD 8		Township HALLOWEL	Lot PT 20	Concession EAST OF HALLOWEL BAJ
County/District/Municipality PRINCE EDWARD		City/Town/Village OUTSKIRTS OF PICTON	Province Ontario	Postal Code K0K2T0
UTM Coordinates NAD 83	Zone 18	Easting 18329956	Northing 4874833	Municipal Plan and Sublot Number

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
BROWN	TOP SOIL	STONES	SOFT	0	3
BROWN	SHALE		POROUS	3	8
GREY	LIMESTONE			8	110

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From	To	
0	20	QUICK GROUT 75

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) 105	Static Level	32'		101'
	1	35' 3"	1	99' 1"
	2	37' 11"	2	98'
	3	40' 1/2"	3	96' 11 1/2"
	4	41' 10 1/2"	4	95' 1"
	5	43'	5	90' 3"
Pumping rate (l/min / GPM) 3				
Duration of pumping 1 hrs + _____ min				
Final water level end of pumping (m/ft) 102' 1/2"	10	53' 1"	10	85'
If flowing give rate (l/min / GPM) 1	15	60'	15	80' 1/2"
	20	67'	20	75' 3"
	25	74' 2"	25	70' 2 1/4"
	30	87'	30	60'
	40	88' 1/2"	40	51' 2"
	50	95' 3 1/2"	50	44' 1"
Recommended pump depth (m/ft) 105	60	102' 1/2"	60	40' 2"
Recommended pump rate (l/min / GPM) 1				
Well production (l/min / GPM) 1				
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Method of Construction	Well Use		
<input checked="" type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging	<input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
6 1/4	STEEL	.188	0	20	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft)	Diameter (cm/in)
From	To	From	To
67'		0	20
		20	110
			8 5/8
			6 1/4

Well Contractor and Well Technician Information	
Business Name of Well Contractor WELL PRINCE EDWARD DRILLERS	Well Contractor's Licence No. 6101015
Business Address (Street Number/Name) 22 JOHNSON ST PICTON	Municipality
Province ONT	Postal Code K0K2T0
Business E-mail Address	

Bus. Telephone No. (inc. area code) 6134765457	Name of Well Technician (Last Name, First Name) MCKEE GLENDON
Well Technician's Licence No. 2826	Signature of Technician and/or Contractor Glendon McKee
Date Submitted 2012/06/22	

Map of Well Location

Please provide a map below following instructions on the back.

PICTON

36yr

CTY RD 8

1570

Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2012/06/22	Audit No. Z133697
	Date Work Completed 2012/06/22	Received JUL 17 2012

Appendix K
Phase One Property Reconnaissance Photographs and
Descriptions



Photo 1: view of the Phase One Property from the west property limit, facing southeast



Photo 2: view of the Phase One Property from approximately 250 m east of west property limit, facing northeast



Photo 3: view of the Phase One Property from approximately 70 m east of the Loyalist Parkway, facing south west



Photo 4: view of tires observed on the Phase One Property, approximately 100 m east of the Loyalist Parkway, along the access road



Photo 5: view of plastic and metal debris, observed in the northwestern portion of the Phase One Property



Photo 6: view of potential building material debris associated with a previous building, including wood and shingle fragments as well as wood mulch, observed at the Phase One Property, approximately 200 m east of Loyalist Parkway



Photo 7: close-up view of materials described in photo 6



Photo 8: view of tires observed on the Phase One Property, approximately 200 m east of the Loyalist Parkway, along the access road



Photo 9: view of one of several piles of vegetation debris observed throughout the Phase One Property



Photo 10: view of one of several of wood mulch piles observed throughout the Phase One Property



Photo 11: view of the Phase One Property from the south portion of the property, facing southeast



Photo 12: view the Phase One Property from the south portion of the Site, facing northeast



Photo 13: view of the Phase One Property from the east portion of the property, facing west



Photo 14: view of the Phase One Property from the east property limit, facing south



Photo 15: view of the west flowing drainage ditch observed along the north property limit of the Phase One Property, viewing west



Photo 16: view of northwest corner of the Phase One Property, facing northwest



Photo 17: view of the Phase One Property from the east property limit, facing northeast



Photo 18: view of the Phase One Property from the north portion of the property, facing north



Photo 19: view of the Phase One Property, from approximately 50 m east of the Loyalist Parkway, facing southwest



Photo 20: view of the western portion of the Phase One Property, facing west .



Photo 21: view of the access road located at north portion of Phase One Property, extending east from the Loyalist Parkway, looking east.



Photo 22: view of the western limit of the phase one property, off of the Loyalist Parkway, looking west.



Photo 23: view of the west and north sides of the west adjacent property (12699 Loyalist Parkway), looking southeast.



Photo 24: view of the south side of the west adjacent property (12699 Loyalist Parkway), looking northeast.

Appendix L
Copies of Field Notes and Interviews

Date: 19/07/18
Project #: 1126

PHASE I ESA INTERVIEW

Please complete this questionnaire prior to the Malroz Engineering Inc. site visit and return via email to the project manager.

GENERAL and Interview Overview

Date: 19/07/18

Client/
Company Name: Hilden Homes Ltd. Phone: _____
Fax: _____

Site Address: 12697 Loyalist Hwy, Picton Municipality: _____
County: _____

Owner: _____ Phone: _____
Fax: _____

Person interviewed: David Clegg (prev. owner) Phone: 613-827-5551

Site Use: _____

The date, place, and method of the interview

Via phone on 19/07/18

The reason why the person was identified as an interview subject

Previous owner of property

Interview Summary

D. Clegg

- owner of property 5-6 years before selling to Hilden Homes Ltd. in 2017
- purchased property from Romano family who owned property for approx. 15 years
- site has always been farmland, hasn't been actively farmed in a long time
- Mobile trailer on property when he purchased it - was being lived in by Romano family (mother)
 - ↳ city water service
 - ↳ electricity
 - ↳ Sewage - likely holding tank
 - ↳ no storage tanks for fuel.
- No known importation of fill materials
 - ↳ access road there when purchased.

Relevant information concerning potentially contaminating activity and areas of potential environmental concern noted by the interviewer

- Mr. Clegg not aware of any potential environmental concerns associated with property
- west adj. property (12699 Loyalist Parkway) was a garage at one point, not sure if was a gas station
- Owns lands to east of Phase One Property, abutting to Hilden lands.

Date: 19/07/08

PHASE I ESA INTERVIEW

Project #: 1126-103.01

Please complete this questionnaire prior to the Malroz Engineering Inc. site visit and return via email to the project manager.

GENERAL and Interview Overview

Date: 19-07-08

Client/

Company Name: Hilden Homes Ltd.

Phone: 613-962-4600

Fax:

Site Address: 12697 Loyalist Parkway,
Picton, ON

Municipality: Prince Edward County

County:

Owner: Hilden Homes Ltd.

Phone: 613-962-4600

Fax:

Person interviewed: Eric Den Ouden
(president, Hilden Homes)

Phone: 613-962-4600

eric@hildenhomes.com

Site Use: currently vacant
(Zoning to be confirmed)

The date, place, and method of the interview

via phone on July 8 th , 2019
2:00 pm - 2:40 pm

The reason why the person was identified as an interview subject

current property owner, representative of current owner

^dthe
(property or "site" = 12697 Loyalist Parkway, Picton)

Interview Summary

- Mr. Denouden (Hidden Homes Ltd.) has owned ^{the} property since September 2017. He is not local to Picton and therefore has little knowledge of historical site operations & historical land use of surrounding properties.
- The property is currently vacant with no buildings or structures
- there was a mobile trailer on the property when purchased. It was demolished and removed from the property in 2017. Materials transported to Scaletta Waste Mgmt. in Belleville
- supply well on site - likely used by former tenant of mobile trailer. unknown handling of sewage & presence of septic system.
- no oil tanks were observed during demolition of trailer
- Hydro easement on property - but no active hydro service. Municipal dug ditch on property in western portion, drains south to north towards Picton Bay.
- current owner unaware of previous property owner "Pearsoll" & connection to commercial property at 12699 Loyalist Parkway
- current owner unaware of Shell Canada Ltd. lease on property in 1970s. → suggested might be to do with natural gas exploration (ref. to Picton planner Paul Walsh re: map with wellheads)

Relevant information concerning potentially contaminating activity and areas of potential environmental concern noted by the interviewer

→ None provided by the interviewee
→ requested details on mobile trailer demolition (~2017)
→

Project #:

1.0 GENERAL SITE INFORMATION

1.1 Site Use (e.g. agricultural, vacant, petroleum retail/storage, chemical plant, manufacturing, offices, etc): vacant

1.2 Is the property owned or leased? owned by Hilden Homes Ltd.

1.3 Are there any easements, rights of way, leases by or from a third party(ies), encroachments, etc. pertaining to the site? Yes No Don't know

If yes, please explain: Hydro easement, pos. municipal R.O.W. drainage ditch along western portion, drains south to north to Picton Bay

1.4 Prior Property Uses:

Year(s)	Occupancy/Owner	Description of Site Uses
Sept 2017	Hilden Homes Ltd.	vacant, undeveloped.
prior to 2017	unknown	unknown

1.5 General land use in area: Urban Suburban Industrial Rural

Comments: _____

1.6 Uses of adjacent properties:

North: single family residences

East: vacant, wooded area

South: commercial property, res. apt. bldg.

West: Loyalist Parkway, single family residence, Picton Bay

1.7 Have there been any environmental incidents at neighbouring properties (fires, explosions, spills, fugitive emissions, etc.)?

Yes No Don't know unaware of any.

If yes, when/name of company/location: _____

1.8 Direction and distances to nearest ditch/sewer/dry creek bed (or other natural or manmade conveyance) which runs into a water body: municipal dug. ditch along west portion of property, drains south to north to Picton Bay (~200m west)

1.9 Provider(s) for on-site utilities: no on-site utilities, Hydro Easement but not active on-site

Electricity: _____

Natural Gas: _____

Drinking Water: _____

Sewer/Wastewater Treatment: _____

Telephone: _____

Cable: _____

Other: _____

Date:
Project #:

PHASE I ESA INTERVIEW

1.10 Are there any monitoring wells or drinking water wells located on site?

Yes No Don't know

If yes, please explain: 5 x Mws (Malroz Hydrogeological investigation / Geotech. investigation) / 1 x supply well - details unknown

1.11 Has fill been brought to the site?

Yes No Don't know

If yes, please explain: not aware of any during ownership

2.0 BUILDING INFORMATION - No buildings on-site

2.1 Number of buildings: _____

Age of building(s): _____

Construction: _____

Below grade structures _____

(number, age, depth): _____

Former structure - mobile home / trailer

2.2 Existing and former heating and/or cooling systems:

Type	Fuel Source	Approx. age
<u>former heat/cooling</u>	<u>unknown</u>	

2.3 Hydraulic lift equipment (elevators / in-ground hoists / above ground hoists / loading docks):

Type	Location	Approx. age
<u>none reported</u>		

2.4 List any floor drains / French drains / pits / sumps and their locations: _____

none reported

2.5 Security measures/surveillance: No Yes: _____

2.6 Sprinklers: No Yes

Date:
Project #:

PHASE I ESA INTERVIEW

3.0 OPERATIONS INFORMATION

3.1 Type of Facility: Industrial / Commercial / Residential / Other: vacant/undeveloped

Division: N/A

Facility name: _____

Brief description of operations: _____

Products manufactured: _____

Byproducts/waste produced: _____

3.2 Size of facility: N/A

Total site area: _____

Total building area: _____

Manufacturing - ___%; Warehouse - ___%; Laboratory/Pilot plant - ___%; Offices - ___%

Number of employees: _____

3.3 Number of years company has operated at this location: N/A

3.4 Significant changes in product, process, and raw materials in site history: N/A

3.5 Vehicle / Maintenance areas: none reported

3.6 List any federal, provincial, or local environmental enforcement actions against the facility:

N/A

3.7 Materials Entering Property:

dry chemicals Yes No

type: _____

delivery method: _____

comments: _____

petroleum products: Yes No

type: _____

delivery method: _____

comments: _____

wet chemicals: Yes No

type: _____

delivery method: _____

comments: _____

Date:
Project #:

PHASE I ESA INTERVIEW

other:

Yes

No

type: _____
delivery method: _____
comments: _____

3.8 List any spills / fires / explosions / incidents: *none reported*

Date	Materials Involved	Volume Spilled	Location

3.9 Hazardous materials used / stored on site: *none reported*

Type	Use	Location

3.10 Drums / totes / bins stored on site: *none reported*

Contents	Volume	Location

3.11 Above ground or underground storage tanks on site: *none reported*

Contents	Volume	Installation Date	Location

3.12 Oil/water separators: *none reported*

Location	Installation Date	Source of liquid	Discharge Location

Project #:

3.13 Identify appropriate government regulatory agencies to which you report, or for which you have been inspected: *none reported.*

- air emissions: _____
- cooling water discharge: _____
- wastewater discharge: _____
- storm water discharge: _____
- sanitary wastewater discharge: _____
- solid/hazardous/special waste: _____
- chemical handling & storage: _____
- worker safety and health: _____
- fire codes or regulations: _____

3.14 Has smelting ever been conducted on site?

- Yes
- No
- Don't know

4.0 AIR EMISSIONS - *none reported.*

4.1 Does the facility use solvents in any process or cleaning operation?

- Yes
- No
- Don't know

If yes, are the solvents discharged to the atmosphere?

- Yes
- No
- Don't know

4.2 Number of boilers / incinerators on site: _____
Fuel source (primary / backup): _____

4.3 Have there been complaints from employees / neighbouring businesses / residents about odours in or from the facility?: Yes No Don't know

4.4 Does the facility have air emission permit(s) specific to sources, stacks, or processes, or are air emissions addressed in a facility operation permit / license?

4.5 Have there been any emissions of pollutants from any sources beyond permitted levels which have resulted, or are likely to result, in a notice, request for information, administrative inquiry, or fine from any government authority?

- Yes
- No
- Don't know

4.6 Does the facility carry out stack or vent sampling or air monitoring along the property line or points of impingement?

- Yes
- No
- Don't know

Date:
Project #:

PHASE I ESA INTERVIEW

4.7 Does the facility emit SO₂, CO, NO_x, particulate matter, lead, volatile organic compounds (VOCs), asbestos, and/or hazardous air pollutants?
Circle those emitted and list any additional emissions: _____

4.8 Has the facility ever reported under the National Pollutant Release Inventory (NPRI)?
 Yes No Don't know Not applicable
If yes, for which compounds? _____

5.0 WASTE DISPOSAL

5.1 Liquid Waste Yes No
Type: _____
Collection by: municipality contractor on-site disposal other (specify)
Comments: _____

5.2 Solid Waste Yes No
Type: _____
Collection by: municipality contractor on-site disposal other (specify)
Comments: _____

5.3 Effluent discharge type Yes No
Type: _____
Collection by: municipality contractor on-site disposal other (specify)
Comments: _____

5.4 Which of the following waste materials are generated on site?
Identify approximate quantities generated, method(s) of disposal and transfer/storage/disposal contractors: *no waste generated at site*
 Cleaning solvents/degreasing agents: _____
 Paint solids: _____
 Lubricating/hydraulic oils: _____
 Other oils: _____
 Process wastewater: _____
 Sanitary wastewater: _____
 Other process sludges: _____
 Acids/caustics: _____
 Laboratory wastes: _____
 Drums: _____
 Paper and cardboard: _____
 Glass: _____
 Plastics and polymaterials: _____

Project #:

- Scrap metal: _____
- Pallets: _____
- Food wastes: _____
- Other: _____

5.5 Are waste shipment manifests filed on site? NIA
 Yes No Don't know
 If yes, for how long? _____

Are manifests available for review? _____

5.6 Does the facility have an on-site wastewater treatment or pre-treatment plant? NIA
 Yes No Don't know

5.4 Does the facility hold any wastewater discharge permits, or is wastewater address under the general operating permit or license? No waste water generated

5.7 Does the facility monitor wastewater discharge characteristics (flow, pH, temperature, pollutant concentrations, etc.)? NIA
 Yes No Don't know
 If yes, for which parameters and how often? _____

5.8 Has a septic system historically been used at the site?
 Yes No Don't know possibly associated with prev. trailer/mobile home @ the site

5.9 Does the facility generate hazardous or special waste, as defined by environmental regulations?
 Yes No Don't know
 If yes, which regulation(s): _____

List type(s) and volume(s) of waste(s) generated and generator registration ID number(s):
NIA

5.10 Does the facility treat, store, or dispose of hazardous waste on site?
 Yes No Don't know
 If yes, identify wastes, volumes, and treatment methods: _____

5.11 Identify all storage tanks at the facility that store waste materials: NIA

Date:
Project #:

PHASE I ESA INTERVIEW

5.12 Have there ever been any waste holding or treatment lagoons, surface impoundments, piles, or landfills on site?

- Yes No Don't know

If yes, please describe: _____

5.13 Are there any inactive waste disposal sites either on site or adjacent to the site?

- Yes No Don't know

not aware of any.

6.0 DESIGNATED SUBSTANCES / OTHER SUBSTANCES

6.1. Have there ever been any waste holding or treatment lagoons, surface impoundments, piles, or landfills on site?

not aware of any

6.2. Has the facility ever had a Designated Substance Survey completed?

- Yes No Don't know

If yes, date/company/findings: _____

Is the report available for review? _____

6.3. Is asbestos-containing material (ACM) in use at the facility, on piping or process equipment, as part of building insulation, in ceiling or floor tiles, in roofing/siding, joint compound or sewer piping (transite cement)?

NIA

- Yes No Don't know

If yes, does the facility have a routine inspection/maintenance/replacement program for ACM?

NIA

- Yes No Don't know

Does the facility have a practice in place for handling and disposal of ACM?

- Yes No Don't know

NIA

6.4. Are there, or have there ever been, any polychlorinated biphenyl (PCB)-containing electrical transformers, capacitors, heat transfer or hydraulic systems in use at the facility?

- Yes No Don't know

NIA

If yes, has a PCB-containing unit ever leaked?

- Yes No Don't know

NIA

6.5. Does the facility have a PCB storage facility pursuant to any regulation?

- Yes No Don't know

NIA

Date:
Project #:

PHASE I ESA INTERVIEW

6.6. Are there any radioactive sources on site?
 Yes No Don't know

If yes, are there Atomic Energy Control Board (AECB) permits available?
 Yes No Don't know

6.7. Are chlorofluorocarbons (CFCs) used at the site as a cleaner or propellant?
 Yes No Don't know

6.8. Are chlorofluorocarbons (CFCs) used as refrigerants at the site?
 Yes No Don't know

6.9. Is servicing of CFC-containing equipment carried out by a contractor certified in ozone depletion training? *N/A*
 Yes No Don't know

6.10. Has any heavy metal (lead, cadmium, zinc, etc.) paint been used on site?
 Yes No Don't know

6.11. Is ammonia used at the site?
 Yes No Don't know

7.0 GROUNDWATER / SOIL ON SITE

7.1. Does the facility have groundwater monitoring wells?
 Yes No Don't know

If yes, describe the number of wells, date(s) of installation, testing frequency, and parameters monitored: 5 MWs

7.2. Does the facility have any soil contamination problems?
 Yes No Don't know *not aware of any*
Describe any previous or current events that would cause soil contamination: _____

7.3. Has oil ever been sprayed for dust control? *not aware of any occurrence*
 Yes No Don't know

SCALETTA GROUP50 Mineral Road
Belleville, ON K8N 4Z5Inbound
Ticket #: **280384**

Date: 02/23/18

Time In:10:09

Time Out:10:17

Vehicle No. AR63177

Material No. I.C.I.

Material Rate: \$97.00/tn

Customer:DSS001

DEVIRIS SITE SERVICES
3640 COUNTY ROAD 3

CARRYING PLACE, ON KOKILO

Method of Payment: 1 - Charge on Account

Tipping Fee	421.95	Gross	18250 kg	Gross Scale #MAN WT
	0.00	Tare	13900 kg	Tare Scale #MAN WT
HST	54.85	Net	4350 kg	
Total Fee	\$476.80	Net Tons	4.35	

TOTAL FEE: \$476.80

TENDERED: 0.00

CHANGE: 0.00

Driver: _____

I agree that I have not disposed of any hazardous materials ie.paint,propane tanks,batteries etc
Note:

SCALETTA GROUP50 Mineral Road
Belleville, ON K8N 4Z5Inbound
Ticket #: **281174**

Date: 03/06/18

Time In:13:38

Time Out:13:44

Vehicle No. AR63177

Material No. I.C.I.

Material Rate: \$97.00/tn

Customer:DSS001

DEVVIS SITE SERVICES
3640 COUNTY ROAD 3

CARRYING PLACE, ON KOK1LO

Method of Payment: 1 - Charge on Account

Tipping Fee	545.14	Gross	19260 kg	Gross Scale #MAN WT
	0.00	Tare	13640 kg	Tare Scale #MAN WT
HST	70.87	Net	5620 kg	
Total Fee	\$616.01	Net Tons	5.62	

TOTAL FEE: \$616.01

TENDERED: 0.00

CHANGE: 0.00

Driver: _____

I agree that I have not disposed of any hazardous materials ie.paint,propane tanks,batteries etc
Note:

SCALETTA GROUP

50 Mineral Road
Belleville, ON K8N 4Z5

Inbound
Ticket #: **281857**

Date: 03/16/18

Time In:08:20

Time Out:08:25

Vehicle No. AR63177

Material No. I.C.I.

Material Rate: \$97.75/tn

Customer:DSS001

DEVVIS SITE SERVICES
3640 COUNTY ROAD 3

CARRYING PLACE, ON KOK1LO

Method of Payment: 1 - Charge on Account

Tipping Fee	188.66	Gross	15420 kg	Gross Scale #1	}
	0.00	Tare	13490 kg	Tare Scale #MAN	WT
HST	24.53	Net	1930 kg		
Total Fee	\$213.19	Net Tons	1.93		

TOTAL FEE: \$213.19 TENDERED: 0.00 CHANGE: 0.00

Driver: _____

I agree that I have not disposed of any hazardous materials ie.paint,propane tanks,batteries etc
Note:

Phase One SITE RECONNAISSANCE VISIT NOTES

Project # 1126
Malroz Rep: J. Poisson
Date: 19-06-27
Client/
Company Name: Hidden Homes

1.0 SITE RECONNAISSANCE General

- i. date and time of the investigation,
June 27, 2018, 1:45 pm - 3:00 pm (on-site)
- ii. weather conditions, 3:00 pm - 4:10 pm (surrounding properties)
Sunny, hot, 30°C, dry ground surface
- iii. the length of time of the investigation,
1:45 pm → 4:10 pm
- iv. whether the facility was operation at the time of the investigation, where the Phase One Property is an enhanced investigation property that is currently being used for the one of the uses described in clause 30 (1) (b) of the regulation, and
vacant land / undeveloped
- v. the name and qualifications for the person conducting the investigation.
Justina Poisson, B.Sc., A.Sc.T.

2.0 Specific Observations at Phase One Property

a general description of structures and other improvements, including the number and age of buildings,

- no buildings observed
- hydro line runs through site, N-S direction
↳ electric service meter (disconnected) observed suggesting previous building

a general description of the number, age and depth of below-ground structures,

- none expected due to vacant status
- poss. remnants of prev. building foundations although not observed during site visit

details of all tanks, above and below ground, at the Phase One Property, including the material and method of construction of the tank, tank age, tank contents and tank volume, whether in use or not, and

none observed

any potable and non-potable water sources.

water supply well obs. during prev. geotech. / hydrogeological investigation - no UWR found

Based on the inquiries referred to in paragraph 2 of subsection 13 (1), provide the type and approximate location of underground utility and service corridors, such as sewer, water, electrical or gas lines, located on, in or under the Phase One Property.

- **Natural gas line.**

Bridge Street / Loyalist Pkwy (w. adj.)
→ also NG compressor station (44 m north)

- **Hydro cables**

- on-site aboveground (w. adj.)
- Bridge Street / Loyalist Pkwy (w. adj.)

- **Water lines**

Bridge Street / Loyalist Pkwy (w. adj.)

- **Sanitary sewer line**

Bridge Street / Loyalist Pkwy (w. adj.)

- **Storm sewer line**

Bridge Street / Loyalist Pkwy (w. adj.)

Based on the investigations referred to in paragraph 3 of subsection 13 (1), identify and document the following features of structures and building at the Phase One Property, exit and entry points,

details of existing and former heating systems, including type and fuel source,

NIA → no bldgs on property

details of cooling systems, including type and fuel source, if any,

details of any drains, pits and sumps, including their current use, if any, and former use,

details of any unidentified substances, and

details, including, locations, of stains or corrosion on floors other than from water, where located near a drain, pit, sump, crack or other potential discharge location.

Provide the documentation referred to in paragraph 4 of subsection 13 (1) of,

details including locations of current and former wells, including all wells described or defined in or under the Ontario Water Resources Act and Oil, Gas and Sale Resources Act,

- water supply well, ~ 300m east of site entrance.
- monitoring wells (x 5, Malroz in 2018) → see rpt for locations

details of sewage works, including their location,

NIA

details of ground surface, including type of ground cover, such as grass, gravel, soil or pavement, and

- wood chips from removed trees covering large sections throughout
- ~ 40% grass vegetation (N. portion) mainly S.E. portion of site.
- ~ 35% woody plant vegetation (S. portion)
- ~ 20% trees (perimeter)
- rolling topography; steep ele. change on eastern portion of site

details of current or former railway lines or spurs and their locations.

NIA

5% gravel parking/road entrance off of Loyallst P12W4

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Provide the documentation, referred to in subsection 13 (2), of the following, areas of stained soil, vegetation or pavement,

sm. stain on gravel (< 1m) near entrance

stressed vegetation,

none observed.

areas where fill and debris materials appear to have been placed or graded,

→ wood chips - various locations throughout property, mainly in south, eastern portions of site

details of any unidentified substances found at the property

none observed

(3) Where the phase one property is an enhanced investigation property that is currently being used for one of the uses described in clause 32 (1) (b) of the regulation, investigations shall be carried out to identify, locate and document,

- (a) operations at the property, including processing or manufacturing;
- (b) hazardous materials used or stored at the phase one property;
- (c) products manufactured at the phase one property;
- (d) by-products and wastes at the phase one property;
- (e) raw materials handling and storage locations at the phase one property;
- (f) location and contents of drums, totes and bins at the phase one property;
- (g) details of all oil/water separators at the phase one property including for each separator the location, installation date, source of incoming liquid and effluent discharge location;
- (h) all vehicle and equipment maintenance areas, including the locations of maintenance, fluid storage, and waste storage areas;
- (i) details of all spills including the dates, locations, materials involved, and volumes of material spilled;
- (j) details of liquid discharge points such as water and French drains, including their locations; and
- (k) details of all hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks.

3.0 Written Description of Investigation

- J. Poisson on-site @ ~1:45 pm for unaccompanied site visit
- Accessed Phase One Property via Loyalist Parkway entrance
- Transected property down western boundary, across southern perimeter, across eastern perimeter (Top of slope) and down northern perimeter. Continued along north western perimeter following access path towards middle of property (toward hydro corridor)
- Vegetation very overgrown in south western portion preventing access, tree vegetation around perimeter very dense preventing access
- observations around perimeter of property made for any debris/fill due to encroachment from adjacent properties → none observed.
- significant quantity of wood chips observed throughout site, mainly in SE portion of property (see photos)
- trace debris observed including tires, plastic fragments, electrical wire, metal fragments along access road at western perimeter of site (see photos)

→ poss. bldg materials fragments / debris
observed approx. 250m west of site entrance
close to access road (see photos). Trace
shingle, wood fragments observed within an
area that appears to be filled ^{with} wood
chips obs. at the surface (see photos)
→ trickling stream observed along northern
perimeter of property (see photos), tried
to chase to source but trees too dense.
Draining west, becomes dry about
halfway down perimeter
→ Stream / drainage ditch observed
running N-S, S-N (dry), with culvert
under access road, approx 100 m east
of Loyalist Pkwy
Surrounding Properties (see photos)
N: Residential, vacant / wooded lands
E: wooded / undeveloped lands
S: Residential
W: Commercial, Pkwy, Residential, water body