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ENVIRONMENTAL SITE ASSESSMENT
PHASE I REPORT

AT

PART OF LOTS 31, 32 & 33,
CONCESSION 1,
TOWNSHIP OF HUMBERSTONE,
CITY OF PORT COLBORNE,
KILLALY STREET WEST, ONTARIO

PREPARED FOR:

1000046816 ONTARIO LIMITED.
1 VALLEYBROOK DR SUITE 303, NORTH YORK, ON M3B 2S7

December 17th, 2021

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EXECUTIVE SUMMARY

King EPCM (the Engineer) was retained by Sean Talaei, 1000046816 Ontario Limited (the Client) to conduct a Phase I Environmental Site Assessment (ESA). The Phase I ESA property is located at Part of Lots 31, 32 & 33, Concession 1, Township of Humberstone, City of Port Colborne, Killaly Street West, Regional Municipality of Niagara, Ontario (the Site).

It is understood that the Phase I ESA documented herein is being undertaken by the Client for the sole purpose of the intention to purchase the property. The Phase I ESA report may be submitted to the due diligence teams for banks and financial institutions. The Records of Site Condition (RSC) submission is required based on the proposed development needs of Client, and would be required in the future for the property development.

The date of last work on all of the records review, interviews and site reconnaissance for the Phase I ESA is December 17th, 2021 (per Section 28 of O. Reg. 153/04).

The Phase I property is approximately 563,000 m^2 (139 acres) according to the Site Survey from Chambers and Associates Surveying Ltd. (Surveyor). The Site is situated at the south of Highway 3, west of Killaly Street, east of Cement Road, north of Gord Harry Conservation Trail, Port Colborne, Ontario. The Site was on the industrial land use, with residential properties to the north, east and south, and a quarry pond to the west followed by the agricultural area.

The scope of the investigation for the Site included an extensive review of historical records associated with the Site, site reconnaissance and the interviews based on the Reg. 153/04 requirements. The report documented the findings based on relevant information, and made conclusions for likelihood of Areas of Potential Environmental Concern (APEC's) associated with the Potentially Contaminating Activities (PCA's).

The Phase I ESA identified that the Site was previously used as a concrete factory with the operational activities for production onsite. In addition, topsoil, earth fill, and stockpiles of mixed sand and gravel, remnants of railway ties and rails, paint containers were noted in the previous environmental records. Therefore a Phase II ESA is required to further investigate the APEC's associated with these PCA's.

This report has been prepared for the sole use of 1000046816 Ontario Limited (the Client), or any financial institutions for due diligence purposes. This report is considered an intellectual property of King EPCM, and third party use of this report, including reliance, in-part or full, is prohibited without written consent from King EPCM.

1. INTRODUCTION

King EPCM (the Engineer) was retained by Sean Talaei, 1000046816 Ontario Limited (the Client) to conduct a Phase I Environmental Site Assessment (ESA). The Phase I ESA property is located at Part of Lots 31, 32 & 33, Concession 1, Township of Humberstone, City of Port Colborne, Killaly Street West, Regional Municipality of Niagara, Ontario (the Site).

It is understood that the Phase I ESA documented herein is being undertaken by the Client for the purpose of the intention to purchase the property. The Phase I ESA report may be submitted to the due diligence teams for banks and financial institutions. The Records of Site Condition (RSC) submission will be required based on the Client's proposed development.

1.1. PHASE I PROPERTY INFORMATION

The Phase I property is approximately 563,000 m^2 (139 acres) according to the Surveyor. The Site is located at parts of Lt 31, 32 & 33, Concession 1, Township of Humberstone, City of Port Colborne, Killaly Street West, Regional Municipality of Niagara, Ontario. The Site is situated at the south of Highway 3, west of Killaly Street, east of Cement Road, north of Gord Harry Conservation Trail in Port Colborne.

The property information and legal description is as follows according to the Surveyor and the GeoWarehouse Property Report (Geowarehouse):

Site Address:	0th Killaly Street West, Port Colborne
PIN:	641570023, 641570022, 641570123
Owner:	Colborne Estate Company Ltd.
Legal Description:	Part of Lots 31, 32 and 33, Concession 1; Part of Road Allowance between Lots of 32 and 33, Concession 1; Part of Road Allowance between Townships of Wainfleet and Humberstone; Port Colborne. Part 1, 2, and 3 for PIN 64157-0023 (LT) Part 4, 5, 6 and 7 for PIN 64157-0022 (LT) Part 8 and 9 for PIN 64157-0123 (LT)

2. SCOPE OF INVESTIGATION

The Phase I ESA was completed in general accordance with the O. Reg. 153/04, and with the revision of O. Reg. 511/09. The report was created using:

- Historical records, such as environmental incidents, information databases, aerial photographs, and any documentation associated with the site
- Interviews with the property owner
- Site reconnaissance

The final results of the report are:

- Identification of the Phase I Study Area
- Identification of PCA's within the study area
- Likelihood of PCA's to influences the Phase I property
- Identification of any APEC's within the site due to PCA's with a high likelihood of influence & contamination
- Phase I Conceptual Site Model (CSM)
- Identification for the possible requirement of ESA Phase II Report

3. RECORDS REVIEW

3.1. GENERAL

3.1.1. PHASE I STUDY AREA DETERMINATION

As per O. Reg. 153/04, the Phase I study area is 250 m radius from the outer boundary of the site property, while the Phase I property refers to the property that is the subject of the Phase I ESA (the Site). For the purposes of this study, all properties, or parts of a property, that is within the 250 m radius is considered to be within the study area. See attached Appendix I for a detailed map of the Phase I study area.

3.1.2. FIRST DEVELOPED USE DETERMINATION

Based upon historical aerial photographs from Environmental Risk Information Services (ERIS), the property had been first developed as a concrete factory back to 1934, in an industrial land use. The property has been used as the industrial land until between 1968 and 1974 when the factory was demolished from the Site, and the Site remained empty ever since.

3.1.3. FIRE INSURANCE PLANS

The historical Fire Insurance Plan (FIP) was reviewed. The FIP contained 1914 Ontario Miscellaneous Firemap 1 and 1953 Port Colborne Firemap 25. The FIP information indicated the facilities and rails onsite, which raised the environmental concerns for the previous operations with PCA's.

3.1.4. CHAIN OF TITLE

A Chain of Title was researched according to the GeoWarehouse Property Report. The current owner is Colborne Estate Company Ltd. since December 2015. The property was owned by 2260304 Ontario Inc. between November 2010 and December 2015; and was owned by 737089 Ontario Inc. from August 1993 to November 2010.

Based on the information from FIP, the earliest document for the cement factory and the quarry ponds was back to 1914. The ownerships between 1993 and 1914 were under review as per historical title search by the Client.

Table 1 - Chain of Title

Year Period	Property Owner
Dec. 2015 - Current	Colborne Estate Company Ltd.
Nov. 2010 – Dec. 2015	2260304 Ontario Inc.
Aug. 1993 – Nov. 2010	737089 Ontario Inc.
1993 - 1914	Under review as per title search by the Client

3.1.5. PREVIOUS ENVIRONMENTAL REPORTS

A previous ESA Phase I, completed by Soil Engineers Ltd. in 2011, was available and reviewed. According to this Phase I ESA report, the subject property was mainly used as a concrete factory throughout the historical years. It was a vacant land during the Phase I ESA reconnaissance in 2011. Soil Engineers Ltd. identified a few environmental concerns and required a further investigation based on the Phase I ESA findings for the following items:

- The field of the former concrete factory.
- Topsoil, earth fill, and stockpiles of mixed sand and gravel.
- Remnants of railway ties and rails.
- Stockpiles of asphalt.
- Paint containers.

3.2. ENVRIONMENTAL SOURCE INFORMATION

King EPCM reviewed the data primarily provided from Environmental Risk Information Services (ERIS) for environmental source information gathering. The information ERIS gathered included historical records for PCA's within the Phase I study area through various federal, provincial, and private resources.

ERIS has conducted a database search and compiled environmental source information from 72 different databases, and a total of 95 reports were identified for Phase I study area. As part of search and compilation of the 72 environmental databases, all requirements of Paragraph 7 of subsection 3 (2) of O. Reg. 153/04 are satisfied.

Below are the major categories which returned positive results that required additional review.

- Environmental Registry and Environmental Compliance Approvals (ECA)
- Ontario Regulation 347 Waste Generation Summary
- TSSA Historic Incidents
- Pipeline Incidents
- Scott's Manufacturing Directory
- Ontario Spills

The full ERIS database report can be found in Appendix III.

3.3.PHYSICAL SETTING SOURCES

3.3.1. AERIAL PHOTOGRAPHS

Historical aerial photographs associated with the Site were reviewed from ERIS information, with the earliest date back to 1934, until 1988. The Site aerial photographs were also reviewed from the Niagara Air Photo Index from 2000 to 2018.

The aerial photographs indicated that the Site had been an industrial land for a concrete factory, associated with cement and aggregates processing onsite. There were operational buildings, storage cylinders and chimney on the property, from 1934 to 1968. Between 1968 and 1973, the entire concrete factory was completely removed. The factory facilities were no longer visible in the 1973 aerial photograph, and the Site remained empty ever since. The quarry pond at the west side of the previous factory remained onsite. The adjacent areas contained residential properties to the north, east and south, and a quarry pond to the west followed by the agricultural area.

Table 2 - Aerial Photograph by Year

Year	Description of Phase I Property	Adjacent Properties within Phase I Study Area
1934	The historical cement and concrete factory was visible onsite, with smoke emission from the factory. The quarry pond was visible to the west of the factory. It was an industrial land.	The surrounding areas were the undeveloped agricultural land; some residential area appeared to be on the southeast outside of the subject property.
1954	A closer look at the Site, some storage cylinders and factory buildings were visible.	The aerial photograph didn't cover the surrounding areas.
1965	The operational buildings, storage cylinders,	The aerial photograph didn't cover the surrounding

	the chimney were visible onsite.	areas.
1968	The onsite operational facilites and the quarry pond to the west of the factory were visible. The land remained as the industrail use.	The north and south outside the subject property were developed as residential area, while other area remained as the agricultural use.
1973	The entire factory was completely demolished. The quarry pond remained onsite. It was inferred that the removal of the entire factory happened between 1968 and 1973.	More residential buildings were built on the north and south outside of the subject property, especially the south side.
1976	The Site remained the same.	The surrounding area remained the same.
1982	The original factory location was still visible.	More residential buildings were built on the south side.
1988	The Site remained the same.	The surrounding area remained the same.
2000	The original factory location was less visible. The quarry pond remained the same.	The south side out of the subject property had more residential buildings built up.
2006	The soil of the original factory location looked similar to the nearby soil.	Some dwellings appeared to be built on the west and northwest outside of the quarry pond.
2010	The original factory location was almost invisible.	The surrounding areas remained the same.
2015	There were grass and soil on the Site.	The north, east and south outside of the subject property were well developed as residential properties.
2018	The Site remained the same.	The surrounding areas remained the same.

The aerial photographs can be found in the Appendix V.

3.3.2. TOPOGRAPHY, HYDROLOGY, GEOLOGY

The topographic information from the Ontario Base Map (OBM), the Ministry of Natural Resources and Forestry (MNRF) was reviewed. The Phase I property is located on a relatively flat area with a general elevation of approximate 180 m (amsl), with the quarry pond elevation of 176 m (amsl). The general surface drainage is towards the southwest direction in the region.

The Bedrock Geology Report from ERIS was reviewed for geological information. The rock type included limestone, dolostone and shale, and the primary strata contained Onongada Formation for Detroit River Group.

The Physiography of Southern Ontario from ERIS was reviewed, and the Site was situated at the Limestone Plan physiographic area.

The Soils Report from ERIS indicated that this Hydrological Soil Group near the Site belonged to the soils with moderate infiltration rates when completely wetted. Soils were sandy loam soils with moderately fine to moderately coarse textures. The soil texture of A horizon was silty clay.

The Surficial Geology of Southern Ontario form ERIS indicated that the Site was located in the Onondaga and Bois Blanc Formation. The surficial materials contained Cherty limestone including locally glausonitic sandstone of the Springvale Member.

The above information can be found in Appendix VI.

3.3.3. FILL MATERIALS

Historical records revealed that there might be some earth fills to the Site, though the fill materials and the locations were not documented. Due to historical industrial processing, it was assumed that there were historical soil fill, especially during the topsoil stripping activities to create the ponds. However based on the historical aerial photographs, there has been no recent earth fill from 1973 to the present.

3.3.4. WATER BODIES & AREAS OF NATURAL SIGNIFICANCE

Based on OBM and MNRF Topographic Maps and the Site Survey by the Surveyor, the water body onsite was the existing Quarry Ponds on the property, which was categorized as "provincially significant wetland" (PSW). The Site was at the downstream of the Area of Natural Significance (ANSI) for "Wainfleet Bog Wetland Complex", which would be further confirmed by a Natural Heritage Evaluation (NHE) Report to determine if the Site was situated as part of this ANSI area.

3.3.5. WELL RECORDS

Based on the available historical well records from ERIS and the database from the Ministry of the Environment, Conservation and Parks (MECP), there was a groundwater well in the subject property. It was a domestic well (ID 6600905) for water supply, and the soil conditions described by the well records were as follows:

- 0 – 0.61 m clay
- 0.61 – 9.75 m limestone

This site was also considered as "shallow soil property".

The well records can be found in the Appendix IV.

3.4. SITE OPERATING RECORDS

The Site was used as a concrete factory back to 1934, until between 1968 and 1973 when the factory was demolished. The historical operational records were not available; however a previous Phase I ESA report as well as other information including FIP was available and reviewed.

As a previous operational Site for the concrete industry, it was involved with cement and aggregates operations. The PCA's were associated with the factory operation, the railway remnants, the topsoil and earth fill, the asphalt and paint containers. Therefore a further investigation on these locations was recommended.

4. INTERVIEWS

The interview was conducted by Tony Wang, Principal Engineer and QP-ESA of King EPCM, with Mr. Galen Lam, the previous director of 2260304 Ontario Inc., with the ownership of the property back in 2010 till 2015. Mr. Lam commissioned the historical ESA Phase I report, EIS report, and many other technical studies with knowledge about the Site's history. After cross-referencing the information from the interview against records, it is confirmed that the person interviewed was knowledgeable and reliable regarding the Site property.

The following is a summary of the information received from the interviews:

Galen Lam
Previous Director of 2260304 Ontario Inc.
October 18th, 2021

- This Site was originally used to mine the limestone bedrock, which was converted into cement, and shipped by the rail along the southern property boundary to construct the Welland Canal.
- The age or starting date of the Pond was unknown.
- The date or time the cement factory ceased operations was unknown.
- The previous ESA Phase I and preliminary geotechnical report suggested that there was shallow soil cover due to the historic mining operations.
- There was no known contamination from the Site since the factory had been demolished and ceased the operation.
- The Site has been an abandoned brownfield site ever since the end of the factory.
- There was a large stockpile of agricultural-grade lime products at the southwest corner of the Site. This product has been confirmed as usable and can be sold to local farmers.

5. SITE RECONNAISSANCE

5.1. GENERAL REQUIREMENTS

The Site investigation of the Phase I study area was conducted by Tony Wang, Principal Engineer and QP-ESA of King EPCM, on October 19th, 2021. The investigation occurred in the following circumstances:

- Date: October 19th, 2021.
- Weather condition: 22°C, cloudy and damp.
- The Site was inspected and observed, with an in-depth investigation on the property.
- Neighbouring residential/commercial/agricultural activities were also observed during the Site reconnaissance.

5.2. SPECIFIC OBSERVATIONS AT PHASE I PROPERTY

5.2.1. SITE DESCRIPTION

The Site was considered as the industrial land use historically throughout the years until the factory was demolished. The Site was currently vacant. Other observational details included:

- The north property boundary was along the Killaly Street West, a main regional road, and contained currently flat agricultural grass, with a small stand of trees at the northwest corner.
- The east property boundary abutted Elgin Street, and there were currently two parks with manicured grass lawn and a pedestrian trail entering into the property.
- The south property boundary included a drainage channel running from southeast to southwest, and discharged into the Quarry Ponds. A railway line for parking & temporary storage purposes was on the south of the drainage channel.
- The west property boundary visit ended at the quarry pond as well as the island within the pond.

5.2.2. SITE UTILITIES

There were existing municipal / regional natural gas lines and stormwater sewer along Killaly Street West at the north property boundary, as well as at Elgin Street cul-de-sac at the east property boundary. There was also a main electrical feeder powerline running through the property on hydro poles.

5.2.3. BUILDING DESCRIPTION

There were no standing buildings at the Site, but remnant concrete foundation was visible in several locations where demolition of the factory did not fully remove the concrete elements.

5.2.4. WELLS AND SUB-SURFACE HISTORY

Based on the available historical well records from ERIS and the database from the Ministry of the Environment, Conservation and Parks (MECP), there was a groundwater well in the subject property. It was a domestic well (ID 6600905) for water supply, and the soil conditions described by the well records were as follows:

- 0 – 0.61 m clay
- 0.61 – 9.75 m limestone

5.2.5. NON-BUILDING INVESTIGATION

The following items were observed during the Site reconnaissance:

- The central portion of the pond showed several areas of open bedrock of limestone, as well as historic building foundation elements such as concrete and exposed steel rebar, and minor pedestrian vandalism via spray paint. No containers or refuse were found, but there were multiple concrete structure foundations covered with trees, logs, and vines.
- Neighbourhood: residential sub-division on the north, a small neighbourhood commercial plaza on northeast, residential sub-division on the east, a railway line for parking and then more residential sub-division on the south, the Quarry Ponds and more residential lots surrounding the pond on the west.
- There was a large powdery stockpile of most likely limestone dust / limestone powder at the southwest corner of the property

In summary, there were no signs of distressed vegetation, unidentified substances, or other PCA's during the Site investigation.

5.2.6. ENHANCED INVESTIGATION PROPERTY

The Site was ever used as an industrial operational use and PCA's were identified within the Phase I property, as per Column A of Table 2 of Schedule D in O. Reg. 153/04. Therefore, the Site was considered to be an Enhanced Investigation Property as described in Section 32 (1) (b) of O. Reg. 153/04. A further investigation was required.

5.3.WRITTEN DESCRIPTION OF INVESTIGATION

The Site investigation of the Phase I study area was conducted by Tony Wang, Principal Engineer of King EPCM on October 19th, 2021 to identify, describe, and document specific items of the Site and at surrounding properties within the Phase I study area, in accordance with Schedule D of O. Reg. 153/04.

The Site investigation included a perimeter inspection of the Site property, with detailed inspection for specific features within the Site and the evidences of PCA's onsite. The Site investigation also included the surrounding Phase I study area, to check for stressed vegetation, stained areas, and any visible air emissions / potentially contaminating activities.

In summary of the Site investigation, a number of PCA's in previous factory operations have been noted on the property, which needed a further investigation. Some PCA's identified offsite documented in the historical environmental records in the Phase I study area did not have direct impacts on the property.

6. REVIEW AND EVALUATION OF INFORMATION

6.1. CURRENT AND PAST USES

A summary description of the current and past uses of the site is as follows:

Table 3 - Current and Past Uses of the Site

Year Period	Property Owner	Land Use	Description of Property
Dec. 2015 - Current	Colborne Estate Company Ltd.	Empty field	Grass land with a quary pond
Nov. 2010 – Dec. 2015	2260304 Ontario Inc.	Empty field	Same as above
Aug. 1993 – Nov. 2010	737089 Ontario Inc.	Empty field	Same as above
1993-1914	Under review as per title search by the Client	Industrial land use historically	Historically a concrete factory, demolished between 1968 and 1973.

The available recorded history of the Site from aerial photograph review and previous Phase I ESA information review indicated that the Site had been an industrial land with a concrete factory onsite since 1934. The factory was removed between 1968 and 1973. The Site remained empty with the existing quarry pond since then. The available information from GeoWarehouse indicated that the property was owned by 737089 Ontario Inc. from 1993 to 2010, and was transferred to 2260304 Ontario Inc. in 2010. Colborne Estate Company Ltd. has owned the property from 2015 to the present since purchasing it from 2260304 Ontario Inc. in 2015.

Based on the information from FIP, the earliest document for the cement factory and the quarry ponds was back to 1914. The ownerships between 1993 and 1914 were under review as per historical title search by the Client.

6.2. POTENTIALLY CONTAMINATING ACTIVITIES

Potentially Contaminating Activity (PCA) as defined in O. Reg. 153/04 is a use or activity defined in Column A of Table 2 of Schedule D, that occurs or has occurred in the Phase I property or the Phase I study area.

After extensive review, it was in the Engineer's opinion that PCA's have been found in the records historically occurred within the Phase I site property.

1. PCA#12 – Concrete and Cement Manufacturing (within the previous concrete factory location).
2. PCA#30 – Importation of Fill Material of Unknown Quality (potentially in the factory location).
3. PCA#39 – Paints Processing and Bulk Storage (paint containers potentially in the factory).

4. PCA#46 – Rail Yards, Tracks and Spurs (in the previous railway location).

A total of 6 locations with off-site PCA's have been identified within the Phase I study area, with the majority of industrial/commercial activities to the northeast of the property, as well as some to the north and east of the property.

Table 4 - List of Potentially Contaminating Activities (PCA's) within 250m Phase I Study Area

PCA	Activity Description	Address (Off-Site)	Distance from Site	Elevation Difference	ERIS map site
1	PCA#42 Pharmaceutical	Mapleview Medical Clinic 340 Elgin Street, Port Colborne.	97.0 m east	0 m	26
2	PCA#55 Transformer oil	Canadian Niagara Power Inc. 1776 Miner Road, Port Colborne	110.1 m northwest	4.13 m	28
3	PCA#54 Textile Process	Newport Signs, 300 Killaly St W Unit 8, Port Colborne	134.0 m northeast	1.0 m	32
4	PCA#63 Oil Production	Dominion Natural Gas co. Ltd. - Mathias Neff No. 36	208.5 m east and northeast	1.0 m	43
5	PCA#58 Wastes	Lock 8 Equipment Inc. 266 Killaly Street West Port Colborne	236.1 m east and northeast	1.0 m	49
6	PCA#58 Wastes	City of Port Colborne 52 Westside Road Port Colborne	236.5 m east and northeast	1.0 m	50

6.3. AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

Areas of Potential Environmental Concern (APEC's) as defined in O. Reg. 153/04 is the area on, in or under a Phase I property where one or more contaminants are potentially present, as determined through the Phase I environmental site assessment, including through identification of past or present uses on, in or under the Phase I property, and, identification of potentially contaminating activity.

Based on the findings of PCA's for the Phase I property area, it was in the Engineer's opinion that the APEC's associated with previous PCA's onsite required further Phase II ESA investigations, especially for the filing of Record of Site Conditions (RSC) for site development:

The list of APEC's, PCA's and the potential contamination media is as follows:

Table 5 - List of APEC's, PCA's and Potential Contamination Media

APEC	Location	Onsite PCA's	Potential Contamination Media (Soil, Groundwater, Sediment)
1	Previous concrete factory location	PCA#12, PCA#30, PCA#39, PCA#46.	Soil

6.4. PHASE I CONCEPTUAL SITE MODEL

6.4.1. SITE FEATURES

The Phase I property is approximately 563,000 m^2 (139 acres), located at parts of Lt 31, 32 & 33, Concession 1, Township of Humberstone, City of Port Colborne, Killaly Street West, Regional Municipality of Niagara, Ontario. The Phase I property was previously used as an industrial land, and is current an empty field.

The water body onsite was the existing Quarry Ponds on the property, which was categorized as "provincially significant wetland" (PSW). The Site was at the downstream of the ANSI "Wainfleet Bog Wetland Complex", which would be further confirmed by a Natural Heritage Evaluation (NHE) Report to determine if the Site was situated as part of this ANSI area.

Based on the extensive review of historical records, environmental source databases, and the Site investigation, it was determined that a number of PCA's have occurred onsite during the industrial operational use, that would require a further investigation. There were some off-site PCA's in the Phase I Study Area, but did not have direct impacts on the property.

6.4.2. ADJACENT PROPERTIES

The Site is situated at the south of Highway 3, west of Killaly Street, east of Cement Road, north of Gord Harry Conservation Trail in Port Colborne.

A description of the adjacent properties is summarized below:

Table 6 - Adjacent Properties

Adjacent Property	North	East	South	West
Operation or Activity	Residential and Agricultural	Residential	Residential	Agricultural
Elevation difference / inferred groundwater flow	Flat to upgradient	Flat to upgradient	Flat to downgradient	Flat to downgradient
Visible emissions	No	No	No	No
Visible outdoor storage of hazardous materials	No	No	No	No

6.4.3. STORAGE TANKS

No storage tanks were identified onsite.

6.4.4. ASSESSMENT OF PCA / COC

Based on extensive review of historical records, review of environmental source databases, and the Site reconnaissance, it was determined that there were potential Contaminates of Concern (COC's) from the onsite APEC's, due to the PCA's for the previous concrete factory. This requires the further investigation and assessment for the Site.

The list of APEC's, PCA's Potential contamination media and the COC's is as follows:

Table 7 - List of APEC's, PCA's, Potential Contamination Media and COC's

APEC	Location	Onsite PCA's	Potential Contamination Media (Soil, Groundwater, Sediment)	COC's to be tested
1	Previous concrete factory location	PCA#12, PCA#30, PCA#39, PCA#46.	Soil	Metals, Inorganics, PHC BTEX, F1-F4, VOC

6.4.5. UNDERGROUND UTILITIES

There were existing municipal / regional natural gas lines and stormwater sewer along Killaly Street West at the north property boundary, as well as at Elgin Street cul-de-sac at the east property boundary.

6.4.6. GEOLOGY / HYDROGEOLOGY

Based on the geology and hydrogeology information records, the Site surficial geology materials contained Cherty limestone including locally glausonitic sandstone of the Springvale Member, and the rock type included limestone, dolostone and shale.

A groundwater well was identified in the subject property. It was a domestic well (ID 6600905) for water supply, and the soil conditions described by the well records were as follows:

- 0 – 0.61 m clay
- 0.61 – 9.75 m limestone

6.4.7. UNCERTAINTY

Within the Site records review and reconnaissance, the Engineer was certain that there were previous PCA's documented for the property, that required a further investigation of potential COC's. No uncertainty or absence of information obtained in each of the components of the Phase I ESA could affect the validity of the model.

7. CONCLUSION

7.1. SUMMARY OF PHASE I ESA

It is understood that the Phase I ESA documented herein is being undertaken by the Client for the sole purpose of the intention to purchase the property.

Based on the investigation for historical information and reconnaissance for the current Site situation, the Phase I ESA revealed that there were PCA's in the previous concrete factory onsite, and the APEC's with the associated COC's needed to be further investigated. Therefore a Phase II ESA is required for this Site.

7.2. RSC & PHASE II ESA

Records of Site Condition (RSC) submissions will be required based on the Client's needs, but can be conducted at a later time.

A Phase II ESA is required based on the Phase I ESA findings for further investigation of potential contamination on the soil due to the previous onsite operation activities.

7.3. SIGNATURES

The Phase I ESA property is at parts of Lt 31, 32 & 33, Concession 1, Township of Humberstone, City of Port Colborne, Killaly Street West, Regional Municipality of Niagara, Ontario, and the Phase I ESA investigation was conducted under the supervision of Tony Wang, the principal engineer and a Qualified Person (QP) as in accordance with O. Reg. 153/04 and updated by O. Reg. 511/09. This report was based on a date of last work of December 17th, 2021.

King EPCM accepts no responsibility or liability for any changes or potential changes in the condition of the Site after the date of last work. In assessing the environmental conditions and history of the Site, King EPCM has relied in good faith on information provided by others, and has assumed the information provided as factual and accurate. King EPCM accepts no responsibility for any deficiency, misstatement, or inaccuracy in this report resulting from the information provided by others, or issues arising from relevant facts that were concealed, withheld, or not fully disclosed. This report pertains, only, to the site specifically described in this report and not to any adjacent or other property.

This report has been prepared for the sole use of 1000046816 Ontario Limited (the Client), or any financial institutions for due-diligence purposes. King EPCM accepts no liability for claims

arising from the use of this report, or from actions taken or decisions made as a result of this report, by parties other than the Client.

Yu Tao (Tony) Wang, P. Eng
Principal Engineer, King EPCM
Qualified Person, Per O. Reg. 153/04

REFERENCES

Ontario Regulation 153/04, Record of Site Condition – Part XV.1 of the Act.

Environmental Database and Reports, Environmental Risk Information Services (ERIS)

Aerial Photographs, ERIS

Aerial Photographs, Niagara Air Photo Index

Property Reports, GeoWarehouse

Site Survey, Chambers and Associates Surveying Ltd.

Survey Plan Part 5, Reference Plan in the City of Port Colborne

Topography and hydrology, Ontario Topography Maps, MNRF

OBM – Ontario Base Map

Well Records and Geology, Ontario Well records, MECP

Bedrock Geology Report, ERIS

Area of Natural & Scientific Interest (ANSI) Map, ERIS

Southern Ontario Physiographic Information, ERIS

Surficial Geology of Southern Ontario, ERIS

Soil Report, ERIS

Phase I ESA Report 2011, Soil Engineers Ltd.

APPENDIX I – PHASE I STUDY AREA, CONCEPTUAL SITE MODEL

NOTES

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PRINT TITLE	PHASE I STUDY AREA
PROJECT TITLE	PHASE I ENVIRONMENTAL SITE ASSESSMENT
SITE ADDRESS	PART OF LT 31,32,33, CONC 1, PORT COLBORNE, ON

SCALE:	NTS	DATE: DEC. 17, 2021	BY: SX	Ver. 01

APPENDIX II – SITE INVESTIGATION PHOTOGRAPHS

(Since the Site is required for a Phase II ESA, the site photographs will be provided at the time of Phase II ESA. Additionally, there were historical records with site photographs that could be referenced).

APPENDIX III- FIP & ERIS DATABASE REPORTS

DATABASE REPORT

Project Property:	*Mapleview Port Colborne Subdivision project* *Killaly Street west* *Port Colborne ON*
Project No:	
Report Type:	*RSC Report - Quote*
Order No:	*21112300694*
Requested by:	*King EPCM*
Date Completed:	*November 29, 2021*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*Mapleview Port Colborne Subdivision project* *Killaly Street west Port Colborne ON*
Project No:	

Order Information:

Order No:	*21112300694*
Date Requested:	*November 23, 2021*
Requested by:	*King EPCM*
Report Type:	*RSC Report - Quote*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*
Land Title Search	*Historical Land Title Search*
Topographic Map	*RSC Maps*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	1	1
CA	Certificates of Approval	Y	0	1	1
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	1	1
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	6	11	17
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	29	29
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	1	1
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	1	1
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	3	3
PINC	Pipeline Incidents	Y	0	4	4
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	3	3
SPL	Ontario Spills	Y	0	2	2
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	31	32
	Total:		7	88	95

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		Killaly Street West Port Colborne ON	W/0.0	0.00	28
2	EHS		680 Main Street West Port Colborne ON L3K 5V4	WNW/0.0	0.00	28
2	EHS		680 Main Street West Port Colborne ON L3K 5V4	WNW/0.0	0.00	28
2	EHS		680 Main Street West Port Colborne ON L3K 5V4	WNW/0.0	0.00	28
2	EHS		680 Main Street West Port Colborne ON L3K 5V4	WNW/0.0	0.00	29
2	EHS		680 Main Street West Port Colborne ON L3K 5V4	WNW/0.0	0.00	29
3	WWIS		lot 31 con 1 ON ***Well ID:*** 6600905	E/0.0	1.00	29

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
4	WWIS		lot 33 con 1 ON **Well ID:** 6600915	WNW/8.4	-0.25	31
5	WWIS		lot 33 con 1 ON **Well ID:** 6600916	NW/11.2	0.00	34
6	WWIS		lot 33 con 1 ON **Well ID:** 6603064	WNW/22.4	0.00	36
7	WWIS		lot 33 con 1 ON **Well ID:** 6600914	NW/26.8	0.00	39
8	WWIS		722 MAIN ST WEST PORT COLBORNE lot 33 con 1 PORT COLBORNE ON **Well ID:** 7262353	WNW/30.6	0.00	42
9	WWIS		lot 32 con 2 ON **Well ID:** 6601072	NNE/34.8	0.00	48
10	WWIS		lot 33 con 1 ON **Well ID:** 6600913	NW/36.7	0.00	51
11	WWIS		722 MAIN STREET WEST lot 33 con 1 PORT COLBORNE ON **Well ID:** 7302832	WNW/44.2	0.00	54
12	WWIS		lot 33 con 1 ON **Well ID:** 6603822	WNW/44.9	-0.67	60
13	WWIS		lot 31 con 2 ON **Well ID:** 6601066	NE/45.3	0.04	64
14	PES	INDEPENDENT DISCOUNT PET SUPPLY	730 MAIN STREET WEST PORT COLBORNE ON L3K 5V4	WNW/46.0	-1.00	67
14	PES	INDEPENDENT DISCOUNT PET SUPPLY	730 MAIN STREET WEST PORT COLBORNE ON L3K 5V4	WNW/46.0	-1.00	67

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
14	PINC		730 Main Street West, Port Colborne ON	WNW/46.0	-1.00	67
14	PES	INDEPENDENT DISCOUNT PET SUPPLY	730 MAIN STREET WEST PORT COLBORNE ON L3K5V4	WNW/46.0	-1.00	68
15	WWIS		ON ***Well ID:*** 6601612	NE/48.9	0.00	68
16	WWIS		lot 31 con 2 ON ***Well ID:*** 6601062	NE/49.8	0.00	71
17	EHS		676 Main Street Port Colborne ON	N/50.6	0.00	73
17	EHS		676 Main Street Port Colborne ON	N/50.6	0.00	73
18	WWIS		722 MAIN ST WEST lot 33 con 1 Port Colborne ON ***Well ID:*** 7230998	WNW/52.2	0.00	74
19	EHS		676 Main St W Port Colborne ON L3K5V4	N/55.1	0.00	79
20	WWIS		676 MAIN ST lot 32 con 2 Port Colborne ON ***Well ID:*** 7228846	N/57.4	0.00	79
20	WWIS		676 MAIN STREET W. lot 32 con 2 Port Colborne ON ***Well ID:*** 7226000	N/57.4	0.00	82
21	WWIS		lot 1 con 1 ON ***Well ID:*** 6604210	WSW/63.7	-2.50	85
22	WWIS		lot 31 con 2 ON ***Well ID:*** 6601061	NE/72.3	0.53	88
23	WWIS		lot 1 con 1 ON	W/76.3	-2.12	90

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 6603517			
24	CA	PORT COLBORNE CITY - WEST SIDE ROAD	SHEBA CRES./FIRST AVE. PORT COLBORNE CITY ON	ENE/78.6	1.00	93
25	WWIS		lot 33 con 2 ON **Well ID:** 6601079	NW/86.8	0.00	93
26	GEN	Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	E/97.0	0.00	96
26	GEN	Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	E/97.0	0.00	96
26	GEN	Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	E/97.0	0.00	96
26	GEN	Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	E/97.0	0.00	97
26	GEN	Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	E/97.0	0.00	97
26	GEN	Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	E/97.0	0.00	97
27	WWIS		lot 30 con 2 ON **Well ID:** 6601056	ENE/104.0	1.00	98
28	SPL	Canadian Niagara Power Inc.	1776 Miner Road Port Colborne ON	NW/110.1	0.00	100
29	BORE		ON	ESE/118.9	-1.00	101
30	WWIS		lot 1 con 1 ON **Well ID:** 6604539	W/124.7	-2.00	102
31	SCT	Everyday Publications Inc.	310 Killaly St W Port Colborne ON L3K 6A6	ENE/132.2	1.00	105

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
31	SCT	Everyday Newsletter -	310 Killaly St W Port Colborne ON L3K 6A6	ENE/132.2	1.00	105
32	SCT	Newport Signs	300 Killaly St W Unit 8 Port Colborne ON L3K 6A6	ENE/134.0	1.00	106
33	PINC	PIPELINE HIT	46 WEST SIDE ROAD,,PORT COLBORNE,ON,L3K 5K6,CA ON	ENE/158.5	1.00	106
34	WWIS		lot 33 con 2 ON ***Well ID:*** 6601082	WNW/162.7	0.00	106
35	GEN	WELLAND COUNTY R.C.S.S. BOARD 42-633	ST. PATRICK, 266 ROSEMOUNT AVENUE PORT COLBORNE, C/O 427 RICE ROAD WELLAND ON L3K 5R4	SSE/162.9	-1.00	109
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	109
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	110
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	110
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	111
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	111
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	111
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON	SSE/162.9	-1.00	112

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	112
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	113
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	113
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	114
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	114
35	GEN	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	SSE/162.9	-1.00	114
36	WWIS		lot 1 con 2 ON ***Well ID:*** 6603590	WNW/165.1	-0.99	115
37	PINC	VAN DUZEN FENCE & POST	60 MICHAEL DR N,,PORT COLBORNE, ON,L3K 3C5,CA ON	S/171.5	-2.00	117
37	SPL	Enbridge Gas Distribution Inc.	60 Michael Drive North Port Colborne ON	S/171.5	-2.00	118
38	EHS		299 Killaly Street West Port Colborne ON L3K 3M7	ENE/185.3	1.00	118
39	WWIS		lot 1 con 2 ON ***Well ID:*** 6603447	WNW/189.5	-1.00	119
40	EHS		296 Killaly Street West Port Colborne ON L3K 5K6	ENE/191.2	1.00	122

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
41	EHS		303 Killaly Street West Port Colborne ON L3K 3M7	ENE/202.1	1.00	122
41	EHS		303 Killaly St W Port Colborne ON L3K3M7	ENE/202.1	1.00	122
42	WWIS		20134 HWY 3 lot 1 con 2 WAINFLEET ON ***Well ID:*** 7232408	WNW/203.9	0.00	122
43	OOGW	Dominion Natural Gas co. Ltd. - Mathias Neff No. 36	Humberstone ON ***Licence No:*** F015011	ENE/208.5	1.00	128
44	WWIS		lot 33 con 2 ON ***Well ID:*** 6601077	WNW/214.3	0.00	129
45	WWIS		lot 1 con 2 ON ***Well ID:*** 6602166	WNW/214.9	0.00	131
46	WWIS		lot 33 con 2 ON ***Well ID:*** 6601083	WNW/226.9	0.00	134
47	EHS		285 Killaly street w Port Colborne ON L3K 6A6	ENE/228.9	1.00	136
48	NPRI	THE HARD ROCK GROUP	20546 HWY #3 WEST NOT AVAILABLE WAINFLEET ON L0S 1V0	WNW/229.2	-1.00	136
49	GEN	1746826 Ontario Limited	266 Killaly St. W. Port Colborne ON L3K 6A6	ENE/236.1	1.00	138
49	GEN	Lock 8 Equipment Inc.	266 Killaly Street West Port Colborne ON L3K 6A6	ENE/236.1	1.00	138
50	GEN	City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	ENE/236.5	1.00	139
50	GEN	City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	ENE/236.5	1.00	139

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
50	GEN	City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	ENE/236.5	1.00	140
50	GEN	City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	ENE/236.5	1.00	141
50	GEN	City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	ENE/236.5	1.00	142
50	GEN	City of Port Colborne	52 Westside Road Port Colborne ON	ENE/236.5	1.00	142
50	GEN	City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	ENE/236.5	1.00	143
51	EHS		50 Westside Road Port Colborne ON L3K 5K6	ENE/242.0	1.00	144
51	EHS		50 Westside Road Port Colborne ON L3K 5K6	ENE/242.0	1.00	144
51	EHS		50 Westside Road Port Colborne ON L3K 5K6	ENE/242.0	1.00	144
52	WWIS		lot 33 con 2 ON ***Well ID:*** 6601081	WNW/245.8	0.00	145
53	WWIS		lot 33 con 2 ON ***Well ID:*** 6601084	WNW/251.9	0.00	147
54	PINC	GERALD DUERR	4 WOOD LANE,,PORT COLBORNE,ON, L3K 6B8,CA ON	SW/257.0	-2.00	149
55	ECA	The Corporation of the City of Port Colborne	Stanley Street Port Colborne City Port Colborne ON L3K 3C8	SE/261.9	-1.29	150
56	WWIS		ON ***Well ID:*** 6602323	NNE/272.5	1.00	150

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 1 BORE site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	118.9	29

CA - Certificates of Approval

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

Site	Address	Distance (m)	Map Key
PORT COLBORNE CITY - WEST SIDE ROAD	SHEBA CRES./FIRST AVE. PORT COLBORNE CITY ON	78.6	24

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Sep 30, 2021 has found that there are 1 ECA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
The Corporation of the City of Port Colborne	Stanley Street Port Colborne City Port Colborne ON L3K 3C8	261.9	55

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jun 30, 2021 has found that there are 17 EHS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	Killaly Street West Port Colborne ON	0.0	1

Site	Address	Distance (m)	Map Key
	680 Main Street West Port Colborne ON L3K 5V4	0.0	2
	680 Main Street West Port Colborne ON L3K 5V4	0.0	2
	680 Main Street West Port Colborne ON L3K 5V4	0.0	2
	680 Main Street West Port Colborne ON L3K 5V4	0.0	2
	680 Main Street West Port Colborne ON L3K 5V4	0.0	2
	676 Main Street Port Colborne ON	50.6	17
	676 Main Street Port Colborne ON	50.6	17
	676 Main St W Port Colborne ON L3K5V4	55.1	19
	299 Killaly Street West Port Colborne ON L3K 3M7	185.3	38
	296 Killaly Street West Port Colborne ON L3K 5K6	191.2	40
	303 Killaly Street West Port Colborne ON L3K 3M7	202.1	41

Site	Address	Distance (m)	Map Key
	303 Killaly St W Port Colborne ON L3K3M7	202.1	41
	285 Killaly street w Port Colborne ON L3K 6A6	228.9	47
	50 Westside Road Port Colborne ON L3K 5K6	242.0	51
	50 Westside Road Port Colborne ON L3K 5K6	242.0	51
	50 Westside Road Port Colborne ON L3K 5K6	242.0	51

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Aug 31, 2021 has found that there are 29 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	97.0	26
Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	97.0	26
Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	97.0	26
Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	97.0	26
Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	97.0	26

Site	Address	Distance (m)	Map Key
Mapleview Medical Clinic	340 Elgin Street Port Colborne ON L3K6G9	97.0	26
WELLAND COUNTY R.C.S.S. BOARD 42-633	ST. PATRICK, 266 ROSEMOUNT AVENUE PORT COLBORNE, C/O 427 RICE ROAD WELLAND ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35

Site	Address	Distance (m)	Map Key
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
NIAGARA CATHOLIC DISTRICT SCHOOL BOARD	ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	162.9	35
1746826 Ontario Limited	266 Killaly St. W. Port Colborne ON L3K 6A6	236.1	49
Lock 8 Equipment Inc.	266 Killaly Street West Port Colborne ON L3K 6A6	236.1	49
City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	236.5	50
City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	236.5	50
City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	236.5	50
City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	236.5	50
City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	236.5	50
City of Port Colborne	52 Westside Road Port Colborne ON	236.5	50

Site	Address	Distance (m)	Map Key
City of Port Colborne	52 Westside Road Port Colborne ON L3K 5K6	236.5	50

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 1 NPRI site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
THE HARD ROCK GROUP	20546 HWY #3 WEST NOT AVAILABLE WAINFLEET ON L0S 1V0	229.2	48

OOGW - Ontario Oil and Gas Wells

A search of the OOGW database, dated 1800-Jan 2021 has found that there are 1 OOGW site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Dominion Natural Gas co. Ltd. - Mathias Neff No. 36	Humberstone ON ***Licence No:*** F015011	208.5	43

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Sep 30, 2021 has found that there are 3 PES site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
INDEPENDENT DISCOUNT PET SUPPLY	730 MAIN STREET WEST PORT COLBORNE ON L3K 5V4	46.0	14
INDEPENDENT DISCOUNT PET SUPPLY	730 MAIN STREET WEST PORT COLBORNE ON L3K5V4	46.0	14
INDEPENDENT DISCOUNT PET SUPPLY	730 MAIN STREET WEST PORT COLBORNE ON L3K 5V4	46.0	14

Site	Address	Distance (m)	Map Key

PINC - Pipeline Incidents

A search of the PINC database, dated May 31, 2021 has found that there are 4 PINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	730 Main Street West, Port Colborne ON	46.0	14
PIPELINE HIT	46 WEST SIDE ROAD,,PORT COLBORNE, ON,L3K 5K6,CA ON	158.5	33
VAN DUZEN FENCE & POST	60 MICHAEL DR N,,PORT COLBORNE,ON, L3K 3C5,CA ON	171.5	37
GERALD DUERR	4 WOOD LANE,,PORT COLBORNE,ON,L3K 6B8,CA ON	257.0	54

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 3 SCT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Everyday Publications Inc.	310 Killaly St W Port Colborne ON L3K 6A6	132.2	31
Everyday Newsletter -	310 Killaly St W Port Colborne ON L3K 6A6	132.2	31
Newport Signs	300 Killaly St W Unit 8 Port Colborne ON L3K 6A6	134.0	32

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020 has found that there are 2 SPL site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Canadian Niagara Power Inc.	1776 Miner Road Port Colborne ON	110.1	28
Enbridge Gas Distribution Inc.	60 Michael Drive North Port Colborne ON	171.5	37

WWIS - Water Well Information System

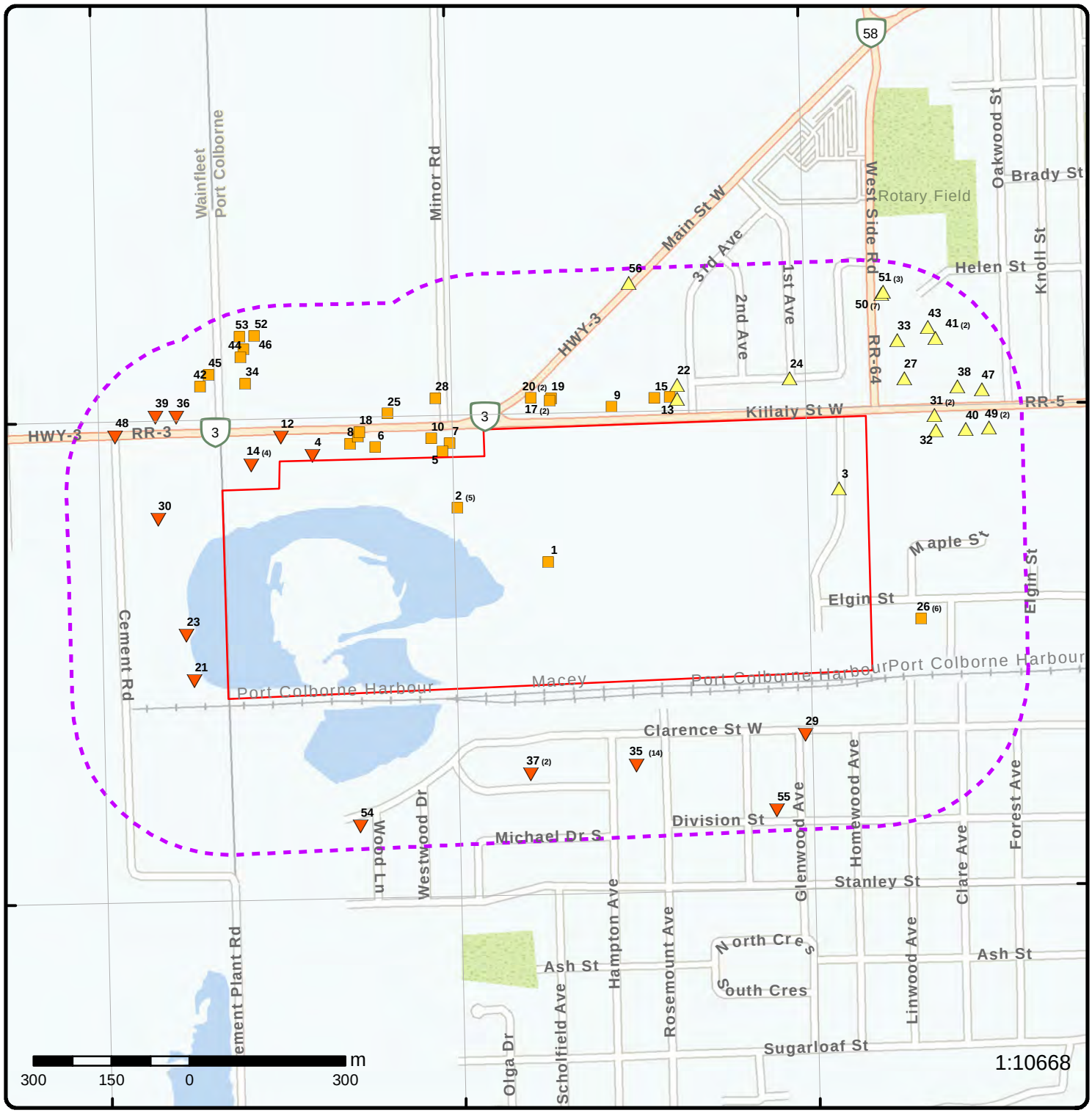
A search of the WWIS database, dated Apr 30, 2021 has found that there are 32 WWIS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 31 con 1 ON ***Well ID:*** 6600905	0.0	3
	lot 33 con 1 ON ***Well ID:*** 6600915	8.4	4
	lot 33 con 1 ON ***Well ID:*** 6600916	11.2	5
	lot 33 con 1 ON ***Well ID:*** 6603064	22.4	6
	lot 33 con 1 ON ***Well ID:*** 6600914	26.8	7
	722 MAIN ST WEST PORT COLBORNE lot 33 con 1 PORT COLBORNE ON ***Well ID:*** 7262353	30.6	8
	lot 32 con 2 ON	34.8	9

Site	Address	Distance (m)	Map Key
	Well ID: 6601072		
	lot 33 con 1 ON ***Well ID:*** 6600913	36.7	10
	722 MAIN STREET WEST lot 33 con 1 PORT COLBORNE ON ***Well ID:*** 7302832	44.2	11
	lot 33 con 1 ON ***Well ID:*** 6603822	44.9	12
	lot 31 con 2 ON ***Well ID:*** 6601066	45.3	13
	ON ***Well ID:*** 6601612	48.9	15
	lot 31 con 2 ON ***Well ID:*** 6601062	49.8	16
	722 MAIN ST WEST lot 33 con 1 Port Colborne ON ***Well ID:*** 7230998	52.2	18
	676 MAIN ST lot 32 con 2 Port Colborne ON ***Well ID:*** 7228846	57.4	20
	676 MAIN STREET W. lot 32 con 2 Port Colborne ON ***Well ID:*** 7226000	57.4	20
	lot 1 con 1 ON ***Well ID:*** 6604210	63.7	21
	lot 31 con 2 ON ***Well ID:*** 6601061	72.3	22

Site	Address	Distance (m)	Map Key
	lot 1 con 1 ON ***Well ID:*** 6603517	76.3	23
	lot 33 con 2 ON ***Well ID:*** 6601079	86.8	25
	lot 30 con 2 ON ***Well ID:*** 6601056	104.0	27
	lot 1 con 1 ON ***Well ID:*** 6604539	124.7	30
	lot 33 con 2 ON ***Well ID:*** 6601082	162.7	34
	lot 1 con 2 ON ***Well ID:*** 6603590	165.1	36
	lot 1 con 2 ON ***Well ID:*** 6603447	189.5	39
	20134 HWY 3 lot 1 con 2 WAINFLEET ON ***Well ID:*** 7232408	203.9	42
	lot 33 con 2 ON ***Well ID:*** 6601077	214.3	44
	lot 1 con 2 ON ***Well ID:*** 6602166	214.9	45
	lot 33 con 2 ON ***Well ID:*** 6601083	226.9	46
	lot 33 con 2 ON	245.8	52

Site	Address	Distance (m)	Map Key
	Well ID: 6601081		
	lot 33 con 2 ON	251.9	53
	Well ID: 6601084		
	ON	272.5	56
	Well ID: 6602323		



Map: 0.3 Kilometer Radius

Order Number: 21112300694

Address: Killaly Street west, Port Colborne, ON

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

79°16'30"W

42°54'N

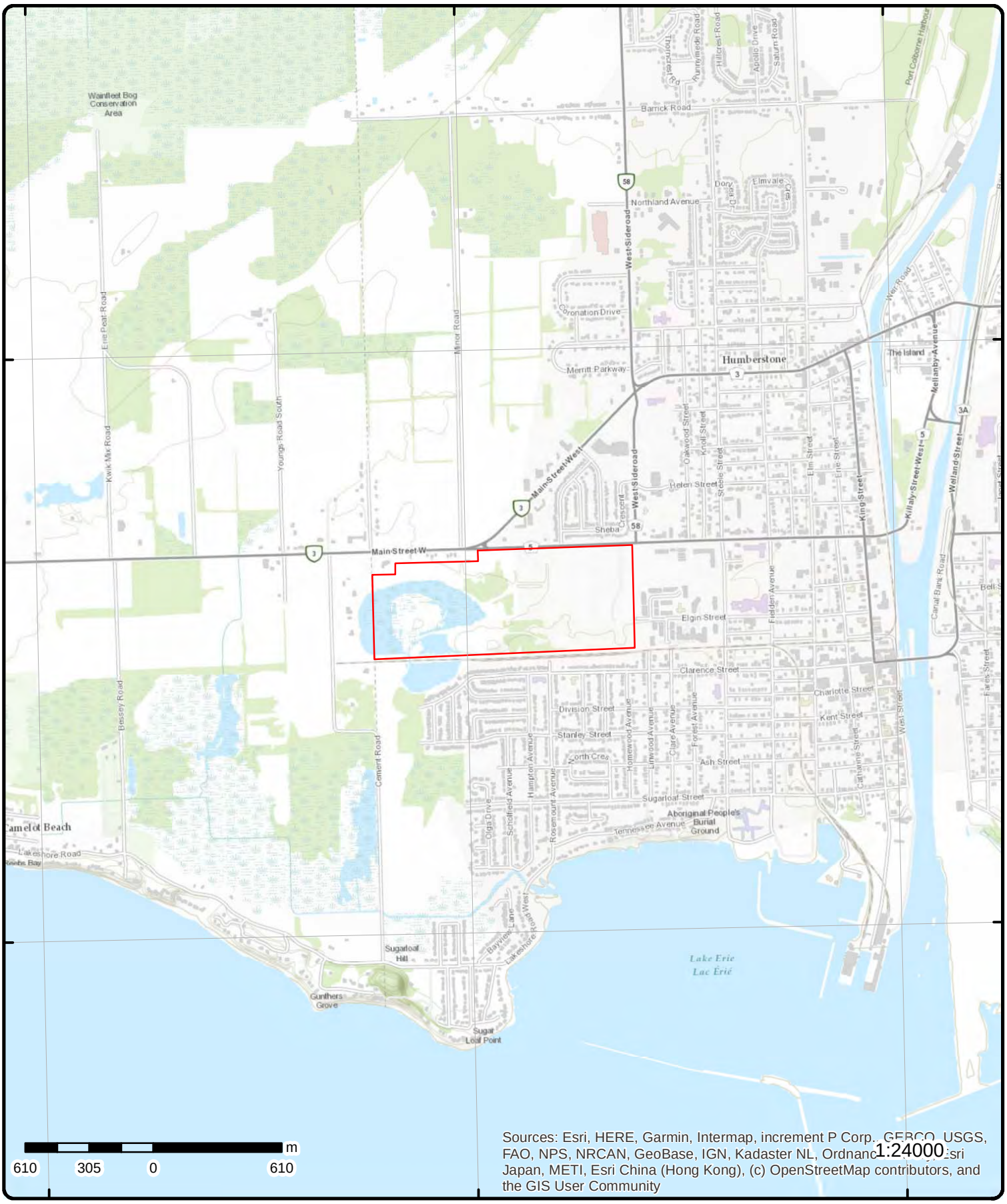
Aerial

Year: 2015

Order Number: 21112300694

Address: Killaly Street west, Port Colborne, ON

Source: ESRI World Imagery



Topographic Map

Address: Killaly Street west, ON

Source: ESRI World Topographic Map

Order Number: 21112300694

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	W/0.0	179.8 / 0.00	Killaly Street West Port Colborne ON	EHS

Order No: 20130509032
Status: C
Report Type: Custom Report
Report Date: 27-MAY-13
Date Received: 09-MAY-13
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.272862
Y: 42.889093

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 5	WNW/0.0	179.8 / 0.00	680 Main Street West Port Colborne ON L3K 5V4	EHS

Order No: 20200529036
Status: C
Report Type: Custom Report
Report Date: 03-JUN-20
Date Received: 29-MAY-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.27497435
Y: 42.89006104

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 5	WNW/0.0	179.8 / 0.00	680 Main Street West Port Colborne ON L3K 5V4	EHS

Order No: 20200529036
Status: C
Report Type: Custom Report
Report Date: 03-JUN-20
Date Received: 29-MAY-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.27497435
Y: 42.89006104

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	3 of 5	WNW/0.0	179.8 / 0.00	680 Main Street West Port Colborne ON L3K 5V4	EHS

Order No: 20200529036
Status: C
Report Type: Custom Report
Report Date: 03-JUN-20
Date Received: 29-MAY-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.27497435
Y: 42.89006104

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	4 of 5	WNW/0.0	179.8 / 0.00	680 Main Street West Port Colborne ON L3K 5V4	EHS

Order No:	20200529036	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	03-JUN-20	**Search Radius (km):**	.25
Date Received:	29-MAY-20	**X:**	-79.27497435
Previous Site Name:		**Y:**	42.89006104
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	5 of 5	WNW/0.0	179.8 / 0.00	680 Main Street West Port Colborne ON L3K 5V4	EHS

Order No:	20200529036	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	03-JUN-20	**Search Radius (km):**	.25
Date Received:	29-MAY-20	**X:**	-79.27497435
Previous Site Name:		**Y:**	42.89006104
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	E/0.0	180.8 / 1.00	lot 31 con 1 ON	WWIS

Well ID:	6600905	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	9/17/1947
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1915
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	031
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600905.pdf

Additional Detail(s) (Map)

Well Completed Date:	1947/07/11
Year Completed:	1947
Depth (m):	9.7536
Latitude:	42.8902696743717
Longitude:	-79.2659810894547
Path:	660\6600905.pdf

Bore Hole Information

Bore Hole ID:	10460639	***Elevation:***	181.040420
DP2BR:	2.00	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	641589.90
Code OB Desc:	Bedrock	***North83:***	4750088.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	11-Jul-1947 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	932590182
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932590183
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	32.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966600905
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID: 11009209
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748179
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 5
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930748180
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 32
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996600905
Pump Set At:
Static Level: 5.0
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: 1
Water State After Test: CLEAR
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933948177
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 32.0
Water Found Depth UOM: ft

4	1 of 1	WNW/8.4	179.6 / -0.25	lot 33 con 1 ON	WWIS

Well ID: 6600915
Construction Date:
Data Entry Status:
Data Src: 1

Primary Water Use:	Commerical	**Date Received:**	4/29/1958
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4720
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600915.pdf

Additional Detail(s) (Map)

Well Completed Date:	1958/03/20
Year Completed:	1958
Depth (m):	12.4968
Latitude:	42.8910059472251
Longitude:	-79.2783663014329
Path:	660\6600915.pdf

Bore Hole Information

Bore Hole ID:	10460649	**Elevation:**	179.494888
DP2BR:	3.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	640576.90
Code OB Desc:	Bedrock	**North83:**	4750149.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	20-Mar-1958 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590204
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932590205
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 41.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966600915
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11009219
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748195
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 6
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930748196
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 41
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996600915

Pump Set At:	
Static Level:	21.0
Final Level After Pumping:	40.0
Recommended Pump Depth:	
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933948187
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	41.0
Water Found Depth UOM:	ft

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5 ***1 of 1*** ***NW/11.2*** ***179.8 / 0.00*** ***lot 33 con 1 ON*** ***WWIS***

Well ID:	6600916	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	7/11/1958
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2526
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	033
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600916.pdf

Additional Detail(s) (Map)

Well Completed Date:	1958/06/17
Year Completed:	1958
Depth (m):	7.3152
Latitude:	42.8910408822276
Longitude:	-79.2753036678881
Path:	660\6600916.pdf

Bore Hole Information

Bore Hole ID:	10460650	**Elevation:**	180.026336
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	640826.90
Code OB Desc:	Bedrock	**North83:**	4750158.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	17-Jun-1958 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590206
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932590207
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	24.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966600916
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11009220
Casing No:	1

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930748197
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	6
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930748198
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	24
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996600916
Pump Set At:	
Static Level:	9.0
Final Level After Pumping:	11.0
Recommended Pump Depth:	
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933948188
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	24.0
Water Found Depth UOM:	ft

6	*1 of 1*	*WNW/22.4*	*179.8 / 0.00*	*lot 33 con 1 ON*	*WWIS*

Well ID:	6603064	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/12/1975
Sec. Water Use:	0	***Selected Flag:***	True

Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3571
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	033
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6603064.pdf

Additional Detail(s) (Map)

Well Completed Date:	1975/05/19
Year Completed:	1975
Depth (m):	9.144
Latitude:	42.8911366769626
Longitude:	-79.2768808177668
Path:	660\6603064.pdf

Bore Hole Information

Bore Hole ID:	10462682	***Elevation:***	180.149444
DP2BR:	1.00	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	640697.90
Code OB Desc:	Bedrock	***North83:***	4750166.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	19-May-1975 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932596834
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932596835
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966603064
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11011252
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930751815
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

Construction Record - Casing

Casing ID:	930751816
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	30
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996603064
Pump Set At:	
Static Level:	12.0

Final Level After Pumping:	25.0
Recommended Pump Depth:	27.0
Pumping Rate:	10.0
Flowing Rate:	
Recommended Pump Rate:	10.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934342413
Test Type:	Recovery
Test Duration:	15
Test Level:	12.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934610199
Test Type:	Recovery
Test Duration:	30
Test Level:	12.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934864396
Test Type:	Recovery
Test Duration:	45
Test Level:	12.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935128751
Test Type:	Recovery
Test Duration:	60
Test Level:	12.0
Test Level UOM:	ft

Water Details

Water ID:	933950305
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	29.0
Water Found Depth UOM:	ft

7	***1 of 1***	***NW/26.8***	***179.8 / 0.00***	***lot 33 con 1 ON***	***WWIS***

Well ID:	6600914	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	7/23/1951

Sec. Water Use:	Commerical	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3204
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600914.pdf

Additional Detail(s) (Map)

Well Completed Date:	1950/03/15
Year Completed:	1950
Depth (m):	7.3152
Latitude:	42.8911823183591
Longitude:	-79.2751282724678
Path:	660\6600914.pdf

Bore Hole Information

Bore Hole ID:	10460648	**Elevation:**	180.002456
DP2BR:	4.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	640840.90
Code OB Desc:	Bedrock	**North83:**	4750174.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	15-Mar-1950 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590203
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	17
Mat2 Desc:	SHALE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4.0
Formation End Depth:	24.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932590202
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966600914
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11009218
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930748193
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	6
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930748194
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	24
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996600914
Pump Set At:	

Static Level:	15.0
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:	1
Water State After Test:	CLEAR
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933948186
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	16.0
Water Found Depth UOM:	ft

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8 | ***1 of 1*** | ***WNW/30.6*** | ***179.8 / 0.00*** | ***722 MAIN ST WEST PORT COLBORNE lot 33 con 1 PORT COLBORNE ON*** | ***WWIS***

Well ID:	7262353	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	5/3/2016
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2123
Casing Material:		**Form Version:**	7
Audit No:	Z196186	**Owner:**	
Tag:	A170748	**Street Name:**	722 MAIN ST WEST PORT COLBORNE
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	UTM4750173
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7262353.pdf

Additional Detail(s) (Map)

Well Completed Date:	2016/04/14
Year Completed:	2016
Depth (m):	24.6888
Latitude:	42.8912086958702
Longitude:	-79.2774776749917
Path:	726\7262353.pdf

Bore Hole Information

Bore Hole ID:	1005953082	**Elevation:**	179.637420
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	640649.00
Code OB Desc:		**North83:**	4750173.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	14-Apr-2016 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006072309
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.5
Formation End Depth:	81.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006072308
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006072344
Layer:	1
Plug From:	0
Plug To:	20
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID: 1006072343
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1006072306
Casing No: 0
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 1006072315
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1006072307
Pump Set At: 50.0
Static Level: 10.399999618530273
Final Level After Pumping: 36.099998474121094
Recommended Pump Depth: 35.0
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 1006072322
Test Type: Draw Down
Test Duration: 4
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072326
Test Type: Draw Down
Test Duration: 10
Test Level: 27.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072316
Test Type: Draw Down
Test Duration: 1
Test Level: 14.699999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072330
Test Type: Draw Down
Test Duration: 20
Test Level: 34.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072336
Test Type: Draw Down
Test Duration: 40
Test Level: 35.599998474121094
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072337
Test Type: Recovery
Test Duration: 40
Test Level: 10.800000190734863
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072339
Test Type: Recovery
Test Duration: 50
Test Level: 10.800000190734863
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072321
Test Type: Recovery
Test Duration: 3
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072324
Test Type: Draw Down
Test Duration: 5
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072327
Test Type: Recovery
Test Duration: 10
Test Level: 14.899999618530273

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072329
Test Type: Recovery
Test Duration: 15
Test Level: 14.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072333
Test Type: Recovery
Test Duration: 25
Test Level: 12.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072319
Test Type: Recovery
Test Duration: 2
Test Level: 20.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072332
Test Type: Draw Down
Test Duration: 25
Test Level: 35.20000076293945
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072335
Test Type: Recovery
Test Duration: 30
Test Level: 12.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072340
Test Type: Draw Down
Test Duration: 60
Test Level: 36.099998474121094
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072334
Test Type: Draw Down
Test Duration: 30
Test Level: 35.29999923706055
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072320
Test Type: Draw Down
Test Duration: 3
Test Level: 22.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072323
Test Type: Recovery
Test Duration: 4
Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072328
Test Type: Draw Down
Test Duration: 15
Test Level: 32.400001525878906
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072331
Test Type: Recovery
Test Duration: 20
Test Level: 13.199999809265137
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072338
Test Type: Draw Down
Test Duration: 50
Test Level: 36.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072341
Test Type: Recovery
Test Duration: 60
Test Level: 10.800000190734863
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072318
Test Type: Draw Down
Test Duration: 2
Test Level: 19.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072317
Test Type: Recovery
Test Duration: 1

Test Level: 27.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006072325
Test Type: Recovery
Test Duration: 5
Test Level: 15.0
Test Level UOM: ft

Water Details

Water ID: 1006072312
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 35.0
Water Found Depth UOM: ft

Water Details

Water ID: 1006072313
Layer: 2
Kind Code: 8
Kind: Untested
Water Found Depth: 77.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1006072311
Diameter: 6.0
Depth From: 20.0
Depth To: 80.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1006072310
Diameter: 10.0
Depth From: 0.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

9 | **1 of 1** | **NNE/34.8** | **179.8 / 0.00** | **lot 32 con 2 ON** | **WWIS**

Well ID: 6601072
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):

Data Entry Status:
Data Src: 1
Date Received: 4/12/1948
Selected Flag: True
Abandonment Rec:
Contractor: 3017
Form Version: 1
Owner:
Street Name:
County: NIAGARA
Municipality: PORT COLBORNE CITY (HUMBERSTONE)

Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	032
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601072.pdf

Additional Detail(s) (Map)

Well Completed Date:	1948/01/10
Year Completed:	1948
Depth (m):	15.8496
Latitude:	42.8917549609662
Longitude:	-79.2713035599058
Path:	660\6601072.pdf

Bore Hole Information

Bore Hole ID:	10460806	**Elevation:**	180.306045
DP2BR:	4.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	641151.90
Code OB Desc:	Bedrock	**North83:**	4750244.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	10-Jan-1948 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590525
Layer:	2
Color:	1
General Color:	WHITE
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4.0
Formation End Depth:	52.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932590524
Layer:	1
Color:	

General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 09
Mat2 Desc: MEDIUM SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966601072
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11009376
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748502
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 52
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930748501
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 6
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996601072
Pump Set At:
Static Level: 18.0
Final Level After Pumping: 48.0
Recommended Pump Depth:
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM

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

Water Details

Water ID:	933948346
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	52.0
Water Found Depth UOM:	ft

---

10 | ***1 of 1*** | ***NW/36.7*** | ***179.8 / 0.00*** | ***lot 33 con 1 ON*** | ***WWIS***

Well ID:	6600913	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	4/12/1948
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3017
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6600913.pdf

Additional Detail(s) (Map)

Well Completed Date:	1948/02/12
Year Completed:	1948
Depth (m):	17.0688
Latitude:	42.8912699695783
Longitude:	-79.2755667101467
Path:	660\6600913.pdf

Bore Hole Information

Bore Hole ID:	10460647	**Elevation:**	180.145172
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	640804.90
Code OB Desc:	Bedrock	**North83:**	4750183.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	12-Feb-1948 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932590199
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932590201
Layer: 3
Color:
General Color:
Mat1: 19
Most Common Material: SLATE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 38.0
Formation End Depth: 56.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932590200
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 38.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966600913

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

Pipe Information

Pipe ID: 11009217
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748191
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 3
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930748192
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 56
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996600913
Pump Set At:
Static Level: 18.0
Final Level After Pumping: 43.0
Recommended Pump Depth:
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933948185
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 56.0
Water Found Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	WNW/44.2	179.8 / 0.00	722 MAIN STREET WEST lot 33 con 1 PORT COLBORNE ON	WWIS

Well ID: 7302832
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z260418
Tag: A227837
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 1/8/2018
Selected Flag: True
Abandonment Rec:
Contractor: 2123
Form Version: 7
Owner:
Street Name: 722 MAIN STREET WEST
County: NIAGARA
Municipality: PORT COLBORNE CITY (HUMBERSTONE)
Site Info:
Lot: 033
Concession: 01
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/730\7302832.pdf

Additional Detail(s) (Map)

Well Completed Date: 2017/10/20
Year Completed: 2017
Depth (m): 19.5072
Latitude: 42.8913319487858
Longitude: -79.2772905435391
Path: 730\7302832.pdf

Bore Hole Information

Bore Hole ID: 1006952750
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 20-Oct-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 640664.00
North83: 4750187.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1007077039
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05

Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007077040
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 64.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007077038
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007077074
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007077073
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1007077036
Casing No: 0
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 1007077045
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1007077037
Pump Set At: 55.0
Static Level: 16.600000381469727
Final Level After Pumping: 55.099998474121094
Recommended Pump Depth: 55.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1007077047
Test Type: Recovery
Test Duration: 1
Test Level: 50.099998474121094
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077051
Test Type: Recovery
Test Duration: 3
Test Level: 46.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077052
Test Type: Draw Down
Test Duration: 4
Test Level: 22.200000762939453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077056
Test Type: Draw Down
Test Duration: 10
Test Level: 27.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077058
Test Type: Draw Down
Test Duration: 15
Test Level: 31.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077064
Test Type: Draw Down
Test Duration: 30
Test Level: 43.599998474121094
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077065
Test Type: Recovery
Test Duration: 30
Test Level: 18.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077068
Test Type: Draw Down
Test Duration: 50
Test Level: 55.099998474121094
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077071
Test Type: Recovery
Test Duration: 60
Test Level: 16.100000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077069
Test Type: Recovery
Test Duration: 50
Test Level: 16.110000610351562
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077053
Test Type: Recovery
Test Duration: 4

Test Level: 45.29999923706055
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077055
Test Type: Recovery
Test Duration: 5
Test Level: 44.20000076293945
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077057
Test Type: Recovery
Test Duration: 10
Test Level: 43.099998474121094
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077046
Test Type: Draw Down
Test Duration: 1
Test Level: 20.299999237060547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077066
Test Type: Draw Down
Test Duration: 40
Test Level: 50.79999923706055
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077050
Test Type: Draw Down
Test Duration: 3
Test Level: 21.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077054
Test Type: Draw Down
Test Duration: 5
Test Level: 22.799999237060547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077048
Test Type: Draw Down
Test Duration: 2
Test Level: 21.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077049
Test Type: Recovery
Test Duration: 2
Test Level: 47.400001525878906
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077059
Test Type: Recovery
Test Duration: 15
Test Level: 37.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077060
Test Type: Draw Down
Test Duration: 20
Test Level: 35.599998474121094
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077061
Test Type: Recovery
Test Duration: 20
Test Level: 32.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077062
Test Type: Draw Down
Test Duration: 25
Test Level: 39.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077070
Test Type: Draw Down
Test Duration: 60
Test Level: 55.099998474121094
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077063
Test Type: Recovery
Test Duration: 25
Test Level: 27.200000762939453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007077067
Test Type: Recovery

Test Duration: 40
Test Level: 17.200000762939453
Test Level UOM: ft

Water Details

Water ID: 1007077043
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 35.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1007077041
Diameter: 10.0
Depth From: 0.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1007077042
Diameter: 6.0
Depth From: 20.0
Depth To: 64.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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12 | ***1 of 1*** | ***WNW/44.9*** | ***179.2 / -0.67*** | ***lot 33 con 1 ON*** | ***WWIS***

Well ID: 6603822
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 24360
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: 7/5/1988
Selected Flag: True
Abandonment Rec:
Contractor: 4795
Form Version: 1
Owner:
Street Name:
County: NIAGARA
Municipality: PORT COLBORNE CITY
Site Info:
Lot: 033
Concession: 01
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6603822.pdf

Additional Detail(s) (Map)

Well Completed Date: 1988/05/10
Year Completed: 1988
Depth (m): 8.2296

Latitude: 42.8913322006056
Longitude: -79.2791030488313
Path: 660\6603822.pdf

Bore Hole Information

Bore Hole ID:	10463419	**Elevation:**	178.797958
DP2BR:	2.00	**Elevrc:**	
Spatial Status:	Improved	**Zone:**	17
Code OB:	y	**East83:**	640516.00
Code OB Desc:	Unknown type (bedrock encountered)	**North83:**	4750184.00
Open Hole:		**Org CS:**	N83
Cluster Kind:		**UTMRC:**	3
Date Completed:	10-May-1988 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	
Elevrc Desc:			
Location Source Date:			

Improvement Location Source: 1999-2004 MOE Water Well Data Improvement Project
Improvement Location Method: GIS
Source Revision Comment: Northing and/or Easting field has been changed. Location estimated from sketch map.
Supplier Comment: Determined to be an improvement rather than a Lot Centroid in December 2009.

Overburden and Bedrock Materials Interval

Formation ID: 932599864
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932599865
Layer: 2
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932599869
Layer: 6
Color: 2

General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	27.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932599867
Layer:	4
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932599866
Layer:	3
Color:	
General Color:	
Mat1:	00
Most Common Material:	UNKNOWN TYPE
Mat2:	68
Mat2 Desc:	DRY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932599868
Layer:	5
Color:	
General Color:	
Mat1:	00
Most Common Material:	UNKNOWN TYPE
Mat2:	68
Mat2 Desc:	DRY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966603822
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11011989
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930752889
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	27
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930752888
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	15
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996603822
Pump Set At:	
Static Level:	15.0
Final Level After Pumping:	15.0
Recommended Pump Depth:	26.0
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	3
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934611393
Test Type:	Recovery

Test Duration:	30
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934344036
Test Type:	Recovery
Test Duration:	15
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934865583
Test Type:	Recovery
Test Duration:	45
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935121583
Test Type:	Recovery
Test Duration:	60
Test Level:	15.0
Test Level UOM:	ft

Water Details

Water ID:	933951142
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	16.0
Water Found Depth UOM:	ft

---

13 | ***1 of 1*** | ***NE/45.3*** | ***179.9 / 0.04*** | ***lot 31 con 2 ON*** | ***WWIS***

Well ID:	6601066	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	3/26/1951
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3017
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	031
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601066.pdf

Additional Detail(s) (Map)

Well Completed Date:	1950/03/22
Year Completed:	1950
Depth (m):	18.288
Latitude:	42.8918666708353
Longitude:	-79.2697573414518
Path:	660\6601066.pdf

Bore Hole Information

Bore Hole ID:	10460800	***Elevation:***	180.641754
DP2BR:	4.00	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	641277.90
Code OB Desc:	Bedrock	***North83:***	4750259.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	22-Mar-1950 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590512
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932590513
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4.0
Formation End Depth:	60.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966601066
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11009370
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930748489
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	4
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930748490
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	60
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996601066
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	60.0
Recommended Pump Depth:	
Pumping Rate:	2.0
Flowing Rate:	
Recommended Pump Rate:	2.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933948340
Layer:	1

Kind Code: 1
Kind: FRESH
Water Found Depth: 55.0
Water Found Depth UOM: ft

---

14 **1 of 4** **WNW/46.0** **178.8 / -1.00** **INDEPENDENT DISCOUNT PET SUPPLY**
730 MAIN STREET WEST
PORT COLBORNE ON L3K 5V4 **PES**

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

14 **2 of 4** **WNW/46.0** **178.8 / -1.00** **INDEPENDENT DISCOUNT PET SUPPLY**
730 MAIN STREET WEST
PORT COLBORNE ON L3K 5V4 **PES**

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

14 **3 of 4** **WNW/46.0** **178.8 / -1.00** **730 Main Street West, Port Colborne ON** **PINC**

Incident ID: 2806310
Incident No: 649556
Incident Reported Dt:
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est

Pipe Material: Plastic
Fuel Category: Natural Gas
Health Impact: No
Environment Impact: No
Property Damage: No

Tank Status:	RC Established	**Service Interrupt:**	No
Task No:	3457994	**Enforce Policy:**	No
Spills Action Centre:		**Public Relation:**	No
Fuel Type:	Natural Gas	**Pipeline System:**	
Fuel Occurrence Tp:	Pipeline Strike	**PSIG:**	40
Date of Occurrence:	8/16/2011 0:00	**Attribute Category:**	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2011/09/06	**Regulator Location:**	
Depth:	20	**Method Details:**	E-mail
Customer Acct Name:			
Incident Address:			
Operation Type:	Private Dwelling		
Pipeline Type:	Service / Riser Distribution Pipeline		
Regulator Type:			
Summary:	730 Main Street West, Port Colborne - 1 ¼" Pipeline Hit		
Reported By:	Timmers, Henry - Enbridge		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:	locate error ...DPT fault		
Damage Reason:	Facility marking or location not sufficient		
Notes:	bad locate		

14 | ***4 of 4*** | ***WNW/46.0*** | ***178.8 / -1.00*** | ***INDEPENDENT DISCOUNT PET SUPPLY*** ***730 MAIN STREET WEST*** ***PORT COLBORNE ON L3K5V4*** | ***PES***

Detail Licence No:		**Operator Box:**	
Licence No:	14124	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Limited Vendor	**Oper Phone No:**	8341916
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF Link:			
PDF Site Location:			

15 | ***1 of 1*** | ***NE/48.9*** | ***179.8 / 0.00*** | ***ON*** | ***WWIS***

Well ID:	6601612	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/17/1952
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4720
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY
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:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601612.pdf

Additional Detail(s) (Map)

Well Completed Date: 1952/06/28
Year Completed: 1952
Depth (m): 4.2672
Latitude: 42.8918926296019
Longitude: -79.2702832285107
Path: 660\6601612.pdf

Bore Hole Information

Bore Hole ID: 10461346 ***Elevation:*** 180.525299
DP2BR: 4.00 ***Elevrc:***
Spatial Status: ***Zone:*** 17
Code OB: r ***East83:*** 641234.90
Code OB Desc: Bedrock ***North83:*** 4750261.00
Open Hole: ***Org CS:***
Cluster Kind: ***UTMRC:*** 9
Date Completed: 28-Jun-1952 00:00:00 ***UTMRC Desc:*** unknown UTM
Remarks: ***Location Method:*** p9
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932592528
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932592529
Layer: 2
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2:

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 14.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966601612
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11009916
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930749424
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 14
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930749423
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 5
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996601612
Pump Set At:
Static Level: 4.0
Final Level After Pumping: 10.0
Recommended Pump Depth:
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 0

Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933948894
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 14.0
Water Found Depth UOM: ft

---

16 | **1 of 1** | **NE/49.8** | **179.8 / 0.00** | **lot 31 con 2 ON** | **WWIS**

Well ID: 6601062
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 3/30/1949
Selected Flag: True
Abandonment Rec:
Contractor: 1915
Form Version: 1
Owner:
Street Name:
County: NIAGARA
Municipality: PORT COLBORNE CITY (HUMBERSTONE)
Site Info:
Lot: 031
Concession: 02
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601062.pdf

Additional Detail(s) (Map)

Well Completed Date: 1948/10/30
Year Completed: 1948
Depth (m): 14.3256
Latitude: 42.8919052661718
Longitude: -79.2699277176639
Path: 660\6601062.pdf

Bore Hole Information

Bore Hole ID: 10460796
DP2BR: 1.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 30-Oct-1948 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:

Elevation: 180.612976
Elevrc:
Zone: 17
East83: 641263.90
North83: 4750263.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	932590505
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	47.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932590504
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966601062
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11009366
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930748481
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	5
Casing Diameter:	6
Casing Diameter UOM:	inch

Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930748482
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 47
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996601062
Pump Set At:
Static Level: 24.0
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: 1
Water State After Test: CLEAR
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933948336
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 47.0
Water Found Depth UOM: ft

17	*1 of 2*	*N/50.6*	*179.8 / 0.00*	***676 Main Street Port Colborne ON***	***EHS***

Order No: 20320200403
Status: C
Report Type: Standard Express Report
Report Date: 03-DEC-20
Date Received: 02-DEC-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: MD
Search Radius (km): .25
X: -79.2727583
Y: 42.8918808

17	*2 of 2*	*N/50.6*	*179.8 / 0.00*	***676 Main Street Port Colborne ON***	***EHS***

Order No: 20320200403
Status: C
Report Type: Standard Express Report
Report Date: 03-DEC-20

Nearest Intersection:
Municipality:
Client Prov/State: MD
Search Radius (km): .25

Date Received:	02-DEC-20	**X:**	-79.2727583
Previous Site Name:		**Y:**	42.8918808
Lot/Building Size:			
Additional Info Ordered:			

18 **1 of 1** **WNW/52.2** **179.8 / 0.00** **722 MAIN ST WEST lot 33 con 1 Port Colborne ON** **WWIS**

Well ID:	7230998	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	11/4/2014
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Alteration	**Abandonment Rec:**	
Water Type:		**Contractor:**	4795
Casing Material:		**Form Version:**	7
Audit No:	Z158720	**Owner:**	
Tag:	A091779	**Street Name:**	722 MAIN ST WEST
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/723\7230998.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/10/07
Year Completed:	2014
Depth (m):	15.24
Latitude:	42.8914034054867
Longitude:	-79.2772518140814
Path:	723\7230998.pdf

Bore Hole Information

Bore Hole ID:	1005201170	**Elevation:**	180.009841
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	640667.00
Code OB Desc:		**North83:**	4750195.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	07-Oct-2014 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005276185
Layer:	1
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	0.0
Formation End Depth:	50.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005276217
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	1005276183
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Screen

Screen ID:	1005276189
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1005276184
Pump Set At:	48.0
Static Level:	16.0
Final Level After Pumping:	45.0
Recommended Pump Depth:	30.0
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	30
Flowing:	

Draw Down & Recovery

Pump Test Detail ID: 1005276204
Test Type: Draw Down
Test Duration: 20
Test Level: 32.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276195
Test Type: Recovery
Test Duration: 3
Test Level: 28.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276200
Test Type: Draw Down
Test Duration: 10
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276215
Test Type: Recovery
Test Duration: 60
Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276206
Test Type: Draw Down
Test Duration: 25
Test Level: 36.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276207
Test Type: Recovery
Test Duration: 25
Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276210
Test Type: Draw Down
Test Duration: 40
Test Level: 36.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276211
Test Type: Recovery
Test Duration: 40
Test Level: 16.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276193
Test Type: Recovery
Test Duration: 2
Test Level: 31.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276199
Test Type: Recovery
Test Duration: 5
Test Level: 21.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276214
Test Type: Draw Down
Test Duration: 60
Test Level: 36.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276196
Test Type: Draw Down
Test Duration: 4
Test Level: 23.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276202
Test Type: Draw Down
Test Duration: 15
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276208
Test Type: Draw Down
Test Duration: 30
Test Level: 36.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276212
Test Type: Draw Down
Test Duration: 50
Test Level: 36.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276197
Test Type: Recovery
Test Duration: 4
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276198
Test Type: Draw Down
Test Duration: 5
Test Level: 24.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276201
Test Type: Recovery
Test Duration: 10
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276213
Test Type: Recovery
Test Duration: 50
Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276190
Test Type: Draw Down
Test Duration: 1
Test Level: 18.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276194
Test Type: Draw Down
Test Duration: 3
Test Level: 20.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276205
Test Type: Recovery
Test Duration: 20
Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276209
Test Type: Recovery
Test Duration: 30

Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276191
Test Type: Recovery
Test Duration: 1
Test Level: 34.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276192
Test Type: Draw Down
Test Duration: 2
Test Level: 19.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005276203
Test Type: Recovery
Test Duration: 15
Test Level: 16.0
Test Level UOM: ft

Water Details

Water ID: 1005276187
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 45.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1005276186
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

19	1 of 1	N/55.1	179.8 / 0.00	676 Main St W Port Colborne ON L3K5V4	EHS

Order No: 20140612065
Status: C
Report Type: Standard Report
Report Date: 23-JUN-14
Date Received: 12-JUN-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory; Aerial Photos

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.272717
Y: 42.891921

20	1 of 2	N/57.4	179.8 / 0.00	676 MAIN ST lot 32 con 2 Port Colborne ON	WWIS

Well ID:	7228846	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	10/6/2014
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	7464
Casing Material:		**Form Version:**	7
Audit No:	Z184454	**Owner:**	
Tag:	A165980	**Street Name:**	676 MAIN ST
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	032
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/722\7228846.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/07/22
Year Completed:	2014
Depth (m):	3.04
Latitude:	42.8919366055282
Longitude:	-79.273195518041
Path:	722\7228846.pdf

Bore Hole Information

Bore Hole ID:	1005150651	**Elevation:**	180.407058
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	640997.00
Code OB Desc:		**North83:**	4750261.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	22-Jul-2014 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	org
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005378037
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	

Mat3 Desc:
Formation Top Depth: 1.5199999809265137
Formation End Depth: 3.0399999618530273
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1005378036
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0.0
Formation End Depth: 1.5199999809265137
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1005378038
Layer: 3
Color:
General Color:
Mat1: 26
Most Common Material: ROCK
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0399999618530273
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005378045
Layer: 1
Plug From: 0
Plug To: 1.21000003814697
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1005378044
Method Construction Code: G
Method Construction: S.S.A.
Other Method Construction: AUGER

Pipe Information

Pipe ID: 1005378035
Casing No: 0
Comment:
Alt Name:

Construction Record - Screen

Screen ID:	1005378042
Layer:	1
Slot:	10
Screen Top Depth:	1.51999998092651
Screen End Depth:	3.03999996185303
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6

Water Details

Water ID:	1005378040
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1005378039
Diameter:	15.239999771118164
Depth From:	0.0
Depth To:	3.0399999618530273
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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20 ***2 of 2*** ***N/57.4*** ***179.8 / 0.00*** ***676 MAIN STREET W. lot 32 con 2 Port Colborne ON*** ***WWIS***

Well ID:	7226000	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring	***Date Received:***	8/22/2014
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7464
Casing Material:		***Form Version:***	7
Audit No:	Z168008	***Owner:***	
Tag:	A165980	***Street Name:***	676 MAIN STREET W.
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	032
Well Depth:		***Concession:***	02
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/722\7226000.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/07/11
Year Completed:	2014
Depth (m):	3.048

Latitude: 42.8919366055282
Longitude: -79.273195518041
Path: 722\7226000.pdf

Bore Hole Information

Bore Hole ID: 1005096688
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11-Jul-2014 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 180.407058
Elevrc:
Zone: 17
East83: 640997.00
North83: 4750261.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1005330986
Layer: 3
Color: 6
General Color: BROWN
Mat1: 10
Most Common Material: COARSE SAND
Mat2: 08
Mat2 Desc: FINE SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005330985
Layer: 2
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2: 28
Mat2 Desc: SAND
Mat3: 34
Mat3 Desc: TILL
Formation Top Depth: 2.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1005330984
Layer: 1
Color: 2

General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	28
Mat2 Desc:	SAND
Mat3:	01
Mat3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005330994
Layer:	2
Plug From:	4.5
Plug To:	10
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005330993
Layer:	1
Plug From:	0
Plug To:	4.5
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005330992
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1005330983
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Screen

Screen ID:	1005330990
Layer:	1
Slot:	10
Screen Top Depth:	5
Screen End Depth:	10
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	6

Water Details

Water ID:	1005330988
Layer:	
Kind Code:	

Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1005330987
Diameter: 6.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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21 | ***1 of 1*** | ***WSW/63.7*** | ***177.4 / -2.50*** | ***lot 1 con 1 ON*** | ***WWIS***

Well ID: 6604210
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 165303
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/28/1995
Selected Flag: True
Abandonment Rec:
Contractor: 4795
Form Version: 1
Owner:
Street Name:
County: NIAGARA
Municipality: WAINFLEET TOWNSHIP
Site Info:
Lot: 001
Concession: 01
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6604210.pdf

Additional Detail(s) (Map)

Well Completed Date: 1995/08/16
Year Completed: 1995
Depth (m): 14.6304
Latitude: 42.8871411711501
Longitude: -79.2812524038524
Path: 660\6604210.pdf

Bore Hole Information

Bore Hole ID: 10463807
DP2BR: 3.00
Spatial Status: Improved
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 16-Aug-1995 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source: 1999-2004 MOE Water Well Data Improvement Project

Elevation: 176.784942
Elevrc:
Zone: 17
East83: 640350.00
North83: 4749715.00
Org CS: N83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method:

Improvement Location Method: GIS
Source Revision Comment: Northing and/or Easting field has been changed. Location estimated from sketch map.
Supplier Comment: Determined to be an improvement rather than a Lot Centroid in December 2009.

Overburden and Bedrock Materials Interval

Formation ID: 932601671
Layer: 1
Color: 2
General Color: GREY
Mat1: 12
Most Common Material: STONES
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932601672
Layer: 2
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 74
Mat2 Desc: LAYERED
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932601673
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 74
Mat2 Desc: LAYERED
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966604210
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID:	11012377
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930753432
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930753433
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	48
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996604210
Pump Set At:	
Static Level:	15.0
Final Level After Pumping:	15.0
Recommended Pump Depth:	40.0
Pumping Rate:	18.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934344618
Test Type:	Recovery
Test Duration:	15
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 934866162
Test Type: Recovery
Test Duration: 45
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934611974
Test Type: Recovery
Test Duration: 30
Test Level: 15.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935122161
Test Type: Recovery
Test Duration: 60
Test Level: 15.0
Test Level UOM: ft

Water Details

Water ID: 933951577
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 46.0
Water Found Depth UOM: ft

---

22 | ***1 of 1*** | ***NE/72.3*** | ***180.4 / 0.53*** | ***lot 31 con 2 ON*** | ***WWIS***

Well ID:	6601061	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	11/26/1949
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3017
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	031
Well Depth:		***Concession:***	02
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601061.pdf

Additional Detail(s) (Map)

Well Completed Date: 1948/08/07
Year Completed: 1948
Depth (m): 7.0104

Latitude:	42.8921097018147
Longitude:	-79.2697505458849
Path:	660\6601061.pdf

Bore Hole Information

Bore Hole ID:	10460795	**Elevation:**	180.701324
DP2BR:	0.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	641277.90
Code OB Desc:	Bedrock	**North83:**	4750286.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	07-Aug-1948 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590503
Layer:	1
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	23.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966601061
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11009365
Casing No:	1
Comment:	
Alt Name:	

Results of Well Yield Testing

Pump Test ID:	996601061
Pump Set At:	
Static Level:	23.0
Final Level After Pumping:	27.0
Recommended Pump Depth:	
Pumping Rate:	17.0

Flowing Rate:	
Recommended Pump Rate:	17.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933948335
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	22.0
Water Found Depth UOM:	ft

---

23 ***1 of 1*** ***W/76.3*** ***177.7 / -2.12*** ***lot 1 con 1 ON*** ***WWIS***

Well ID:	6603517	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	7/2/1982
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3640
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	WAINFLEET TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	001
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6603517.pdf

Additional Detail(s) (Map)

Well Completed Date:	1982/06/14
Year Completed:	1982
Depth (m):	13.716
Latitude:	42.8879360530917
Longitude:	-79.2814152437903
Path:	660\6603517.pdf

Bore Hole Information

Bore Hole ID:	10463126	***Elevation:***	176.593673
DP2BR:	2.00	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	640334.90
Code OB Desc:	Bedrock	***North83:***	4749803.00

Open Hole:
Cluster Kind:
Date Completed: 14-Jun-1982 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 932598540
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932598541
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 74
Mat2 Desc: LAYERED
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 45.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966603517
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11011696
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930752465
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	45
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930752464
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

Results of Well Yield Testing

Pump Test ID:	996603517
Pump Set At:	
Static Level:	15.0
Final Level After Pumping:	35.0
Recommended Pump Depth:	35.0
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934343474
Test Type:	Draw Down
Test Duration:	15
Test Level:	35.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934865023
Test Type:	Draw Down
Test Duration:	45
Test Level:	35.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935129803
Test Type:	Draw Down
Test Duration:	60

Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934610833
Test Type: Draw Down
Test Duration: 30
Test Level: 35.0
Test Level UOM: ft

Water Details

Water ID: 933950789
Layer: 1
Kind Code: 3
Kind: SULPHUR
Water Found Depth: 32.0
Water Found Depth UOM: ft

---

24 | **1 of 1** | **ENE/78.6** | **180.8 / 1.00** | **PORT COLBORNE CITY - WEST SIDE ROAD SHEBA CRES./FIRST AVE. PORT COLBORNE CITY ON** | **CA**

Certificate #: 7-0731-92-
Application Year: 92
Issue Date: 7/29/1992
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

25 | **1 of 1** | **NW/86.8** | **179.8 / 0.00** | **lot 33 con 2 ON** | **WWIS**

Well ID: 6601079
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 5/21/1954
Selected Flag: True
Abandonment Rec:
Contractor: 4720
Form Version: 1
Owner:
Street Name:
County: NIAGARA
Municipality: PORT COLBORNE CITY (HUMBERSTONE)
Site Info:
Lot: 033
Concession: 02
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601079.pdf

Additional Detail(s) (Map)

Well Completed Date: 1954/05/14
Year Completed: 1954
Depth (m): 10.668
Latitude: 42.8917175145081
Longitude: -79.2765829677766
Path: 660\6601079.pdf

Bore Hole Information

Bore Hole ID: 10460813
DP2BR: 4.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 14-May-1954 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 180.192306
Elevrc:
Zone: 17
East83: 640720.90
North83: 4750231.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Overburden and Bedrock Materials Interval

Formation ID: 932590541
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 17
Mat2 Desc: SHALE
Mat3:
Mat3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932590540
Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 09
Mat2 Desc: MEDIUM SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:	966601079
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11009383
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930748516
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	35
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930748515
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	4
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996601079
Pump Set At:	
Static Level:	16.0
Final Level After Pumping:	35.0
Recommended Pump Depth:	
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID: 933948354
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 35.0
Water Found Depth UOM: ft

---

26 | **1 of 6** | **E/97.0** | **179.8 / 0.00** | **Mapleview Medical Clinic**
340 Elgin Street
Port Colborne ON L3K6G9 | **GEN**

Generator No: ON9498143
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 621110, 621510
SIC Description: OFFICES OF PHYSICIANS, MEDICAL AND DIAGNOSTIC LABORATORIES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Lynda Collard
Phone No Admin: 9058359817 Ext.

Detail(s)

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

26 | **2 of 6** | **E/97.0** | **179.8 / 0.00** | **Mapleview Medical Clinic**
340 Elgin Street
Port Colborne ON L3K6G9 | **GEN**

Generator No: ON9498143
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 621110, 621510
SIC Description: OFFICES OF PHYSICIANS, MEDICAL AND DIAGNOSTIC LABORATORIES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Lynda Collard
Phone No Admin: 9058359817 Ext.

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

---

26 | **3 of 6** | **E/97.0** | **179.8 / 0.00** | **Mapleview Medical Clinic**
340 Elgin Street
Port Colborne ON L3K6G9 | **GEN**

Generator No: ON9498143
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 621110, 621510
SIC Description: OFFICES OF PHYSICIANS, MEDICAL AND DIAGNOSTIC LABORATORIES

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Lynda Collard
Phone No Admin: 9058359817 Ext.

Detail(s)

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

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

---

26 **4 of 6** **E/97.0** **179.8 / 0.00** **Mapleview Medical Clinic**
340 Elgin Street
Port Colborne ON L3K6G9
GEN

Generator No: ON9498143
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

26 **5 of 6** **E/97.0** **179.8 / 0.00** **Mapleview Medical Clinic**
340 Elgin Street
Port Colborne ON L3K6G9
GEN

Generator No: ON9498143
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

---

26 **6 of 6** **E/97.0** **179.8 / 0.00** **Mapleview Medical Clinic**
340 Elgin Street
Port Colborne ON L3K6G9
GEN

Generator No: ON9498143
Status: Registered
Approval Years: As of Aug 2021
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 261 A

Waste Class Desc: Pharmaceuticals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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27 | 1 of 1 | ENE/104.0 | 180.8 / 1.00 | lot 30 con 2 ON | WWIS

Well ID: 6601056
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/21/1952
Selected Flag: True
Abandonment Rec:
Contractor: 3210
Form Version: 1
Owner:
Street Name:
County: NIAGARA
Municipality: PORT COLBORNE CITY (HUMBERSTONE)
Site Info:
Lot: 030
Concession: 02
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601056.pdf

Additional Detail(s) (Map)

Well Completed Date: 1952/07/19
Year Completed: 1952
Depth (m): 12.4968
Latitude: 42.8921547197171
Longitude: -79.2643974082864
Path: 660\6601056.pdf

Bore Hole Information

Bore Hole ID: 10460790
DP2BR: 4.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 19-Jul-1952 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 181.748672
Elevrc:
Zone: 17
East83: 641714.90
North83: 4750300.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Overburden and Bedrock Materials Interval

Formation ID: 932590494

Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932590495
Layer: 2
Color:
General Color:
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 41.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966601056
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11009360
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748471
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 4
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930748472
Layer: 2
Material: 4

Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	41
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996601056
Pump Set At:	
Static Level:	17.0
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:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933948330
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	41.0
Water Found Depth UOM:	ft

---

28 | ***1 of 1*** | ***NW/110.1*** | ***179.8 / 0.00*** | ***Canadian Niagara Power Inc.***
1776 Miner Road
Port Colborne ON | ***SPL***

Ref No:	0484-AUMVC2	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2018/01/02	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Miscellaneous Communal
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	15	**Nearest Watercourse:**	
Contaminant Name:	TRANSFORMER OIL (N.O.S.)	**Site Address:**	1776 Miner Road
Contaminant Limit 1:		**Site District Office:**	Niagara
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	West Central
Environment Impact:		**Site Municipality:**	Port Colborne
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4752022
MOE Response:	No	**Easting:**	640775
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2018/01/02	**Site Map Datum:**	
Dt Document Closed:	2018/01/08	**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	Transformer
Site Name:	Pole Mounted Transformer location <UNOFFICIAL>		
Site County/District:	Regional Municipality of Niagara		
Site Geo Ref Meth:			
Incident Summary:	Canadian Niagara Power: 2L non-PCB transformer Oil to grnd, clned.		

Contaminant Qty: 2 L

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29 **1 of 1** **ESE/118.9** **178.8 / -1.00** **ON** **BORE**

Borehole ID: 604914
OGF ID: 215506722
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: DEC-1968
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 2
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Boring
Orig Ground Elev m: 178
Elev Reliabil Note:
DEM Ground Elev m: 178
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 42.886
Longitude DD: -79.266896
UTM Zone: 17
Easting: 641525
Northing: 4749612
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218366521
Top Depth: 1.4
Bottom Depth: 2
Material Color: Grey
Material 1: Bedrock
Material 2: Limestone
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,LIMESTONE, CHERT. GREY,BEDDED. 0000000700045041 **Note: Many records provided by the department have a truncated [Stratum Description] field.

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

Geology Stratum ID: 218366520
Top Depth: 0
Bottom Depth: 1.4
Material Color: Brown
Material 1: Sand
Material 2: Silt
Material 3: Gravel
Material 4: Clay
Gsc Material Description:
Stratum Description: SAND-MEDIUM,SILT, GRAVEL,CLAY. BROWN,FIRM.

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

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 035840 NTS_Sheet: 30L14F
Confiden 1: Logged by professional. Exact and complete description of material and properties.

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

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

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

30	*1 of 1*	*W/124.7*	*177.8 / -2.00*	*lot 1 con 1 ON*	*WWIS*

Well ID:	6604539	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	4/18/2001
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	4795
Casing Material:		***Form Version:***	1
Audit No:	219385	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	WAINFLEET TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	001
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6604539.pdf

Additional Detail(s) (Map)

Well Completed Date:	2001/03/09
Year Completed:	2001
Depth (m):	24.6888
Latitude:	42.889953411801
Longitude:	-79.2820315496238
Path:	660\6604539.pdf

Bore Hole Information

Bore Hole ID:	10464136	***Elevation:***	178.029449
DP2BR:	4.00	***Elevrc:***	
Spatial Status:	Improved	***Zone:***	17
Code OB:	r	***East83:***	640280.00
Code OB Desc:	Bedrock	***North83:***	4750026.00
Open Hole:		***Org CS:***	N83
Cluster Kind:		***UTMRC:***	3
Date Completed:	09-Mar-2001 00:00:00	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:	1999-2004 MOE Water Well Data Improvement Project		
Improvement Location Method:	GIS		
Source Revision Comment:	Northing and/or Easting field has been changed. Location estimated from sketch map.		
Supplier Comment:	Determined to be an improvement rather than a Lot Centroid in December 2009.		

Overburden and Bedrock Materials Interval

Formation ID:	932603043
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	79
Mat2 Desc:	PACKED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932603044
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	79
Mat2 Desc:	PACKED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932603045
Layer:	3
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	74
Mat2 Desc:	LAYERED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932603046
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	74
Mat2 Desc:	LAYERED
Mat3:	

Mat3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 81.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966604539
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11012706
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930753905
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930753904
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996604539
Pump Set At:
Static Level: 17.0
Final Level After Pumping: 19.0
Recommended Pump Depth: 25.0
Pumping Rate: 21.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 15
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934345179
Test Type:
Test Duration: 15
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934612534
Test Type:
Test Duration: 30
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934866722
Test Type:
Test Duration: 45
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935122722
Test Type:
Test Duration: 60
Test Level: 17.0
Test Level UOM: ft

Water Details

Water ID: 933951924
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 79.0
Water Found Depth UOM: ft

31	*1 of 2*	*ENE/132.2*	*180.8 / 1.00*	***Everyday Publications Inc.*** ***310 Killaly St W*** ***Port Colborne ON L3K 6A6***	***SCT***

Established: 01-JAN-64
Plant Size (ft²): 2500
Employment:

--Details--
Description: Book Publishers
SIC/NAICS Code: 511130

31	*2 of 2*	*ENE/132.2*	*180.8 / 1.00*	***Everyday Newsletter -*** ***310 Killaly St W*** ***Port Colborne ON L3K 6A6***	***SCT***

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

Established: 1964
Plant Size (ft²): 2500
Employment: 6

--Details--
Description: Periodical Publishers
SIC/NAICS Code: 511120

Description: Book Publishers
SIC/NAICS Code: 511130

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32 | **1 of 1** | **ENE/134.0** | **180.8 / 1.00** | **Newport Signs**
300 Killaly St W Unit 8
Port Colborne ON L3K 6A6 | **SCT**

Established: 01-JUL-88
Plant Size (ft²): 1800
Employment:

--Details--
Description: Sign Manufacturing
SIC/NAICS Code: 339950

Description: All Other Textile Product Mills
SIC/NAICS Code: 314990

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33 | **1 of 1** | **ENE/158.5** | **180.8 / 1.00** | **PIPELINE HIT**
46 WEST SIDE ROAD,,PORT COLBORNE,ON, L3K 5K6,CA
ON | **PINC**

Incident ID:
Incident No: 960032
Incident Reported Dt: 12/7/2012
Type: FS-Pipeline Incident
Status Code:
Tank Status: Pipeline Damage Reason Est
Task No: 4205348
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt: 2013/03/26
Depth:
Pipe Material:
Fuel Category: Natural Gas
Health Impact:
Environment Impact:
Property Damage: Yes
Service Interrupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
PSIG:
Attribute Category: FS-Perform P-line Inc Invest
Regulator Location:
Method Details: E-mail
Customer Acct Name: PIPELINE HIT
Incident Address: 46 WEST SIDE ROAD,,PORT COLBORNE,ON,L3K 5K6,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 46 WEST SIDE ROAD, PORT COLBORNE - 1" PIPELINE HIT
Reported By: Henry Timmers
Affiliation:
Occurrence Desc:
Damage Reason: No notification made to the one call center
Notes:

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34 | **1 of 1** | **WNW/162.7** | **179.8 / 0.00** | **lot 33 con 2**
ON | **WWIS**

Well ID:	6601082	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	9/23/1959
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2526
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601082.pdf

Additional Detail(s) (Map)

Well Completed Date:	1959/08/08
Year Completed:	1959
Depth (m):	10.0584
Latitude:	42.8922808565042
Longitude:	-79.2799106795829
Path:	660\6601082.pdf

Bore Hole Information

Bore Hole ID:	10460816	**Elevation:**	180.023880
DP2BR:	3.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	640447.90
Code OB Desc:	Bedrock	**North83:**	4750288.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	08-Aug-1959 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590548
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	

Formation Top Depth:	3.0
Formation End Depth:	33.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932590547
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966601082
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11009386
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930748522
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	33
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930748521
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	7
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID: 996601082
Pump Set At:
Static Level: 14.0
Final Level After Pumping: 14.0
Recommended Pump Depth: 14.0
Pumping Rate: 3.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933948357
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 33.0
Water Found Depth UOM: ft

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35 ***1 of 14*** ***SSE/162.9*** ***178.8 / -1.00*** ***WELLAND COUNTY R.C.S.S. BOARD 42-633***
ST. PATRICK, 266 ROSEMOUNT AVENUE PORT COLBORNE, C/O 427 RICE ROAD
WELLAND ON L3K 5R4 ***GEN***

Generator No: ON1381715
Status:
Approval Years: 93,94,95,96,97
Contam. Facility:
MHSW Facility:
SIC Code: 8511
SIC Description: ELEMT./SECON. EDUC.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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35 ***2 of 14*** ***SSE/162.9*** ***178.8 / -1.00*** ***NIAGARA CATHOLIC DISTRICT SCHOOL BOARD***
ST. PATRICK 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 ***GEN***

Generator No: ON1381715
Status:
Approval Years: 98,99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 8511
SIC Description: ELEMT./SECON. EDUC.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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35 **3 of 14** **SSE/162.9** **178.8 / -1.00** **NIAGARA CATHOLIC DISTRICT SCHOOL BOARD**
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 **GEN**

Generator No: ON1381715
Status:
Approval Years: 02,03,04,05,06,07,08
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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35 **4 of 14** **SSE/162.9** **178.8 / -1.00** **NIAGARA CATHOLIC DISTRICT SCHOOL BOARD**
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 **GEN**

Generator No: ON1381715
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
35	5 of 14	SSE/162.9	178.8 / -1.00	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	GEN

Generator No: ON1381715
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
35	6 of 14	SSE/162.9	178.8 / -1.00	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	GEN

Generator No: ON1381715
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
35	7 of 14	SSE/162.9	178.8 / -1.00	NIAGARA CATHOLIC DISTRICT SCHOOL BOARD ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE PORT COLBORNE ON L3K 5R4	GEN

Generator No:	ON1381715	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2012	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	611110		
SIC Description:	Elementary and Secondary Schools		

Detail(s)

Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS

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35 | ***8 of 14*** | ***SSE/162.9*** | ***178.8 / -1.00*** | ***NIAGARA CATHOLIC DISTRICT SCHOOL BOARD***
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON | ***GEN***

Generator No:	ON1381715	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2013	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	611110		
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS		

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES

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35 | ***9 of 14*** | ***SSE/162.9*** | ***178.8 / -1.00*** | ***NIAGARA CATHOLIC DISTRICT SCHOOL BOARD***
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 | ***GEN***

Generator No:	ON1381715	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2016	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	
MHSW Facility:	No	**Phone No Admin:**	
SIC Code:	611110		
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS		

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

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35 ***10 of 14*** ***SSE/162.9*** ***178.8 / -1.00*** ***NIAGARA CATHOLIC DISTRICT SCHOOL BOARD***
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 ***GEN***

Generator No: ON1381715
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

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35 ***11 of 14*** ***SSE/162.9*** ***178.8 / -1.00*** ***NIAGARA CATHOLIC DISTRICT SCHOOL BOARD***
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 ***GEN***

Generator No: ON1381715
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

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35 | **12 of 14** | **SSE/162.9** | **178.8 / -1.00** | **NIAGARA CATHOLIC DISTRICT SCHOOL BOARD**
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 | **GEN**

Generator No: ON1381715
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

---

35 | **13 of 14** | **SSE/162.9** | **178.8 / -1.00** | **NIAGARA CATHOLIC DISTRICT SCHOOL BOARD**
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 | **GEN**

Generator No: ON1381715
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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35 | **14 of 14** | **SSE/162.9** | **178.8 / -1.00** | **NIAGARA CATHOLIC DISTRICT SCHOOL BOARD**
ST. PATRICK ELEMENTARY SCHOOL 266 ROSEMOUNT AVENUE
PORT COLBORNE ON L3K 5R4 | **GEN**

Generator No: ON1381715
Status: Registered
Approval Years: As of Aug 2021

PO Box No:
Country: Canada
Choice of Contact:

Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code:
SIC Description:

Detail(s)

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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36 ***1 of 1*** ***WNW/165.1*** ***178.9 / -0.99*** ***lot 1 con 2 ON*** ***WWIS***

Well ID: 6603590
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 11/21/1983
Selected Flag: True
Abandonment Rec:
Contractor: 3640
Form Version: 1
Owner:
Street Name:
County: NIAGARA
Municipality: WAINFLEET TOWNSHIP
Site Info:
Lot: 001
Concession: 02
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6603590.pdf

Additional Detail(s) (Map)

Well Completed Date: 1983/09/10
Year Completed: 1983
Depth (m): 19.812
Latitude: 42.8917202357969
Longitude: -79.2815550854844
Path: 660\6603590.pdf

Bore Hole Information

Bore Hole ID: 10463190
DP2BR: 0.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 10-Sep-1983 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation: 178.676864
Elevrc:
Zone: 17
East83: 640314.90
North83: 4750223.00
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	932598811
Layer:	1
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	65.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966603590
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11011760
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930752551
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	36
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930752552
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	65
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID: 996603590
Pump Set At:
Static Level: 23.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 60.0
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934865045
Test Type: Recovery
Test Duration: 45
Test Level: 23.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935129829
Test Type: Recovery
Test Duration: 60
Test Level: 23.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934343497
Test Type: Recovery
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934610856
Test Type: Recovery
Test Duration: 30
Test Level: 23.0
Test Level UOM: ft

Water Details

Water ID: 933950885
Layer: 1
Kind Code: 3
Kind: SULPHUR
Water Found Depth: 62.0
Water Found Depth UOM: ft

37	*1 of 2*	*S/171.5*	*177.8 / -2.00*	***VAN DUZEN FENCE & POST*** ***60 MICHAEL DR N,,PORT COLBORNE,ON,L3K***	***PINC***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				3C5,CA ON	

Incident ID:		**Pipe Material:**	
Incident No:	1404646	**Fuel Category:**	Natural Gas
Incident Reported Dt:	5/28/2014	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	No
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:	4962017	**Enforce Policy:**	Yes
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2014/06/06	**Regulator Location:**	
Depth:		**Method Details:**	E-mail

Customer Acct Name: VAN DUZEN FENCE & POST
Incident Address: 60 MICHAEL DR N,,PORT COLBORNE,ON,L3K 3C5,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 60 MICHAEL DRIVE NORTH, PORT COLBORNE - PIPELINE HIT - 1/2"
Reported By: Peter Pirillo - Enbridge
Affiliation:
Occurrence Desc:
Damage Reason: Excavation practices not sufficient
Notes:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	2 of 2	S/171.5	177.8 / -2.00	Enbridge Gas Distribution Inc. 60 Michael Drive North Port Colborne ON	SPL

Ref No:	1057-9KJQQ2	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2014/05/28	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Leak/Break	**Sector Type:**	Pipeline/Components
Incident Event:		**Agency Involved:**	
Contaminant Code:	35	**Nearest Watercourse:**	
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	60 Michael Drive North
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Port Colborne
Nature of Impact:	Air Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	Referral to others	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2014/05/28	**Site Map Datum:**	
Dt Document Closed:	2014/07/15	**SAC Action Class:**	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason:	Operator/Human Error	**Source Type:**	
Site Name:	Enbridge - gasline<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TSSA: 1/2 " plastic gasline damage		
Contaminant Qty:	0 other - see incident description		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	1 of 1	ENE/185.3	180.8 / 1.00	299 Killaly Street West Port Colborne ON L3K 3M7	EHS

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

Order No:	20040629004	**Nearest Intersection:**	
Status:	C	**Municipality:**	Region of Niagara
Report Type:	Basic Report	**Client Prov/State:**	ON
Report Date:	7/5/04	**Search Radius (km):**	0.25
Date Received:	6/29/04	**X:**	-79.265354
Previous Site Name:		**Y:**	42.891754
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

39	1 of 1	WNW/189.5	178.8 / -1.00	lot 1 con 2 ON	WWIS

Well ID:	6603447	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	6/23/1981
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3640
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	WAINFLEET TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6603447.pdf

Additional Detail(s) (Map)

Well Completed Date:	1981/05/29
Year Completed:	1981
Depth (m):	10.0584
Latitude:	42.8917275867604
Longitude:	-79.2820447527349
Path:	660\6603447.pdf

Bore Hole Information

Bore Hole ID:	10463060	**Elevation:**	178.872985
DP2BR:	0.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	h	**East83:**	640274.90
Code OB Desc:	Mixed in a Layer	**North83:**	4750223.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	29-May-1981 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932598307
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	17
Mat2 Desc:	SHALE
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932598308
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	74
Mat2 Desc:	LAYERED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	33.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966603447
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11011630
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930752370
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	10
Casing Diameter:	7
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930752371
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	33
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996603447
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	21.0
Recommended Pump Depth:	31.0
Pumping Rate:	8.0
Flowing Rate:	
Recommended Pump Rate:	6.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934610804
Test Type:	Draw Down
Test Duration:	30
Test Level:	21.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934864995
Test Type:	Draw Down
Test Duration:	45
Test Level:	21.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934343445
Test Type:	Draw Down
Test Duration:	15
Test Level:	21.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935129770
Test Type:	Draw Down
Test Duration:	60
Test Level:	21.0
Test Level UOM:	ft

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

Water Details

Water ID:	933950703
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	28.0
Water Found Depth UOM:	ft

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40 ***1 of 1*** ***ENE/191.2*** ***180.8 / 1.00*** ***296 Killaly Street West Port Colborne ON L3K 5K6*** ***EHS***

Order No:	20190515245	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	17-MAY-19	***Search Radius (km):***	.25
Date Received:	15-MAY-19	***X:***	-79.262976
Previous Site Name:		***Y:***	42.891248
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Aerial Photos		

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41 ***1 of 2*** ***ENE/202.1*** ***180.8 / 1.00*** ***303 Killaly Street West Port Colborne ON L3K 3M7*** ***EHS***

Order No:	20080201006	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Complete Report	***Client Prov/State:***	ON
Report Date:	2/12/2008	***Search Radius (km):***	0.25
Date Received:	2/1/2008	***X:***	-79.262444
Previous Site Name:		***Y:***	42.892069
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps And /or Site Plans		

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41 ***2 of 2*** ***ENE/202.1*** ***180.8 / 1.00*** ***303 Killaly St W Port Colborne ON L3K3M7*** ***EHS***

Order No:	20140428011	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	29-APR-14	***Search Radius (km):***	.25
Date Received:	28-APR-14	***X:***	-79.263642
Previous Site Name:		***Y:***	42.892847
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

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42 ***1 of 1*** ***WNW/203.9*** ***179.8 / 0.00*** ***20134 HWY 3 lot 1 con 2 WAINFLEET ON*** ***WWIS***

Well ID:	7232408	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Commerical	***Date Received:***	11/25/2014
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Alteration	***Abandonment Rec:***	
Water Type:		***Contractor:***	4795
Casing Material:		***Form Version:***	7
Audit No:	Z158721	***Owner:***	
Tag:	A019759	***Street Name:***	20134 HWY 3
Construction Method:		***County:***	NIAGARA

Elevation (m):		**Municipality:**	WAINFLEET TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/723\7232408.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/11/06
Year Completed:	2014
Depth (m):	24.6888
Latitude:	42.8922518332518
Longitude:	-79.280975740928
Path:	723\7232408.pdf

Bore Hole Information

Bore Hole ID:	1005238269	**Elevation:**	179.611602
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	640361.00
Code OB Desc:		**North83:**	4750283.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	06-Nov-2014 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005455354
Layer:	1
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	81.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005455386
Method Construction Code:	1

Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 1005455352
Casing No: 0
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 1005455358
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1005455353
Pump Set At: 78.0
Static Level: 21.0
Final Level After Pumping: 71.0
Recommended Pump Depth: 77.0
Pumping Rate: 11.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 0
Pumping Duration HR: 5
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 1005455366
Test Type: Recovery
Test Duration: 4
Test Level: 49.58300018310547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455381
Test Type: Draw Down
Test Duration: 50
Test Level: 69.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455363
Test Type: Draw Down

Test Duration: 3
Test Level: 35.58300018310547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455365
Test Type: Draw Down
Test Duration: 4
Test Level: 38.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455369
Test Type: Draw Down
Test Duration: 10
Test Level: 56.33300018310547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455374
Test Type: Recovery
Test Duration: 20
Test Level: 22.16699981689453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455379
Test Type: Draw Down
Test Duration: 40
Test Level: 69.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455383
Test Type: Draw Down
Test Duration: 60
Test Level: 69.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455362
Test Type: Recovery
Test Duration: 2
Test Level: 53.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455372
Test Type: Recovery
Test Duration: 15
Test Level: 23.58300018310547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455368
Test Type: Recovery
Test Duration: 5
Test Level: 47.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455370
Test Type: Recovery
Test Duration: 10
Test Level: 24.08300018310547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455373
Test Type: Draw Down
Test Duration: 20
Test Level: 69.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455382
Test Type: Recovery
Test Duration: 50
Test Level: 21.16699981689453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455359
Test Type: Draw Down
Test Duration: 1
Test Level: 25.16699981689453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455380
Test Type: Recovery
Test Duration: 40
Test Level: 21.16699981689453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455364
Test Type: Recovery
Test Duration: 3
Test Level: 51.83300018310547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455384

Test Type: Recovery
Test Duration: 60
Test Level: 20.58300018310547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455371
Test Type: Draw Down
Test Duration: 15
Test Level: 68.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455377
Test Type: Draw Down
Test Duration: 30
Test Level: 69.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455360
Test Type: Recovery
Test Duration: 1
Test Level: 58.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455361
Test Type: Draw Down
Test Duration: 2
Test Level: 31.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455367
Test Type: Draw Down
Test Duration: 5
Test Level: 44.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455375
Test Type: Draw Down
Test Duration: 25
Test Level: 69.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005455376
Test Type: Recovery
Test Duration: 25
Test Level: 21.58300018310547
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1005455378
Test Type:	Recovery
Test Duration:	30
Test Level:	21.41699981689453
Test Level UOM:	ft

Water Details

Water ID:	1005455356
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	78.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005455355
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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43 ***1 of 1*** ***ENE/208.5*** ***180.8 / 1.00*** ***Dominion Natural Gas co. Ltd. - Mathias Neff No. 36*** ***OOGW***

Humberstone ON

Licence No:	F015011	***Well Compl:***	26656
Well ID:	27048	***County:***	Welland
Well Compl ID:	26656	***Block:***	NULL
W Class ID:	2362	***Lot:***	30
UWI Code:	F015011	***Conc:***	II
Permit Date:	NULL	***Surface Lat NAD83:***	42.89302556
Depth(m):	252.98	***Surface Long NAD83:***	-79.26381417
Well Pool:	Welland Pool	***Bottom Lat NAD83:***	42.89302556
Completion Date:	1906-11-01 00:00:00	***Bottom Long NAD83:***	-79.26381417
Depth Reached:	1906-11-01 00:00:00	***Lot Sides (m):***	43.67 N
Capped Date:	1967-11-24 00:00:00	***E/W (m):***	94.76 W
Class ID:		***Latitude Nad27:***	
DB Source:		***Longitude Nad27:***	
Status as of:	January 2021	***bottom lat27:***	
Start Date:	1906-10-01 00:00:00	***bottom long27:***	
SPUD Date:	1906-10-01 00:00:00	***Lateral:***	No
Class:	DEV	***Accuracy:***	200
Grnd Elev:	181.46	***Method:***	Well Records (pre 1921)
KB Elev:	181.76	***Parent:***	NULL
TVD:	252.98	***Prod Top:***	249.94
PBTD:	NULL	***Prod Bot:***	NULL
TD Form:	NULL	***PROPD Depth:***	252.98
Workover D:	NULL	***Location Method:***	Well Records (pre 1921)
Operator:	Dominion Natural Gas Co. Ltd.	***Location Accuracy:***	Within 200 metres
Township:	Humberstone	***Dt Obtained:***	NULL

Well Name:	Dominion Natural Gas co. Ltd. - Mathias Neff No. 36
Target:	NULL
Target Desc:	
Well Status Type:	Natural Gas Well
Status Type Desc:	A WELL PRESENTLY OR FORMERLY USED TO PRODUCE NATURAL GAS FROM A RESERVOIR

Well Status Mode:	Abandoned Well
Status Mode Desc:	A WELL WHICH IS OFFICIALLY PLUGGED AND ABANDONED
Classification:	DEVELOPMENT
Classification Desc:	"DEVELOPMENT WELL" MEANS A WELL THAT IS DRILLED FOR THE PURPOSE OF PRODUCING FROM OR EXTENDING A POOL OF OIL OR GAS INTO WHICH ANOTHER WELL HAS ALREADY BEEN DRILLED
Cement Rec:	NULL
Comments:	Accuracy is approximate and not verified.

Details

License No:	F015011	***Source:***	n/a
Top (m):	13.72	***Static Level (m):***	NULL
Elevation (m):	n/a	***Geology/Water:***	Water
Geology Formation:	Amherstburg	***Elevation / Top (m):***	n/a / 13.72
Type of Water:	Fresh		

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44 ***1 of 1*** ***WNW/214.3*** ***179.8 / 0.00*** ***lot 33 con 2 ON*** ***WWIS***

Well ID:	6601077	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	8/19/1953
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	4720
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	033
Well Depth:		***Concession:***	02
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601077.pdf

Additional Detail(s) (Map)

Well Completed Date:	1953/08/10
Year Completed:	1953
Depth (m):	11.2776
Latitude:	42.8927505744031
Longitude:	-79.28000784519
Path:	660\6601077.pdf

Bore Hole Information

Bore Hole ID:	10460811	***Elevation:***	180.190002
DP2BR:	6.00	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	640438.90
Code OB Desc:	Bedrock	***North83:***	4750340.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	10-Aug-1953 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932590537
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932590536
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966601077
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11009381
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748511
Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:	
Depth To:	6
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930748512
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	37
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996601077
Pump Set At:	
Static Level:	12.0
Final Level After Pumping:	12.0
Recommended Pump Depth:	
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933948352
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	37.0
Water Found Depth UOM:	ft

45 ***1 of 1*** ***WNW/214.9*** ***179.8 / 0.00*** ***lot 1 con 2 ON*** ***WWIS***

Well ID:	6602166	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Commerical	***Date Received:***	1/19/1960
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2526
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	WAINFLEET TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	001

Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6602166.pdf

Additional Detail(s) (Map)

Well Completed Date:	1959/10/15
Year Completed:	1959
Depth (m):	10.0584
Latitude:	42.892446936028
Longitude:	-79.2807755947065
Path:	660\6602166.pdf

Bore Hole Information

Bore Hole ID:	10461899	**Elevation:**	179.959655
DP2BR:	1.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	640376.90
Code OB Desc:	Bedrock	**North83:**	4750305.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	15-Oct-1959 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932594088
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932594089
Layer:	2
Color:	
General Color:	
Mat1:	17

Most Common Material:	SHALE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	33.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966602166
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11010469
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930750455
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	6
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930750456
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	33
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996602166
Pump Set At:	
Static Level:	8.0
Final Level After Pumping:	22.0
Recommended Pump Depth:	22.0
Pumping Rate:	10.0
Flowing Rate:	
Recommended Pump Rate:	10.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY

Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933949465
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	33.0
Water Found Depth UOM:	ft

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46 | ***1 of 1*** | ***WNW/226.9*** | ***179.8 / 0.00*** | ***lot 33 con 2 ON*** | ***WWIS***

Well ID:	6601083	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	4/11/1960
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2526
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601083.pdf

Additional Detail(s) (Map)

Well Completed Date:	1960/03/17
Year Completed:	1960
Depth (m):	8.8392
Latitude:	42.8928846724565
Longitude:	-79.279942882633
Path:	660\6601083.pdf

Bore Hole Information

Bore Hole ID:	10460817	**Elevation:**	180.223770
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	640443.90
Code OB Desc:	Bedrock	**North83:**	4750355.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	17-Mar-1960 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			

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

Overburden and Bedrock Materials Interval

Formation ID: 932590550
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 29.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932590549
Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966601083
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11009387
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748523
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 7

Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930748524
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	29
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996601083
Pump Set At:	
Static Level:	14.0
Final Level After Pumping:	16.0
Recommended Pump Depth:	16.0
Pumping Rate:	4.0
Flowing Rate:	
Recommended Pump Rate:	4.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933948358
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	29.0
Water Found Depth UOM:	ft

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47 | ***1 of 1*** | ***ENE/228.9*** | ***180.8 / 1.00*** | ***285 Killaly street w
Port Colborne ON L3K 6A6*** | ***EHS***

Order No:	20190102193	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Site Report	***Client Prov/State:***	ON
Report Date:	03-JAN-19	***Search Radius (km):***	.001
Date Received:	02-JAN-19	***X:***	-79.262577
Previous Site Name:		***Y:***	42.891934
Lot/Building Size:			
Additional Info Ordered:			

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48 | ***1 of 1*** | ***WNW/229.2*** | ***178.8 / -1.00*** | ***THE HARD ROCK GROUP
20546 HWY #3 WEST NOT AVAILABLE
WAINFLEET ON L0S 1V0*** | ***NPRI***

NPRI ID:	10682	***Org ID:***	69278

Other ID:	N	**Submit Date:**	8/11/2004
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	20786	**Contact ID:**	168374
Report ID:	156150	**Cont Type:**	MED
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	JOHN
Report Year:	2003	**Cont Last Name:**	BLAKE
Not-Current Rpt?:	No	**Contact Position:**	SENIOR MANAGER - AGGREGATES, ENVIRO CONSTRUCTION, HWY MAINT.
Yr of Last Filed Rpt:	2003	**Contact Fax:**	9058358338
Fac ID:	153868	**Contact Ph.:**	9058358413
Fac Name:	LAW CRUSHED STONE	**Cont Area Code:**	905
Fac Address1:	20546 HWY #3 WEST	**Contact Tel.:**	58358413
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L0S 1V0	**Cont Fax Area Cde:**	905
Facility Lat:	42.8914	**Contact Fax:**	58358338
Facility Long:	-79.283	**Contact Email:**	JBLAKE@HARDROCKGROUP.COM
DLS (Last Filed Rpt):		**Latitude:**	42.8914
Facility DLS:		**Longitude:**	-79.283
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	8	**Waste Streams:**	True¿
Parent Co.:	*	**No Streams:**	
No Parent Co.:	1	**Waste Off Sites:**	False
Pollut Prev Cmnts:	False	**No Off Sites:**	
Stacks:	True	**Shutdown:**	True
No of Stacks:		**No of Shutdown:**	1
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining and Oil and Gas Extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-metallic mineral mining and quarrying		
NAICS Code (6 digit):	212315		
NAICS 6 Description:	Limestone mining and quarrying		

Substance Release Report

Category Type ID:	3
Category Type Desc:	Fugitive
Category Type Desc (fr):	Émissions fugitives
Grouping:	Total Air
Trans Code:	VOCs
Chem:	PM10 - Particulate Matter <= 10 Microns
Chem (fr):	PM10 - Matière particulaire <= 10 microns
Quantity:	2.912
Unit:	tonnes
Basis of Estimate Cd:	E1
Basis of Estimate Desc:	E1- Site Specific Emission Factors - In use from 2003 and onward

Category Type ID:	3
Category Type Desc:	Fugitive
Category Type Desc (fr):	Émissions fugitives
Grouping:	Total Air
Trans Code:	VOCs
Chem:	PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr):	PM2,5 - Matière particulaire <= 2,5 microns
Quantity:	1.603
Unit:	tonnes
Basis of Estimate Cd:	E1
Basis of Estimate Desc:	E1- Site Specific Emission Factors - In use from 2003 and onward

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr):	PM2,5 - Matière particulaire <= 2,5 microns
Quantity:	.857
Unit:	tonnes
Basis of Estimate Cd:	E1
Basis of Estimate Desc:	E1- Site Specific Emission Factors - In use from 2003 and onward

Category Type ID:	1
Category Type Desc:	Stack / Point
Category Type Desc (fr):	Rejets de cheminée ou ponctuels
Grouping:	Total Air
Trans Code:	ASta
Chem:	PM10 - Particulate Matter <= 10 Microns
Chem (fr):	PM10 - Matière particulaire <= 10 microns
Quantity:	.858
Unit:	tonnes
Basis of Estimate Cd:	E1
Basis of Estimate Desc:	E1- Site Specific Emission Factors - In use from 2003 and onward

Category Type ID:	6
Category Type Desc:	Road dust
Category Type Desc (fr):	Poussières de routes
Grouping:	Total Air
Trans Code:	
Chem:	PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr):	PM2,5 - Matière particulaire <= 2,5 microns
Quantity:	.655
Unit:	tonnes
Basis of Estimate Cd:	E1
Basis of Estimate Desc:	E1- Site Specific Emission Factors - In use from 2003 and onward

Category Type ID:	6
Category Type Desc:	Road dust
Category Type Desc (fr):	Poussières de routes
Grouping:	Total Air
Trans Code:	
Chem:	PM10 - Particulate Matter <= 10 Microns
Chem (fr):	PM10 - Matière particulaire <= 10 microns
Quantity:	2.688
Unit:	tonnes
Basis of Estimate Cd:	E1
Basis of Estimate Desc:	E1- Site Specific Emission Factors - In use from 2003 and onward

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49 | ***1 of 2*** | ***ENE/236.1*** | ***180.8 / 1.00*** | ***1746826 Ontario Limited***
266 Killaly St. W.
Port Colborne ON L3K 6A6 | ***GEN***

Generator No:	ON2848147	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2009	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	811411		
SIC Description:	Home and Garden Equipment Repair and Maintenance		

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49 | ***2 of 2*** | ***ENE/236.1*** | ***180.8 / 1.00*** | ***Lock 8 Equipment Inc.***
266 Killaly Street West
Port Colborne ON L3K 6A6 | ***GEN***

Generator No:	ON4217034	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Aug 2021	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants

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50 ***1 of 7*** ***ENE/236.5*** ***180.8 / 1.00*** ***City of Port Colborne*** ***GEN***
52 Westside Road
Port Colborne ON L3K 5K6

Generator No:	ON2594071	**PO Box No:**	
Status:		**Country:**	
Approval Years:	06,07,08	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	913910		
SIC Description:	Other Local Municipal and Regional Public Administ		

Detail(s)

Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES

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50 ***2 of 7*** ***ENE/236.5*** ***180.8 / 1.00*** ***City of Port Colborne*** ***GEN***
52 Westside Road

Port Colborne ON L3K 5K6

Generator No:	ON2594071	***PO Box No:***	
Status:		***Country:***	
Approval Years:	2009	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	913910		
SIC Description:	Other Local Municipal and Regional Public Administration		

Detail(s)

Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES
Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

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50 ***3 of 7*** ***ENE/236.5*** ***180.8 / 1.00*** ***City of Port Colborne*** ***GEN***
52 Westside Road
Port Colborne ON L3K 5K6

Generator No:	ON2594071	***PO Box No:***	
Status:		***Country:***	
Approval Years:	2010	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	913910		
SIC Description:	Other Local Municipal and Regional Public Administration		

Detail(s)

Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148

Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

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50 ***4 of 7*** ***ENE/236.5*** ***180.8 / 1.00*** ***City of Port Colborne***
52 Westside Road
Port Colborne ON L3K 5K6 ***GEN***

Generator No: ON2594071
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 913910
SIC Description: Other Local Municipal and Regional Public Administration

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

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50 **5 of 7** **ENE/236.5** **180.8 / 1.00** **City of Port Colborne**
52 Westside Road
Port Colborne ON L3K 5K6 **GEN**

Generator No: ON2594071
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 913910
SIC Description: Other Local Municipal and Regional Public Administration

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 268
Waste Class Desc: AMINES

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

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50 **6 of 7** **ENE/236.5** **180.8 / 1.00** **City of Port Colborne**
52 Westside Road
Port Colborne ON **GEN**

Generator No: ON2594071
Status:
Approval Years: 2013

PO Box No:
Country:
Choice of Contact:

Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 913910
SIC Description:

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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50 ***7 of 7*** ***ENE/236.5*** ***180.8 / 1.00*** ***City of Port Colborne***
52 Westside Road
Port Colborne ON L3K 5K6 ***GEN***

Generator No: ON2594071 ***PO Box No:***
Status: ***Country:*** Canada
Approval Years: 2014 ***Choice of Contact:*** CO_OFFICIAL
Contam. Facility: No ***Co Admin:*** Italia Reeves
MHSW Facility: No ***Phone No Admin:*** 905-835-2901 Ext.319
SIC Code: 913910
SIC Description: 913910

Detail(s)

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

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

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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51 | **1 of 3** | **ENE/242.0** | **180.8 / 1.00** | **50 Westside Road**
Port Colborne ON L3K 5K6 | **EHS**

Order No: 20281700029
Status: C
Report Type: Standard Express Report
Report Date: 17-AUG-20
Date Received: 17-AUG-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.2648479
Y: 42.89366

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51 | **2 of 3** | **ENE/242.0** | **180.8 / 1.00** | **50 Westside Road**
Port Colborne ON L3K 5K6 | **EHS**

Order No: 20281700029
Status: C
Report Type: Standard Express Report
Report Date: 17-AUG-20
Date Received: 17-AUG-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.2648479
Y: 42.89366

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51 | **3 of 3** | **ENE/242.0** | **180.8 / 1.00** | **50 Westside Road**
Port Colborne ON L3K 5K6 | **EHS**

Order No: 20281700029
Status: C
Report Type: Standard Express Report
Report Date: 17-AUG-20
Date Received: 17-AUG-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.2648479
Y: 42.89366

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
52	1 of 1	WNW/245.8	179.8 / 0.00	lot 33 con 2 ON	WWIS

Well ID:	6601081	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	6/3/1955
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2526
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601081.pdf

Additional Detail(s) (Map)

Well Completed Date:	1955/03/30
Year Completed:	1955
Depth (m):	8.5344
Latitude:	42.8931058384806
Longitude:	-79.2796795464661
Path:	660\6601081.pdf

Bore Hole Information

Bore Hole ID:	10460815	**Elevation:**	180.273056
DP2BR:	0.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	h	**East83:**	640464.90
Code OB Desc:	Mixed in a Layer	**North83:**	4750380.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	30-Mar-1955 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590546
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932590545
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 15
Mat2 Desc: LIMESTONE
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966601081
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11009385
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748520
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 28
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930748519
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 6
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID:	996601081
Pump Set At:	
Static Level:	8.0
Final Level After Pumping:	16.0
Recommended Pump Depth:	
Pumping Rate:	10.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933948356
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	27.0
Water Found Depth UOM:	ft

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53 ***1 of 1*** ***WNW/251.9*** ***179.8 / 0.00*** ***lot 33 con 2 ON*** ***WWIS***

Well ID:	6601084	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	3/29/1961
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	4720
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	033
Well Depth:		***Concession:***	02
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6601084.pdf

Additional Detail(s) (Map)

Well Completed Date:	1961/03/17
Year Completed:	1961
Depth (m):	10.0584
Latitude:	42.8931019889286
Longitude:	-79.280022571062

Path: 660\6601084.pdf

Bore Hole Information

Bore Hole ID:	10460818	**Elevation:**	180.244155
DP2BR:	6.00	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	640436.90
Code OB Desc:	Bedrock	**North83:**	4750379.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	17-Mar-1961 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932590551
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932590552
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	33.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966601084
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

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

Pipe Information

Pipe ID: 11009388
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930748525
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 8
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930748526
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 33
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996601084
Pump Set At:
Static Level: 16.0
Final Level After Pumping: 16.0
Recommended Pump Depth: 16.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933948359
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 29.0
Water Found Depth UOM: ft

54	*1 of 1*	*SW/257.0*	*177.8 / -2.00*	***GERALD DUERR*** ***4 WOOD LANE,,PORT COLBORNE,ON,L3K 6B8,***	***PINC***

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

CA
ON

Incident ID:		**Pipe Material:**	
Incident No:	1952262	**Fuel Category:**	Natural Gas
Incident Reported Dt:	9/30/2016	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	Yes
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:	6365974	**Enforce Policy:**	Yes
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2016/09/30	**Regulator Location:**	
Depth:		**Method Details:**	E-mail

Customer Acct Name: GERALD DUERR
Incident Address: 4 WOOD LANE,,PORT COLBORNE,ON,L3K 6B8,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 4 WOOD LANE, PORT COLBORNE - PIPELINE HIT 2"
Reported By: GAMY SILVERIO - ENBRIDGE GAS
Affiliation:
Occurrence Desc:
Damage Reason: No notification made to the one call center
Notes:

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55 | **1 of 1** | **SE/261.9** | **178.6 / -1.29** | **The Corporation of the City of Port Colborne**
Stanley Street Port Colborne City
Port Colborne ON L3K 3C8 | **ECA**

Approval No:	3961-6R9MRF	**MOE District:**	Niagara
Approval Date:	2006-07-11	**City:**	
Status:	Approved	**Longitude:**	-79.2676
Record Type:	ECA	**Latitude:**	42.8847
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Niagara Peninsula	**Geometry Y:**	

Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Corporation of the City of Port Colborne
Address: Stanley Street Port Colborne City
Full Address:
Full PDF Link:
PDF Site Location:

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56 | **1 of 1** | **NNE/272.5** | **180.8 / 1.00** | **ON** | **WWIS**

Well ID:	6602323	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Commerical	**Date Received:**	2/8/1968
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3609
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	PORT COLBORNE CITY
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:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6602323.pdf

Additional Detail(s) (Map)

Well Completed Date:	1968/02/08
Year Completed:	1968
Depth (m):	12.192
Latitude:	42.8939001338452
Longitude:	-79.2708394701803
Path:	660\6602323.pdf

Bore Hole Information

Bore Hole ID:	10462056	***Elevation:***	180.766387
DP2BR:	1.00	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	641184.90
Code OB Desc:	Bedrock	***North83:***	4750483.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	08-Feb-1968 00:00:00	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932594583
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	40.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932594582
Layer:	1
Color:	
General Color:	
Mat1:	05

Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966602323
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11010626
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930750711
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 6
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930750712
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 40
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996602323
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 40.0
Recommended Pump Depth: 36.0
Pumping Rate: 90.0
Flowing Rate:
Recommended Pump Rate: 85.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY

Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933949628
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	26.0
Water Found Depth UOM:	ft

Unplottable Summary

Total: 23 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 33 Con 1	Port Colborne ON	
CA	REGIONAL MUNICIPALITY OF NIAGARA	MAIN ST. SEWAGE PUMP STATION	PORT COLBORNE CITY ON	
CA	REGIONAL MUNICIPALITY OF NIAGARA	MAIN ST. SEWAGE PUMP STATION	PORT COLBORNE CITY ON	
CA	PORT COLBORNE CITY	FIRST AVE/SHEBA CRES/THIRD AVE	PORT COLBORNE CITY ON	
CA	The Corporation of the City of Port Colborne	Rosemount Ave Including Rosemount Ave, Sugarloaf St, Hampton Ave, Schofield Ave	Port Colborne ON	
CA	SOUTH NIAGARA GATEWAY FAMILY HOMES	TOWNHOUSE REG. RD. 3 MAIN ST.	PORT COLBORNE CITY ON	
CA	PORT COLBORNE CITY	CLARENCE STREET	PORT COLBORNE CITY ON	
CA	SOUTH NIAGARA GATEWAY FAMILY HOMES	TOWNHOUSE MAIN ST.	PORT COLBORNE CITY ON	
GEN	LAW CRUSHED STONE	DIV. OF HARD ROCK PAVING CO. LTD HWY#3 W. OF PRT CLBORNE/C/O P.O.BOX220	PORT COLBORNE ON	L3K 5V8
GEN	HARD ROCK PAVING CO. LTD.	LAW CRUSHED STONE HWY#3 W. OF PORT COLBORNEOX220	PORT COLBORNE ON	L3K 5V8
GEN	HARD ROCK PAVING COMPANY LTD.	LAW CRUSHED STONE HWY#3 WEST OF PORT COLBORNE	PORT COLBORNE ON	L3K 5V8
GEN	LAW CRUSHED STONE 19-170	DIV. OF HARD ROCK PAVING CO. LTD. HWY#3 W. OF PRT CLBORNE/C/O P.O.BOX220	PORT COLBORNE ON	L3K 5V8
LIMO	Lester Shoalts Limited Former Canada Cement at Cement Rd and CNR	Lot 33 Concession 1 Lot 33 Concession 1 Port Colborne	ON	
PRT	MINISTRY OF NATURAL RESOURCES ATTN GARY ADOMKO	25TH SIDE ROAD T BAY FOREST NURSERY	PAIPOONGE ON	
SCT	Law Crushed Stone - Div. of Hard Rock Paving Co. Ltd.	Hwy 3	Port Colborne ON	L3K 5V8

SPL	SERVICE STATION	MAIN ST. WEST WEST OF JACK KNIFE BRIDGE (N.O.S.)	PORT COLBORNE CITY ON
SPL	PUC	EAST SIDE OF CANAL, ABOUT 500' SOUTH OF CLARENCE ST BY COAL STORAGE AREA. TRANSFORMER	PORT COLBORNE CITY ON
SPL	Enbridge Gas Distribution Inc.	4 Woodlane	Port Colborne ON
SPL	The Corporation of the City of Port Colborne	Clarence Street Bridge	Port Colborne ON
WWIS		lot 33 con 1	ON
WWIS		lot 1 con 1	PORT COLBORNE ON
WWIS		lot 1	ON
WWIS		lot 1 con 1	ON

Unplottable Report

Site:
Lot 33 Con 1 Port Colborne ON

Database: ***AAGR***

Type:	Quarry
Region/County:	Niagara
Township:	Port Colborne
Concession:	1
Lot:	33
Size (ha):	30
Landuse:	
Comments:	owned by Niagara Peneinsula Conservation Authority, pond

---

Site: ***REGIONAL MUNICIPALITY OF NIAGARA***
MAIN ST. SEWAGE PUMP STATION PORT COLBORNE CITY ON

Database: ***CA***

Certificate #:	8-2387-95-006
Application Year:	95
Issue Date:	12/22/95
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	STANDBY GEN-SET FOR SEW. PUMP STATION
Contaminants:	Nitrogen Oxides
Emission Control:	

Site: ***REGIONAL MUNICIPALITY OF NIAGARA***
MAIN ST. SEWAGE PUMP STATION PORT COLBORNE CITY ON

Database: ***CA***

Certificate #:	8-2387-95-000
Application Year:	95
Issue Date:	10/31/95
Approval Type:	Industrial air
Status:	Application Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	STANDBY GENERATOR FOR SEW. PUMP STATION
Contaminants:	
Emission Control:	

Site: ***PORT COLBORNE CITY***
FIRST AVE/SHEBA CRES/THIRD AVE PORT COLBORNE CITY ON

Database: ***CA***

Certificate #:	7-0436-96-
Application Year:	96
Issue Date:	6/11/1996
Approval Type:	Municipal water
Status:	Approved
Application Type:	

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

Site: ***The Corporation of the City of Port Colborne***
Rosemount Ave Including Rosemount Ave, Sugarloaf St, Hampton Ave, Schofield Ave Port Colborne ON

Database: ***CA***

Certificate #: 5790-7H4QQ6
Application Year: 2008
Issue Date: 8/8/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SOUTH NIAGARA GATEWAY FAMILY HOMES***
TOWNHOUSE REG. RD. 3 MAIN ST. PORT COLBORNE CITY ON

Database: ***CA***

Certificate #: 3-2179-88-
Application Year: 88
Issue Date: 11/18/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PORT COLBORNE CITY***
CLARENCE STREET PORT COLBORNE CITY ON

Database: ***CA***

Certificate #: 7-0816-86-
Application Year: 86
Issue Date: 7/17/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SOUTH NIAGARA GATEWAY FAMILY HOMES***
TOWNHOUSE MAIN ST. PORT COLBORNE CITY ON

Database: ***CA***

Certificate #: 7-1845-88-
Application Year: 88
Issue Date: 11/18/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***LAW CRUSHED STONE***
DIV. OF HARD ROCK PAVING CO. LTD HWY#3 W. OF PRT CLBORNE/C/O P.O.BOX220 PORT COLBORNE ON L3K 5V8

Database: ***GEN***

Generator No: ON0094303
Status:
Approval Years: 86,87,88,89
Contam. Facility:
MHSW Facility:
SIC Code: 4216
SIC Description: ASPHALT PAVING

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: ***HARD ROCK PAVING CO. LTD.***
LAW CRUSHED STONE HWY#3 W. OF PORT COLBORNEOX220 PORT COLBORNE ON L3K 5V8

Database: ***GEN***

Generator No: ON0094303
Status:
Approval Years: 92,93,97
Contam. Facility:
MHSW Facility:
SIC Code: 4216
SIC Description: ASPHALT PAVING

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: ***HARD ROCK PAVING COMPANY LTD.***
LAW CRUSHED STONE HWY#3 WEST OF PORT COLBORNE PORT COLBORNE ON L3K 5V8

Database: ***GEN***

Generator No: ON0094303
Status:
Approval Years: 98,99,00,01,02,03,04,05,06
Contam. Facility:
MHSW Facility:
SIC Code: 4216
SIC Description: ASPHALT PAVING

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

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

Waste Class: 243
Waste Class Desc: PCB'S

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: ***LAW CRUSHED STONE 19-170***
DIV. OF HARD ROCK PAVING CO. LTD. HWY#3 W. OF PRT CLBORNE/C/O P.O.BOX220 PORT COLBORNE ON L3K 5V8

Database: ***GEN***

Generator No: ON0094303
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 4216
SIC Description: ASPHALT PAVING

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: ***Lester Shoalts Limited Former Canada Cement at Cement Rd and CNR***
Lot 33 Concession 1 Lot 33 Concession 1 Port Colborne ON

Database: ***LIMO***

ECA/Instrument No: X8042
Oper Status 2016: Historic
C of A Issue Date:
C of A Issued to:
Lndfl Gas Mgmt (P):
Lndfl Gas Mgmt (F):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt Sys:
Landfill Gas Mntr:
Leachate Coll Sys:
ERC Est Vol (m3):
ERC Volume Unit:
ERC Dt Last Det:
Landfill Type:
Source File Type: Historic and Closed Landfills
Fill Rate:
Fill Rate Unit:
Tot Fill Area (ha):
Tot Site Area (ha):
Footprint:
Tot Apprv Cap (m3):
Contam Atten Zone:
Grndwtr Mntr:
Surf Wtr Mntr:
Air Emis Monitor:
Approved Waste Type:
Client Site Name: Lester Shoalts Limited
Former Canada Cement at Cement Rd and CNR
ERC Methodology:
Site Name:
Site Location Details: Lot 33 Concession 1
Lot 33 Concession 1
Port Colborne
Service Area:
Page URL:

Natural Attenuation:
Liners:
Cover Material:
Leachate Off-Site:
Leachate On Site:
Req Coll Lndfll Gas:
Lndfll Gas Coll:
Total Waste Rec:
TWR Methodology:
TWR Unit:
Tot Aprv Cap Unit:
Financial Assurance:
Last Report Year:
MOE Region:
MOE District:
Site County:
Lot:
Concession:
Latitude:
Longitude:
Easting:
Northing:
UTM Zone:
Data Source:

Site: ***MINISTRY OF NATURAL RESOURCES ATTN GARY ADOMKO***
25TH SIDE ROAD T BAY FOREST NURSERY PAIPOONGE ON

Database: ***PRT***

Location ID: 20099
Type: private
Expiry Date:
Capacity (L): 35000.00
Licence #: 0076363001

Site: ***Law Crushed Stone - Div. of Hard Rock Paving Co. Ltd.***
Hwy 3 Port Colborne ON L3K 5V8

Database: SCT

Established: 1925
Plant Size (ft²):
Employment: 35

--Details--
Description: Asphalt Paving Mixture and Block Manufacturing
SIC/NAICS Code: 324121

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: ***SERVICE STATION***
MAIN ST. WEST WEST OF JACK KNIFE BRIDGE (N.O.S.) PORT COLBORNE CITY ON

Database: SPL

Ref No:	103502	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	8/2/1994	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	CONTAINER OVERFLOW	**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:**	18102
Nature of Impact:	Water course or lake	**Site Lot:**	
Receiving Medium:	LAND / WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	WORKS, FIRE DEPT,
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	8/2/1994	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	ERROR	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PT. COLBORNE GAS BAR: 70LGASOLINE OVERFILL OF CAR TO LOT & STORM SEWER		
Contaminant Qty:			

Site: ***PUC***
EAST SIDE OF CANAL, ABOUT 500' SOUTH OF CLARENCE ST BY COAL STORAGE AREA. TRANSFORMER PORT COLBORNE CITY ON

Database: SPL

Ref No:	119665	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	10/15/1995	**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:	CONFIRMED	***Site Municipality:***	18102
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	FD
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	10/15/1995	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	STORM/FLOOD/WIND	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PORT COLBORNE HYDRO- UP TO 450 L MINERAL OIL TO STORAGE AREA.		
Contaminant Qty:			

Site: ***Enbridge Gas Distribution Inc.***
4 Woodlane Port Colborne ON

Database: ***SPL***

Ref No:	1755-AE9P4J	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	9/29/2016	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Miscellaneous Communal
Incident Event:	Leak/Break	***Agency Involved:***	
Contaminant Code:	35	***Nearest Watercourse:***	
Contaminant Name:	NATURAL GAS (METHANE)	***Site Address:***	4 Woodlane
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	Port Colborne
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Air	***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/29/2016	***Site Map Datum:***	
Dt Document Closed:	10/3/2016	***SAC Action Class:***	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason:	Operator/Human Error	***Source Type:***	
Site Name:	residential <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TSSA: 2 inch plastic, safe		
Contaminant Qty:	0 n/a		

Site: ***The Corporation of the City of Port Colborne***
Clarence Street Bridge Port Colborne ON

Database: ***SPL***

Ref No:	6820-9ABD8M	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2013/08/05	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Leak/Break	***Sector Type:***	Motor Vehicle
Incident Event:		***Agency Involved:***	
Contaminant Code:	15	***Nearest Watercourse:***	
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	Clarence Street Bridge
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:***	Port Colborne
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	Planned Field Response	***Easting:***	
Dt MOE Arvl on Scn:	2013/08/06	***Site Geo Ref Accu:***	

MOE Reported Dt:	2013/08/06	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Material Failure - Poor Design/Substandard Material	***Source Type:***	
Site Name:	Clarence Street Bridge<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Port Colborne: 25L hydraulic oil to roadway, clng		
Contaminant Qty:	25 L		

Site:
lot 33 con 1 ON

Database:
WWIS

Well ID:	6604494	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/25/2000
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	4795
Casing Material:		***Form Version:***	1
Audit No:	219365	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	033
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	LEF
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:	10464091	***Elevation:***	
DP2BR:	2.00	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	17-Jul-2000 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932602871
Layer:	2
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	74
Mat2 Desc:	LAYERED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0

Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932602872
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 74
Mat2 Desc: LAYERED
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932602870
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 12
Mat2 Desc: STONES
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966604494
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11012661
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930753842
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID:	930753841
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996604494
Pump Set At:	
Static Level:	0.0
Final Level After Pumping:	5.0
Recommended Pump Depth:	25.0
Pumping Rate:	21.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	30
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934612514
Test Type:	
Test Duration:	30
Test Level:	0.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934866702
Test Type:	
Test Duration:	45
Test Level:	0.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935122702
Test Type:	
Test Duration:	60
Test Level:	0.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934345159
Test Type:	
Test Duration:	15
Test Level:	0.0
Test Level UOM:	ft

Water Details

Water ID:	933951876
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	29.0
Water Found Depth UOM:	ft

Site:
lot 1 con 1 PORT COLBORNE ON

Database:
WWIS

Well ID:	7045653	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	6/25/2007
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	4795
Casing Material:		***Form Version:***	3
Audit No:	Z45777	***Owner:***	
Tag:	A041246	***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	001
Well Depth:		***Concession:***	01
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:	11767981	***Elevation:***	
DP2BR:	4.00	***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	
Date Completed:	01-May-2007 00:00:00	***UTMRC Desc:***	
Remarks:		***Location Method:***	
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	933106281
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	74
Mat2 Desc:	LAYERED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.2100000381469727
Formation End Depth:	6.699999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933106280
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	79
Mat2 Desc:	PACKED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.2100000381469727
Formation End Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	967045653
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11775671
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930901725
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	0
Depth To:	2.92000007629395
Casing Diameter:	15.2399997711182
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Results of Well Yield Testing

Pump Test ID:	11779531
Pump Set At:	6.0
Static Level:	0.6000000238418579
Final Level After Pumping:	2.430000066757202
Recommended Pump Depth:	2.0
Pumping Rate:	60.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	
Flowing:	

Draw Down & Recovery

Pump Test Detail ID:	11837773
Test Type:	Draw Down
Test Duration:	15
Test Level:	0.6000000238418579
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11837940
Test Type:	Draw Down
Test Duration:	50
Test Level:	0.6000000238418579
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11837941
Test Type:	Draw Down
Test Duration:	60
Test Level:	0.6000000238418579
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	11837939
Test Type:	Draw Down
Test Duration:	30
Test Level:	0.6000000238418579
Test Level UOM:	m

Water Details

Water ID:	934087444
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	3.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	11854807
Diameter:	20.0
Depth From:	0.0
Depth To:	2.9200000762939453
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Site:
lot 1 ON

Database:
WWIS

Well ID:	6604379	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	11/18/1999
Sec. Water Use:		***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	4795
Casing Material:		***Form Version:***	1
Audit No:	211386	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	NIAGARA
Elevation (m):		***Municipality:***	PORT COLBORNE CITY (HUMBERSTONE)

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

Site Info:
Lot: 001
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10463976
DP2BR: 57.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 19-Oct-1999 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932602448
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 29
Mat2 Desc: FINE GRAVEL
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 46.0
Formation End Depth: 57.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932602447
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 46.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932602449
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 57.0
Formation End Depth: 89.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966604379
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11012546
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930753702
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 89
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930753701
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 57
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996604379
Pump Set At:
Static Level: 54.0
Final Level After Pumping: 56.0
Recommended Pump Depth: 79.0
Pumping Rate: 14.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM

Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934866675
Test Type:
Test Duration: 45
Test Level: 54.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934612487
Test Type:
Test Duration: 30
Test Level: 54.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934345132
Test Type:
Test Duration: 15
Test Level: 54.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935122675
Test Type:
Test Duration: 60
Test Level: 54.0
Test Level UOM: ft

Water Details

Water ID: 933951760
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 86.0
Water Found Depth UOM: ft

Site:
lot 1 con 1 ON

Database:
WWIS

Well ID: 6603759
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 07805
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:

Data Entry Status:
Data Src: 1
Date Received: 7/8/1987
Selected Flag: True
Abandonment Rec:
Contractor: 4795
Form Version: 1
Owner:
Street Name:
County: NIAGARA
Municipality: PORT COLBORNE CITY (HUMBERSTONE)
Site Info:
Lot: 001

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

Concession: 01
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10463358
DP2BR: 21.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 11-Jun-1987 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932599571
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 77
Mat2 Desc: LOOSE
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932599573
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 31
Mat2 Desc: COARSE GRAVEL
Mat3: 77
Mat3 Desc: LOOSE
Formation Top Depth: 6.0
Formation End Depth: 17.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932599572
Layer: 2

Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932599574
Layer: 4
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 29
Mat2 Desc: FINE GRAVEL
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 17.0
Formation End Depth: 21.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932599575
Layer: 5
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 74
Mat2 Desc: LAYERED
Mat3:
Mat3 Desc:
Formation Top Depth: 21.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966603759
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11011928
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930752798
Layer: 2

Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 37
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930752797
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996603759
Pump Set At:
Static Level: 17.0
Final Level After Pumping: 6.0
Recommended Pump Depth: 27.0
Pumping Rate: 7.0
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: No

Draw Down & Recovery

Pump Test Detail ID: 935121547
Test Type: Recovery
Test Duration: 60
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934611357
Test Type: Recovery
Test Duration: 30
Test Level: 17.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934344000
Test Type: Recovery
Test Duration: 15
Test Level: 21.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934865547
Test Type: Recovery
Test Duration: 45
Test Level: 17.0
Test Level UOM: ft

Water Details

Water ID: 933951072
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 37.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Sep 30, 2021

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 -Aug 2021

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

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Jul 2021

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Sep 30, 2021

Drill Hole Database: Provincial DRL

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

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011- Sep 30, 2021

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994- Sep 30, 2021

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011- Sep 30, 2021

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Jun 30, 2021

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land 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, 2020

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Aug 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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-Aug 31, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Dec 2020

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

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2021

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Sep 30, 2021

Canadian Pulp and Paper: Private PAP

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

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: Oct 2011- Sep 30, 2021

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994 - Sep 30, 2021

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-1990, 1992-2018

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Sep 2021

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Sep 2020

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011- Sep 30, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 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: Apr 30, 2021

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

opta
INFORMATION INTELLIGENCE

enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

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

Report Completed By:

Stephanie

Site Address:

Quarry Ponds Killally Street West Port Colborne ON

Project No:

21112300694

Opta Order ID:

100569

Requested By:

Eleanor Goolab
Ecolog Eris

Date Completed:

11/30/2021 11:06:49 AM

Project Name: Mapleview Port Colborne Subdivision project

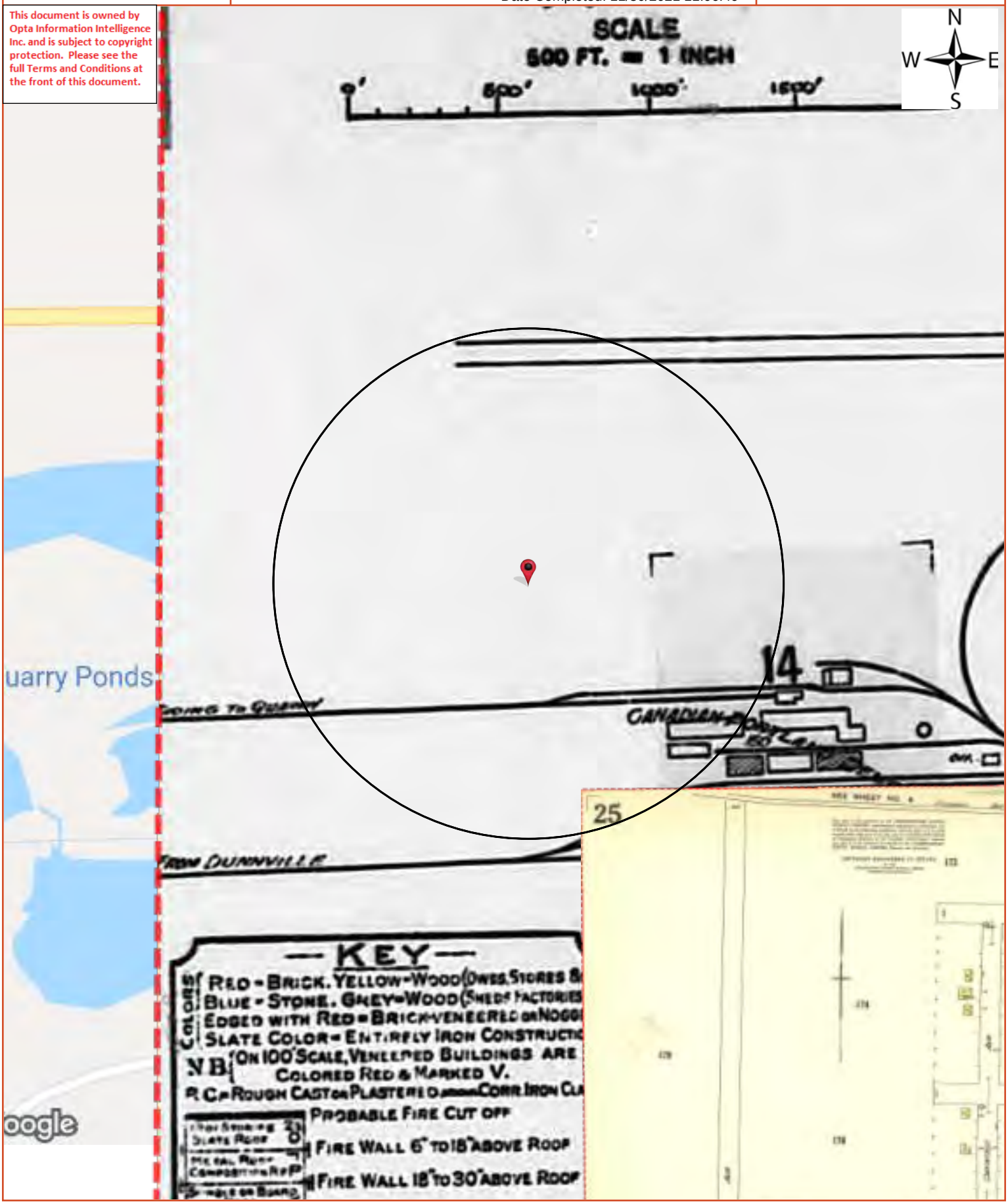
Project #: 21112300694

ENVIROSCAN Report

Search Area: Quarry Ponds Killally Street West Port Colborne ON

Requested by:
Eleanor Goolab
Date Completed: 11/30/2021 11:06:49

enviroscan
OPTA INFORMATION INTELLIGENCE



Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

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.

ENVIROSCAN Report

Report Index

Requested by:
Eleanor Goolab
Date Completed: 11/30/2021 11:06:49

OPTA INFORMATION INTELLIGENCE

Page	Report Title
6	(1914) Volume: Ontario Miscellaneous Firemap: 1
8	(1953) Volume: Port Colborne Firemap: 25

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W E
S

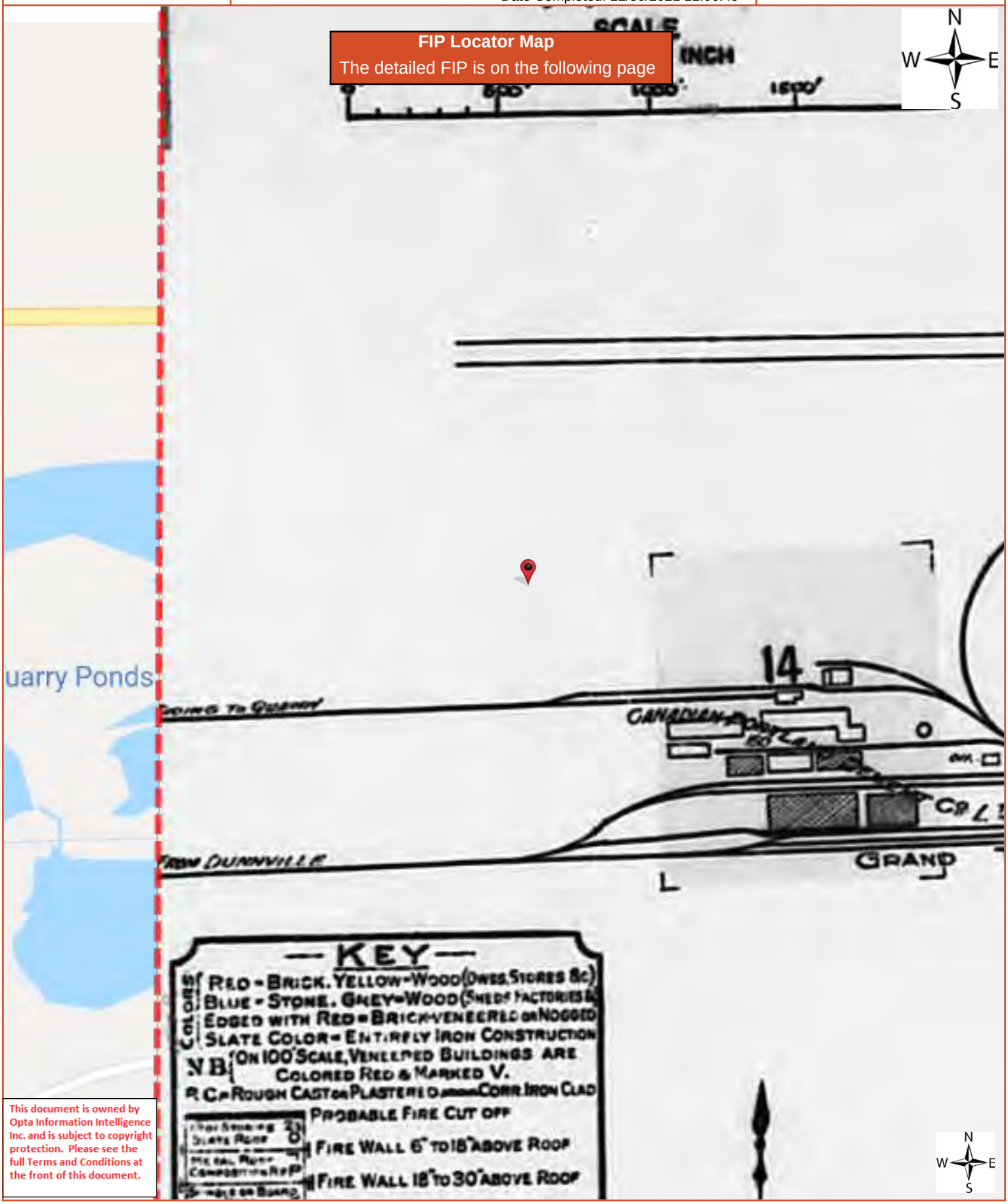
ENVIROSCAN Report

1914 Volume: Ontario Miscellaneous Firemap: 1
Port Colborne Plan: 1559 (1914)
Sheet: 1 (1914)

Requested by:
Eleanor Goolab
Date Completed: 11/30/2021 11:06:49

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



1914 Volume: Ontario Miscellaneous Firemap: 1
Port Colborne Plan: 1559 (1914)
Sheet: 1 (1914)

Project Name: Mapleview Port Colborne Subdivision project

Project #: 21112300694

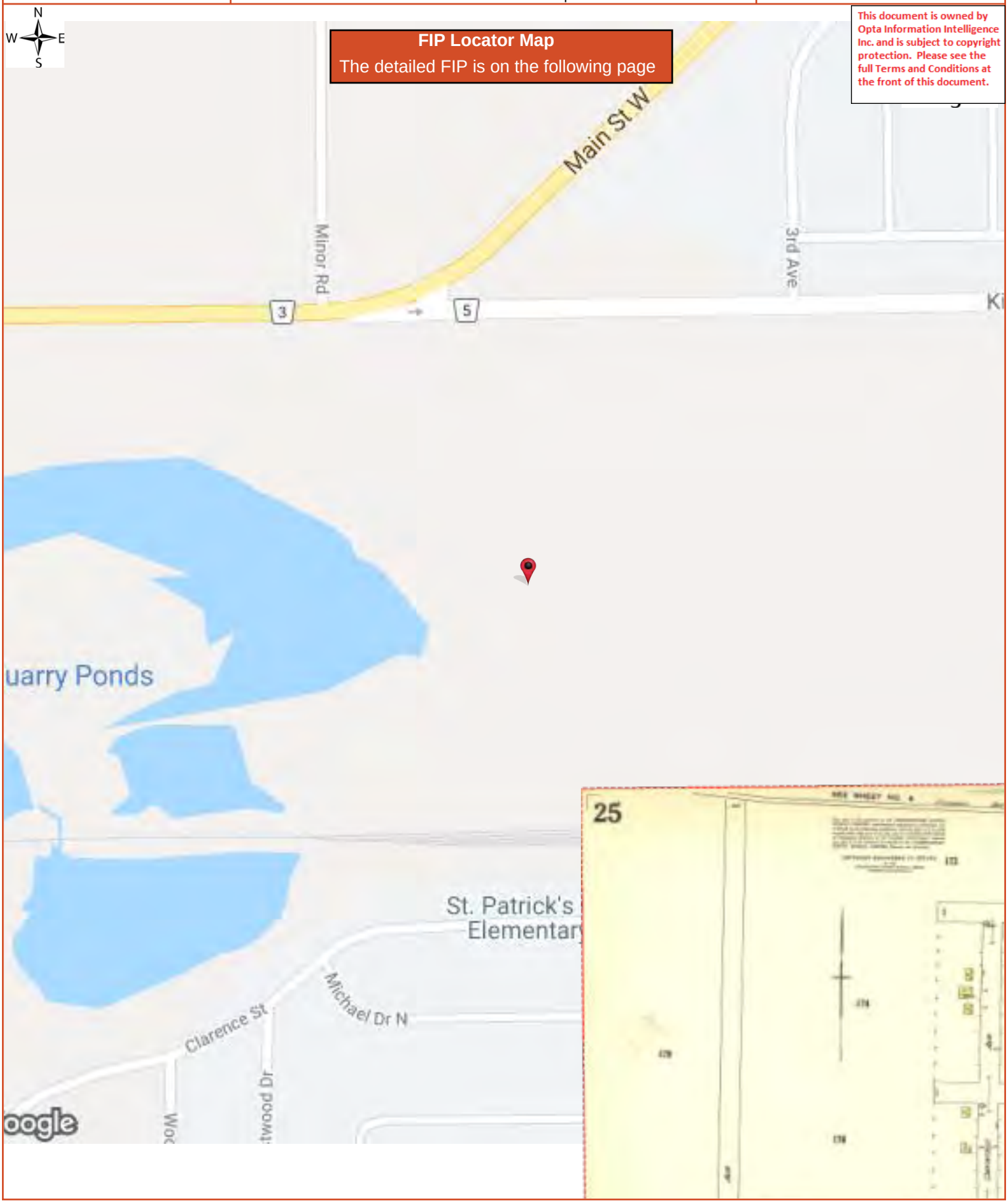
ENVIROSCAN Report

1953 Volume: Port Colborne Firemap: 25
Port Colborne Plan: 1563 (1953)
Sheet: 25 (1953)

Requested by:
Eleanor Goolab
Date Completed: 11/30/2021 11:06:49

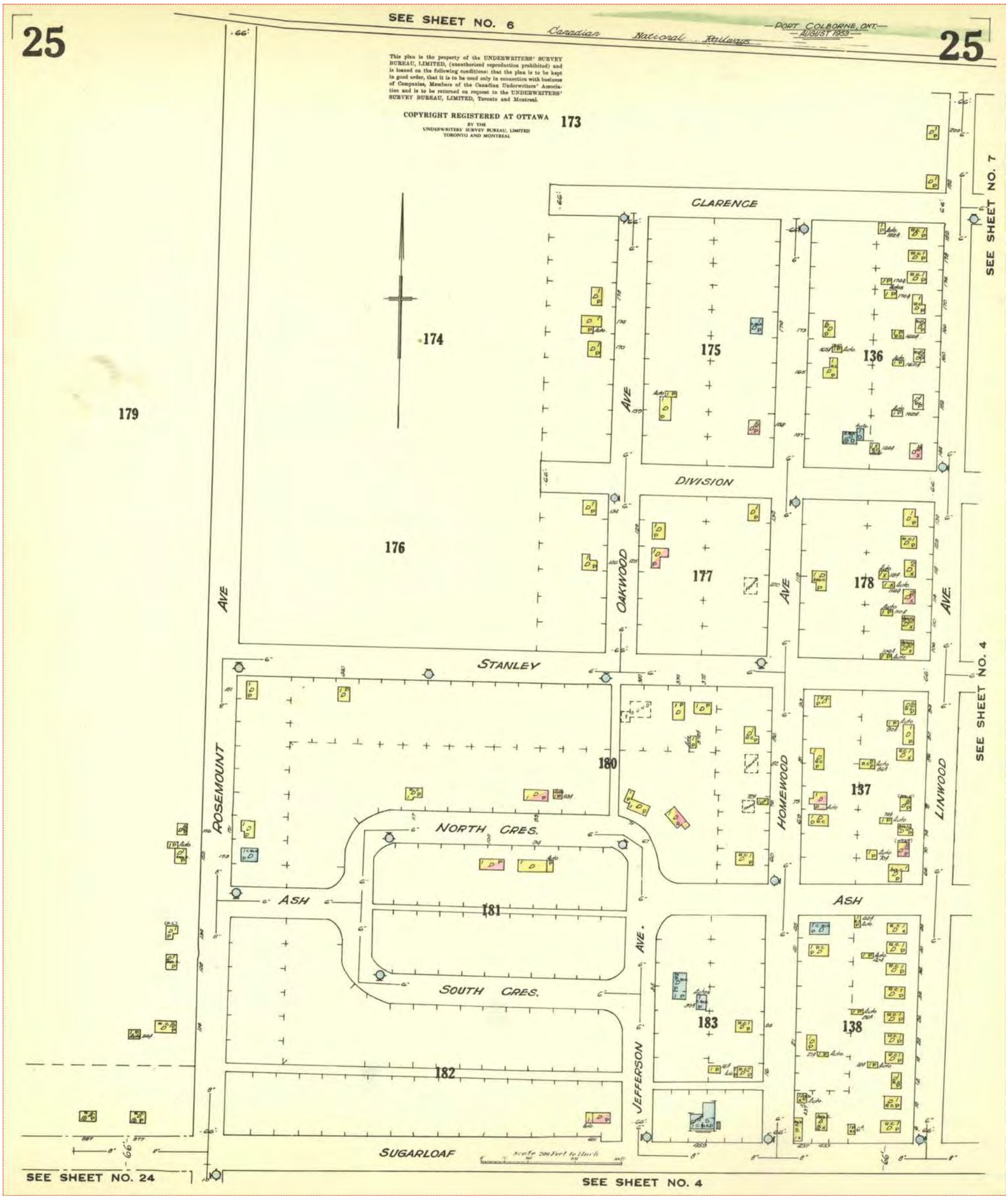
enviroscan
OPTA INFORMATION INTELLIGENCE

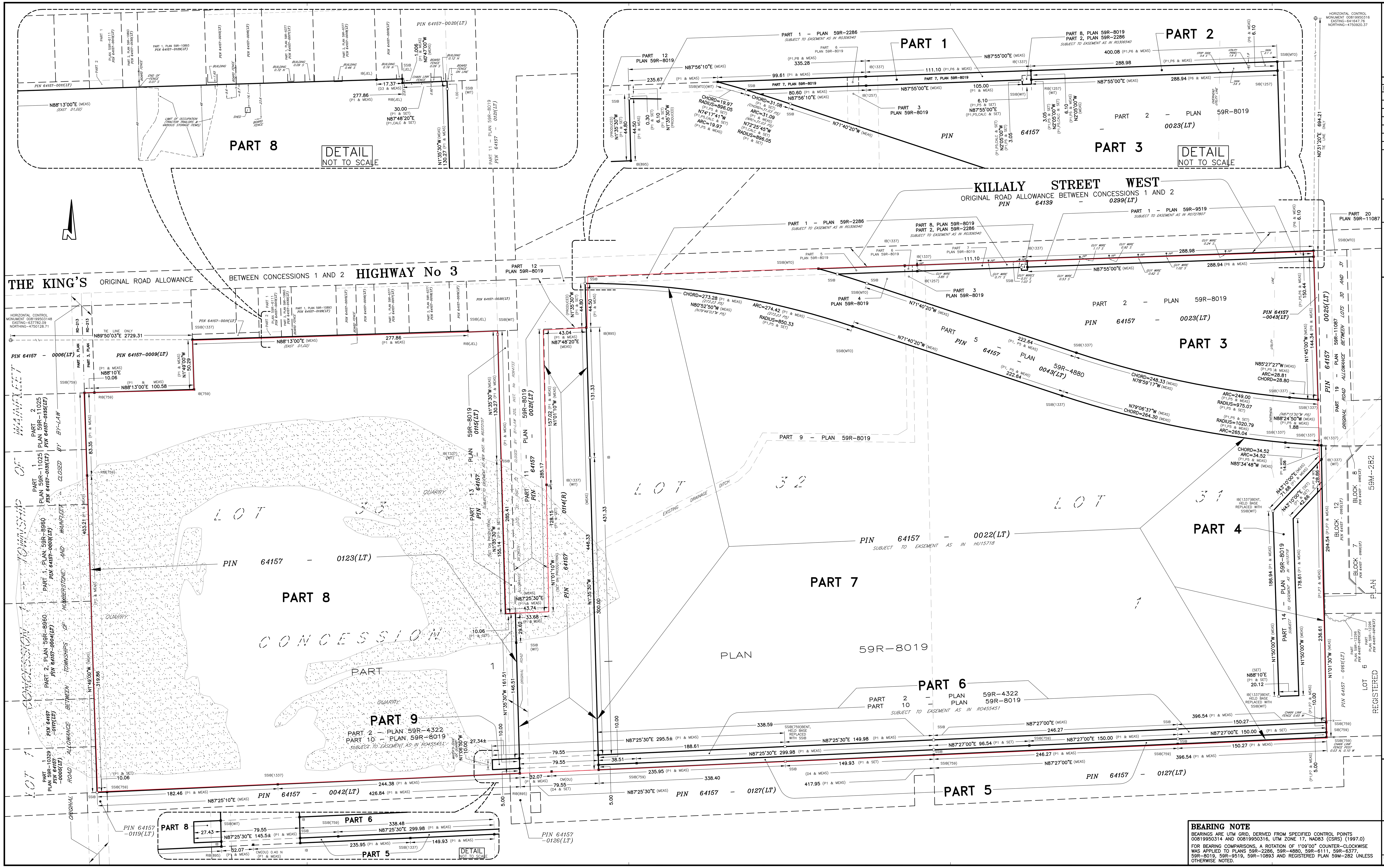
FIP Locator Map
The detailed FIP is on the following page



ENVIROSCAN Report

1953 Volume: Port Colborne Firemap: 25
Port Colborne Plan: 1563 (1953)
Sheet: 25 (1953)





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

DATE ____________________

____
DONALD G. CHAMBERS, B. Sc., O.L.S.

PLAN 59R-________

RECEIVED AND DEPOSITED

DATE ____________________

____
ASSISTANT DEPUTY LAND REGISTRAR FOR THE LAND TITLES DIVISION OF NIAGARA SOUTH(59)

SCHEDULE

PART	LOT	CONCESSION	PIN
1	PART OF LOTS 31 AND 32	CONCESSION 1	64157–0023(LT)
2	PART OF LOT 31		
3	PART OF LOTS 31 AND 32		
4	PART OF LOT 31		64157–0022(LT)
5	PART OF LOTS 31 AND 32		
6			
7			
8	PART OF LOT 33, PART OF THE ROAD ALLOWANCE BETWEEN LOTS 32 AND 33 (CLOSED BY BY–LAW No 205, INST. No RO64733) AND PART OF THE ROAD ALLOWANCE BETWEEN TOWNSHIPS OF WAINFLEET AND HUMBERSTONE CLOSED BY BY–LAW 546(1915) FOR THE TOWNSHIP OF HUMBERSTONE (UNREGISTERED)		64157–0123(LT)
9	PART OF LOT 33 AND PART OF THE ROAD ALLOWANCE BETWEEN LOTS 32 AND 33 (CLOSED BY BY–LAW No 205, INST. No RO64733)	CONCESSION 1	

PARTS 1, 2 AND 3: ALL OF PIN 64157–0023(LT)
PART 1 SUBJECT TO EASEMENT AS IN RO306540
PART 2 SUBJECT TO EASEMENT AS IN RO727807

PARTS 4, 5, 6 AND 7: ALL OF PIN 64157–0022(LT)
PARTS 4, 5, 6 AND 7 SUBJECT TO EASEMENT AS IN HU15718
PART 5 SUBJECT TO EASEMENT AS IN RO455451

PARTS 8 AND 9: ALL OF PIN 64157–0123(LT)
PART 9 SUBJECT TO EASEMENT AS IN RO455451

PLAN OF SURVEY OF

PART OF LOTS 31, 32 AND 33, CONCESSION 1 PART OF THE ROAD ALLOWANCE BETWEEN LOTS 32 AND 33, CONCESSION 1

CLOSED BY BY–LAW No 205, INSTRUMENT No RO64733

GEOGRAPHIC TOWNSHIP OF HUMBERSTONE

AND PART OF THE ROAD ALLOWANCE BETWEEN TOWNSHIPS OF WAINFLEET AND HUMBERSTONE

CLOSED BY BY–LAW 546(1915) FOR THE TOWNSHIP OF HUMBERSTONE (UNREGISTERED)

IN THE

CITY OF PORT COLBORNE

REGIONAL MUNICIPALITY OF NIAGARA

SCALE 1 : 1500

0 5 10 15 20 25 50 100 METRES

METRIC NOTE

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

DISTANCE NOTE

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99982.

SPECIFIED CONTROL POINTS (SCPs): UTM ZONE 17, NAD 83 (CSRS) (1997.0). CO–ORDINATES TO URBAN ACCURACY PER SEC. 14 (2) OF O.REG. 216/10

POINT ID	NORTHING	EASTING
SCP 00819950314	4750128.71	637782.09
SCP 00819950316	4750920.37	641647.76

CO–ORDINATES CANNOT, IN THEMSELVES, BE USED TO RE–ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

LEGEND

(symbol)	DENOTES	SURVEY MONUMENT FOUND
(symbol)	"	SURVEY MONUMENT SET
SIB	"	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
IB	"	IRON BAR
CC	"	CUT CROSS
RIB	"	ROUND IRON BAR
IP	"	IRON PIPE
MEAS	"	MEASURED
WIT	"	WITNESS
OU	"	ORIGIN UNKNOWN
N/S/E/W	"	NORTH/SOUTH/EAST/WEST
HP	"	HYDRO POLE
PIN	"	PROPERTY IDENTIFICATION NUMBER
P1	"	DEPOSITED PLAN 59R–8019
P2	"	DEPOSITED PLAN 59R–6111
P3	"	DEPOSITED PLAN 59R–10893
P4	"	DEPOSITED PLAN 59R–6377
P5	"	DEPOSITED PLAN 59R–4880
P6	"	DEPOSITED PLAN 59R–9519
P7	"	REGISTERED PLAN 59M–282
P8	"	DEPOSITED PLAN 59R–2286
D1	"	INSTRUMENT No RO247122 – PIN 64157–0015(LT)
D2	"	INSTRUMENT No RO473497 – PIN 64157–0016(LT)
D3	"	INSTRUMENT No RO756862 – PIN 64157–0019(LT)
D4	"	INSTRUMENT No BB51278 – PIN 64157–0114(R)
759	"	C. J. CLARKE, O.L.S.
895	"	D. A. LANE, O.L.S.
1257	"	R. LAROCQUE, O.L.S.
1337/MARR	"	D. G. MARR, O.L.S.
1654	"	D. G. CHAMBERS, O.L.S.
JEL	"	J. E. LANTHIER, O.L.S.

BARS FOUND BEAR THE NUMBER 1654 UNLESS OTHERWISE NOTED.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1) THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM;
2) THE SURVEY WAS COMPLETED ON THE 17th DAY OF JANUARY, 2011.

____________ DATE

____________ DONALD G. CHAMBERS, B. Sc., O.L.S.

BEARING NOTE

BEARINGS ARE UTM GRID, DERIVED FROM SPECIFIED CONTROL POINTS 00819950314 AND 00819950316, UTM ZONE 17, NAD83 (CSRS) (1997.0)

FOR BEARING COMPARISONS, A ROTATION OF 1°09'00" COUNTER–CLOCKWISE WAS APPLIED TO PLANS 59R–2286, 59R–4880, 59R–6111, 59R–6377, 59R–8019, 59R–9519, 59R–10893 AND REGISTERED PLAN 59M–282 UNLESS OTHERWISE NOTED.

CHAMBERS AND ASSOCIATES SURVEYING LTD

12 THOROLD ROAD EAST
WELLAND ONTARIO
L3C 3T2

(905) 735–7841 / 735–7844
FAX (905) 735–7333
don@casl–surveying.com

DRAWN BY:	DISK:	DWG:	FILE No:
D. H. T.	CIVIL 2010	06084–1_LT	06–84–1

I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT AND THE REGISTRY ACT	PLAN 59R-4880
860428 Z.J.BYBLOW HEAD, SURVEYS AND PLANS	RECEIVED AND DEPOSITED 21 MAY 1986 ASST. DEP. LAND REGISTRAR FOR THE LAND TITLES DIVISION AND THE REGISTRY DIVISION OF NIAGARA SOUTH
IMPERIAL DISTANCES SHOWN ON THIS PLAN ARE IN FEET AND CAN BE CONVERTED TO METRES BY MULTIPLYING BY 0.3048	
CAUTION: THIS PLAN IS NOT A PLAN OF SUBDIVISION WITHIN THE MEANING OF THE PLANNING ACT.	

SCHEDULE (REGISTRY ACT)

PART	AREA	INST.	NAME	LOT	LOCATION
1	0.024 AC	335543	THE REGIONAL MUNICIPALITY OF NIAGARA	PART OF 30	CONCESSION 1, TOWNSHIP OF HUMBERSTONE
5	6.929 ACS	250791	STONE AND WELLINGTON INC.	PART OF 31 AND 32	
6	0.370 AC	250791 306540 (EASEMENT)		PART OF 32	

SCHEDULE (LAND TITLES ACT)

PART	AREA	PARCEL	NAME	LOT	LOCATION
2	0.304 AC	PART OF PARCEL 30-2 SECTION 59-HUMBERSTONE-1	STONE AND WELLINGTON INC.	PART OF 30	CONCESSION 1, TOWNSHIP OF HUMBERSTONE
3	1.402 ACS			PART OF 31 AND PART OF THE ORIGINAL ROAD ALLOWANCE BETWEEN LOTS 30 AND 31	
4	0.023 AC	PART OF PARCEL 30-2 SECTION 59-HUMBERSTONE-1 15718 (EASEMENT)			

NOTE : JEL DENOTES J.E.LANTHIER,O.L.S.
MONUMENTS MARKED 759 WERE PLANTED BY C.J.CLARKE,O.L.S.
(A) DENOTES 59R-3979
(B) DENOTES 59R-3149
(C) DENOTES 59R-1743

REFERENCE PLAN
IN THE CITY OF
PORT COLBORNE
REGIONAL MUNICIPALITY OF NIAGARA

SCALE : 1 INCH - 100 FEET

50' 0 50' 100 150 200'

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE LAND TITLES ACT, THE REGISTRY ACT AND THE REGULATIONS MADE THEREUNDER.
2. THE SURVEY WAS COMPLETED ON THE 21ST DAY OF MARCH, 1986.

APRIL 24/86

T.HANCOCK
ONTARIO LAND SURVEYOR

BEARINGS ARE ASTRONOMIC, DERIVED FROM THE SOUTH LIMIT OF PART 1, PLAN 59R-2286 BEING N89°05'10"E AND REFERRED TO THE MERIDIAN THROUGH THE NORTH-EAST CORNER OF LOT 1, CONCESSION 1, TOWNSHIP OF WAINFLEET (LONGITUDE 79°17'WEST).

INDICATES A STANDARD IRON BAR PLANTED.

MINISTRY OF TRANSPORTATION AND COMMUNICATIONS, 1986

MTC USE ONLY		
HWY 3	W.O.448-64-00-C	PLAN TYPE 'U'
INDEXED UNDER TWP OF HUMBERSTONE	PLAN AGREES WITH INSTRUCTIONS AND APPROVALS J.E.DANIELS,C.S.T. April 24/86 SUPERVISOR PLANS	P-1653-60

SUPERVISOR SURVEYS	PARTY CHIEF	EXAMINER PLANS	TECHNICIAN PLANS	TECHNICIAN PLANS
T.HANCOCK,O.L.S.	J.HOULAHAN	G.ROMANCHUKEWYCH,C.E.T.	F.CHIU,C.S.T.	T.A.STEELE,B.A.

CENTRAL REGION

GeoWarehouse Property Report Generated on November 23, 2021

PORT COLBORNE

PIN 641570123

Report title

This report was prepared by:

ANGELA SHI
Broker
Cell: 6479865096

angela.yqshi@gmail.com
www.angelashi.ca

Homelife New World Realty Inc.
201 Consumers Rd, Unit 205
Toronto, Ontario, Canada, M2J 4G8
Office: 4164901177
Fax: 4164901928

Property Details

GeoWarehouse Address:

Not Available
PORT COLBORNE

PIN:	641570123
Land Registry Office:	NIAGARA SOUTH (59)
Land Registry Status:	Active
Registration Type:	Certified (Land Titles)
Ownership Type:	Freehold

Ownership

Owner Name:

COLBORNE ESTATE COMPANY LTD.

Legal Description

PT LT 33 CON 1 HUMBERSTONE; PT RDAL BTN TWP HUMBERSTONE & WAINFLEET HUMBERSTONE (CLOSED BY BYLAW WF9687A); PT RDAL BTN LTS 32 & 33 CON 1 HUMBERSTONE (CLOSED BY RO64733 & AA68900) PT 1, 59R8019 LYING W OF THE RDAL BTN LTS 32 & 33, CON 1 HUMBERSTONE EXCEPT BB51278; S/T RO455451; PORT COLBORNE

Lot Size

Area:	1993786.43 sq.ft
Perimeter:	5777.56 ft.
Measurements:	331.96ft. x 165.03ft. x 363.99ft. x 1326.4ft. x 1404.33ft. x 531.27ft. x 33.09ft. x 938.96ft. x 98.7ft. x 3.31ft. x 582.33ft. Lot Measurement Accuracy : LOW These lot boundaries may have been adjusted to fit within the overall parcel fabric and should only be considered to be estimates.

Assessment Information

ARN

271103003400200

Phased-In Value	Assessed Value
$3,829,000	$3,829,000
2021 Tax Year	Based on Jan 1, 2016

Frontage:	N/A	Description:	Residential development land
Depth:	N/A	Property Code:	125

Sales History

Sale Date	Sale Amount	Type	Party To	Notes
Dec 11, 2015	$1,800,000	Transfer	COLBORNE ESTATE COMPANY LTD.;	See Notes 1
Nov 03, 2010	$1,550,000	Transfer	2260304 ONTARIO INC.;	
Aug 31, 1993	$743,562	Transfer	737089 ONTARIO INC.;	

Notes :

1. The following Pins were transferred together with the subject Property

641570275, 641570276, 641570277

Terms and Conditions

Reports Not the Official Record. Reports, other than the Parcel Register, obtained through Geowarehouse are not the official government record and will not necessarily reflect the current status of interests in land.

Currency of Information. Data contained in the Geowarehouse reports are not maintained real-time. Data contained in reports, other than the Parcel Register, may be out of date ten business days or more from data contained in POLARIS.

Coverage. Data, information and other products and services accessed through the Land Registry Information Services are limited to land registry offices in the areas identified on the coverage map.

Completeness of the Sales History Report. Some Sales History Reports may be incomplete due to the amount of data collected during POLARIS title automation. Subject properties may also show nominal consideration or sales price (e.g. $2) in cases such as transfers between spouses or in tax exempt transfers.

Demographic Information. Demographic Information is obtained from Environics Analytics. Environics Analytics acquires and distributes Statistics Canada files in accordance with the Government of Canada's Open Data Policy. No information on any individual or household was made a vailable to Environics Analytics by Statistics Canada. PRIZM and selected PRIZMC2 nicknames are registered trademarks of The Nielsen Company (U.S.) and are used with permission.

The Property Information Services, reports and information are provided "as is" and your use is subject to the applicable Legal Terms and Conditions. Some information obtained from the Land Registry Information Services is not the official government record and will not reflect the current status of interests in land. Use of personal information contained herein shall relate directly to the purpose for which the data appears in land registry records and is subject to all applicable privacy legislation in respect of personal information. Such information shall not be used for marketing to a named individual.

Parcel Mapping shown on the site was compiled using plans and documents recorded in the Land Registry System and has been prepared for property indexing purposes only. It is not a Plan of Survey. For actual dimensions of property boundaries, see recorded plans and documents.

APPENDIX IV – LOCAL MONITORING WELL RECORDS

Form No. 2 1M-Jan. 1947-(A3601)

18

UTM | | Z | | E

9 R | | N

Elev. 9 R 0590

Basin 23

66 № 905

ONTARIO

RECEIVED
SEP 17 1947
GEOLOGICAL BRANCH
DEPARTMENT OF MONES

The Well Drillers Act

Department of Mines, Province of Ontario

Water Well Record

CITY OF PORT COLBORNE

[redacted] ~~stone)~~ Con. 1 Lot 31 Pt. Lot ....

Colborne .... Acres 1

Date Completed July [redacted] ding pump) ... $110.25

Pipe and Casing Record

Casing diameter(s) ... 5"

Length(s) of casing(s) ... 5 ft.

Length of screen ....

Type of screen ....

Type of pump ....

Capacity of pump ....

Depth of pump setting ....

Pumping Test

Date ....

Developed Capacity ....

Duration of Test ....

Pumping Rate ....

Drawdown ....

Static level of completed well ... 5'

Is well a gravel-wall type? ....

Water Record

Kind (fresh or mineral) ... fresh

Quality (hard, soft, contains iron, sulphur etc.) ... hard

Appearance (clear, cloudy, coloured) ... clear

For what purpose(s) is the water to be used? ... House use

How far is well from possible source of contamination? ... none

What is source of contamination? ....

Enclose a copy of any mineral analysis that has been made of water ....

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
5'		26½

Well Log

Drift and Bedrock Record	From	To
	0 ft.	......ft.
clay		2 ft.
~~ash~~	~~2~~	~~20½~~
rock	2	31½

Location of Well

In diagram below show distances of well from road and lot line

Road North + South

30 ft.

House 12' well 50' rail road

Lot line 40'

Situation: Is well on upland, in valley, or on hillside? ... upland

Drilling Firm ... A. W. Eaton

Address ... 630 Elm St. Humberstone

Recorded by ... Same .... Address ....

Date ... Sept. 9th .... Licence Number ... 30

CSS.S8

APPENDIX V – AERIAL PHOTOGRAPHS / HISTORIC PHOTOGRAPHS

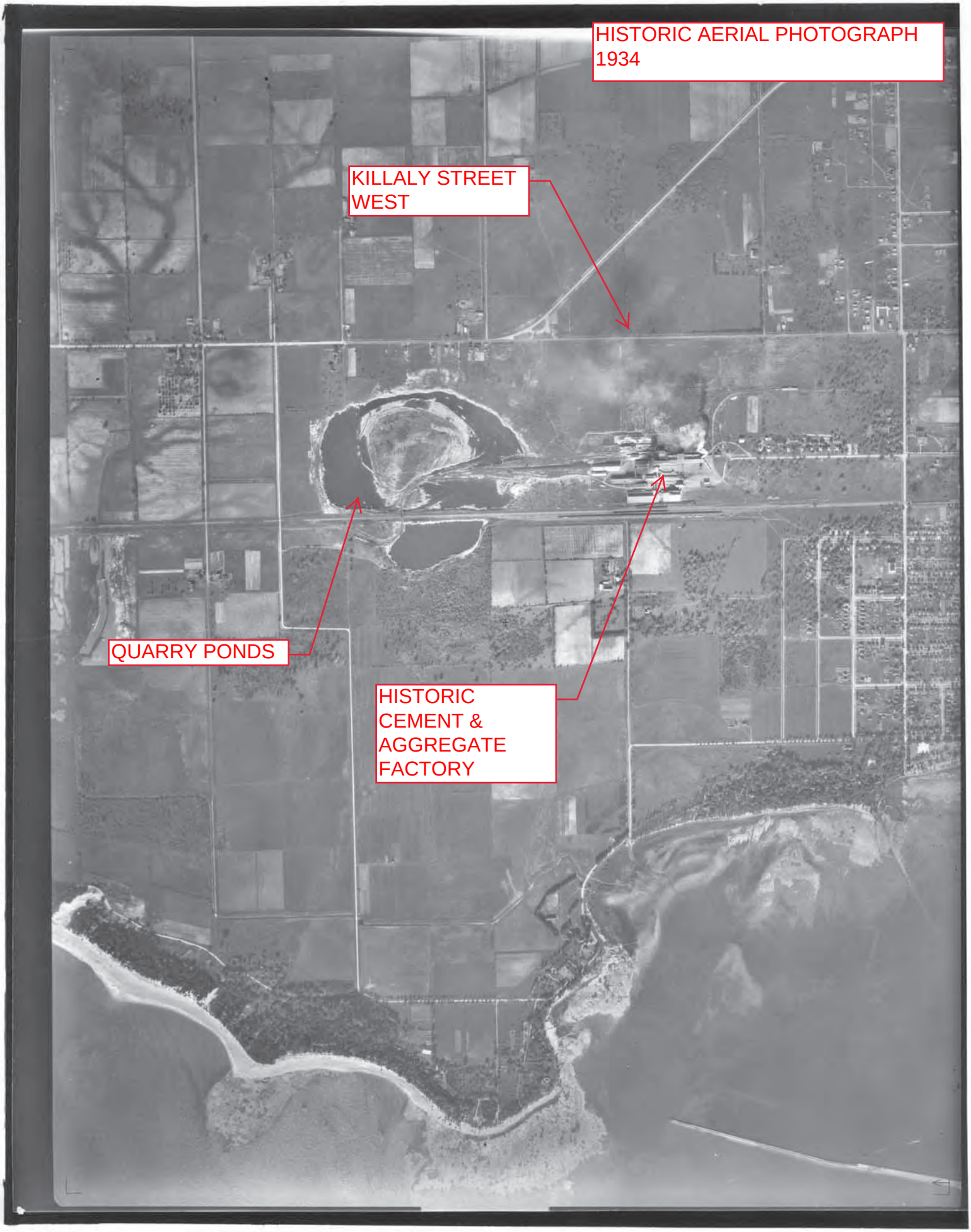
HISTORICAL AERIALS

Project Property:	Mapleview Port Colborne Subdivision project Killaly Street west Port Colborne ON
Project No:	
Requested By:	King EPCM
Order No:	21112300694
Date Completed:	November 27, 2021

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

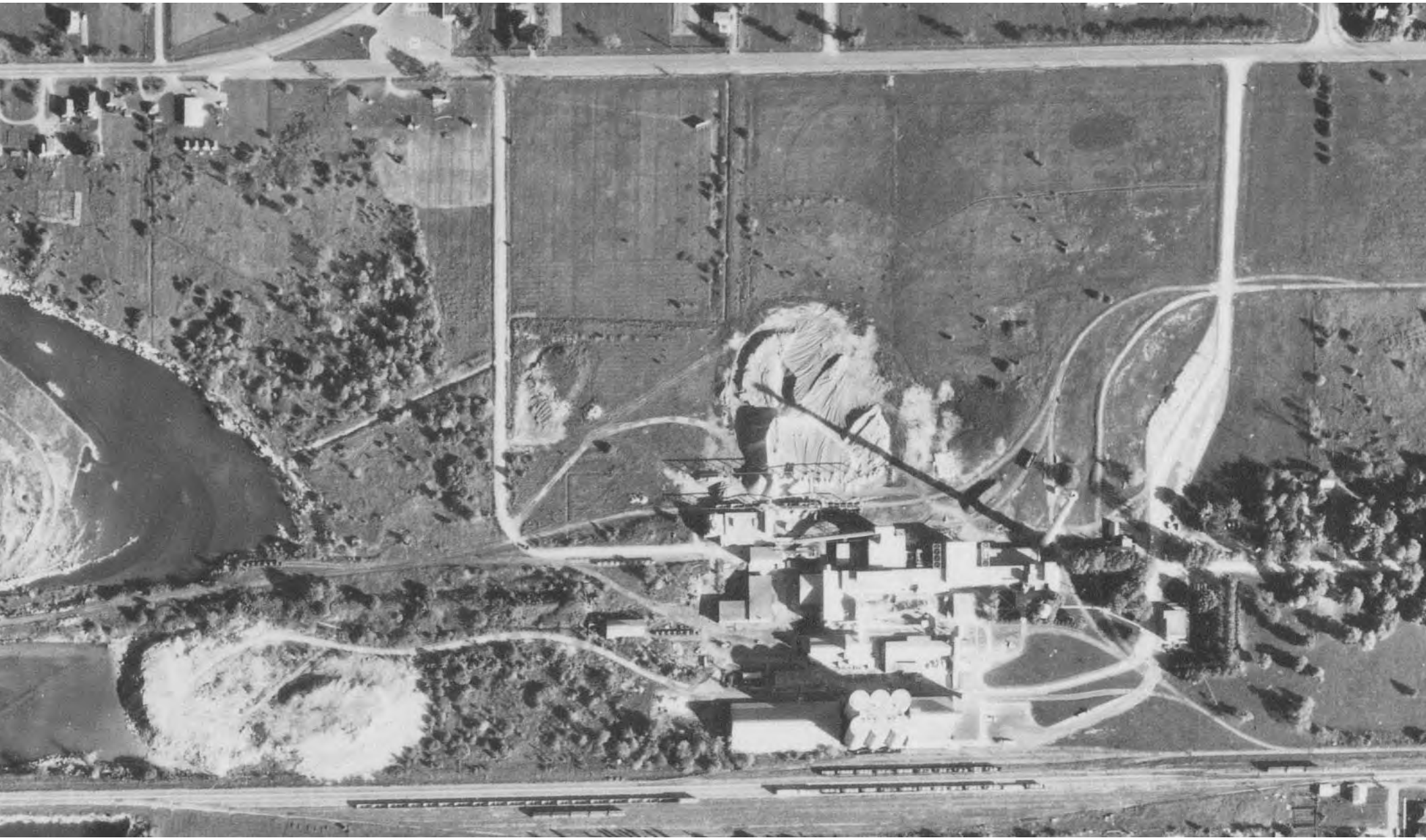
Decade	Year	Image Scale	Source
1970	1976	50000	NAPL
1970	1973	20000	NAPL
1980	1982	35000	NAPL
1980	1988	50000	NAPL
1990	Not Available		

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com



1954

1965



7 AIR PHOTO DIVISION ENERGY - MINES & RESOURCES - CANADIAN GOVT. COPYRI

1968

0 0.125 0.25 0.5
Kilometers

Order Number: 21112300694

Year: 1973
Source: NAPL
Map Scale: 1: 10000
Comments:

0 0.125 0.25 0.5
Kilometers

Order Number: 21112300694

Year: 1976
Source: NAPL
Map Scale: 1: 10000
Comments:

0 0.125 0.25 0.5
Kilometers

Order Number: 21112300694

Year: 1982
Source: NAPL
Map Scale: 1: 10000
Comments:

0 0.125 0.25 0.5
Kilometers

Order Number: 21112300694

Year: 1988
Source: NAPL
Map Scale: 1: 10000
Comments:


2000 Aerial Photograph
Degrees


2006 Aerial Photograph


2010 Aerial Photographs


2015 Aerial Photograph

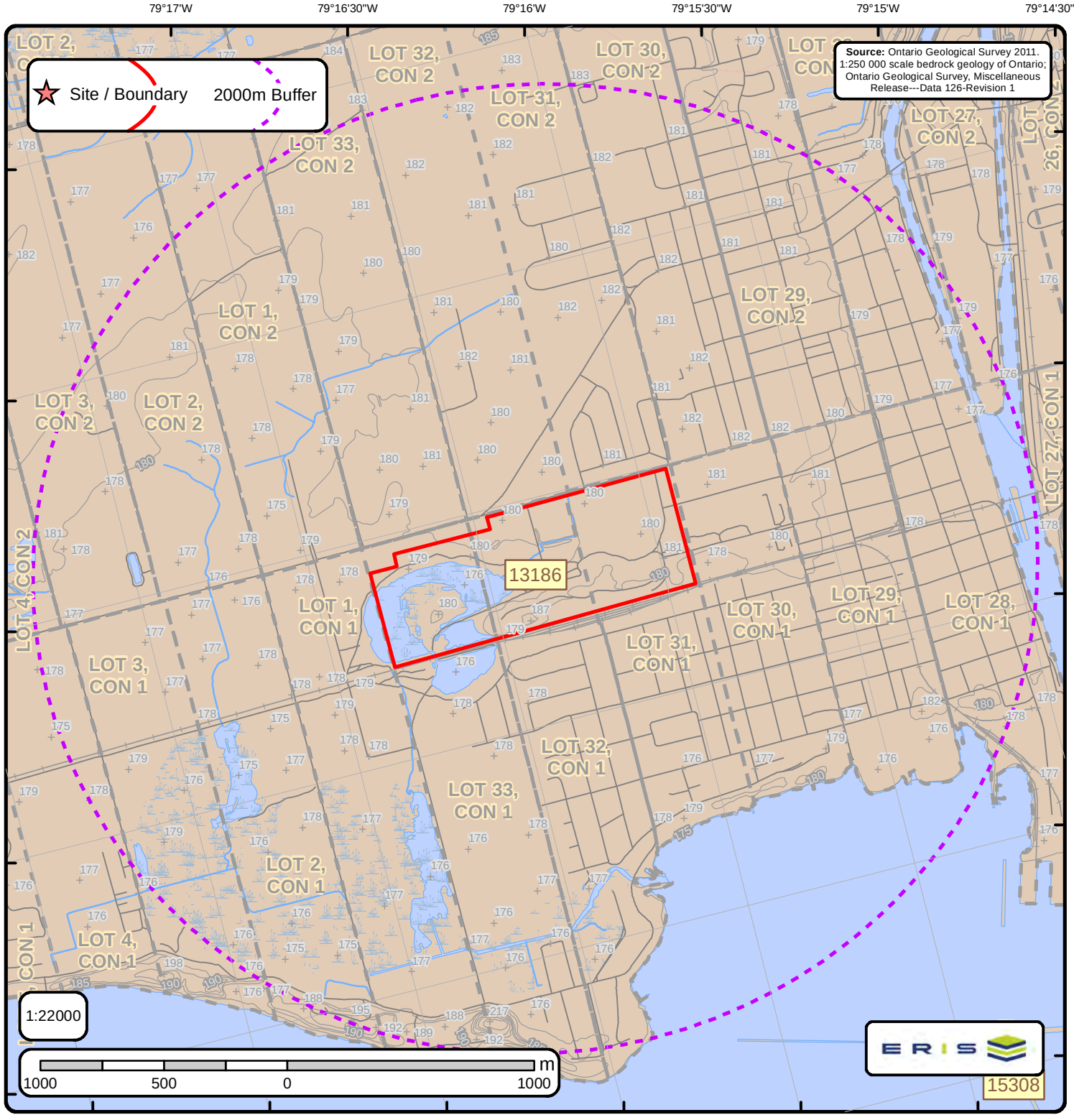

2018 Aerial Photograph

APPENDIX VI – ONTARIO BASE MAP (OBM) & MNRF MAP

Ontario Base Mapping (OBM) Data

Order No. 21112300694

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	Municipalitiy	Nature Reserve
Trail	Building to Scale	Land Ownership	



Bedrock Geology of Ontario

Order No. 21112300694

Spot Height
Roads
Contour Lines
Streams
Railroads
Lots
Pit or Quarry
Airports
Waterbody
Wetlands

Bedrock Geology Lines

- CONTACT, GEOPHYSICAL, TREND, INTERPRETED
- CONTACT, SHARP, TREND, INTERPRETED
- CONTACT, SHARP, TREND, OBSERVED
- FAULT, DEXTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, PROJECTED FAULT, INTERPRETED, UNKNOWN GENERATION
- FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, INTERPRETED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, OBSERVED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION
- NEATLINE
- ONTARIO BORDER
- Marble, chert, iron formation, minor metavolcanic rocks

Dikes

- Abitibi mafic dike
- Biscotasing mafic dike
- Empey Lake mafic dike
- Felsic to intermediate intrusive rocks
- Fort Frances mafic dike
- Frontenac mafic dike
- Grenville mafic dike
- Logan and Nipigon mafic sills
- Mackenzie mafic dike
- Mafic dikes of uncertain age
- Mafic sills and dikes
- Marathon mafic dike
- Marathon, Kapuskasing or Biscotasing mafic dike
- Matachewan mafic dike
- Mine Centre mafic dike
- Molson mafic dike
- North Channel mafic dike
- Pickle Crow mafic dike (Molson swarm) normal
- Pickle Crow mafic dike (Molson swarm) reverse
- Rideau mafic dike
- Sudbury mafic dike
- Ultramafic, gabbroic and granophyric intrusions
- Unsubdivided mafic dike
- Unsubdivided mafic dike (Keweenawan age)
- unknown

C Lines

- FOLD, ANTICLINE, INTERPRETED, UNKNOWN GENERATION
- FOLD, ANTICLINE, OBSERVED, UNKNOWN GENERATION
- FOLD, ANTICLINE, SYNFORMAL, INTERPRETED, SECOND GENERATION
- FOLD, ANTIFORM, INTERPRETED, UNKNOWN GENERATION
- FOLD, SYNCLINE, INTERPRETED, UNKNOWN GENERATION
- FOLD, SYNCLINE, OBSERVED, UNKNOWN GENERATION
- FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION

Kimberlite

Bedrock Geology Report

Bedrock Geology units found within 2000 m of
Killaly Street west

Order No.
21112300694

ID: 13186 | **Unit Name:** |
Type (All): 59d | **Type (Primary):** 59d | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Limestone, dolostone, shale | **Strata (Primary):** Detroit River Group; Onondaga Formation | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** DEVONIAN (359.2 Ma to 416.0 Ma) | **Epoch (Primary):** MIDDLE 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:

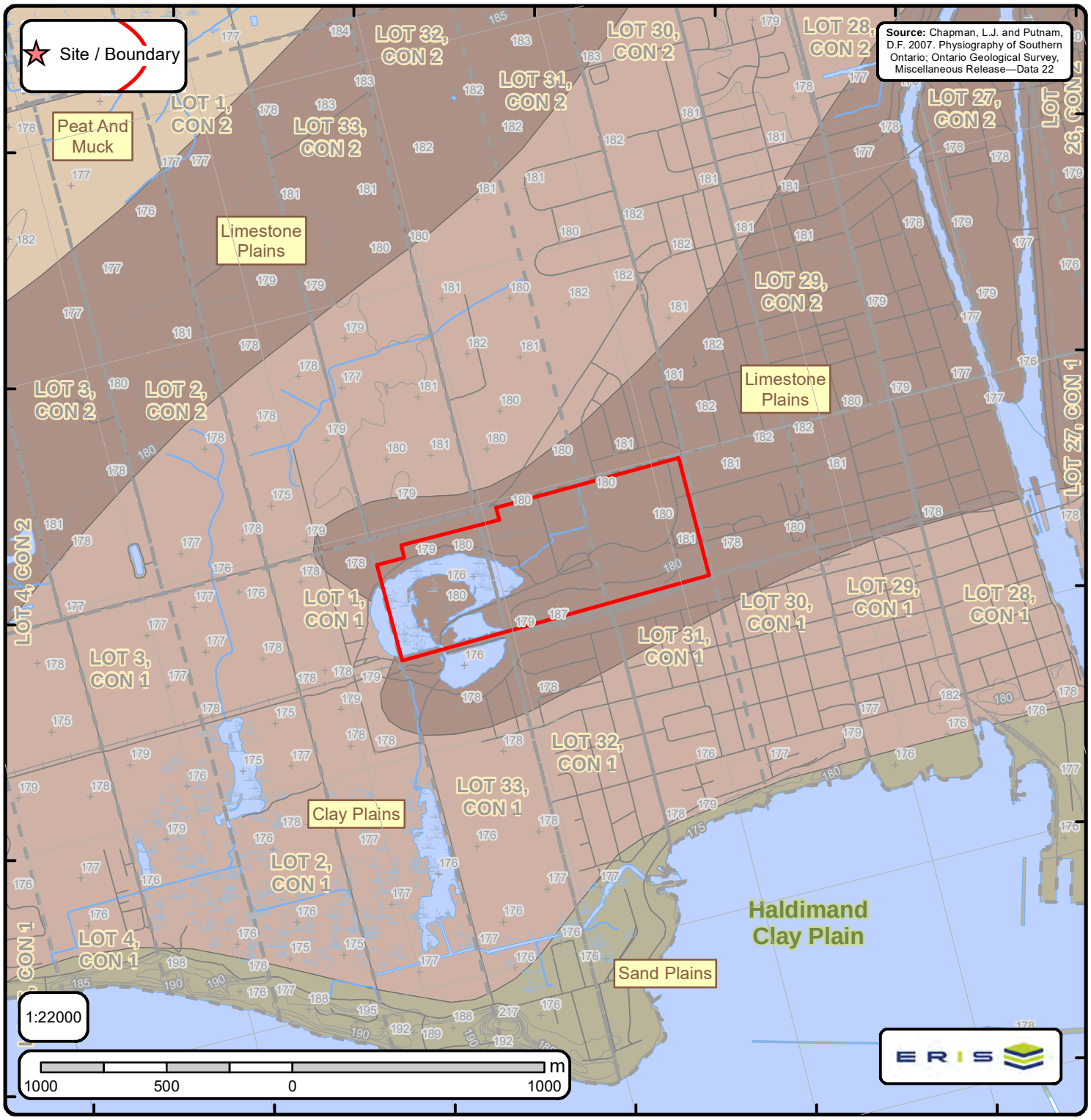
```
CAMBRIAN (488.3 Ma to 542.0 Ma)
ORDOVICIAN (443.7 Ma to 488.3 Ma)
SILURIAN (416.0 Ma to 443.7 Ma)
DEVONIAN (359.2 Ma to 416.0 Ma)
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
JURASSIC (145.5 Ma to 199.6 Ma)
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)
```

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:

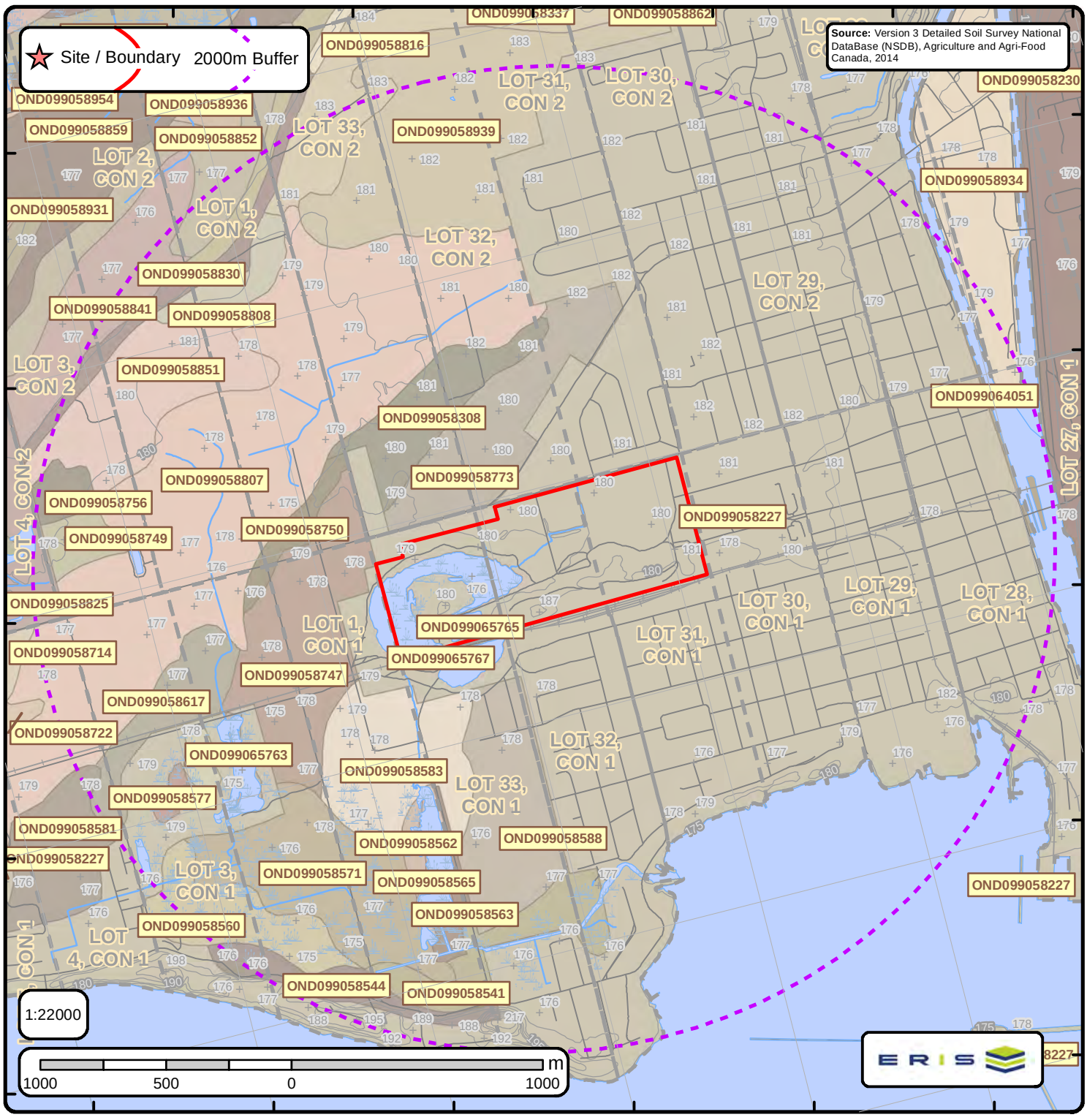
```
SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE
```



Physiography of Southern Ontario

Order No. 21112300694

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



Detailed Soil Survey (ON Soils)

Order No. 21112300694

- Spot Height
- Railroads
- Roads
- Contour Lines
- Streams
- Lots
- Pit or Quarry
- Airports
- Wetlands
- Waterbody

Soils Report

Soil Map Units Found within 2000 m of
Killaly Street west

Order No.
21112300694

Soil ID: OND099058841
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONMATR~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 16 | **Total Silt(%)** : 46 | **Total Clay(%)** : 38 | **Organic Carbon(%)** : 3.5 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.5 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-43 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 6 | **Total Sand(%)** : 13 | **Total Silt(%)** : 45 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.32 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 43-87 | **Horizon** : Ckg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 13 | **Total Silt(%)** : 49 | **Total Clay(%)** : 38 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 2.372 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 87-100 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 29 | **Total Silt(%)** : 44 | **Total Clay(%)** : 27 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 8.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.199 | **Electrical Conductivity(dS/m)** : 1 |

Soil ID: OND099058592
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **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 |

Soil ID: OND099058617
Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : moderately severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058617
Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058807
Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONWLL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silty clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 45 | **Total Clay(%)** : 48 | **Organic Carbon(%)** : 2.4 | **pH in Calc Chloride** : 5.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.341 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 15-34 | **Horizon** : Btg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 28 | **Total Clay(%)** : 69 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.2 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 34-43 | **Horizon** : Btg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 22 | **Total Clay(%)** : 77 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.2 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 43-100 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 26 | **Total Clay(%)** : 73 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 1 |

Soil ID: OND099058807
Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONWLLL~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 23 | **Total Silt(%)** : 46 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 2.7 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.424 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-43 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 8 | **Total Silt(%)** : 34 | **Total Clay(%)** : 58 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 43-46 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 11 | **Total Silt(%)** : 30 | **Total Clay(%)** : 59 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.205 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 46-100 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 5 | **Total Silt(%)** : 32 | **Total Clay(%)** : 63 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.19 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND099058583
Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058583
Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : moderately severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058825
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : None | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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
Killaly Street west

Soil ID: OND099058773
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : silty clay | **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 |

Soil ID: OND099065763
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **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 |

Soil ID: OND099058750
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : silty clay | **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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Soil ID: OND099065764
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **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 |

Soil ID: OND099065767
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **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 |

Soil ID: OND099065766
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **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 |

Soil ID: OND099058808
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058562
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : None | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058830
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 12.0 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : silty clay | **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
Killaly Street west

Soil ID: OND099058577
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : None | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058571
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBOKSH~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **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** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **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** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-20 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-100 | **Horizon** : R | **Layer No** : 3 | **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 |

Soil ID: OND099058588
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBOKSH~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **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** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **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** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-20 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-100 | **Horizon** : R | **Layer No** : 3 | **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 |

Soil ID: OND099058227
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : None | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058581
Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Very Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058581
Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONWLLL~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 23 | **Total Silt(%)** : 46 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 2.7 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.424 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-43 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 8 | **Total Silt(%)** : 34 | **Total Clay(%)** : 58 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 43-46 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 11 | **Total Silt(%)** : 30 | **Total Clay(%)** : 59 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.205 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 46-100 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 5 | **Total Silt(%)** : 32 | **Total Clay(%)** : 63 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.19 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND099058852
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058851
Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058851
Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058939
Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : moderately severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058939
Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONBOKSH~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **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** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **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** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-20 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-100 | **Horizon** : R | **Layer No** : 3 | **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 |

Soil ID: OND099058934
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : None | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058816
Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058816
Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058915
Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058915
Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBOKSH~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **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** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **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** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-20 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-100 | **Horizon** : R | **Layer No** : 3 | **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 |

Soil ID: OND099058747
Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONBOKSH~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **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** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **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** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-20 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-100 | **Horizon** : R | **Layer No** : 3 | **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 |

Soil ID: OND099058747
Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : moderately severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058756
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONFRM~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : silty clay | **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 |

Soil ID: OND099058749
Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058749
Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : Severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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
Killaly Street west

Soil ID: OND099058544
Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONWAM~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 2-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 30 | **Total Sand(%)** : 89 | **Total Silt(%)** : 9 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 7.84 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 25-45 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 15 | **Total Sand(%)** : 94 | **Total Silt(%)** : 4 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 8.247 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 45-85 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 9.397 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 85-100 | **Horizon** : Btgj | **Layer No** : 4 | **Very Fine Sand(%)** : 39 | **Total Sand(%)** : 83 | **Total Silt(%)** : 10 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 3.822 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 100-118 | **Horizon** : Btj | **Layer No** : 5 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 91 | **Total Silt(%)** : 4 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 5.06 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 118-134 | **Horizon** : BCgj | **Layer No** : 6 | **Very Fine Sand(%)** : 60 | **Total Sand(%)** : 77 | **Total Silt(%)** : 21 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 6.84 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 134-150 | **Horizon** : Ckgj | **Layer No** : 7 | **Very Fine Sand(%)** : 21 | **Total Sand(%)** : 95 | **Total Silt(%)** : 4 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 |

Soil ID: OND099058544
Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Rapidly | **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** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Presence of adverse Topography | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058541
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONWLLL~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 23 | **Total Silt(%)** : 46 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 2.7 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.424 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-43 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 8 | **Total Silt(%)** : 34 | **Total Clay(%)** : 58 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 43-46 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 11 | **Total Silt(%)** : 30 | **Total Clay(%)** : 59 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.205 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 46-100 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 5 | **Total Silt(%)** : 32 | **Total Clay(%)** : 63 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.19 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND099058308
Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **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** : moderately severe 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 | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099058308
Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBOKSH~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **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** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-18 | **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** : 6.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.969 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 18-20 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 13 | **Total Sand(%)** : 49 | **Total Silt(%)** : 45 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 3.014 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-100 | **Horizon** : R | **Layer No** : 3 | **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 |

Soil ID: OND099058565
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **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
Killaly Street west

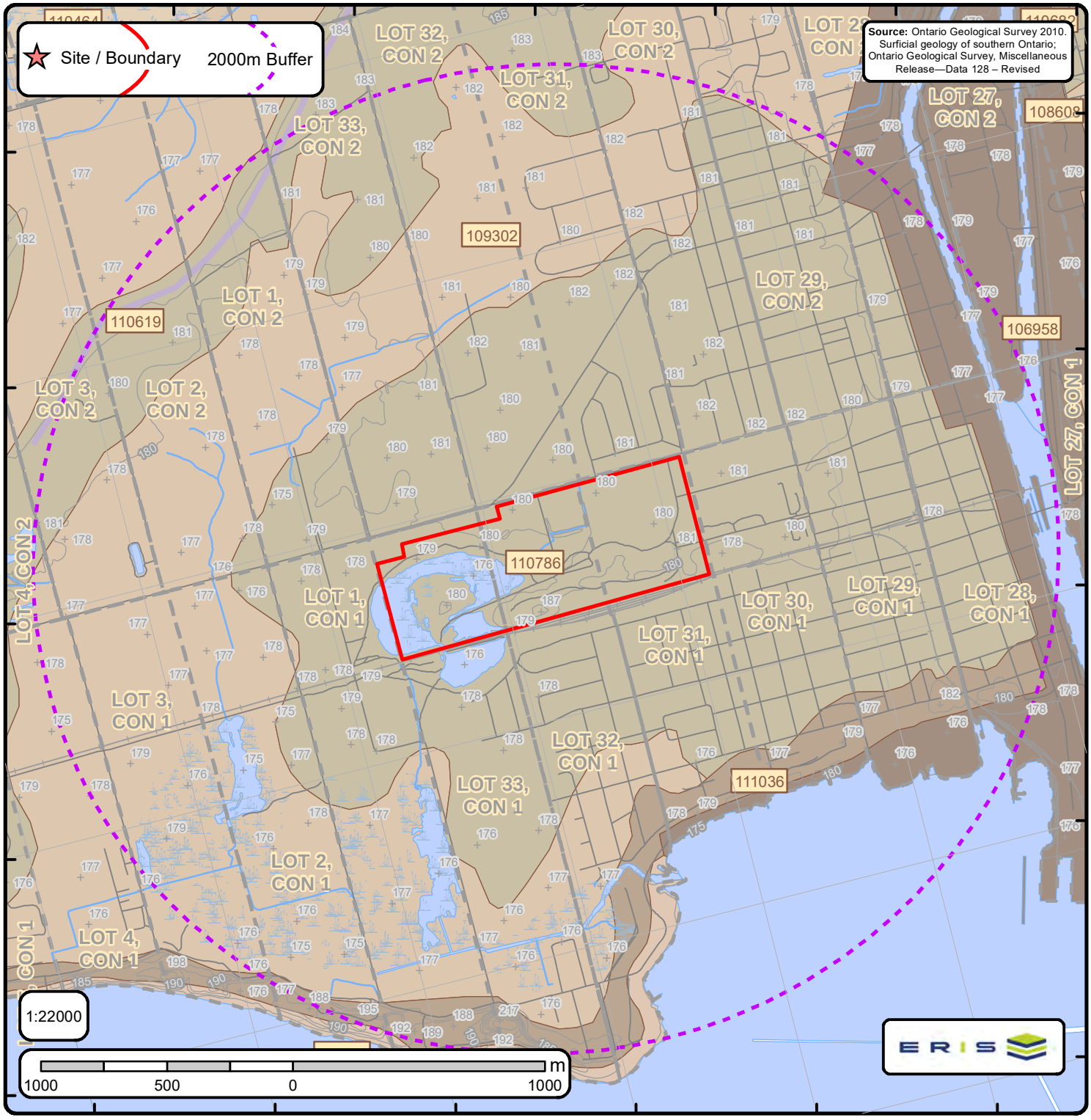
Soil ID: OND099058563
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : None | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : 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 |

Soil ID: OND099064051
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **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 |

Soil ID: OND099058560
Component No : 1 | **Components(%)** : 50 | **Soil Name ID** : ONWLLL~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 23 | **Total Silt(%)** : 46 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 2.7 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.424 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-43 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 8 | **Total Silt(%)** : 34 | **Total Clay(%)** : 58 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 43-46 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 11 | **Total Silt(%)** : 30 | **Total Clay(%)** : 59 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.205 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 46-100 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 1 | **Total Sand(%)** : 5 | **Total Silt(%)** : 32 | **Total Clay(%)** : 63 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.19 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND099058560
Component No : 2 | **Components(%)** : 50 | **Soil Name ID** : ONWLL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.0 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silty clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 45 | **Total Clay(%)** : 48 | **Organic Carbon(%)** : 2.4 | **pH in Calc Chloride** : 5.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.341 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 15-34 | **Horizon** : Btg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 28 | **Total Clay(%)** : 69 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.2 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 34-43 | **Horizon** : Btg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 22 | **Total Clay(%)** : 77 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.2 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 43-100 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 26 | **Total Clay(%)** : 73 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 1 |

Soil ID: OND099065765
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **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 |



The Surficial Geology of Southern Ontario

Order No. 21112300694

Spot Height	Streams	Dune	Beach	Esker	karst	pitsg		
Waterbody	Contour Lines	Lake	Bluff	Esker ND	linfeat	popup		
Wetlands	Roads	Rib	Crevasse	Fluvial DL	megarip	ribl		
Airports	Railroads	Scab	Crest	fluvndl	mfluvdl	slidel		
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 Killaly Street west

Order No. 21112300694

ID: 106958 | **Unit Name:** Fill |
Deposit Type Code: 17 | **Deposit Age:** Recent | **Map Number:** m2496 | **Map Name:** Niagara-Welland | **Source Map Scale:** 1:50 000 | **Primary Material:** fill | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** anthropogenic | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Fill

ID: 109302 | **Unit Name:** Glaciolacustrine deep water deposits |
Deposit Type Code: 7 | **Deposit Age:** Late Wisconsinan | **Map Number:** m2496 | **Map Name:** Niagara-Welland | **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:** Clay and silt

ID: 110619 | **Unit Name:** Onondaga and Bois Blanc Formations |
Deposit Type Code: 3 | **Deposit Age:** Devonian | **Map Number:** m2496 | **Map Name:** Niagara-Welland | **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:** Cherty limestone including locally glausonitic sandstone of the Springvale Member

ID: 110786 | **Unit Name:** Onondaga and Bois Blanc Formations |
Deposit Type Code: 3 | **Deposit Age:** Devonian | **Map Number:** m2496 | **Map Name:** Niagara-Welland | **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:** Cherty limestone including locally glausonitic sandstone of the Springvale Member

ID: 111036 | **Unit Name:** Modern coastal dune sand |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** m2496 | **Map Name:** Niagara-Welland | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** eolian | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Medium-High | **Material Description:** Sand

ID: 111064 | **Unit Name:** Modern beach |
Deposit Type Code: 15 | **Deposit Age:** Recent | **Map Number:** m2496 | **Map Name:** Niagara-Welland | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** lacustrine | **Primary General Modifier:** littoral/foreshore | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Sand and gravel

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).

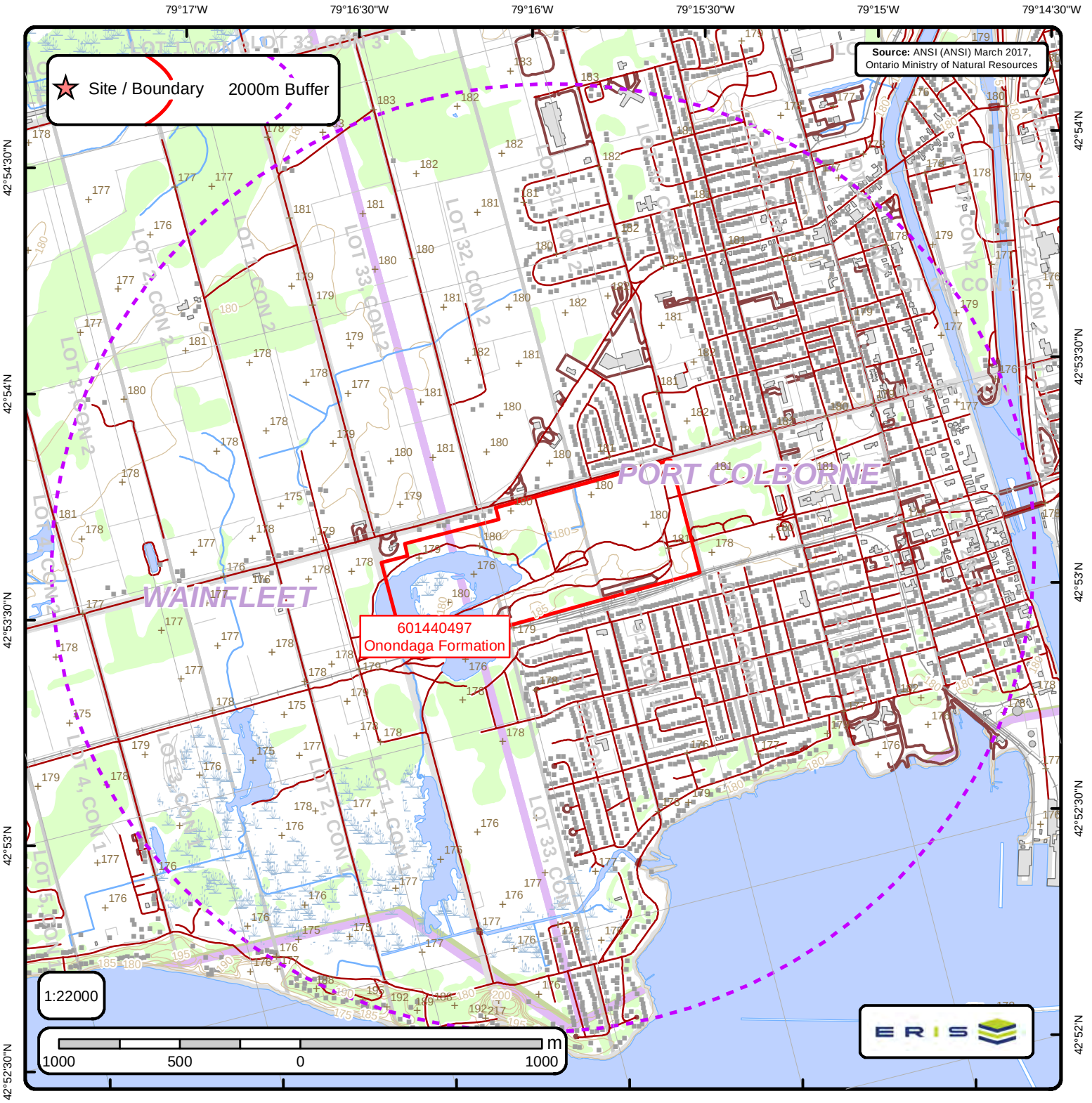
Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

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'.



Area of Natural & Scientific Interest (ANSI) Order No. 21112300694

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	Municipalitiy	Nature Reserve
Trail	Building to Scale	Land Ownership	ANSI Area

ANSI Report

ANSI Units Found within 2000 m of Killaly Street west

Order No. 21112300694

ANSI Name: Onondaga Formation
ID: 601440497 | **Type:** ANSI, Earth Science | **Significance:** Regional | **Management Plan:** No | **Area (sqm):** 7817.02 | **Comments:**